



**CHECK OUT THESE  
NEW PRODUCTS!**



**RIVETS & RIVET GUNS**

See Pages 388-390



**ABRASIVES**

See Pages 364-378



**FITTINGS**

See Pages 392-415



Now Stocking Fittings!



**THREAD REPAIR**

See Pages 176-177



"The Inventor of Aerosol Spray Paint"

**PAINT**

See Pages 338-341



**LAWN & GARDEN BELTS**

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# SECTION 1: FASTENERS



# NOTES

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## STAINLESS STEEL INFORMATION

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### 18-8 Stainless Steel

Type 302, 303, 304, 305 stainless steel are all interchangeably called 18-8 stainless steel and are austenitic stainless steels. They have slight differences in chemical composition and their corrosion resistances vary only slightly. These are the most commonly used stainless steels and provide excellent corrosion resistance and are generally non magnetic. Strength for 18-8 stainless steel is between grade 2 and grade 5.

### 316 Stainless Steel

Type 316 stainless steel is also an austenitic stainless steel. It provides better corrosion resistance than 18-8 stainless steel and is non magnetic. Strength for 316 stainless steel is between grade 2 and grade 5.

### 400 Series Stainless Steel

Type 410 and 420 stainless steels are the 400 series stainless steels most commonly used in fasteners and they are also known as martensitic stainless steel. While 400 series stainless can be heat treated to provide strength it does not provide nearly as much corrosion resistance and it is magnetic.

We also can provide fasteners in other non ferrous materials such as: Brass, Aluminum, Silicone Bronze, and Titanium.

## FASTENER COATING INFORMATION

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### Silver Zinc Plated

Silver Zinc is the most common coating for fasteners. It provides corrosion resistance for 24 hours in salt spray tests.

### Yellow Zinc Plated

Yellow Zinc or Zinc Dichromate is most commonly used with grade 8 fasteners. It provides corrosion resistance for 72 hours in salt spray tests.

### Plain Finish

Plain finish has no coating although it typically comes with an oil coating to provide some shelf life. It provides no corrosion resistance and is for indoor use only.

### Hot Dip Galvanized

Hot Dip Galvanizing is used for outdoor applications and with treated lumber. It provides one of the best corrosion resistant coatings available.

### Phosphate & Oil Coated

Phosphate & Oil coating is black or gray in color and is used on fasteners such as frame bolts and nuts. It provides corrosion resistance for 72 hours in salt spray tests.

### Black Oxide Coated

Black Oxide is used when a black color is desired and not much corrosion resistance is needed. It provides corrosion resistance for 8 hours in salt spray tests.

# HEX CAP SCREWS AND HEX BOLTS TECHNICAL INFORMATION

## ROCKWELL HARDNESS

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| A307  | B69-B100               |
| 5     | C25-C34                |
| 8     | C33- C39               |
| 9     | C38-C42                |

## COMMON IMPERIAL THREAD PITCHES

| Coarse  | Fine     |
|---------|----------|
| #4-40   |          |
| #6-32   |          |
| #8-32   |          |
| #10-24  | #10-32   |
| #12-24  | #12-28   |
| 1/4-20  | 1/4-28   |
| 5/16-18 | 5/16-24  |
| 3/8-16  | 3/8-24   |
| 7/16-14 | 7/16-20  |
| 1/2-13  | 1/2-20   |
| 9/16-12 | 9/16-18  |
| 5/8-11  | 5/8-18   |
| 3/4-10  | 3/4-16   |
| 7/8-9   | 7/8-14   |
| 1-8     | 1-14     |
| 1 1/8-7 | 1 1/8-12 |
| 1 1/4-7 | 1 1/4-12 |
| 1 1/2-6 | 1 1/2-12 |
| 1 3/4-5 | 1 3/4-12 |
| 2-4 1/2 | 2-12     |

## SUGGESTED TORQUE VALUES FOR BOLTS

Values in IN-LBS through #10 and in FT-LBS 1/4 and up

| DIAMETER & TPI | GRADE 2  | GRADE 5  | GRADE 8   | 18/8 STAINLESS STEEL |
|----------------|----------|----------|-----------|----------------------|
| 2-56           | -        | -        | -         | 2.5                  |
| 3-48           | -        | -        | -         | 3.9                  |
| 4-40           | -        | -        | -         | 5.2                  |
| 6-32           | -        | -        | -         | 9.6                  |
| 8-32           | -        | -        | -         | 19.8                 |
| 10-24          | -        | -        | -         | 22.8                 |
| 10-32          | -        | -        | -         | 31.7                 |
| 1/4-20         | 4-7      | 7-10     | 10-14     | 6.2                  |
| 1/4-28         | 5-8      | 8-12     | 11-16     | 7.8                  |
| 5/16-18        | 9-14     | 14-21    | 20-29     | 11                   |
| 5/16-24        | 10-15    | 15-23    | 22-33     | 11.8                 |
| 3/8-16         | 16-24    | 25-37    | 35-52     | 19.6                 |
| 3/8-24         | 18-27    | 28-42    | 40-59     | 21.5                 |
| 7/16-14        | 26-38    | 40-59    | 56-84     | 31.3                 |
| 7/16-20        | 29-43    | 44-66    | 62-93     | 33.3                 |
| 1/2-13         | 39-59    | 60-90    | 85-128    | 43                   |
| 1/2-20         | 44-66    | 68-102   | 96-144    | 45                   |
| 9/16-12        | 56-84    | 87-131   | 123-184   | 56.8                 |
| 9/16-18        | 63-94    | 97-146   | 137-206   | 62.6                 |
| 5/8-11         | 78-117   | 120-180  | 170-254   | 92.5                 |
| 5/8-18         | 88-132   | 136-204  | 192-288   | 103                  |
| 3/4-10         | 138-207  | 213-319  | 301-451   | 127                  |
| 3/4-16         | 154-231  | 238-357  | 336-504   | 124                  |
| 7/8-9          | 222-334  | 344-515  | 485-728   | 194                  |
| 7/8-14         | 245-367  | 379-568  | 534-802   | 193                  |
| 1-8            | 333-500  | 515-773  | 727-1091  | 286                  |
| 1-14           | 373-560  | 577-866  | 815-1222  | 259                  |
| 1 1/8-7        | 472-708  | 635-953  | 1030-1545 | 413                  |
| 1 1/8-12       | 530-794  | 713-1069 | 1156-1733 | 390                  |
| 1 1/4-7        | 666-999  | 896-1344 | 1454-2180 | 523                  |
| 1 1/4-12       | 738-1107 | 993-1489 | 1610-2414 | 480                  |

# HEX CAP SCREWS AND HEX BOLTS TECHNICAL INFORMATION

## TENSILE STRENGTHS

### Coarse Thread

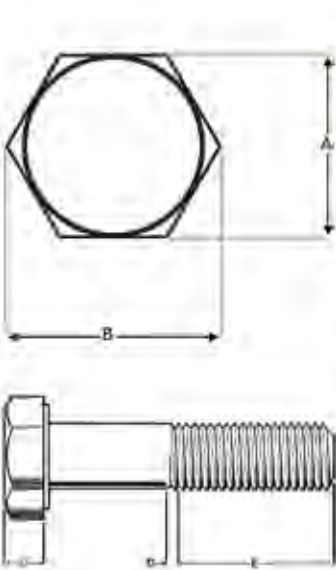
| Diameter | Grade A307 | Grade 5 | Grade 8 | Grade 9 |
|----------|------------|---------|---------|---------|
| 1/4-20   | 1900       | 3800    | 4750    | 5724    |
| 5/16-18  | 3100       | 6300    | 7850    | 9432    |
| 3/8-16   | 4650       | 9300    | 11600   | 13950   |
| 7/16-14  | 6350       | 12800   | 15900   | 19134   |
| 1/2-13   | 8500       | 17000   | 21300   | 25542   |
| 9/16-12  | 11000      | 21800   | 27300   | 32760   |
| 5/8-11   | 13550      | 27100   | 33900   | 40680   |
| 3/4-10   | 20050      | 40100   | 50100   | 60120   |
| 7/8-9    | 27700      | 55400   | 69300   | 83460   |
| 1-8      | 36350      | 72700   | 90900   | 109080  |
| 1 1/8-7  | 45800      | 80100   | 114400  | 137340  |
| 1 1/4-7  | 58150      | 101700  | 145400  | 174420  |
| 1 1/2-6  | 84300      | 147500  | 210800  | -       |

### Fine Thread

| Diameter | Grade 5 | Grade 8 | Grade 9 |
|----------|---------|---------|---------|
| 1/4-28   | 4350    | 5450    | 6552    |
| 5/16-24  | 6950    | 8700    | 10440   |
| 3/8-24   | 10500   | 13200   | 15804   |
| 7/16-20  | 14200   | 17800   | 21366   |
| 1/2-20   | 19200   | 24000   | 28782   |
| 9/16-18  | 24400   | 30400   | 36540   |
| 5/8-18   | 30700   | 38400   | 46080   |
| 3/4-16   | 44800   | 56000   | 67140   |
| 7/8-14   | 61100   | 76400   | 91620   |
| 1-14     | 81500   | 101900  | 119340  |
| 1 1/8-12 | 89900   | 128400  | -       |
| 1 1/4-12 | 112700  | 161000  | -       |
| 1 1/2-12 | 166000  | 237200  | -       |

Endurance limits vary widely. Endurance limits of 10-20% of the tensile strength have been reported.

## HEX CAP SCREW DIMENSIONS



| Bolt Diameter | A                  |                      | B                      |         | C                                  |                                   | D                        |  | E |
|---------------|--------------------|----------------------|------------------------|---------|------------------------------------|-----------------------------------|--------------------------|--|---|
|               | Width Across Flats | Width Across Corners | A307, Grade 5, Grade 8 | Grade 9 | Basic Thread Length 6" and shorter | Basic Thread Length 6" and longer | Transition Thread Length |  |   |
| 1/4           | 7/16               | .497                 | 5/32                   | 3/16    | 3/4                                | 1                                 | 0.25                     |  |   |
| 5/16          | 1/2                | .567                 | 13/64                  | 15/64   | 7/8                                | 1 1/8                             | 0.278                    |  |   |
| 3/8           | 9/16               | .639                 | 15/64                  | 19/64   | 1                                  | 1 1/4                             | 0.312                    |  |   |
| 7/16          | 5/8                | .710                 | 9/32                   | 21/64   | 1 1/8                              | 1 3/8                             | 0.357                    |  |   |
| 1/2           | 3/4                | .853                 | 5/16                   | 3/8     | 1 1/4                              | 1 1/2                             | 0.385                    |  |   |
| 9/16          | 13/16              | .924                 | 23/64                  | 27/64   | 1 3/8                              | 1 5/8                             | 0.417                    |  |   |
| 5/8           | 15/16              | 1.067                | 25/64                  | 15/32   | 1 1/2                              | 1 3/4                             | 0.455                    |  |   |
| 3/4           | 1 1/8              | 1.277                | 15/32                  | 9/16    | 1 3/4                              | 2                                 | 0.5                      |  |   |
| 7/8           | 1 5/16             | 1.491                | 35/64                  | 21/32   | 2                                  | 2 1/4                             | 0.556                    |  |   |
| 1             | 1 1/2              | 1.701                | 39/64                  | 3/4     | 2 1/4                              | 2 1/2                             | 0.625                    |  |   |
| 1 1/8         | 1 11/16            | 1.904                | 11/16                  | 27/32   | 2 1/2                              | 2 3/4                             | 0.714                    |  |   |
| 1 1/4         | 1 7/8              | 2.116                | 25/32                  | 15/16   | 2 3/4                              | 3                                 | 0.714                    |  |   |
| 1 1/2         | 2 1/4              | 2.539                | 15/16                  | -       | 3 1/4                              | 3 1/2                             | 0.833                    |  |   |



# HEX BOLTS

## GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED



Hex Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Grade A307 is similar to Grade 2 and they are often used interchangeably although Grade 2 has a slightly higher tensile strength of 74,000 psi.

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FH20404 | 1/4-20 X 1/2    | 25                 | 100                | 4500          |
| FH20405 | 1/4-20 X 5/8    | 25                 | 100                | 4000          |
| FH20406 | 1/4-20 X 3/4    | 25                 | 100                | 3750          |
| FH20407 | 1/4-20 X 7/8    | 25                 | 100                | 3600          |
| FH20408 | 1/4-20 X 1      | 25                 | 100                | 3000          |
| FH20410 | 1/4-20 X 1 1/4  | 25                 | 100                | 2250          |
| FH20412 | 1/4-20 X 1 1/2  | 25                 | 100                | 1825          |
| FH20416 | 1/4-20 X 2      | 25                 | 100                | 1375          |
| FH20418 | 1/4-20 X 2 1/4  | 25                 | 100                | 1400          |
| FH20420 | 1/4-20 X 2 1/2  | 25                 | 100                | 1125          |
| FH20424 | 1/4-20 X 3      | 25                 | 100                | 875           |
| FH20428 | 1/4-20 X 3 1/2  | 25                 | 100                | 625           |
| FH20432 | 1/4-20 X 4      | 25                 | 100                | 500           |
| FH20436 | 1/4-20 X 4 1/2  | 15                 | 50                 | 700           |
| FH20440 | 1/4-20 X 5      | 15                 | 50                 | 350           |
| FH20448 | 1/4-20 X 6      | 15                 | 50                 | 600           |
| FH20504 | 5/16-18 X 1/2   | 25                 | 100                | 2500          |
| FH20506 | 5/16-18 X 3/4   | 25                 | 100                | 2000          |
| FH20508 | 5/16-18 X 1     | 25                 | 100                | 1750          |
| FH20510 | 5/16-18 X 1 1/4 | 25                 | 100                | 1800          |
| FH20512 | 5/16-18 X 1 1/2 | 25                 | 100                | 1125          |
| FH20514 | 5/16-18 X 1 3/4 | 25                 | 100                | 1000          |
| FH20516 | 5/16-18 X 2     | 25                 | 100                | 925           |
| FH20520 | 5/16-18 X 2 1/2 | 25                 | 100                | 750           |
| FH20524 | 5/16-18 X 3     | 25                 | 100                | 575           |
| FH20528 | 5/16-18 X 3 1/2 | 15                 | 50                 | 475           |
| FH20532 | 5/16-18 X 4     | 15                 | 50                 | 375           |
| FH20536 | 5/16-18 X 4 1/2 | 15                 | 50                 | 400           |
| FH20540 | 5/16-18 X 5     | 15                 | 50                 | 250           |
| FH20544 | 5/16-18 X 5 1/2 | 15                 | 50                 | 300           |
| FH20548 | 5/16-18 X 6     | 15                 | 50                 | 300           |
| FH20604 | 3/8-16 X 1/2    | 25                 | 100                | 2000          |
| FH20606 | 3/8-16 X 3/4    | 25                 | 100                | 1500          |
| FH20608 | 3/8-16 X 1      | 25                 | 100                | 1200          |
| FH20610 | 3/8-16 X 1 1/4  | 25                 | 100                | 1000          |
| FH20612 | 3/8-16 X 1 1/2  | 25                 | 100                | 850           |
| FH20616 | 3/8-16 X 2      | 25                 | 100                | 625           |
| FH20620 | 3/8-16 X 2 1/2  | 15                 | 50                 | 500           |

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FH20624 | 3/8-16 X 3      | 15                 | 50                 | 450           |
| FH20628 | 3/8-16 X 3 1/2  | 15                 | 50                 | 400           |
| FH20632 | 3/8-16 X 4      | 15                 | 50                 | 300           |
| FH20636 | 3/8-16 X 4 1/2  | 15                 | 50                 | 300           |
| FH20640 | 3/8-16 X 5      | 15                 | 50                 | 175           |
| FH20644 | 3/8-16 X 5 1/2  | 15                 | 50                 | 300           |
| FH20648 | 3/8-16 X 6      | 15                 | 50                 | 125           |
| FH20706 | 7/16-14 X 3/4   | 15                 | 50                 | 800           |
| FH20708 | 7/16-14 X 1     | 15                 | 50                 | 800           |
| FH20712 | 7/16-14 X 1 1/2 | 15                 | 50                 | 600           |
| FH20716 | 7/16-14 X 2     | 15                 | 50                 | 500           |
| FH20720 | 7/16-14 X 2 1/2 | 15                 | 50                 | 450           |
| FH20724 | 7/16-14 X 3     | 15                 | 50                 | 350           |
| FH20728 | 7/16-14 X 3 1/2 | 10                 | 25                 | 300           |
| FH20732 | 7/16-14 X 4     | 10                 | 25                 | 250           |
| FH20736 | 7/16-14 X 4 1/2 | 10                 | 25                 | 200           |
| FH20740 | 7/16-14 X 5     | 10                 | 25                 | 175           |
| FH20744 | 7/16-14 X 5 1/2 | 10                 | 25                 | 160           |
| FH20748 | 7/16-14 X 6     | 10                 | 25                 | 150           |
| FH20808 | 1/2-13 X 1      | 15                 | 50                 | 600           |
| FH20810 | 1/2-13 X 1 1/4  | 15                 | 50                 | 500           |
| FH20812 | 1/2-13 X 1 1/2  | 15                 | 50                 | 450           |
| FH20814 | 1/2-13 X 1 3/4  | 15                 | 50                 | 400           |
| FH20816 | 1/2-13 X 2      | 15                 | 50                 | 350           |
| FH20818 | 1/2-13 X 2 1/4  | 15                 | 50                 | 300           |
| FH20820 | 1/2-13 X 2 1/2  | 15                 | 50                 | 275           |
| FH20824 | 1/2-13 X 3      | 15                 | 50                 | 250           |
| FH20828 | 1/2-13 X 3 1/2  | 10                 | 25                 | 225           |
| FH20832 | 1/2-13 X 4      | 10                 | 25                 | 200           |
| FH20836 | 1/2-13 X 4 1/2  | 10                 | 25                 | 175           |
| FH20840 | 1/2-13 X 5      | 10                 | 25                 | 110           |
| FH20844 | 1/2-13 X 5 1/2  | 10                 | 25                 | 150           |
| FH20848 | 1/2-13 X 6      | 10                 | 25                 | 100           |
| FH20868 | 1/2-13 X 8 1/2  | -                  | 1                  | 80            |

# HEX BOLTS

## GRADE 307A • COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FHG0506  | 5/16-18 X 3/4  | 25                 | 100                | 2600          |
| FHG0508  | 5/16-18 X 1    | 25                 | 100                | 1900          |
| FHG0524  | 5/16-18 X 3    | 25                 | 100                | 700           |
| FHG0606  | 3/8-16 X 3/4   | 25                 | 100                | 1200          |
| FHG0608  | 3/8-16 X 1     | 25                 | 100                | 1500          |
| FHG0610  | 3/8-16 X 1 1/4 | 25                 | 100                | 1300          |
| FHG0612  | 3/8-16 X 1 1/2 | 25                 | 100                | 1000          |
| FHG0620  | 3/8-16 X 2 1/2 | 15                 | 50                 | 650           |
| FHG0632  | 3/8-16 X 4     | 15                 | 50                 | 325           |
| FHG0820  | 1/2-13 X 2 1/2 | 15                 | 50                 | 300           |
| FHG0832  | 1/2-13 X 4     | 10                 | 25                 | 200           |
| FHG0848  | 1/2-13 X 6     | 10                 | 25                 | 150           |
| FHG0856  | 1/2-13 X 7     | -                  | 1                  | 150           |
| FHG0860  | 1/2-13 X 7 1/2 | -                  | 1                  | 90            |
| FHG0864  | 1/2-13 X 8     | -                  | 1                  | 125           |
| FHG1016  | 5/8-11 X 2     | 10                 | 25                 | 250           |
| FHG1020  | 5/8-11 X 2 1/2 | 10                 | 25                 | 200           |
| FHG1056  | 5/8-11 X 7     | -                  | 1                  | 70            |
| FHG1064  | 5/8-11 X 8     | -                  | 1                  | 60            |
| FHG1080  | 5/8-11 X 10    | -                  | 1                  | 50            |
| FHG10112 | 5/8-11 X 14    | -                  | 1                  | 35            |
| FHG12128 | 3/4-10 X 16    | -                  | 1                  | 25            |
| FHG14126 | 7/8-9 X 16     | -                  | 1                  | 20            |

Don't see the size you're looking for? Call us for availability!

# HEX CAP SCREWS

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA



Hex Cap Screws Grade 5 are manufactured to SAE J429 Grade 5 specs. 1/4" to 1" diameters have a minimum tensile strength of 120,000 psi and 1 1/8" to 1 1/2" diameters have a minimum tensile strength of 105,000 psi.

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH504004 | 1/4-20 X 1/2    | 30                 | 100                | 3300          |
| FH504005 | 1/4-20 X 5/8    | 30                 | 100                | 3000          |
| FH504006 | 1/4-20 X 3/4    | 30                 | 100                | 2700          |
| FH504007 | 1/4-20 X 7/8    | 30                 | 100                | 2500          |
| FH504008 | 1/4-20 X 1      | 30                 | 100                | 2200          |
| FH504010 | 1/4-20 X 1 1/4  | 30                 | 100                | 1900          |
| FH504012 | 1/4-20 X 1 1/2  | 30                 | 100                | 1600          |
| FH504014 | 1/4-20 X 1 3/4  | 30                 | 100                | 1400          |
| FH504016 | 1/4-20 X 2      | 30                 | 100                | 1200          |
| FH504018 | 1/4-20 X 2 1/4  | 30                 | 100                | 1000          |
| FH504020 | 1/4-20 X 2 1/2  | 30                 | 100                | 900           |
| FH504022 | 1/4-20 X 2 3/4  | 30                 | 100                | 750           |
| FH504024 | 1/4-20 X 3      | 30                 | 100                | 750           |
| FH504026 | 1/4-20 X 3 1/4  | 10                 | 100                | 600           |
| FH504028 | 1/4-20 X 3 1/2  | 10                 | 100                | 550           |
| FH504030 | 1/4-20 X 3 3/4  | 5                  | 100                | 500           |
| FH504032 | 1/4-20 X 4      | 5                  | 100                | 450           |
| FH504034 | 1/4-20 X 4 1/4  | 5                  | 100                | 450           |
| FH504036 | 1/4-20 X 4 1/2  | 5                  | 100                | 450           |
| FH504040 | 1/4-20 X 5      | 5                  | 100                | 400           |
| FH504044 | 1/4-20 X 5 1/2  | 5                  | 100                | 400           |
| FH504048 | 1/4-20 X 6      | 5                  | 100                | 350           |
| FH504052 | 1/4-20 X 6 1/2  | -                  | 1                  | 350           |
| FH504056 | 1/4-20 X 7      | -                  | 1                  | 300           |
| FH504064 | 1/4-20 X 8      | -                  | 1                  | 275           |
| FH505004 | 5/16-18 X 1/2   | 30                 | 100                | 1950          |
| FH505005 | 5/16-18 X 5/8   | 30                 | 100                | 1800          |
| FH505006 | 5/16-18 X 3/4   | 30                 | 100                | 1650          |
| FH505008 | 5/16-18 X 1     | 30                 | 100                | 1400          |
| FH505010 | 5/16-18 X 1 1/4 | 30                 | 100                | 1100          |
| FH505012 | 5/16-18 X 1 1/2 | 30                 | 100                | 1000          |
| FH505014 | 5/16-18 X 1 3/4 | 30                 | 100                | 850           |
| FH505016 | 5/16-18 X 2     | 30                 | 100                | 800           |
| FH505018 | 5/16-18 X 2 1/4 | 30                 | 100                | 700           |
| FH505020 | 5/16-18 X 2 1/2 | 30                 | 100                | 600           |
| FH505022 | 5/16-18 X 2 3/4 | 30                 | 100                | 550           |
| FH505024 | 5/16-18 X 3     | 30                 | 100                | 500           |
| FH505026 | 5/16-18 X 3 1/4 | 10                 | 50                 | 450           |
| FH505028 | 5/16-18 X 3 1/2 | 10                 | 50                 | 450           |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH505030 | 5/16-18 X 3 3/4 | 5                  | 50                 | 400           |
| FH505032 | 5/16-18 X 4     | 5                  | 50                 | 400           |
| FH505036 | 5/16-18 X 4 1/2 | 5                  | 50                 | 300           |
| FH505040 | 5/16-18 X 5     | 5                  | 50                 | 250           |
| FH505044 | 5/16-18 X 5 1/2 | 5                  | 50                 | 250           |
| FH505048 | 5/16-18 X 6     | 5                  | 50                 | 250           |
| FH505052 | 5/16-18 X 6 1/2 | -                  | 1                  | 250           |
| FH505056 | 5/16-18 X 7     | -                  | 1                  | 225           |
| FH505064 | 5/16-18 X 8     | -                  | 1                  | 225           |
| FH506004 | 3/8-16 X 1/2    | 30                 | 100                | 1300          |
| FH506005 | 3/8-16 X 5/8    | 30                 | 100                | 1200          |
| FH506006 | 3/8-16 X 3/4    | 30                 | 100                | 1100          |
| FH506008 | 3/8-16 X 1      | 30                 | 100                | 900           |
| FH506010 | 3/8-16 X 1 1/4  | 30                 | 100                | 800           |
| FH506011 | 3/8-16 X 1 3/8  | 30                 | 100                | 675           |
| FH506012 | 3/8-16 X 1 1/2  | 30                 | 100                | 675           |
| FH506014 | 3/8-16 X 1 3/4  | 30                 | 100                | 600           |
| FH506016 | 3/8-16 X 2      | 30                 | 100                | 550           |
| FH506018 | 3/8-16 X 2 1/4  | 30                 | 50                 | 450           |
| FH506020 | 3/8-16 X 2 1/2  | 30                 | 50                 | 400           |
| FH506022 | 3/8-16 X 2 3/4  | 10                 | 50                 | 400           |
| FH506024 | 3/8-16 X 3      | 10                 | 50                 | 325           |
| FH506026 | 3/8-16 X 3 1/4  | 10                 | 50                 | 325           |
| FH506028 | 3/8-16 X 3 1/2  | 10                 | 50                 | 300           |
| FH506030 | 3/8-16 X 3 3/4  | 5                  | 50                 | 250           |
| FH506032 | 3/8-16 X 4      | 5                  | 50                 | 250           |
| FH506034 | 3/8-16 X 4 1/4  | 5                  | 50                 | 225           |
| FH506036 | 3/8-16 X 4 1/2  | 5                  | 50                 | 225           |
| FH506040 | 3/8-16 X 5      | 5                  | 50                 | 225           |
| FH506044 | 3/8-16 X 5 1/2  | 5                  | 50                 | 175           |
| FH506048 | 3/8-16 X 6      | 5                  | 50                 | 175           |
| FH506052 | 3/8-16 X 6 1/2  | -                  | 1                  | 175           |
| FH506056 | 3/8-16 X 7      | -                  | 1                  | 150           |
| FH506060 | 3/8-16 X 7 1/2  | -                  | 1                  | 150           |
| FH506064 | 3/8-16 X 8      | -                  | 1                  | 150           |
| FH506068 | 3/8-16 X 8 1/2  | -                  | 1                  | 130           |
| FH506072 | 3/8-16 X 9      | -                  | 1                  | 130           |
| FH506076 | 3/8-16 X 9 1/2  | -                  | 1                  | 125           |
| FH506080 | 3/8-16 X 10     | -                  | 1                  | 120           |

# HEX CAP SCREWS

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH506088 | 3/8-16 X 11     | -                  | 1                  | 110           |
| FH506096 | 3/8-16 X 12     | -                  | 1                  | 100           |
| FH506104 | 3/8-16 X 13     | -                  | 1                  | 90            |
| FH507006 | 7/16-14 X 3/4   | 20                 | 50                 | 750           |
| FH507008 | 7/16-14 X 1     | 20                 | 50                 | 650           |
| FH507010 | 7/16-14 X 1 1/4 | 20                 | 50                 | 550           |
| FH507012 | 7/16-14 X 1 1/2 | 20                 | 50                 | 500           |
| FH507014 | 7/16-14 X 1 3/4 | 10                 | 50                 | 450           |
| FH507016 | 7/16-14 X 2     | 10                 | 50                 | 400           |
| FH507018 | 7/16-14 X 2 1/4 | 10                 | 50                 | 350           |
| FH507020 | 7/16-14 X 2 1/2 | 10                 | 50                 | 300           |
| FH507022 | 7/16-14 X 2 3/4 | 10                 | 50                 | 300           |
| FH507024 | 7/16-14 X 3     | 10                 | 50                 | 275           |
| FH507026 | 7/16-14 X 3 1/4 | 10                 | 25                 | 250           |
| FH507028 | 7/16-14 X 3 1/2 | 10                 | 25                 | 225           |
| FH507030 | 7/16-14 X 3 3/4 | 10                 | 25                 | 225           |
| FH507032 | 7/16-14 X 4     | 10                 | 25                 | 200           |
| FH507036 | 7/16-14 X 4 1/2 | 5                  | 25                 | 175           |
| FH507040 | 7/16-14 X 5     | 5                  | 25                 | 150           |
| FH507044 | 7/16-14 X 5 1/2 | 5                  | 25                 | 150           |
| FH507048 | 7/16-14 X 6     | 5                  | 25                 | 125           |
| FH507052 | 7/16-14 X 6 1/2 | -                  | 1                  | 125           |
| FH507056 | 7/16-14 X 7     | -                  | 1                  | 125           |
| FH507064 | 7/16-14 X 8     | -                  | 1                  | 110           |
| FH507072 | 7/16-14 X 9     | -                  | 1                  | 100           |
| FH507080 | 7/16-14 X 10    | -                  | 1                  | 90            |
| FH508006 | 1/2-13 X 3/4    | 10                 | 50                 | 475           |
| FH508008 | 1/2-13 X 1      | 10                 | 50                 | 400           |
| FH508010 | 1/2-13 X 1 1/4  | 10                 | 50                 | 375           |
| FH508012 | 1/2-13 X 1 1/2  | 10                 | 50                 | 300           |
| FH508014 | 1/2-13 X 1 3/4  | 10                 | 50                 | 275           |
| FH508016 | 1/2-13 X 2      | 10                 | 50                 | 250           |
| FH508018 | 1/2-13 X 2 1/4  | 10                 | 50                 | 225           |
| FH508020 | 1/2-13 X 2 1/2  | 10                 | 50                 | 225           |
| FH508022 | 1/2-13 X 2 3/4  | 10                 | 50                 | 200           |
| FH508024 | 1/2-13 X 3      | 10                 | 50                 | 200           |
| FH508026 | 1/2-13 X 3 1/4  | 10                 | 25                 | 175           |
| FH508028 | 1/2-13 X 3 1/2  | 10                 | 25                 | 150           |
| FH508030 | 1/2-13 X 3 3/4  | 10                 | 25                 | 150           |
| FH508032 | 1/2-13 X 4      | 10                 | 25                 | 150           |
| FH508036 | 1/2-13 X 4 1/2  | 5                  | 25                 | 125           |
| FH508040 | 1/2-13 X 5      | 5                  | 25                 | 125           |
| FH508044 | 1/2-13 X 5 1/2  | 5                  | 25                 | 100           |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH508048 | 1/2-13 X 6      | 5                  | 25                 | 100           |
| FH508052 | 1/2-13 X 6 1/2  | -                  | 1                  | 100           |
| FH508056 | 1/2-13 X 7      | -                  | 1                  | 90            |
| FH508060 | 1/2-13 X 7 1/2  | -                  | 1                  | 80            |
| FH508064 | 1/2-13 X 8      | -                  | 1                  | 80            |
| FH508068 | 1/2-13 X 8 1/2  | -                  | 1                  | 80            |
| FH508072 | 1/2-13 X 9      | -                  | 1                  | 75            |
| FH508076 | 1/2-13 X 9 1/2  | -                  | 1                  | 70            |
| FH508080 | 1/2-13 X 10     | -                  | 1                  | 65            |
| FH508088 | 1/2-13 X 11     | -                  | 1                  | 60            |
| FH508096 | 1/2-13 X 12     | -                  | 1                  | 55            |
| FH508104 | 1/2-13 X 13     | -                  | 1                  | 50            |
| FH508120 | 1/2-13 X 15     | -                  | 1                  | 45            |
| FH509008 | 9/16-12 X 1     | 5                  | 25                 | 350           |
| FH509010 | 9/16-12 X 1 1/4 | 5                  | 25                 | 300           |
| FH509012 | 9/16-12 X 1 1/2 | 5                  | 25                 | 275           |
| FH509014 | 9/16-12 X 1 3/4 | 5                  | 25                 | 250           |
| FH509016 | 9/16-12 X 2     | 5                  | 25                 | 225           |
| FH509018 | 9/16-12 X 2 1/4 | 5                  | 25                 | 200           |
| FH509020 | 9/16-12 X 2 1/2 | 5                  | 25                 | 175           |
| FH509022 | 9/16-12 X 2 3/4 | 5                  | 25                 | 150           |
| FH509024 | 9/16-12 X 3     | 5                  | 25                 | 150           |
| FH509028 | 9/16-12 X 3 1/2 | 5                  | 25                 | 125           |
| FH509032 | 9/16-12 X 4     | 5                  | 25                 | 100           |
| FH509036 | 9/16-12 X 4 1/2 | 5                  | 25                 | 100           |
| FH509040 | 9/16-12 X 5     | 5                  | 25                 | 100           |
| FH509044 | 9/16-12 X 5 1/2 | 5                  | 25                 | 75            |
| FH509048 | 9/16-12 X 6     | 5                  | 25                 | 75            |
| FH509056 | 9/16-12 X 7     | -                  | 1                  | 65            |
| FH510008 | 5/8-11 X 1      | 5                  | 25                 | 250           |
| FH510010 | 5/8-11 X 1 1/4  | 5                  | 25                 | 225           |
| FH510012 | 5/8-11 X 1 1/2  | 5                  | 25                 | 200           |
| FH510014 | 5/8-11 X 1 3/4  | 5                  | 25                 | 175           |
| FH510016 | 5/8-11 X 2      | 5                  | 25                 | 175           |
| FH510018 | 5/8-11 X 2 1/4  | 5                  | 25                 | 150           |
| FH510020 | 5/8-11 X 2 1/2  | 5                  | 25                 | 125           |
| FH510022 | 5/8-11 X 2 3/4  | 5                  | 25                 | 125           |
| FH510024 | 5/8-11 X 3      | 5                  | 25                 | 100           |
| FH510026 | 5/8-11 X 3 1/4  | 5                  | 25                 | 100           |
| FH510028 | 5/8-11 X 3 1/2  | 5                  | 25                 | 100           |
| FH510030 | 5/8-11 X 3 3/4  | 5                  | 25                 | 100           |
| FH510032 | 5/8-11 X 4      | 5                  | 25                 | 90            |
| FH510036 | 5/8-11 X 4 1/2  | 5                  | 25                 | 80            |

# HEX CAP SCREWS

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FH510040 | 5/8-11 X 5     | 5                  | 25                 | 75            |
| FH510044 | 5/8-11 X 5 1/2 | 5                  | 25                 | 70            |
| FH510048 | 5/8-11 X 6     | 5                  | 20                 | 65            |
| FH510052 | 5/8-11 X 6 1/2 | -                  | 1                  | 60            |
| FH510056 | 5/8-11 X 7     | -                  | 1                  | 55            |
| FH510060 | 5/8-11 X 7 1/2 | -                  | 1                  | 55            |
| FH510064 | 5/8-11 X 8     | -                  | 1                  | 50            |
| FH510068 | 5/8-11 X 8 1/2 | -                  | 1                  | 50            |
| FH510072 | 5/8-11 X 9     | -                  | 1                  | 45            |
| FH510080 | 5/8-11 X 10    | -                  | 1                  | 40            |
| FH510088 | 5/8-11 X 11    | -                  | 1                  | 40            |
| FH510096 | 5/8-11 X 12    | -                  | 1                  | 35            |
| FH510112 | 5/8-11 X 14    | -                  | 1                  | 30            |
| FH510120 | 5/8-11 X 15    | -                  | 1                  | 30            |
| FH512008 | 3/4-10 X 1     | 5                  | 20                 | 150           |
| FH512010 | 3/4-10 X 1 1/4 | 5                  | 20                 | 140           |
| FH512012 | 3/4-10 X 1 1/2 | 5                  | 20                 | 125           |
| FH512014 | 3/4-10 X 1 3/4 | 5                  | 20                 | 120           |
| FH512016 | 3/4-10 X 2     | 5                  | 20                 | 100           |
| FH512018 | 3/4-10 X 2 1/4 | 5                  | 20                 | 100           |
| FH512020 | 3/4-10 X 2 1/2 | 5                  | 20                 | 90            |
| FH512022 | 3/4-10 X 2 3/4 | 5                  | 20                 | 85            |
| FH512024 | 3/4-10 X 3     | 5                  | 20                 | 80            |
| FH512026 | 3/4-10 X 3 1/4 | 5                  | 20                 | 75            |
| FH512028 | 3/4-10 X 3 1/2 | 5                  | 20                 | 70            |
| FH512032 | 3/4-10 X 4     | 5                  | 20                 | 60            |
| FH512036 | 3/4-10 X 4 1/2 | 5                  | 20                 | 55            |
| FH512040 | 3/4-10 X 5     | 5                  | 15                 | 45            |
| FH512044 | 3/4-10 X 5 1/2 | 5                  | 15                 | 45            |
| FH512048 | 3/4-10 X 6     | -                  | 1                  | 40            |
| FH512052 | 3/4-10 X 6 1/2 | -                  | 1                  | 40            |
| FH512056 | 3/4-10 X 7     | -                  | 1                  | 35            |
| FH512060 | 3/4-10 X 7 1/2 | -                  | 1                  | 35            |
| FH512064 | 3/4-10 X 8     | -                  | 1                  | 35            |
| FH512068 | 3/4-10 X 8 1/2 | -                  | 1                  | 30            |
| FH512072 | 3/4-10 X 9     | -                  | 1                  | 30            |
| FH512080 | 3/4-10 X 10    | -                  | 1                  | 30            |
| FH512088 | 3/4-10 X 11    | -                  | 1                  | 25            |
| FH512096 | 3/4-10 X 12    | -                  | 1                  | 25            |
| FH512104 | 3/4-10 X 13    | -                  | 1                  | 20            |
| FH512120 | 3/4-10 X 15    | -                  | 1                  | 20            |
| FH514012 | 7/8-9 X 1 1/2  | 5                  | 15                 | 85            |
| FH514014 | 7/8-9 X 1 3/4  | 5                  | 15                 | 80            |

| Part #   | Size          | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|---------------|--------------------|--------------------|---------------|
| FH514016 | 7/8-9 X 2     | 5                  | 15                 | 75            |
| FH514020 | 7/8-9 X 2 1/2 | 5                  | 15                 | 65            |
| FH514024 | 7/8-9 X 3     | 5                  | 15                 | 55            |
| FH514028 | 7/8-9 X 3 1/2 | -                  | 1                  | 50            |
| FH514032 | 7/8-9 X 4     | -                  | 1                  | 45            |
| FH514036 | 7/8-9 X 4 1/2 | -                  | 1                  | 40            |
| FH514040 | 7/8-9 X 5     | -                  | 1                  | 35            |
| FH514044 | 7/8-9 X 5 1/2 | -                  | 1                  | 35            |
| FH514048 | 7/8-9 X 6     | -                  | 1                  | 30            |
| FH514052 | 7/8-9 X 6 1/2 | -                  | 1                  | 30            |
| FH514056 | 7/8-9 X 7     | -                  | 1                  | 25            |
| FH514060 | 7/8-9 X 7 1/2 | -                  | 1                  | 25            |
| FH514064 | 7/8-9 X 8     | -                  | 1                  | 25            |
| FH516012 | 1-8 X 1 1/2   | 5                  | 10                 | 55            |
| FH516016 | 1-8 X 2       | 5                  | 10                 | 50            |
| FH516020 | 1-8 X 2 1/2   | 5                  | 10                 | 45            |
| FH516024 | 1-8 X 3       | 5                  | 10                 | 40            |
| FH516028 | 1-8 X 3 1/2   | -                  | 1                  | 35            |
| FH516032 | 1-8 X 4       | -                  | 1                  | 35            |
| FH516036 | 1-8 X 4 1/2   | -                  | 1                  | 30            |
| FH516040 | 1-8 X 5       | -                  | 1                  | 25            |
| FH516044 | 1-8 X 5 1/2   | -                  | 1                  | 25            |
| FH516048 | 1-8 X 6       | -                  | 1                  | 25            |
| FH516052 | 1-8 X 6 1/2   | -                  | 1                  | 20            |
| FH516056 | 1-8 X 7       | -                  | 1                  | 20            |
| FH516060 | 1-8 X 7 1/2   | -                  | 1                  | 20            |
| FH516064 | 1-8 X 8       | -                  | 1                  | 18            |
| FH516072 | 1-8 X 9       | -                  | 1                  | 15            |
| FH516080 | 1-8 X 10      | -                  | 1                  | 15            |

# HEX CAP SCREWS

## GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN USA OR CANADA

| Part #    | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|--------------------|---------------|
| FH5P05012 | 5/16-18 X 1 1/2 | 25                 | 100                | 1000          |
| FH5P05018 | 5/16-18 X 2 1/4 | 25                 | 100                | 700           |
| FH5P06008 | 3/8-16 X 1      | 25                 | 100                | 900           |
| FH5P06022 | 3/8-16 X 2 3/4  | 15                 | 50                 | 400           |
| FH5P07008 | 7/16-14 X 1     | 15                 | 50                 | 650           |
| FH5P07010 | 7/16-14 X 1 1/4 | 15                 | 50                 | 550           |
| FH5P07060 | 7/16-14 X 7 1/2 | -                  | 1                  | 110           |
| FH5P08008 | 1/2-13 X 1      | 15                 | 50                 | 400           |
| FH5P08032 | 1/2-13 X 4      | 10                 | 25                 | 150           |
| FH5P10016 | 5/8-11 X 2      | 10                 | 25                 | 175           |
| FH5P10024 | 5/8-11 X 3      | 10                 | 25                 | 100           |
| FH5P10028 | 5/8-11 X 3 1/2  | 10                 | 25                 | 100           |
| FH5P10072 | 5/8-11 X 9      | -                  | 1                  | 45            |
| FH5P12032 | 3/4-10 X 4      | 5                  | 20                 | 60            |

Don't see the size you're looking for? Call us for availability!

## GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA



Hex Cap Screws Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FH80404 | 1/4-20 X 1/2   | 25                 | 100                | 3300          |
| FH80406 | 1/4-20 X 3/4   | 25                 | 100                | 2700          |
| FH80408 | 1/4-20 X 1     | 25                 | 100                | 2200          |
| FH80410 | 1/4-20 X 1 1/4 | 25                 | 100                | 1900          |
| FH80412 | 1/4-20 X 1 1/2 | 25                 | 100                | 1600          |
| FH80414 | 1/4-20 X 1 3/4 | 25                 | 100                | 1400          |
| FH80416 | 1/4-20 X 2     | 25                 | 100                | 1200          |
| FH80418 | 1/4-20 X 2 1/4 | 25                 | 100                | 1000          |
| FH80420 | 1/4-20 X 2 1/2 | 25                 | 100                | 900           |
| FH80422 | 1/4-20 X 2 3/4 | 25                 | 100                | 750           |
| FH80424 | 1/4-20 X 3     | 25                 | 100                | 750           |
| FH80426 | 1/4-20 X 3 1/4 | 25                 | 100                | 600           |
| FH80428 | 1/4-20 X 3 1/2 | 25                 | 100                | 550           |
| FH80430 | 1/4-20 X 3 3/4 | 25                 | 100                | 500           |
| FH80432 | 1/4-20 X 4     | 25                 | 100                | 450           |
| FH80436 | 1/4-20 X 4 1/2 | 15                 | 50                 | 450           |
| FH80440 | 1/4-20 X 5     | 15                 | 50                 | 400           |
| FH80444 | 1/4-20 X 5 1/2 | 15                 | 50                 | 400           |

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FH80448 | 1/4-20 X 6      | 15                 | 50                 | 350           |
| FH80504 | 5/16-18 X 1/2   | 25                 | 100                | 1950          |
| FH80506 | 5/16-18 X 3/4   | 25                 | 100                | 1650          |
| FH80508 | 5/16-18 X 1     | 25                 | 100                | 1400          |
| FH80510 | 5/16-18 X 1 1/4 | 25                 | 100                | 1100          |
| FH80512 | 5/16-18 X 1 1/2 | 25                 | 100                | 1000          |
| FH80514 | 5/16-18 X 1 3/4 | 25                 | 100                | 850           |
| FH80516 | 5/16-18 X 2     | 25                 | 100                | 800           |
| FH80518 | 5/16-18 X 2 1/4 | 25                 | 100                | 700           |
| FH80520 | 5/16-18 X 2 1/2 | 25                 | 100                | 600           |
| FH80522 | 5/16-18 X 2 3/4 | 25                 | 100                | 550           |
| FH80524 | 5/16-18 X 3     | 25                 | 100                | 500           |
| FH80526 | 5/16-18 X 3 1/4 | 15                 | 50                 | 450           |
| FH80528 | 5/16-18 X 3 1/2 | 15                 | 50                 | 450           |
| FH80530 | 5/16-18 X 3 3/4 | 15                 | 50                 | 400           |
| FH80532 | 5/16-18 X 4     | 15                 | 50                 | 400           |
| FH80536 | 5/16-18 X 4 1/2 | 15                 | 50                 | 300           |
| FH80540 | 5/16-18 X 5     | 15                 | 50                 | 250           |

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| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FH80544 | 5/16-18 X 5 1/2 | 15                 | 50                 | 250           |
| FH80548 | 5/16-18 X 6     | 15                 | 50                 | 250           |
| FH80556 | 5/16-18 X 7     | -                  | 1                  | 225           |
| FH80564 | 5/16-18 X 8     | -                  | 1                  | 225           |
| FH80604 | 3/8-16 X 1/2    | 25                 | 100                | 1300          |
| FH80606 | 3/8-16 X 3/4    | 25                 | 100                | 1100          |
| FH80608 | 3/8-16 X 1      | 25                 | 100                | 900           |
| FH80610 | 3/8-16 X 1 1/4  | 25                 | 100                | 800           |
| FH80612 | 3/8-16 X 1 1/2  | 25                 | 100                | 675           |
| FH80614 | 3/8-16 X 1 3/4  | 25                 | 100                | 600           |
| FH80616 | 3/8-16 X 2      | 25                 | 100                | 550           |
| FH80618 | 3/8-16 X 2 1/4  | 15                 | 50                 | 450           |
| FH80620 | 3/8-16 X 2 1/2  | 15                 | 50                 | 400           |
| FH80622 | 3/8-16 X 2 3/4  | 15                 | 50                 | 400           |
| FH80624 | 3/8-16 X 3      | 15                 | 50                 | 325           |
| FH80626 | 3/8-16 X 3 1/4  | 15                 | 50                 | 325           |
| FH80628 | 3/8-16 X 3 1/2  | 15                 | 50                 | 300           |
| FH80630 | 3/8-16 X 3 3/4  | 15                 | 50                 | 250           |
| FH80632 | 3/8-16 X 4      | 15                 | 50                 | 250           |
| FH80636 | 3/8-16 X 4 1/2  | 15                 | 50                 | 225           |
| FH80640 | 3/8-16 X 5      | 15                 | 50                 | 225           |
| FH80644 | 3/8-16 X 5 1/2  | 15                 | 50                 | 175           |
| FH80648 | 3/8-16 X 6      | 15                 | 50                 | 175           |
| FH80656 | 3/8-16 X 7      | -                  | 1                  | 150           |
| FH80664 | 3/8-16 X 8      | -                  | 1                  | 150           |
| FH80680 | 3/8-16 X 10     | -                  | 1                  | 120           |
| FH80706 | 7/16-14 X 3/4   | 15                 | 50                 | 750           |
| FH80708 | 7/16-14 X 1     | 15                 | 50                 | 650           |
| FH80710 | 7/16-14 X 1 1/4 | 15                 | 50                 | 550           |
| FH80712 | 7/16-14 X 1 1/2 | 15                 | 50                 | 500           |
| FH80714 | 7/16-14 X 1 3/4 | 15                 | 50                 | 450           |
| FH80716 | 7/16-14 X 2     | 15                 | 50                 | 400           |
| FH80718 | 7/16-14 X 2 1/4 | 15                 | 50                 | 350           |
| FH80720 | 7/16-14 X 2 1/2 | 15                 | 50                 | 300           |
| FH80722 | 7/16-14 X 2 3/4 | 15                 | 50                 | 300           |
| FH80724 | 7/16-14 X 3     | 15                 | 50                 | 275           |
| FH80726 | 7/16-14 X 3 1/4 | 10                 | 25                 | 250           |
| FH80728 | 7/16-14 X 3 1/2 | 10                 | 25                 | 225           |
| FH80730 | 7/16-14 X 3 3/4 | 10                 | 25                 | 225           |
| FH80732 | 7/16-14 X 4     | 10                 | 25                 | 200           |
| FH80736 | 7/16-14 X 4 1/2 | 10                 | 25                 | 175           |
| FH80740 | 7/16-14 X 5     | 10                 | 25                 | 150           |
| FH80744 | 7/16-14 X 5 1/2 | 10                 | 25                 | 150           |

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FH80748 | 7/16-14 X 6     | 10                 | 25                 | 125           |
| FH80756 | 7/16-14 X 7     | -                  | 1                  | 125           |
| FH80764 | 7/16-14 X 8     | -                  | 1                  | 110           |
| FH80806 | 1/2-13 X 3/4    | 15                 | 50                 | 475           |
| FH80808 | 1/2-13 X 1      | 15                 | 50                 | 400           |
| FH80810 | 1/2-13 X 1 1/4  | 15                 | 50                 | 375           |
| FH80812 | 1/2-13 X 1 1/2  | 15                 | 50                 | 300           |
| FH80814 | 1/2-13 X 1 3/4  | 15                 | 50                 | 275           |
| FH80816 | 1/2-13 X 2      | 15                 | 50                 | 250           |
| FH80818 | 1/2-13 X 2 1/4  | 15                 | 50                 | 225           |
| FH80820 | 1/2-13 X 2 1/2  | 15                 | 50                 | 225           |
| FH80822 | 1/2-13 X 2 3/4  | 15                 | 50                 | 200           |
| FH80824 | 1/2-13 X 3      | 15                 | 50                 | 200           |
| FH80826 | 1/2-13 X 3 1/4  | 10                 | 25                 | 175           |
| FH80828 | 1/2-13 X 3 1/2  | 10                 | 25                 | 150           |
| FH80830 | 1/2-13 X 3 3/4  | 10                 | 25                 | 150           |
| FH80832 | 1/2-13 X 4      | 10                 | 25                 | 150           |
| FH80836 | 1/2-13 X 4 1/2  | 10                 | 25                 | 125           |
| FH80840 | 1/2-13 X 5      | 10                 | 25                 | 125           |
| FH80844 | 1/2-13 X 5 1/2  | 10                 | 25                 | 100           |
| FH80848 | 1/2-13 X 6      | 10                 | 25                 | 100           |
| FH80852 | 1/2-13 X 6 1/2  | -                  | 1                  | 100           |
| FH80856 | 1/2-13 X 7      | -                  | 1                  | 90            |
| FH80860 | 1/2-13 X 7 1/2  | -                  | 1                  | 80            |
| FH80864 | 1/2-13 X 8      | -                  | 1                  | 80            |
| FH80880 | 1/2-13 X 10     | -                  | 1                  | 65            |
| FH80896 | 1/2-13 X 12     | -                  | 1                  | 55            |
| FH80908 | 9/16-12 X 1     | 10                 | 25                 | 350           |
| FH80910 | 9/16-12 X 1 1/4 | 10                 | 25                 | 300           |
| FH80912 | 9/16-12 X 1 1/2 | 10                 | 25                 | 275           |
| FH80914 | 9/16-12 X 1 3/4 | 10                 | 25                 | 250           |
| FH80916 | 9/16-12 X 2     | 10                 | 25                 | 225           |
| FH80918 | 9/16-12 X 2 1/4 | 10                 | 25                 | 200           |
| FH80920 | 9/16-12 X 2 1/2 | 10                 | 25                 | 175           |
| FH80922 | 9/16-12 X 2 3/4 | 10                 | 25                 | 150           |
| FH80924 | 9/16-12 X 3     | 10                 | 25                 | 150           |
| FH80926 | 9/16-12 X 3 1/4 | 10                 | 25                 | 125           |
| FH80928 | 9/16-12 X 3 1/2 | 10                 | 25                 | 125           |
| FH80930 | 9/16-12 X 3 3/4 | 10                 | 25                 | 125           |
| FH80932 | 9/16-12 X 4     | 10                 | 25                 | 100           |
| FH80936 | 9/16-12 X 4 1/2 | 10                 | 25                 | 100           |
| FH80940 | 9/16-12 X 5     | 10                 | 25                 | 100           |
| FH80948 | 9/16-12 X 6     | 10                 | 25                 | 75            |

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| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity | Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|----------|----------------|--------------------|--------------------|---------------|
| FH80964  | 9/16-12 X 8    | -                  | 1                  | 65            | FH81248  | 3/4-10 X 6     | -                  | 1                  | 40            |
| FH81008  | 5/8-11 X 1     | 10                 | 25                 | 250           | FH81252  | 3/4-10 X 6 1/2 | -                  | 1                  | 40            |
| FH81010  | 5/8-11 X 1 1/4 | 10                 | 25                 | 225           | FH81256  | 3/4-10 X 7     | -                  | 1                  | 35            |
| FH81012  | 5/8-11 X 1 1/2 | 10                 | 25                 | 200           | FH81260  | 3/4-10 X 7 1/2 | -                  | 1                  | 35            |
| FH81014  | 5/8-11 X 1 3/4 | 10                 | 25                 | 175           | FH81264  | 3/4-10 X 8     | -                  | 1                  | 35            |
| FH81016  | 5/8-11 X 2     | 10                 | 25                 | 175           | FH81268  | 3/4-10 X 8 1/2 | -                  | 1                  | 30            |
| FH81018  | 5/8-11 X 2 1/4 | 10                 | 25                 | 150           | FH81272  | 3/4-10 X 9     | -                  | 1                  | 30            |
| FH81020  | 5/8-11 X 2 1/2 | 10                 | 25                 | 125           | FH81276  | 3/4-10 X 9 1/2 | -                  | 1                  | 30            |
| FH81022  | 5/8-11 X 2 3/4 | 10                 | 25                 | 125           | FH81280  | 3/4-10 X 10    | -                  | 1                  | 30            |
| FH81024  | 5/8-11 X 3     | 10                 | 25                 | 100           | FH81288  | 3/4-10 X 11    | -                  | 1                  | 25            |
| FH81026  | 5/8-11 X 3 1/4 | 10                 | 25                 | 100           | FH81296  | 3/4-10 X 12    | -                  | 1                  | 25            |
| FH81028  | 5/8-11 X 3 1/2 | 10                 | 25                 | 100           | FH812104 | 3/4-10 X 13    | -                  | 1                  | 20            |
| FH81030  | 5/8-11 X 3 3/4 | 10                 | 25                 | 100           | FH81416  | 7/8-9 X 2      | 5                  | 15                 | 75            |
| FH81032  | 5/8-11 X 4     | 10                 | 25                 | 90            | FH81420  | 7/8-9 X 2 1/2  | 5                  | 15                 | 65            |
| FH81036  | 5/8-11 X 4 1/2 | 10                 | 25                 | 80            | FH81424  | 7/8-9 X 3      | 5                  | 15                 | 55            |
| FH81040  | 5/8-11 X 5     | 10                 | 25                 | 75            | FH81428  | 7/8-9 X 3 1/2  | -                  | 1                  | 50            |
| FH81044  | 5/8-11 X 5 1/2 | 10                 | 25                 | 70            | FH81432  | 7/8-9 X 4      | -                  | 1                  | 45            |
| FH81048  | 5/8-11 X 6     | 5                  | 20                 | 65            | FH81436  | 7/8-9 X 4 1/2  | -                  | 1                  | 40            |
| FH81052  | 5/8-11 X 6 1/2 | -                  | 1                  | 60            | FH81440  | 7/8-9 X 5      | -                  | 1                  | 35            |
| FH81056  | 5/8-11 X 7     | -                  | 1                  | 55            | FH81444  | 7/8-9 X 5 1/2  | -                  | 1                  | 35            |
| FH81064  | 5/8-11 X 8     | -                  | 1                  | 50            | FH81448  | 7/8-9 X 6      | -                  | 1                  | 30            |
| FH81068  | 5/8-11 X 8 1/2 | -                  | 1                  | 50            | FH81452  | 7/8-9 X 6 1/2  | -                  | 1                  | 30            |
| FH81072  | 5/8-11 X 9     | -                  | 1                  | 45            | FH81456  | 7/8-9 X 7      | -                  | 1                  | 25            |
| FH81080  | 5/8-11 X 10    | -                  | 1                  | 40            | FH81464  | 7/8-9 X 8      | -                  | 1                  | 25            |
| FH81088  | 5/8-11 X 11    | -                  | 1                  | 40            | FH81472  | 7/8-9 X 9      | -                  | 1                  | 23            |
| FH81096  | 5/8-11 X 12    | -                  | 1                  | 35            | FH81480  | 7/8-9 X 10     | -                  | 1                  | 20            |
| FH810104 | 5/8-11 X 13    | -                  | 1                  | 30            | FH81488  | 7/8-9 X 11     | -                  | 1                  | 19            |
| FH81208  | 3/4-10 X 1     | 5                  | 20                 | 150           | FH81496  | 7/8-9 X 12     | -                  | 1                  | 17            |
| FH81210  | 3/4-10 X 1 1/4 | 5                  | 20                 | 140           | FH814104 | 7/8-9 X 13     | -                  | 1                  | 16            |
| FH81212  | 3/4-10 X 1 1/2 | 5                  | 20                 | 125           | FH81612  | 1-8 X 1 1/2    | 3                  | 10                 | 55            |
| FH81214  | 3/4-10 X 1 3/4 | 5                  | 20                 | 120           | FH81616  | 1-8 X 2        | 3                  | 10                 | 50            |
| FH81216  | 3/4-10 X 2     | 5                  | 20                 | 100           | FH81620  | 1-8 X 2 1/2    | 3                  | 10                 | 45            |
| FH81218  | 3/4-10 X 2 1/4 | 5                  | 20                 | 100           | FH81624  | 1-8 X 3        | 3                  | 10                 | 40            |
| FH81220  | 3/4-10 X 2 1/2 | 5                  | 20                 | 90            | FH81628  | 1-8 X 3 1/2    | -                  | 1                  | 35            |
| FH81222  | 3/4-10 X 2 3/4 | 5                  | 20                 | 85            | FH81632  | 1-8 X 4        | -                  | 1                  | 35            |
| FH81224  | 3/4-10 X 3     | 5                  | 20                 | 80            | FH81636  | 1-8 X 4 1/2    | -                  | 1                  | 30            |
| FH81226  | 3/4-10 X 3 1/4 | 5                  | 20                 | 75            | FH81640  | 1-8 X 5        | -                  | 1                  | 25            |
| FH81228  | 3/4-10 X 3 1/2 | 5                  | 20                 | 70            | FH81648  | 1-8 X 6        | -                  | 1                  | 25            |
| FH81230  | 3/4-10 X 3 3/4 | 5                  | 20                 | 65            | FH81652  | 1-8 X 6 1/2    | -                  | 1                  | 20            |
| FH81232  | 3/4-10 X 4     | 5                  | 20                 | 60            | FH81656  | 1-8 X 7        | -                  | 1                  | 20            |
| FH81236  | 3/4-10 X 4 1/2 | 5                  | 20                 | 55            | FH81664  | 1-8 X 8        | -                  | 1                  | 18            |
| FH81240  | 3/4-10 X 5     | 5                  | 15                 | 45            | FH81672  | 1-8 X 9        | -                  | 1                  | 15            |
| FH81244  | 3/4-10 X 5 1/2 | 5                  | 15                 | 45            | FH81680  | 1-8 X 10       | -                  | 1                  | 15            |



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| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH81688  | 1-8 X 11        | -                  | 1                  | 15            |
| FH81696  | 1-8 X 12        | -                  | 1                  | 13            |
| FH816112 | 1-8 X 14        | -                  | 1                  | 12            |
| FH81816  | 1 1/8-7 X 2     | -                  | 1                  | 40            |
| FH81828  | 1 1/8-7 X 3 1/2 | -                  | 1                  | 30            |
| FH81832  | 1 1/8-7 X 4     | -                  | 1                  | 25            |
| FH81840  | 1 1/8-7 X 5     | -                  | 1                  | 20            |
| FH81848  | 1 1/8-7 X 6     | -                  | 1                  | 15            |
| FH81856  | 1 1/8-7 X 7     | -                  | 1                  | 15            |
| FH81864  | 1 1/8-7 X 8     | -                  | 1                  | 15            |
| FH81872  | 1 1/8-7 X 9     | -                  | 1                  | 13            |
| FH81880  | 1 1/8-7 X 10    | -                  | 1                  | 12            |
| FH81896  | 1 1/8-7 X 12    | -                  | 1                  | 10            |
| FH82024  | 1 1/4-7 X 3     | -                  | 1                  | 25            |
| FH82028  | 1 1/4-7 X 3 1/2 | -                  | 1                  | 20            |
| FH82032  | 1 1/4-7 X 4     | -                  | 1                  | 20            |
| FH82036  | 1 1/4-7 X 4 1/2 | -                  | 1                  | 15            |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH82040  | 1 1/4-7 X 5     | -                  | 1                  | 15            |
| FH82048  | 1 1/4-7 X 6     | -                  | 1                  | 15            |
| FH82056  | 1 1/4-7 X 7     | -                  | 1                  | 12            |
| FH82064  | 1 1/4-7 X 8     | -                  | 1                  | 10            |
| FH82072  | 1 1/4-7 X 9     | -                  | 1                  | 10            |
| FH82080  | 1 1/4-7 X 10    | -                  | 1                  | 10            |
| FH82088  | 1 1/4-7 X 11    | -                  | 1                  | 9             |
| FH82096  | 1 1/4-7 X 12    | -                  | 1                  | 8             |
| FH82432  | 1 1/2-6 X 4     | -                  | 1                  | 12            |
| FH82436  | 1 1/2-6 X 4 1/2 | -                  | 1                  | 12            |
| FH82440  | 1 1/2-6 X 5     | -                  | 1                  | 11            |
| FH82448  | 1 1/2-6 X 6     | -                  | 1                  | 10            |
| FH82456  | 1 1/2-6 X 7     | -                  | 1                  | 9             |
| FH82464  | 1 1/2-6 X 8     | -                  | 1                  | 8             |
| FH82472  | 1 1/2-6 X 9     | -                  | 1                  | 7             |
| FH828112 | 1 3/4-5 X 14    | -                  | 1                  | 15            |
| FH83240  | 2-4 1/2 X 5     | -                  | 1                  | 10            |

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| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH8F0404 | 1/4-28 X 1/2    | 25                 | 100                | 3300          |
| FH8F0406 | 1/4-28 X 3/4    | 25                 | 100                | 2700          |
| FH8F0408 | 1/4-28 X 1      | 25                 | 100                | 2200          |
| FH8F0410 | 1/4-28 X 1 1/4  | 25                 | 100                | 1900          |
| FH8F0412 | 1/4-28 X 1 1/2  | 25                 | 100                | 1600          |
| FH8F0414 | 1/4-28 X 1 3/4  | 25                 | 100                | 1400          |
| FH8F0416 | 1/4-28 X 2      | 25                 | 100                | 1200          |
| FH8F0420 | 1/4-28 X 2 1/2  | 25                 | 100                | 900           |
| FH8F0424 | 1/4-28 X 3      | 25                 | 100                | 750           |
| FH8F0428 | 1/4-28 X 3 1/2  | 25                 | 100                | 550           |
| FH8F0432 | 1/4-28 X 4      | 25                 | 100                | 450           |
| FH8F0436 | 1/4-28 X 4 1/2  | 15                 | 50                 | 450           |
| FH8F0440 | 1/4-28 X 5      | 15                 | 50                 | 400           |
| FH8F0448 | 1/4-28 X 6      | 15                 | 50                 | 350           |
| FH8F0504 | 5/16-24 X 1/2   | 25                 | 100                | 1950          |
| FH8F0506 | 5/16-24 X 3/4   | 25                 | 100                | 1650          |
| FH8F0508 | 5/16-24 X 1     | 25                 | 100                | 1400          |
| FH8F0510 | 5/16-24 X 1 1/4 | 25                 | 100                | 1100          |
| FH8F0512 | 5/16-24 X 1 1/2 | 25                 | 100                | 1000          |
| FH8F0514 | 5/16-24 X 1 3/4 | 25                 | 100                | 850           |
| FH8F0516 | 5/16-24 X 2     | 25                 | 100                | 800           |
| FH8F0518 | 5/16-24 X 2 1/4 | 25                 | 100                | 700           |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH8F0520 | 5/16-24 X 2 1/2 | 25                 | 100                | 600           |
| FH8F0522 | 5/16-24 X 2 3/4 | 25                 | 100                | 550           |
| FH8F0524 | 5/16-24 X 3     | 25                 | 100                | 500           |
| FH8F0528 | 5/16-24 X 3 1/2 | 15                 | 50                 | 450           |
| FH8F0532 | 5/16-24 X 4     | 15                 | 50                 | 400           |
| FH8F0536 | 5/16-24 X 4 1/2 | 15                 | 50                 | 300           |
| FH8F0540 | 5/16-24 X 5     | 15                 | 50                 | 250           |
| FH8F0548 | 5/16-24 X 6     | 15                 | 50                 | 250           |
| FH8F0604 | 3/8-24 X 1/2    | 25                 | 100                | 1300          |
| FH8F0606 | 3/8-24 X 3/4    | 25                 | 100                | 1100          |
| FH8F0608 | 3/8-24 X 1      | 25                 | 100                | 900           |
| FH8F0610 | 3/8-24 X 1 1/4  | 25                 | 100                | 800           |
| FH8F0612 | 3/8-24 X 1 1/2  | 25                 | 100                | 675           |
| FH8F0614 | 3/8-24 X 1 3/4  | 25                 | 100                | 600           |
| FH8F0616 | 3/8-24 X 2      | 25                 | 100                | 550           |
| FH8F0618 | 3/8-24 X 2 1/4  | 15                 | 50                 | 450           |
| FH8F0620 | 3/8-24 X 2 1/2  | 15                 | 50                 | 400           |
| FH8F0622 | 3/8-24 X 2 3/4  | 15                 | 50                 | 400           |
| FH8F0624 | 3/8-24 X 3      | 15                 | 50                 | 325           |
| FH8F0626 | 3/8-24 X 3 1/4  | 15                 | 50                 | 325           |
| FH8F0628 | 3/8-24 X 3 1/2  | 15                 | 50                 | 300           |
| FH8F0630 | 3/8-24 X 3 3/4  | 15                 | 50                 | 250           |

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| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH8F0632 | 3/8-24 X 4      | 15                 | 50                 | 250           |
| FH8F0636 | 3/8-24 X 4 1/2  | 15                 | 50                 | 225           |
| FH8F0640 | 3/8-24 X 5      | 15                 | 50                 | 225           |
| FH8F0644 | 3/8-24 X 5 1/2  | 15                 | 50                 | 175           |
| FH8F0648 | 3/8-24 X 6      | 15                 | 50                 | 175           |
| FH8F0652 | 3/8-24 X 6 1/2  | -                  | 1                  | 175           |
| FH8F0656 | 3/8-24 X 7      | -                  | 1                  | 150           |
| FH8F0664 | 3/8-24 X 8      | -                  | 1                  | 150           |
| FH8F0680 | 3/8-24 X 10     | -                  | 1                  | 120           |
| FH8F0706 | 7/16-20 X 3/4   | 15                 | 50                 | 750           |
| FH8F0708 | 7/16-20 X 1     | 15                 | 50                 | 650           |
| FH8F0710 | 7/16-20 X 1 1/4 | 15                 | 50                 | 550           |
| FH8F0712 | 7/16-20 X 1 1/2 | 15                 | 50                 | 500           |
| FH8F0714 | 7/16-20 X 1 3/4 | 15                 | 50                 | 450           |
| FH8F0716 | 7/16-20 X 2     | 15                 | 50                 | 400           |
| FH8F0718 | 7/16-20 X 2 1/4 | 15                 | 50                 | 350           |
| FH8F0720 | 7/16-20 X 2 1/2 | 15                 | 50                 | 300           |
| FH8F0724 | 7/16-20 X 3     | 15                 | 50                 | 275           |
| FH8F0728 | 7/16-20 X 3 1/2 | 10                 | 25                 | 225           |
| FH8F0732 | 7/16-20 X 4     | 10                 | 25                 | 200           |
| FH8F0736 | 7/16-20 X 4 1/2 | 10                 | 25                 | 175           |
| FH8F0740 | 7/16-20 X 5     | 10                 | 25                 | 150           |
| FH8F0744 | 7/16-20 X 5 1/2 | 10                 | 25                 | 150           |
| FH8F0748 | 7/16-20 X 6     | 10                 | 25                 | 125           |
| FH8F0806 | 1/2-20 X 3/4    | 15                 | 50                 | 475           |
| FH8F0808 | 1/2-20 X 1      | 15                 | 50                 | 400           |
| FH8F0810 | 1/2-20 X 1 1/4  | 15                 | 50                 | 375           |
| FH8F0812 | 1/2-20 X 1 1/2  | 15                 | 50                 | 300           |
| FH8F0814 | 1/2-20 X 1 3/4  | 15                 | 50                 | 275           |
| FH8F0816 | 1/2-20 X 2      | 15                 | 50                 | 250           |
| FH8F0818 | 1/2-20 X 2 1/4  | 15                 | 50                 | 225           |
| FH8F0820 | 1/2-20 X 2 1/2  | 15                 | 50                 | 225           |
| FH8F0822 | 1/2-20 X 2 3/4  | 15                 | 50                 | 200           |
| FH8F0824 | 1/2-20 X 3      | 15                 | 50                 | 200           |
| FH8F0826 | 1/2-20 X 3 1/4  | 10                 | 25                 | 175           |
| FH8F0828 | 1/2-20 X 3 1/2  | 10                 | 25                 | 150           |
| FH8F0832 | 1/2-20 X 4      | 10                 | 25                 | 150           |
| FH8F0836 | 1/2-20 X 4 1/2  | 10                 | 25                 | 125           |
| FH8F0840 | 1/2-20 X 5      | 10                 | 25                 | 125           |
| FH8F0844 | 1/2-20 X 5 1/2  | 10                 | 25                 | 100           |
| FH8F0848 | 1/2-20 X 6      | 10                 | 25                 | 100           |
| FH8F0852 | 1/2-20 X 6 1/2  | -                  | 1                  | 100           |
| FH8F0856 | 1/2-20 X 7      | -                  | 1                  | 90            |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FH8F0864 | 1/2-20 X 8      | -                  | 1                  | 80            |
| FH8F0880 | 1/2-20 X 10     | -                  | 1                  | 65            |
| FH8F0908 | 9/16-18 X 1     | 10                 | 25                 | 350           |
| FH8F0910 | 9/16-18 X 1 1/4 | 10                 | 25                 | 300           |
| FH8F0912 | 9/16-18 X 1 1/2 | 10                 | 25                 | 275           |
| FH8F0914 | 9/16-18 X 1 3/4 | 10                 | 25                 | 250           |
| FH8F0916 | 9/16-18 X 2     | 10                 | 25                 | 225           |
| FH8F0920 | 9/16-18 X 2 1/2 | 10                 | 25                 | 175           |
| FH8F0924 | 9/16-18 X 3     | 10                 | 25                 | 150           |
| FH8F0928 | 9/16-18 X 3 1/2 | 10                 | 25                 | 125           |
| FH8F0932 | 9/16-18 X 4     | 10                 | 25                 | 100           |
| FH8F0936 | 9/16-18 X 4 1/2 | 10                 | 25                 | 100           |
| FH8F0940 | 9/16-18 X 5     | 10                 | 25                 | 100           |
| FH8F0948 | 9/16-18 X 6     | 10                 | 25                 | 75            |
| FH8F1008 | 5/8-18 X 1      | 10                 | 25                 | 250           |
| FH8F1010 | 5/8-18 X 1 1/4  | 10                 | 25                 | 225           |
| FH8F1012 | 5/8-18 X 1 1/2  | 10                 | 25                 | 200           |
| FH8F1014 | 5/8-18 X 1 3/4  | 10                 | 25                 | 175           |
| FH8F1016 | 5/8-18 X 2      | 10                 | 25                 | 175           |
| FH8F1018 | 5/8-18 X 2 1/4  | 10                 | 25                 | 150           |
| FH8F1020 | 5/8-18 X 2 1/2  | 10                 | 25                 | 125           |
| FH8F1024 | 5/8-18 X 3      | 10                 | 25                 | 100           |
| FH8F1028 | 5/8-18 X 3 1/2  | 10                 | 25                 | 100           |
| FH8F1032 | 5/8-18 X 4      | 10                 | 25                 | 90            |
| FH8F1036 | 5/8-18 X 4 1/2  | 10                 | 25                 | 80            |
| FH8F1040 | 5/8-18 X 5      | 10                 | 25                 | 75            |
| FH8F1044 | 5/8-18 X 5 1/2  | 10                 | 25                 | 70            |
| FH8F1048 | 5/8-18 X 6      | 5                  | 20                 | 65            |
| FH8F1056 | 5/8-18 X 7      | -                  | 1                  | 55            |
| FH8F1064 | 5/8-18 X 8      | -                  | 1                  | 50            |
| FH8F1072 | 5/8-18 X 9      | -                  | 1                  | 45            |
| FH8F1208 | 3/4-16 X 1      | 5                  | 20                 | 150           |
| FH8F1212 | 3/4-16 X 1 1/2  | 5                  | 20                 | 125           |
| FH8F1216 | 3/4-16 X 2      | 5                  | 20                 | 100           |
| FH8F1220 | 3/4-16 X 2 1/2  | 5                  | 20                 | 90            |
| FH8F1222 | 3/4-16 X 2 3/4  | 5                  | 20                 | 85            |
| FH8F1224 | 3/4-16 X 3      | 5                  | 20                 | 80            |
| FH8F1228 | 3/4-16 X 3 1/2  | 5                  | 20                 | 70            |
| FH8F1232 | 3/4-16 X 4      | 5                  | 20                 | 60            |
| FH8F1236 | 3/4-16 X 4 1/2  | 5                  | 20                 | 55            |
| FH8F1240 | 3/4-16 X 5      | 5                  | 15                 | 45            |
| FH8F1244 | 3/4-16 X 5 1/2  | 5                  | 15                 | 45            |
| FH8F1248 | 3/4-16 X 6      | -                  | 1                  | 40            |

# HEX CAP SCREWS

## GRADE 8 • FINE THREAD • YELLOW ZINC PLATED • MADE IN USA OR CANADA

| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FH8F1256 | 3/4-16 X 7     | -                  | 1                  | 35            |
| FH8F1264 | 3/4-16 X 8     | -                  | 1                  | 35            |
| FH8F1416 | 7/8-14 X 2     | 5                  | 15                 | 75            |
| FH8F1420 | 7/8-14 X 2 1/2 | 5                  | 15                 | 65            |
| FH8F1424 | 7/8-14 X 3     | 5                  | 15                 | 55            |
| FH8F1428 | 7/8-14 X 3 1/2 | -                  | 1                  | 50            |
| FH8F1432 | 7/8-14 X 4     | -                  | 1                  | 45            |
| FH8F1436 | 7/8-14 X 4 1/2 | -                  | 1                  | 40            |
| FH8F1440 | 7/8-14 X 5     | -                  | 1                  | 35            |
| FH8F1444 | 7/8-14 X 5 1/2 | -                  | 1                  | 35            |
| FH8F1448 | 7/8-14 X 6     | -                  | 1                  | 30            |
| FH8F1452 | 7/8-14 X 6 1/2 | -                  | 1                  | 30            |
| FH8F1460 | 7/8-14 X 7 1/2 | -                  | 1                  | 25            |
| FH8F1464 | 7/8-14 X 8     | -                  | 1                  | 25            |
| FH8F1472 | 7/8-14 X 9     | -                  | 1                  | 23            |
| FH8F1616 | 1-14 X 2       | 3                  | 10                 | 50            |
| FH8F1620 | 1-14 X 2 1/2   | 3                  | 10                 | 45            |

| Part #   | Size             | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|------------------|--------------------|--------------------|---------------|
| FH8F1624 | 1-14 X 3         | 3                  | 10                 | 40            |
| FH8F1628 | 1-14 X 3 1/2     | -                  | 1                  | 35            |
| FH8F1632 | 1-14 X 4         | -                  | 1                  | 35            |
| FH8F1636 | 1-14 X 4 1/2     | -                  | 1                  | 30            |
| FH8F1640 | 1-14 X 5         | -                  | 1                  | 25            |
| FH8F1648 | 1-14 X 6         | -                  | 1                  | 25            |
| FH8F1656 | 1-14 X 7         | -                  | 1                  | 20            |
| FH8F1664 | 1-14 X 8         | -                  | 1                  | 18            |
| FH8F1672 | 1-14 X 9         | -                  | 1                  | 15            |
| FH8F1680 | 1-14 X 10        | -                  | 1                  | 15            |
| FH8F1820 | 1 1/8-12 X 2 1/2 | -                  | 1                  | 35            |
| FH8F1840 | 1 1/8-12 X 5     | -                  | 1                  | 20            |
| FH8F1872 | 1 1/8-12 X 9     | -                  | 1                  | 13            |
| FH8F2072 | 1 1/4-12 X 9     | -                  | 1                  | 10            |
| FH8F2424 | 1 1/2-12 X 3     | -                  | 1                  | 15            |
| FH8F2440 | 1 1/2-12 X 5     | -                  | 1                  | 11            |

## GRADE 9 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA



Hex Cap Screws Grade 9 are made with a high head and have a minimum tensile strength of 180,000 psi.

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FH90812 | 1/2-13 X 1 1/2 | 15                 | 50                 | 600           |
| FH90814 | 1/2-13 X 1 3/4 | 15                 | 50                 | 500           |
| FH90816 | 1/2-13 X 2     | 15                 | 50                 | 450           |
| FH90818 | 1/2-13 X 2 1/4 | 15                 | 50                 | 400           |
| FH90820 | 1/2-13 X 2 1/2 | 15                 | 50                 | 325           |
| FH90824 | 1/2-13 X 3     | 15                 | 50                 | 300           |
| FH90828 | 1/2-13 X 3 1/2 | 10                 | 25                 | 250           |
| FH90832 | 1/2-13 X 4     | 10                 | 25                 | 200           |
| FH90848 | 1/2-13 X 6     | 10                 | 25                 | 150           |
| FH91012 | 5/8-11 X 1 1/2 | 10                 | 25                 | 300           |
| FH91016 | 5/8-11 X 2     | 10                 | 25                 | 250           |
| FH91020 | 5/8-11 X 2 1/2 | 10                 | 25                 | 200           |
| FH91024 | 5/8-11 X 3     | 10                 | 25                 | 175           |
| FH91028 | 5/8-11 X 3 1/2 | 10                 | 25                 | 150           |
| FH91032 | 5/8-11 X 4     | 10                 | 25                 | 125           |

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FH91036 | 5/8-11 X 4 1/2 | 10                 | 25                 | 100           |
| FH91040 | 5/8-11 X 5     | 10                 | 25                 | 90            |
| FH91044 | 5/8-11 X 5 1/2 | 10                 | 25                 | 75            |
| FH91048 | 5/8-11 X 6     | 5                  | 20                 | 75            |
| FH91216 | 3/4-10 X 2     | 5                  | 20                 | 180           |
| FH91220 | 3/4-10 X 2 1/2 | 5                  | 20                 | 140           |
| FH91224 | 3/4-10 X 3     | 5                  | 20                 | 120           |
| FH91228 | 3/4-10 X 3 1/2 | 5                  | 20                 | 100           |
| FH91232 | 3/4-10 X 4     | 5                  | 20                 | 85            |
| FH91236 | 3/4-10 X 4 1/2 | 5                  | 20                 | 80            |
| FH91264 | 3/4-10 X 8     | -                  | 1                  | 60            |
| FH91272 | 3/4-10 X 9     | -                  | 1                  | 50            |
| FH91436 | 7/8-9 X 4 1/2  | -                  | 1                  | 60            |
| FH91448 | 7/8-9 X 6      | -                  | 1                  | 45            |

# HEX CAP SCREWS

## GRADE 9 • FINE THREAD • YELLOW ZINC PLATED • MADE IN USA

| Part #   | Size       | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|------------|--------------------|--------------------|---------------|
| FH9F1032 | 5/8-18 X 4 | 10                 | 25                 | 125           |
| FH9F1448 | 7/8-14 X 6 | -                  | 1                  | 60            |

Don't see the size you're looking for? Call us for availability!

## 18/8 STAINLESS STEEL • COARSE THREAD • IMPORTED



18-8 Stainless Steel Hex Cap Screws have a tensile strength of 100,000-125,000 psi and a minimum Rockwell hardness of B100.

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FSSH0403 | 1/4-20 X 3/8    | 25                 | 100                | 3300          |
| FSSH0404 | 1/4-20 X 1/2    | 25                 | 100                | 3300          |
| FSSH0405 | 1/4-20 X 5/8    | 25                 | 100                | 3000          |
| FSSH0406 | 1/4-20 X 3/4    | 25                 | 100                | 2700          |
| FSSH0408 | 1/4-20 X 1      | 25                 | 100                | 2200          |
| FSSH0410 | 1/4-20 X 1 1/4  | 25                 | 100                | 1900          |
| FSSH0412 | 1/4-20 X 1 1/2  | 25                 | 100                | 1600          |
| FSSH0414 | 1/4-20 X 1 3/4  | 25                 | 100                | 1400          |
| FSSH0416 | 1/4-20 X 2      | 25                 | 100                | 1200          |
| FSSH0418 | 1/4-20 X 2 1/4  | 25                 | 100                | 1000          |
| FSSH0420 | 1/4-20 X 2 1/2  | 25                 | 100                | 900           |
| FSSH0422 | 1/4-20 X 2 3/4  | 25                 | 100                | 750           |
| FSSH0424 | 1/4-20 X 3      | 25                 | 100                | 750           |
| FSSH0428 | 1/4-20 X 3 1/2  | 25                 | 100                | 550           |
| FSSH0436 | 1/4-20 X 4 1/2  | 15                 | 50                 | 450           |
| FSSH0504 | 5/16-18 X 1/2   | 25                 | 100                | 1950          |
| FSSH0505 | 5/16-18 X 5/8   | 25                 | 100                | 1800          |
| FSSH0506 | 5/16-18 X 3/4   | 25                 | 100                | 1650          |
| FSSH0507 | 5/16-18 X 7/8   | 25                 | 100                | 1500          |
| FSSH0508 | 5/16-18 X 1     | 25                 | 100                | 1400          |
| FSSH0510 | 5/16-18 X 1 1/4 | 25                 | 100                | 1100          |
| FSSH0512 | 5/16-18 X 1 1/2 | 25                 | 100                | 1000          |
| FSSH0514 | 5/16-18 X 1 3/4 | 25                 | 100                | 850           |
| FSSH0516 | 5/16-18 X 2     | 25                 | 100                | 800           |
| FSSH0518 | 5/16-18 X 2 1/4 | 25                 | 100                | 700           |
| FSSH0520 | 5/16-18 X 2 1/2 | 25                 | 100                | 600           |
| FSSH0522 | 5/16-18 X 2 3/4 | 25                 | 100                | 550           |
| FSSH0524 | 5/16-18 X 3     | 25                 | 100                | 500           |
| FSSH0528 | 5/16-18 X 3 1/2 | 15                 | 50                 | 450           |
| FSSH0532 | 5/16-18 X 4     | 15                 | 50                 | 400           |

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FSSH0536 | 5/16-18 X 4 1/2 | 15                 | 50                 | 300           |
| FSSH0540 | 5/16-18 X 5     | 15                 | 50                 | 250           |
| FSSH0544 | 5/16-18 X 5 1/2 | 15                 | 50                 | 250           |
| FSSH0548 | 5/16-18 X 6     | 15                 | 50                 | 250           |
| FSSH0560 | 5/16-18 X 7 1/2 | -                  | 1                  | 225           |
| FSSH0580 | 5/16-18 X 10    | -                  | 1                  | 100           |
| FSSH0605 | 3/8-16 X 5/8    | 25                 | 100                | 1200          |
| FSSH0606 | 3/8-16 X 3/4    | 25                 | 100                | 1100          |
| FSSH0608 | 3/8-16 X 1      | 25                 | 100                | 900           |
| FSSH0610 | 3/8-16 X 1 1/4  | 25                 | 100                | 800           |
| FSSH0612 | 3/8-16 X 1 1/2  | 25                 | 100                | 675           |
| FSSH0614 | 3/8-16 X 1 3/4  | 25                 | 100                | 600           |
| FSSH0616 | 3/8-16 X 2      | 25                 | 100                | 550           |
| FSSH0618 | 3/8-16 X 2 1/4  | 15                 | 50                 | 450           |
| FSSH0620 | 3/8-16 X 2 1/2  | 15                 | 50                 | 400           |
| FSSH0622 | 3/8-16 X 2 3/4  | 15                 | 50                 | 400           |
| FSSH0624 | 3/8-16 X 3      | 15                 | 50                 | 325           |
| FSSH0626 | 3/8-16 X 3 1/4  | 15                 | 50                 | 325           |
| FSSH0628 | 3/8-16 X 3 1/2  | 15                 | 50                 | 300           |
| FSSH0630 | 3/8-16 X 3 3/4  | 15                 | 50                 | 250           |
| FSSH0632 | 3/8-16 X 4      | 15                 | 50                 | 250           |
| FSSH0636 | 3/8-16 X 4 1/2  | 15                 | 50                 | 225           |
| FSSH0640 | 3/8-16 X 5      | 15                 | 50                 | 225           |
| FSSH0644 | 3/8-16 X 5 1/2  | 15                 | 50                 | 175           |
| FSSH0648 | 3/8-16 X 6      | 15                 | 50                 | 175           |
| FSSH0652 | 3/8-16 X 6 1/2  | -                  | 1                  | 175           |
| FSSH0656 | 3/8-16 X 7      | -                  | 1                  | 150           |
| FSSH0664 | 3/8-16 X 8      | -                  | 1                  | 150           |
| FSSH0706 | 7/16-14 X 3/4   | 10                 | 25                 | 750           |
| FSSH0708 | 7/16-14 X 1     | 10                 | 25                 | 650           |

# HEX CAP SCREWS

## 18/8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity | Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|----------|----------------|--------------------|--------------------|---------------|
| FSSH0712 | 7/16-14 X 1 1/2 | 10                 | 25                 | 500           | FSSH1010 | 5/8-11 X 1 1/4 | 10                 | 25                 | 225           |
| FSSH0714 | 7/16-14 X 1 3/4 | 10                 | 25                 | 450           | FSSH1012 | 5/8-11 X 1 1/2 | 10                 | 25                 | 200           |
| FSSH0716 | 7/16-14 X 2     | 10                 | 25                 | 400           | FSSH1014 | 5/8-11 X 1 3/4 | 10                 | 25                 | 175           |
| FSSH0718 | 7/16-14 X 2 1/4 | 10                 | 25                 | 350           | FSSH1016 | 5/8-11 X 2     | 10                 | 25                 | 175           |
| FSSH0720 | 7/16-14 X 2 1/2 | 10                 | 25                 | 300           | FSSH1018 | 5/8-11 X 2 1/4 | 10                 | 25                 | 150           |
| FSSH0724 | 7/16-14 X 3     | 10                 | 25                 | 275           | FSSH1020 | 5/8-11 X 2 1/2 | 10                 | 25                 | 125           |
| FSSH0728 | 7/16-14 X 3 1/2 | 10                 | 25                 | 225           | FSSH1022 | 5/8-11 X 2 3/4 | 10                 | 25                 | 125           |
| FSSH0732 | 7/16-14 X 4     | 10                 | 25                 | 200           | FSSH1024 | 5/8-11 X 3     | 10                 | 25                 | 100           |
| FSSH0808 | 1/2-13 X 1      | 15                 | 50                 | 400           | FSSH1028 | 5/8-11 X 3 1/2 | 10                 | 25                 | 100           |
| FSSH0810 | 1/2-13 X 1 1/4  | 15                 | 50                 | 375           | FSSH1032 | 5/8-11 X 4     | 10                 | 25                 | 90            |
| FSSH0812 | 1/2-13 X 1 1/2  | 15                 | 50                 | 300           | FSSH1036 | 5/8-11 X 4 1/2 | 10                 | 25                 | 80            |
| FSSH0814 | 1/2-13 X 1 3/4  | 15                 | 50                 | 275           | FSSH1040 | 5/8-11 X 5     | 10                 | 25                 | 75            |
| FSSH0816 | 1/2-13 X 2      | 15                 | 50                 | 250           | FSSH1044 | 5/8-11 X 5 1/2 | 10                 | 25                 | 70            |
| FSSH0820 | 1/2-13 X 2 1/2  | 15                 | 50                 | 225           | FSSH1048 | 5/8-11 X 6     | 5                  | 20                 | 65            |
| FSSH0822 | 1/2-13 X 2 3/4  | 15                 | 50                 | 200           | FSSH1056 | 5/8-11 X 7     | -                  | 1                  | 55            |
| FSSH0824 | 1/2-13 X 3      | 15                 | 50                 | 200           | FSSH1064 | 5/8-11 X 8     | -                  | 1                  | 50            |
| FSSH0828 | 1/2-13 X 3 1/2  | 10                 | 25                 | 150           | FSSH1212 | 3/4-10 X 1 1/2 | 5                  | 20                 | 125           |
| FSSH0832 | 1/2-13 X 4      | 10                 | 25                 | 150           | FSSH1216 | 3/4-10 X 2     | 5                  | 20                 | 100           |
| FSSH0834 | 1/2-13 X 4 1/4  | 10                 | 25                 | 125           | FSSH1220 | 3/4-10 X 2 1/2 | 5                  | 20                 | 90            |
| FSSH0836 | 1/2-13 X 4 1/2  | 10                 | 25                 | 125           | FSSH1224 | 3/4-10 X 3     | 5                  | 20                 | 80            |
| FSSH0840 | 1/2-13 X 5      | 10                 | 25                 | 125           | FSSH1228 | 3/4-10 X 3 1/2 | 5                  | 20                 | 70            |
| FSSH0844 | 1/2-13 X 5 1/2  | 10                 | 25                 | 100           | FSSH1232 | 3/4-10 X 4     | 5                  | 20                 | 60            |
| FSSH0848 | 1/2-13 X 6      | 10                 | 25                 | 100           | FSSH1236 | 3/4-10 X 4 1/2 | 5                  | 20                 | 55            |
| FSSH0856 | 1/2-13 X 7      | -                  | 1                  | 90            | FSSH1240 | 3/4-10 X 5     | 5                  | 15                 | 45            |
| FSSH0860 | 1/2-13 X 7 1/2  | -                  | 1                  | 80            | FSSH1244 | 3/4-10 X 5 1/2 | 5                  | 15                 | 45            |
| FSSH0864 | 1/2-13 X 8      | -                  | 1                  | 80            | FSSH1256 | 3/4-10 X 7     | -                  | 1                  | 35            |
| FSSH0872 | 1/2-13 X 9      | -                  | 1                  | 75            | FSSH1432 | 7/8-9 X 4      | -                  | 1                  | 45            |
| FSSH0880 | 1/2-13 X 10     | -                  | 1                  | 65            | FSSH1632 | 1-8 X 4        | -                  | 1                  | 35            |
| FSSH1008 | 5/8-11 X 1      | 10                 | 25                 | 250           |          |                |                    |                    |               |

## ALUMINUM • COARSE THREAD • IMPORTED

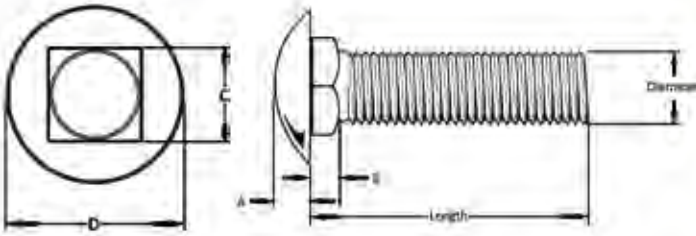
| Part #  | Size           | Package Quantity |
|---------|----------------|------------------|
| FAH0610 | 3/8-16 X 1 1/4 | 100              |

# CARRIAGE BOLTS

## TECHNICAL INFORMATION

### Rockwell Hardness

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| A307  | B69-B100               |
| 5     | C25-C34                |
| 8     | C33- C39               |



### Tensile Strengths

| Diameter | Grade A307 | Grade 5 | Grade 8 |
|----------|------------|---------|---------|
| 1/4-20   | 1900       | 3800    | 4750    |
| 5/16-18  | 3100       | 6300    | 7850    |
| 3/8-16   | 4650       | 9300    | 11600   |
| 7/16-14  | 6350       | 12800   | 15900   |
| 1/2-13   | 8500       | 17000   | 21300   |
| 9/16-12  | 11000      | 21800   | 27300   |
| 5/8-11   | 13550      | 27100   | 33900   |
| 3/4-10   | 20050      | 40100   | 50100   |
| 7/8-9    | 27700      | 55400   | 69300   |
| 1-8      | 36350      | 72700   | 90900   |

Endurance limits vary widely. Endurance limits of 10-20% of the tensile strength have been reported.

### Dimensions

| Diameter | A     |       | B     |       | C     |       | D     |       |
|----------|-------|-------|-------|-------|-------|-------|-------|-------|
|          | Max   | Min   | Max   | Min   | Max   | Min   | Max   | Min   |
| 10-24    | 0.114 | 0.094 | 0.125 | 0.094 | 0.199 | 0.185 | 0.469 | 0.436 |
| 1/4-20   | 0.145 | 0.125 | 0.156 | 0.125 | 0.260 | 0.245 | 0.594 | 0.563 |
| 5/16-18  | 0.178 | 0.156 | 0.187 | 0.156 | 0.324 | 0.307 | 0.719 | 0.688 |
| 3/8-16   | 0.208 | 0.188 | 0.219 | 0.188 | 0.388 | 0.368 | 0.844 | 0.782 |
| 7/16-14  | 0.23  | 0.219 | 0.250 | 0.219 | 0.452 | 0.431 | 0.969 | 0.907 |
| 1/2-13   | 0.270 | 0.250 | 0.281 | 0.250 | 0.515 | 0.492 | 1.094 | 1.032 |
| 5/8-11   | 0.344 | 0.313 | 0.344 | 0.313 | 0.642 | 0.616 | 1.344 | 1.219 |
| 3/4-10   | 0.406 | 0.375 | 0.406 | 0.375 | 0.768 | 0.741 | 1.594 | 1.469 |

### GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED



Carriage Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi.

| Part #   | Size          | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|---------------|--------------------|--------------------|---------------|
| FC201004 | 10-24 X 1/2   | 25                 | 100                | 6250          |
| FC201005 | 10-24 X 5/8   | 25                 | 100                | 5500          |
| FC201006 | 10-24 X 3/4   | 25                 | 100                | 5000          |
| FC201008 | 10-24 X 1     | 25                 | 100                | 3500          |
| FC201010 | 10-24 X 1 1/4 | 25                 | 100                | 2750          |
| FC201012 | 10-24 X 1 1/2 | 25                 | 100                | 2250          |
| FC201014 | 10-24 X 1 3/4 | 25                 | 100                | 2000          |
| FC201016 | 10-24 X 2     | 25                 | 100                | 1750          |
| FC20404  | 1/4-20 X 1/2  | 25                 | 100                | 3750          |

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC20406 | 1/4-20 X 3/4   | 25                 | 100                | 3250          |
| FC20408 | 1/4-20 X 1     | 25                 | 100                | 2875          |
| FC20410 | 1/4-20 X 1 1/4 | 25                 | 100                | 2500          |
| FC20412 | 1/4-20 X 1 1/2 | 25                 | 100                | 2125          |
| FC20414 | 1/4-20 X 1 3/4 | 25                 | 100                | 1500          |
| FC20416 | 1/4-20 X 2     | 25                 | 100                | 1375          |
| FC20418 | 1/4-20 X 2 1/4 | 25                 | 100                | 1200          |
| FC20420 | 1/4-20 X 2 1/2 | 25                 | 100                | 1000          |
| FC20422 | 1/4-20 X 2 3/4 | 25                 | 100                | 875           |

# CARRIAGE BOLTS

## GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FC20424 | 1/4-20 X 3      | 25                 | 100                | 750           |
| FC20426 | 1/4-20 X 3 1/4  | 25                 | 100                | 550           |
| FC20428 | 1/4-20 X 3 1/2  | 25                 | 100                | 625           |
| FC20430 | 1/4-20 X 3 3/4  | 25                 | 100                | 575           |
| FC20432 | 1/4-20 X 4      | 25                 | 100                | 525           |
| FC20436 | 1/4-20 X 4 1/2  | 25                 | 100                | 500           |
| FC20440 | 1/4-20 X 5      | 25                 | 100                | 500           |
| FC20444 | 1/4-20 X 5 1/2  | 25                 | 100                | 450           |
| FC20448 | 1/4-20 X 6      | 25                 | 100                | 450           |
| FC20452 | 1/4-20 X 6 1/2  | -                  | 1                  | 425           |
| FC20456 | 1/4-20 X 7      | -                  | 1                  | 375           |
| FC20464 | 1/4-20 X 8      | -                  | 1                  | 250           |
| FC20480 | 1/4-20 X 10     | -                  | 1                  | 300           |
| FC20506 | 5/16-18 X 3/4   | 25                 | 100                | 2000          |
| FC20508 | 5/16-18 X 1     | 25                 | 100                | 1625          |
| FC20510 | 5/16-18 X 1 1/4 | 25                 | 100                | 1375          |
| FC20512 | 5/16-18 X 1 1/2 | 25                 | 100                | 1250          |
| FC20514 | 5/16-18 X 1 3/4 | 25                 | 100                | 1125          |
| FC20516 | 5/16-18 X 2     | 25                 | 100                | 1000          |
| FC20518 | 5/16-18 X 2 1/4 | 25                 | 100                | 875           |
| FC20520 | 5/16-18 X 2 1/2 | 25                 | 100                | 800           |
| FC20522 | 5/16-18 X 2 3/4 | 25                 | 100                | 750           |
| FC20524 | 5/16-18 X 3     | 25                 | 100                | 625           |
| FC20526 | 5/16-18 X 3 1/4 | 10                 | 50                 | 450           |
| FC20528 | 5/16-18 X 3 1/2 | 10                 | 50                 | 500           |
| FC20530 | 5/16-18 X 3 3/4 | 10                 | 50                 | 350           |
| FC20532 | 5/16-18 X 4     | 10                 | 50                 | 375           |
| FC20536 | 5/16-18 X 4 1/2 | 10                 | 50                 | 325           |
| FC20540 | 5/16-18 X 5     | 10                 | 50                 | 300           |
| FC20544 | 5/16-18 X 5 1/2 | 10                 | 50                 | 250           |
| FC20548 | 5/16-18 X 6     | 10                 | 50                 | 225           |
| FC20552 | 5/16-18 X 6 1/2 | -                  | 1                  | 200           |
| FC20556 | 5/16-18 X 7     | -                  | 1                  | 200           |
| FC20564 | 5/16-18 X 8     | -                  | 1                  | 175           |
| FC20572 | 5/16-18 X 9     | -                  | 1                  | 300           |
| FC20606 | 3/8-16 X 3/4    | 25                 | 100                | 1250          |
| FC20608 | 3/8-16 X 1      | 25                 | 100                | 1000          |
| FC20610 | 3/8-16 X 1 1/4  | 25                 | 100                | 875           |
| FC20612 | 3/8-16 X 1 1/2  | 25                 | 100                | 825           |
| FC20614 | 3/8-16 X 1 3/4  | 25                 | 100                | 750           |
| FC20616 | 3/8-16 X 2      | 25                 | 100                | 550           |
| FC20618 | 3/8-16 X 2 1/4  | 10                 | 50                 | 625           |
| FC20620 | 3/8-16 X 2 1/2  | 10                 | 50                 | 450           |

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FC20622 | 3/8-16 X 2 3/4  | 10                 | 50                 | 500           |
| FC20624 | 3/8-16 X 3      | 10                 | 50                 | 450           |
| FC20626 | 3/8-16 X 3 1/4  | 10                 | 50                 | 400           |
| FC20628 | 3/8-16 X 3 1/2  | 10                 | 50                 | 350           |
| FC20632 | 3/8-16 X 4      | 10                 | 50                 | 300           |
| FC20636 | 3/8-16 X 4 1/2  | 10                 | 50                 | 350           |
| FC20640 | 3/8-16 X 5      | 10                 | 50                 | 225           |
| FC20644 | 3/8-16 X 5 1/2  | 10                 | 50                 | 200           |
| FC20648 | 3/8-16 X 6      | 10                 | 50                 | 175           |
| FC20652 | 3/8-16 X 6 1/2  | -                  | 1                  | 175           |
| FC20656 | 3/8-16 X 7      | -                  | 1                  | 175           |
| FC20660 | 3/8-16 X 7 1/2  | -                  | 1                  | 150           |
| FC20664 | 3/8-16 X 8      | -                  | 1                  | 125           |
| FC20672 | 3/8-16 X 9      | -                  | 1                  | 100           |
| FC20676 | 3/8-16 X 9 1/2  | -                  | 1                  | 100           |
| FC20680 | 3/8-16 X 10     | -                  | 1                  | 100           |
| FC20688 | 3/8-16 X 11     | -                  | 1                  | 80            |
| FC20696 | 3/8-16 X 12     | -                  | 1                  | 80            |
| FC20708 | 7/16-14 X 1     | 10                 | 50                 | 675           |
| FC20710 | 7/16-14 X 1 1/4 | 10                 | 50                 | 600           |
| FC20712 | 7/16-14 X 1 1/2 | 10                 | 50                 | 550           |
| FC20714 | 7/16-14 X 1 3/4 | 10                 | 50                 | 500           |
| FC20716 | 7/16-14 X 2     | 10                 | 50                 | 450           |
| FC20720 | 7/16-14 X 2 1/2 | 10                 | 50                 | 375           |
| FC20724 | 7/16-14 X 3     | 10                 | 50                 | 325           |
| FC20728 | 7/16-14 X 3 1/2 | 10                 | 25                 | 300           |
| FC20732 | 7/16-14 X 4     | 10                 | 25                 | 250           |
| FC20736 | 7/16-14 X 4 1/2 | 10                 | 25                 | 225           |
| FC20740 | 7/16-14 X 5     | 10                 | 25                 | 175           |
| FC20744 | 7/16-14 X 5 1/2 | 10                 | 25                 | 150           |
| FC20748 | 7/16-14 X 6     | 10                 | 25                 | 175           |
| FC20756 | 7/16-14 X 7     | -                  | 1                  | 150           |
| FC20764 | 7/16-14 X 8     | -                  | 1                  | 150           |
| FC20808 | 1/2-13 X 1      | 10                 | 50                 | 500           |
| FC20810 | 1/2-13 X 1 1/4  | 10                 | 50                 | 450           |
| FC20812 | 1/2-13 X 1 1/2  | 10                 | 50                 | 400           |
| FC20816 | 1/2-13 X 2      | 10                 | 50                 | 350           |
| FC20818 | 1/2-13 X 2 1/4  | 10                 | 50                 | 325           |
| FC20820 | 1/2-13 X 2 1/2  | 10                 | 50                 | 300           |
| FC20824 | 1/2-13 X 3      | 10                 | 50                 | 250           |
| FC20828 | 1/2-13 X 3 1/2  | 10                 | 25                 | 200           |
| FC20832 | 1/2-13 X 4      | 10                 | 25                 | 175           |
| FC20836 | 1/2-13 X 4 1/2  | 10                 | 25                 | 130           |

# CARRIAGE BOLTS

## GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FC20840  | 1/2-13 X 5     | 10                 | 25                 | 150           |
| FC20844  | 1/2-13 X 5 1/2 | 10                 | 25                 | 110           |
| FC20848  | 1/2-13 X 6     | 10                 | 25                 | 125           |
| FC20852  | 1/2-13 X 6 1/2 | -                  | 1                  | 100           |
| FC20856  | 1/2-13 X 7     | -                  | 1                  | 70            |
| FC20864  | 1/2-13 X 8     | -                  | 1                  | 75            |
| FC20872  | 1/2-13 X 9     | -                  | 1                  | 50            |
| FC20880  | 1/2-13 X 10    | -                  | 1                  | 50            |
| FC20896  | 1/2-13 X 12    | -                  | 1                  | 50            |
| FC208112 | 1/2-13 X 14    | -                  | 1                  | 50            |
| FC208144 | 1/2-13 X 18    | -                  | 1                  | 50            |
| FC21012  | 5/8-11 X 1 1/2 | 5                  | 25                 | 200           |
| FC21016  | 5/8-11 X 2     | 5                  | 25                 | 130           |
| FC21020  | 5/8-11 X 2 1/2 | 5                  | 25                 | 150           |
| FC21024  | 5/8-11 X 3     | 5                  | 25                 | 125           |

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC21028 | 5/8-11 X 3 1/2 | 5                  | 25                 | 100           |
| FC21032 | 5/8-11 X 4     | 5                  | 25                 | 100           |
| FC21036 | 5/8-11 X 4 1/2 | 5                  | 25                 | 70            |
| FC21040 | 5/8-11 X 5     | 5                  | 25                 | 75            |
| FC21044 | 5/8-11 X 5 1/2 | 5                  | 25                 | 55            |
| FC21048 | 5/8-11 X 6     | 5                  | 20                 | 50            |
| FC21052 | 5/8-11 X 6 1/2 | -                  | 1                  | 75            |
| FC21056 | 5/8-11 X 7     | -                  | 1                  | 75            |
| FC21060 | 5/8-11 X 7 1/2 | -                  | 1                  | 70            |
| FC21064 | 5/8-11 X 8     | -                  | 1                  | 50            |
| FC21076 | 5/8-11 X 9 1/2 | -                  | 1                  | 75            |
| FC21096 | 5/8-11 X 12    | -                  | 1                  | 25            |
| FC21244 | 3/4-10 X 5 1/2 | -                  | 1                  | 60            |
| FC21256 | 3/4-10 X 7     | -                  | 1                  | 50            |

## GRADE 307A • COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

| Part #    | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|--------------------|---------------|
| FC2G0520  | 5/16-18 X 2 1/2 | 25                 | 100                | 800           |
| FC2G0532  | 5/16-18 X 4     | 10                 | 50                 | 375           |
| FC2G0620  | 3/8-16 X 2 1/2  | 10                 | 50                 | 450           |
| FC2G0632  | 3/8-16 X 4      | 10                 | 50                 | 300           |
| FC2G08104 | 1/2-13 X 13     | -                  | 1                  | 50            |

| Part #    | Size        | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|-------------|--------------------|--------------------|---------------|
| FC2G1048  | 5/8-11 X 6  | 5                  | 20                 | 50            |
| FC2G1064  | 5/8-11 X 8  | -                  | 1                  | 50            |
| FC2G1080  | 5/8-11 X 10 | -                  | 1                  | 25            |
| FC2G10144 | 5/8-11 X 18 | -                  | 1                  | 25            |

Don't see the size you're looking for? Call us for availability!

Plain finish carriage bolts are available on request. Lead time is 6 business days or less.

## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED



Carriage Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi.

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC50406 | 1/4-20 X 3/4   | 25                 | 100                | 3750          |
| FC50408 | 1/4-20 X 1     | 25                 | 100                | 3250          |
| FC50410 | 1/4-20 X 1 1/4 | 25                 | 100                | 2875          |
| FC50412 | 1/4-20 X 1 1/2 | 25                 | 100                | 2125          |
| FC50414 | 1/4-20 X 1 3/4 | 25                 | 100                | 1500          |
| FC50416 | 1/4-20 X 2     | 25                 | 100                | 1375          |
| FC50418 | 1/4-20 X 2 1/4 | 25                 | 100                | 1200          |

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC50420 | 1/4-20 X 2 1/2 | 25                 | 100                | 1000          |
| FC50424 | 1/4-20 X 3     | 25                 | 100                | 750           |
| FC50426 | 1/4-20 X 3 1/4 | 25                 | 100                | 1000          |
| FC50428 | 1/4-20 X 3 1/2 | 25                 | 100                | 625           |
| FC50504 | 5/16-18 X 1/2  | 25                 | 100                | -             |
| FC50506 | 5/16-18 X 3/4  | 25                 | 100                | 1400          |
| FC50508 | 5/16-18 X 1    | 25                 | 100                | 1100          |



# CARRIAGE BOLTS

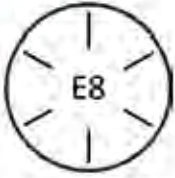
## GRADE 5 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

| Part #  | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|--------------------|---------------|
| FC50510 | 5/16-18 X 1 1/4 | 25                 | 100                | 950           |
| FC50512 | 5/16-18 X 1 1/2 | 25                 | 100                | 800           |
| FC50514 | 5/16-18 X 1 3/4 | 25                 | 100                | 700           |
| FC50516 | 5/16-18 X 2     | 25                 | 100                | 700           |
| FC50518 | 5/16-18 X 2 1/4 | 25                 | 100                | 550           |
| FC50520 | 5/16-18 X 2 1/2 | 25                 | 100                | 450           |
| FC50522 | 5/16-18 X 2 3/4 | 25                 | 100                | 400           |
| FC50524 | 5/16-18 X 3     | 25                 | 100                | 400           |
| FC50526 | 5/16-18 X 3 1/4 | 15                 | 50                 | 600           |
| FC50528 | 5/16-18 X 3 1/2 | 15                 | 50                 | 500           |
| FC50532 | 5/16-18 X 4     | 15                 | 50                 | 375           |
| FC50536 | 5/16-18 X 4 1/2 | 15                 | 50                 | 325           |
| FC50606 | 3/8-16 X 3/4    | 25                 | 100                | 900           |
| FC50608 | 3/8-16 X 1      | 25                 | 100                | 750           |
| FC50610 | 3/8-16 X 1 1/4  | 25                 | 100                | 600           |
| FC50612 | 3/8-16 X 1 1/2  | 25                 | 100                | 550           |
| FC50614 | 3/8-16 X 1 3/4  | 25                 | 100                | 500           |
| FC50616 | 3/8-16 X 2      | 25                 | 100                | 450           |
| FC50620 | 3/8-16 X 2 1/2  | 15                 | 50                 | 350           |
| FC50624 | 3/8-16 X 3      | 15                 | 50                 | 300           |
| FC50626 | 3/8-16 X 3 1/4  | 15                 | 50                 | 275           |
| FC50628 | 3/8-16 X 3 1/2  | 15                 | 50                 | 250           |
| FC50632 | 3/8-16 X 4      | 15                 | 50                 | 225           |
| FC50640 | 3/8-16 X 5      | 15                 | 50                 | 225           |
| FC50648 | 3/8-16 X 6      | 15                 | 50                 | 175           |
| FC50708 | 7/16-14 X 1     | 15                 | 50                 | 550           |
| FC50710 | 7/16-14 X 1 1/4 | 15                 | 50                 | 450           |
| FC50712 | 7/16-14 X 1 1/2 | 15                 | 50                 | 400           |
| FC50714 | 7/16-14 X 1 3/4 | 15                 | 50                 | 350           |
| FC50716 | 7/16-14 X 2     | 15                 | 50                 | 325           |
| FC50718 | 7/16-14 X 2 1/4 | 15                 | 50                 | 325           |
| FC50720 | 7/16-14 X 2 1/2 | 15                 | 50                 | 275           |
| FC50724 | 7/16-14 X 3     | 15                 | 50                 | 225           |
| FC50728 | 7/16-14 X 3 1/2 | 10                 | 25                 | 200           |
| FC50732 | 7/16-14 X 4     | 10                 | 25                 | 175           |

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC50808 | 1/2-13 X 1     | 15                 | 50                 | 375           |
| FC50810 | 1/2-13 X 1 1/4 | 15                 | 50                 | 375           |
| FC50812 | 1/2-13 X 1 1/2 | 15                 | 50                 | 325           |
| FC50814 | 1/2-13 X 1 3/4 | 15                 | 50                 | 300           |
| FC50816 | 1/2-13 X 2     | 15                 | 50                 | 250           |
| FC50818 | 1/2-13 X 2 1/4 | 15                 | 50                 | 225           |
| FC50820 | 1/2-13 X 2 1/2 | 15                 | 50                 | 200           |
| FC50824 | 1/2-13 X 3     | 15                 | 50                 | 150           |
| FC50828 | 1/2-13 X 3 1/2 | 10                 | 25                 | 125           |
| FC50832 | 1/2-13 X 4     | 10                 | 25                 | 125           |
| FC50836 | 1/2-13 X 4 1/2 | 10                 | 25                 | 110           |
| FC50840 | 1/2-13 X 5     | 10                 | 25                 | 100           |
| FC50848 | 1/2-13 X 6     | 10                 | 25                 | 125           |
| FC50856 | 1/2-13 X 7     | -                  | 1                  | 120           |
| FC51012 | 5/8-11 X 1 1/2 | 10                 | 25                 | 200           |
| FC51014 | 5/8-11 X 1 3/4 | 10                 | 25                 | 130           |
| FC51016 | 5/8-11 X 2     | 10                 | 25                 | 130           |
| FC51020 | 5/8-11 X 2 1/2 | 10                 | 25                 | 150           |
| FC51022 | 5/8-11 X 2 3/4 | 10                 | 25                 | 150           |
| FC51024 | 5/8-11 X 3     | 10                 | 25                 | 125           |
| FC51028 | 5/8-11 X 3 1/2 | 10                 | 25                 | 100           |
| FC51032 | 5/8-11 X 4     | 10                 | 25                 | 100           |
| FC51036 | 5/8-11 X 4 1/2 | 10                 | 25                 | 70            |
| FC51040 | 5/8-11 X 5     | 10                 | 25                 | 75            |
| FC51048 | 5/8-11 X 6     | 5                  | 20                 | 50            |
| FC51216 | 3/4-10 X 2     | 5                  | 20                 | 90            |
| FC51220 | 3/4-10 X 2 1/2 | 5                  | 20                 | 100           |
| FC51224 | 3/4-10 X 3     | 5                  | 20                 | 100           |
| FC51228 | 3/4-10 X 3 1/2 | 5                  | 20                 | 85            |
| FC51232 | 3/4-10 X 4     | 5                  | 20                 | 75            |
| FC51236 | 3/4-10 X 4 1/2 | -                  | 1                  | 60            |
| FC51240 | 3/4-10 X 5     | -                  | 1                  | 60            |
| FC51244 | 3/4-10 X 5 1/2 | -                  | 1                  | 60            |
| FC51248 | 3/4-10 X 6     | -                  | 1                  | 60            |

# CARRIAGE BOLTS

## GRADE 8 • COARSE THREAD • ZINC PLATED • IMPORTED

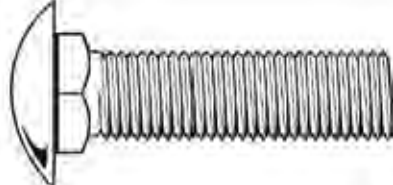
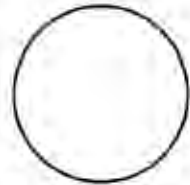


Carriage Bolts Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.

| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FC80812 | 1/2-13 X 1 1/2 | 15                 | 50                 | 460           |
| FC80816 | 1/2-13 X 2     | 15                 | 50                 | 280           |
| FC80820 | 1/2-13 X 2 1/2 | 15                 | 50                 | 340           |

We have many other sizes of grade 8 carriage bolts available in 1-2 days.

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED



18-8 Stainless Carriage Bolts have a tensile strength of 100,000-125,000 psi and a minimum Rockwell hardness of B100.

| Part #  | Size            | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|---------------|
| FSSC304 | 10-24 X 1       | 100                | 3500          |
| FSSC306 | 10-24 X 1 1/2   | 100                | 2250          |
| FSSC402 | 1/4-20 X 1/2    | 100                | 3750          |
| FSSC403 | 1/4-20 X 3/4    | 100                | 3250          |
| FSSC404 | 1/4-20 X 1      | 100                | 2875          |
| FSSC405 | 1/4-20 X 1 1/4  | 100                | 2500          |
| FSSC406 | 1/4-20 X 1 1/2  | 100                | 2125          |
| FSSC407 | 1/4-20 X 1 3/4  | 100                | 1500          |
| FSSC408 | 1/4-20 X 2      | 100                | 1375          |
| FSSC409 | 1/4-20 X 2 1/4  | 100                | 1200          |
| FSSC410 | 1/4-20 X 2 1/2  | 100                | 1000          |
| FSSC412 | 1/4-20 X 3      | 100                | 750           |
| FSSC414 | 1/4-20 X 3 1/2  | 100                | 625           |
| FSSC416 | 1/4-20 X 4      | 100                | 525           |
| FSSC503 | 5/16-18 X 3/4   | 100                | 2000          |
| FSSC504 | 5/16-18 X 1     | 100                | 1625          |
| FSSC505 | 5/16-18 X 1 1/4 | 100                | 1375          |
| FSSC506 | 5/16-18 X 1 1/2 | 100                | 1250          |
| FSSC508 | 5/16-18 X 2     | 100                | 1000          |
| FSSC510 | 5/16-18 X 2 1/2 | 100                | 800           |
| FSSC511 | 5/16-18 X 2 3/4 | 100                | 750           |

| Part #   | Size            | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|---------------|
| FSSC512  | 5/16-18 X 3     | 100                | 625           |
| FSSC514  | 5/16-18 X 3 1/2 | 50                 | 500           |
| FSSC516  | 5/16-18 X 4     | 50                 | 375           |
| FSSC603  | 3/8-16 X 3/4    | 100                | 1250          |
| FSSC604  | 3/8-16 X 1      | 100                | 1000          |
| FSSC605  | 3/8-16 X 1 1/4  | 100                | 875           |
| FSSC606  | 3/8-16 X 1 1/2  | 100                | 825           |
| FSSC608  | 3/8-16 X 2      | 100                | 550           |
| FSSC609  | 3/8-16 X 2 1/4  | 50                 | 625           |
| FSSC610  | 3/8-16 X 2 1/2  | 50                 | 450           |
| FSSC612  | 3/8-16 X 3      | 50                 | 450           |
| FSSC614  | 3/8-16 X 3 1/2  | 50                 | 350           |
| FSSC616  | 3/8-16 X 4      | 50                 | 300           |
| FSSC622  | 3/8-16 X 5 1/2  | 50                 | 200           |
| FSSC805  | 1/2-13 X 1 1/4  | 50                 | 450           |
| FSSC806  | 1/2-13 X 1 1/2  | 50                 | 400           |
| FSSC808  | 1/2-13 X 2      | 50                 | 350           |
| FSSC812  | 1/2-13 X 3      | 50                 | 250           |
| FSSC1008 | 5/8-11 X 2      | 25                 | 130           |

# HEX LAG SCREWS

## ZINC PLATED • IMPORTED



Hex Lag Screws are manufactured to SAE J429 Grade 1 specs. They have a minimum tensile strength (not pullout strength) of 60,000 psi. Typical hardness is HRB 70-100. Diameter is measured on the outside of the threads. Length is measured under the head to the end of the lag. Socket size (width across the flats) is equivalent to Hex Bolts.

| Part # | Size         | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|--------|--------------|--------------------|--------------------|---------------|
| FL408  | 1/4 X 1      | 25                 | 100                | 2500          |
| FL410  | 1/4 X 1 1/4  | 25                 | 100                | 2250          |
| FL412  | 1/4 X 1 1/2  | 25                 | 100                | 1875          |
| FL416  | 1/4 X 2      | 25                 | 100                | 1425          |
| FL420  | 1/4 X 2 1/2  | 25                 | 100                | 1125          |
| FL424  | 1/4 X 3      | 25                 | 100                | 875           |
| FL428  | 1/4 X 3 1/2  | 25                 | 100                | 875           |
| FL432  | 1/4 X 4      | 25                 | 100                | 700           |
| FL436  | 1/4 X 4 1/2  | 25                 | 100                | 675           |
| FL440  | 1/4 X 5      | 25                 | 100                | 550           |
| FL508  | 5/16 X 1     | 25                 | 100                | 1375          |
| FL512  | 5/16 X 1 1/2 | 25                 | 100                | 1000          |
| FL516  | 5/16 X 2     | 25                 | 100                | 750           |
| FL520  | 5/16 X 2 1/2 | 25                 | 100                | 550           |
| FL524  | 5/16 X 3     | 25                 | 100                | 625           |
| FL528  | 5/16 X 3 1/2 | 15                 | 50                 | 450           |
| FL532  | 5/16 X 4     | 15                 | 50                 | 525           |
| FL536  | 5/16 X 4 1/2 | 15                 | 50                 | 425           |
| FL540  | 5/16 X 5     | 15                 | 50                 | 375           |
| FL548  | 5/16 X 6     | 15                 | 50                 | 300           |
| FL608  | 3/8 X 1      | 25                 | 100                | 875           |
| FL612  | 3/8 X 1 1/2  | 25                 | 100                | 550           |
| FL616  | 3/8 X 2      | 25                 | 100                | 600           |
| FL620  | 3/8 X 2 1/2  | 15                 | 50                 | 450           |
| FL624  | 3/8 X 3      | 15                 | 50                 | 350           |
| FL628  | 3/8 X 3 1/2  | 15                 | 50                 | 375           |
| FL632  | 3/8 X 4      | 15                 | 50                 | 250           |
| FL636  | 3/8 X 4 1/2  | 15                 | 50                 | 225           |
| FL640  | 3/8 X 5      | 15                 | 50                 | 250           |
| FL644  | 3/8 X 5 1/2  | 15                 | 50                 | 175           |
| FL648  | 3/8 X 6      | 15                 | 50                 | 150           |

| Part #  | Size        | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-------------|--------------------|--------------------|---------------|
| FL656   | 3/8 X 7     | -                  | 1                  | 145           |
| FL664   | 3/8 X 8     | -                  | 1                  | 175           |
| FL680   | 3/8 X 10    | -                  | 1                  | 150           |
| FL812   | 1/2 X 1 1/2 | 15                 | 50                 | 350           |
| FL816   | 1/2 X 2     | 15                 | 50                 | 225           |
| FL820   | 1/2 X 2 1/2 | 15                 | 50                 | 225           |
| FL824   | 1/2 X 3     | 15                 | 50                 | 200           |
| FL828   | 1/2 X 3 1/2 | 10                 | 25                 | 175           |
| FL832   | 1/2 X 4     | 10                 | 25                 | 125           |
| FL836   | 1/2 X 4 1/2 | 10                 | 25                 | 150           |
| FL840   | 1/2 X 5     | 10                 | 25                 | 125           |
| FL848   | 1/2 X 6     | 10                 | 25                 | 100           |
| FL856   | 1/2 X 7     | -                  | 1                  | 70            |
| FL864   | 1/2 X 8     | -                  | 1                  | 75            |
| FL880   | 1/2 X 10    | -                  | 1                  | 75            |
| FL896   | 1/2 X 12    | -                  | 1                  | 75            |
| FL1016  | 5/8 X 2     | 10                 | 25                 | 225           |
| FL1032  | 5/8 X 4     | 10                 | 25                 | 90            |
| FL1040  | 5/8 X 5     | 10                 | 25                 | 70            |
| FL1048  | 5/8 X 6     | 5                  | 20                 | 50            |
| FL1072  | 5/8 X 9     | -                  | 1                  | 30            |
| FL1096  | 5/8 X 12    | -                  | 1                  | 25            |
| FL10128 | 5/8 X 16    | -                  | 1                  | 35            |
| FL1220  | 3/4 X 2 1/2 | 5                  | 20                 | 100           |
| FL1232  | 3/4 X 4     | 5                  | 20                 | 75            |
| FL1236  | 3/4 X 4 1/2 | 5                  | 20                 | 50            |
| FL1240  | 3/4 X 5     | 5                  | 20                 | 50            |
| FL1248  | 3/4 X 6     | 5                  | 20                 | 50            |
| FL1264  | 3/4 X 8     | -                  | 1                  | 30            |

# HEX LAG SCREWS

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size         | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|--------|--------------|--------------------|--------------------|---------------|
| FLF424 | 1/4 X 3*     | 25                 | 100                | 1000          |
| FLG432 | 1/4 X 4      | 25                 | 100                | 700           |
| FLG524 | 5/16 X 3     | 25                 | 100                | 625           |
| FLG532 | 5/16 X 4     | 15                 | 50                 | 525           |
| FLG536 | 5/16 X 4 1/2 | 15                 | 50                 | 425           |
| FLG540 | 5/16 X 5     | 15                 | 50                 | 375           |
| FLG548 | 5/16 X 6     | 15                 | 50                 | 300           |

| Part #  | Size        | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-------------|--------------------|--------------------|---------------|
| FLG610  | 3/8 X 1 1/4 | 25                 | 100                | 875           |
| FLG632  | 3/8 X 4     | 15                 | 50                 | 250           |
| FLG640  | 3/8 X 5     | 15                 | 50                 | 250           |
| FLG664  | 3/8 X 8     | -                  | 1                  | 140           |
| FLG828  | 1/2 X 4 1/2 | 10                 | 25                 | 150           |
| FLG1032 | 5/8 X 4     | 10                 | 25                 | 90            |

\*Flanged Lags with a 3/8 hex.

Don't see the size you're looking for? Call us for availability!

## 18-8 STAINLESS STEEL • IMPORTED



18-8 Stainless Steel Hex Lag Screws have a minimum tensile strength (not pullout strength) of 100,000-125,000 psi. Minimum hardness is HRB 100. Diameter is measured on the outside of the threads. Length is measured under the head to the end of the lag. Socket size (width across the flats) is equivalent to Hex Bolts.

| Part #  | Size         | Farm Pack Quantity | Shop Pack Quantity |
|---------|--------------|--------------------|--------------------|
| FSSL408 | 1/4 X 1      | 25                 | 100                |
| FSSL410 | 1/4 X 1 1/4  | 25                 | 100                |
| FSSL412 | 1/4 X 1 1/2  | 25                 | 100                |
| FSSL416 | 1/4 X 2      | 25                 | 100                |
| FSSL420 | 1/4 X 2 1/2  | 25                 | 100                |
| FSSL424 | 1/4 X 3      | 25                 | 100                |
| FSSL428 | 1/4 X 3 1/2  | 25                 | 100                |
| FSSL512 | 5/16 X 1 1/2 | 25                 | 100                |
| FSSL516 | 5/16 X 2     | 25                 | 100                |
| FSSL520 | 5/16 X 2 1/2 | 25                 | 100                |

| Part #  | Size         | Farm Pack Quantity | Shop Pack Quantity |
|---------|--------------|--------------------|--------------------|
| FSSL524 | 5/16 X 3     | 25                 | 100                |
| FSSL528 | 5/16 X 3 1/2 | 15                 | 50                 |
| FSSL532 | 5/16 X 4     | 15                 | 50                 |
| FSSL616 | 3/8 X 2      | 25                 | 100                |
| FSSL620 | 3/8 X 2 1/2  | 15                 | 50                 |
| FSSL624 | 3/8 X 3      | 15                 | 50                 |
| FSSL628 | 3/8 X 3 1/2  | 15                 | 50                 |
| FSSL632 | 3/8 X 4      | 15                 | 50                 |
| FSSL832 | 1/2 X 4      | 10                 | 25                 |

# HEX FLANGE SCREWS

## TECHNICAL INFORMATION

### Core Hardness Rockwell

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| 5     | C25-C34                |
| 8     | C33- C39               |



### Tensile Strengths

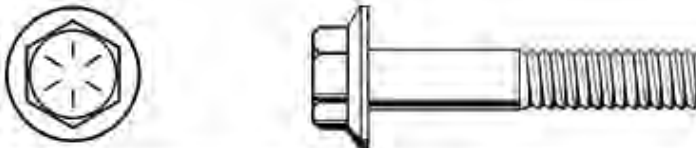
| Coarse Thread |         |         | Fine Thread |         |
|---------------|---------|---------|-------------|---------|
| Diameter      | Grade 5 | Grade 8 | Diameter    | Grade 8 |
| 1/4-20        | 3800    | 4750    | 1/4-28      | 5450    |
| 5/16-18       | 6300    | 7850    | 5/16-24     | 8700    |
| 3/8-16        | 9300    | 11600   | 3/8-24      | 13200   |
| 7/16-14       | 12800   | 15900   | 7/16-20     | 17800   |
| 1/2-13        | 17000   | 21300   | 1/2-20      | 24000   |
| 5/8-11        | 27100   | 33900   | 5/8-18      | 38400   |
| 3/4-10        | 40100   | 50100   | 3/4-16      | 56000   |

Endurance limits vary widely. Endurance limits of 10-20% of the tensile strength have been reported.

### Dimensions

| Diameter | A     | B     | C     | D     | E     |
|----------|-------|-------|-------|-------|-------|
| 1/4      | 0.170 | 0.280 | 0.560 | 0.421 | 3/8   |
| 5/16     | 0.210 | 0.320 | 0.680 | 0.562 | 1/2   |
| 3/8      | 0.250 | 0.390 | 0.810 | 0.634 | 9/16  |
| 7/16     | 0.300 | 0.460 | 0.930 | 0.703 | 5/8   |
| 1/2      | 0.340 | 0.510 | 1.070 | 0.845 | 3/4   |
| 5/8      | 0.420 | 0.620 | 1.330 | 1.054 | 15/16 |
| 3/4      | 0.510 | 0.730 | 1.590 | 1.266 | 1 1/8 |

## GRADE 8 • COARSE THREAD • PHOS & OIL FINISH • MADE IN CANADA (FRAME BOLTS)



Hex Flange Screws Grade 8 are manufactured to SAE J429 Grade 8 & IFI-111 specs. They have a minimum tensile strength of 150,000 psi.

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FFS83504 | 7/16-14 X 1    | 50               | 500           |
| FFS8404  | 1/2-13 X 1     | 50               | 325           |
| FFS8405  | 1/2-13 X 1 1/4 | 50               | 300           |
| FFS8406  | 1/2-13 X 1 1/2 | 50               | 250           |
| FFS8407  | 1/2-13 X 1 3/4 | 50               | 225           |
| FFS8408  | 1/2-13 X 2     | 50               | 200           |
| FFS8409  | 1/2-13 X 2 1/4 | 50               | 175           |
| FFS8410  | 1/2-13 X 2 1/2 | 50               | 150           |
| FFS8412  | 1/2-13 X 3     | 25               | 150           |
| FFS8414  | 1/2-13 X 3 1/2 | 25               | 135           |
| FFS8416  | 1/2-13 X 4     | 25               | 120           |

| Part #  | Size           | Package Quantity | Bulk Quantity |
|---------|----------------|------------------|---------------|
| FFS8418 | 1/2-13 X 4 1/2 | 25               | 100           |
| FFS8420 | 1/2-13 X 5     | 25               | 95            |
| FFS8505 | 5/8-11 X 1 1/4 | 25               | 160           |
| FFS8506 | 5/8-11 X 1 1/2 | 25               | 150           |
| FFS8507 | 5/8-11 X 1 3/4 | 25               | 120           |
| FFS8508 | 5/8-11 X 2     | 25               | 110           |
| FFS8509 | 5/8-11 X 2 1/4 | 25               | 110           |
| FFS8510 | 5/8-11 X 2 1/2 | 25               | 90            |
| FFS8512 | 5/8-11 X 3     | 25               | 85            |
| FFS8514 | 5/8-11 X 3 1/2 | 25               | 80            |
| FFS8516 | 5/8-11 X 4     | 25               | 60            |

# HEX FLANGE SCREWS

## GRADE 8 • COARSE THREAD • PHOS & OIL FINISH • MADE IN CANADA (FRAME BOLTS)

| Part #  | Size           | Package Quantity | Bulk Quantity |
|---------|----------------|------------------|---------------|
| FFS8518 | 5/8-11 X 4 1/2 | 20               | 60            |
| FFS8520 | 5/8-11 X 5     | 20               | 60            |
| FFS8522 | 5/8-11 X 5 1/2 | 20               | 50            |
| FFS8606 | 3/4-10 X 1 1/2 | 20               | 90            |
| FFS8607 | 3/4-10 X 1 3/4 | 20               | 80            |
| FFS8608 | 3/4-10 X 2     | 20               | 70            |

| Part #  | Size           | Package Quantity | Bulk Quantity |
|---------|----------------|------------------|---------------|
| FFS8610 | 3/4-10 X 2 1/2 | 20               | 55            |
| FFS8612 | 3/4-10 X 3     | 15               | 50            |
| FFS8614 | 3/4-10 X 3 1/2 | 15               | 50            |
| FFS8616 | 3/4-10 X 4     | 15               | 45            |
| FFS8620 | 3/4-10 X 5     | 10               | 40            |

## GRADE 8 • FINE THREAD • PHOS & OIL FINISH • MADE IN CANADA (FRAME BOLTS)

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FFS8F406 | 1/2-20 X 1 1/2 | 50               | 250           |
| FFS8F407 | 1/2-20 X 1 3/4 | 50               | 225           |
| FFS8F408 | 1/2-20 X 2     | 50               | 200           |
| FFS8F409 | 1/2-20 X 2 1/4 | 50               | 175           |
| FFS8F410 | 1/2-20 X 2 1/2 | 50               | 150           |
| FFS8F412 | 1/2-20 X 3     | 25               | 150           |
| FFS8F414 | 1/2-20 X 3 1/2 | 25               | 135           |
| FFS8F416 | 1/2-20 X 4     | 25               | 120           |
| FFS8F420 | 1/2-20 X 5     | 25               | 95            |
| FFS8F506 | 5/8-18 X 1 1/2 | 25               | 150           |
| FFS8F507 | 5/8-18 X 1 3/4 | 25               | 120           |
| FFS8F508 | 5/8-18 X 2     | 25               | 110           |

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FFS8F509 | 5/8-18 X 2 1/4 | 25               | 110           |
| FFS8F510 | 5/8-18 X 2 1/2 | 25               | 90            |
| FFS8F512 | 5/8-18 X 3     | 25               | 85            |
| FFS8F514 | 5/8-18 X 3 1/2 | 25               | 80            |
| FFS8F516 | 5/8-18 X 4     | 25               | 60            |
| FFS8F518 | 5/8-18 X 4 1/2 | 20               | 60            |
| FFS8F520 | 5/8-18 X 5     | 20               | 60            |
| FFS8F608 | 3/4-16 X 2     | 20               | 70            |
| FFS8F610 | 3/4-16 X 2 1/2 | 20               | 55            |
| FFS8F612 | 3/4-16 X 3     | 15               | 50            |
| FFS8F614 | 3/4-16 X 3 1/2 | 15               | 50            |
| FFS8F616 | 3/4-16 X 4     | 15               | 45            |

## SERRATED • GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED



Serrated Hex Flange Screws Grade 5 are manufactured to SAE J429 Grade 5 & IFI-111 specs. They have a minimum tensile strength of 120,000 psi.

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FFS50404 | 1/4-20 X 1/2    | 100              | 2800          |
| FFS50405 | 1/4-20 X 5/8    | 100              | 2500          |
| FFS50406 | 1/4-20 X 3/4    | 100              | 2300          |
| FFS50408 | 1/4-20 X 1      | 100              | 2000          |
| FFS50410 | 1/4-20 X 1 1/4  | 100              | 1400          |
| FFS50412 | 1/4-20 X 1 1/2  | 100              | 1400          |
| FFS50414 | 1/4-20 X 1 3/4  | 100              | 1100          |
| FFS50416 | 1/4-20 X 2      | 100              | 800           |
| FFS50420 | 1/4-20 X 2 1/2  | 100              | 700           |
| FFS50504 | 5/16-18 X 1/2   | 100              | 1500          |
| FFS50506 | 5/16-18 X 3/4   | 100              | 1200          |
| FFS50508 | 5/16-18 X 1     | 100              | 1100          |
| FFS50510 | 5/16-18 X 1 1/4 | 100              | 1000          |

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FFS50512 | 5/16-18 X 1 1/2 | 100              | 900           |
| FFS50514 | 5/16-18 X 1 3/4 | 100              | 800           |
| FFS50516 | 5/16-18 X 2     | 100              | 550           |
| FFS50518 | 5/16-18 X 2 1/4 | 100              | 700           |
| FFS50604 | 3/8-16 X 1/2    | 100              | 900           |
| FFS50606 | 3/8-16 X 3/4    | 100              | 800           |
| FFS50608 | 3/8-16 X 1      | 100              | 700           |
| FFS50610 | 3/8-16 X 1 1/4  | 100              | 650           |
| FFS50612 | 3/8-16 X 1 1/2  | 100              | 600           |
| FFS50614 | 3/8-16 X 1 3/4  | 100              | 500           |
| FFS50616 | 3/8-16 X 2      | 100              | 400           |
| FFS50620 | 3/8-16 X 2 1/2  | 50               | 400           |
| FFS50624 | 3/8-16 X 3      | 50               | 350           |

# HEX FLANGE SCREWS & PLOW BOLTS

## HEX FLANGE SCREWS \*CONTINUED FROM PREVIOUS PAGE

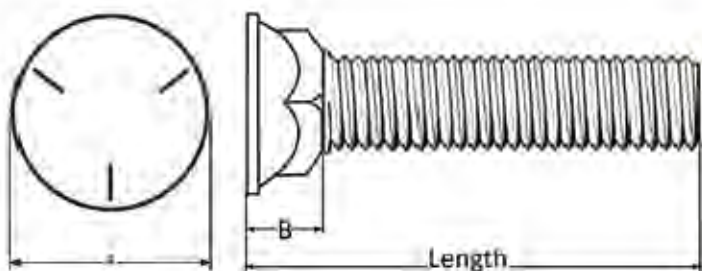
**SERRATED • GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FFS50712 | 7/16-14 X 1 1/2 | 50               | 400           |
| FFS50806 | 1/2-13 X 3/4    | 50               | 400           |
| FFS50808 | 1/2-13 X 1      | 50               | 300           |
| FFS50810 | 1/2-13 X 1 1/4  | 50               | 250           |

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FFS50812 | 1/2-13 X 1 1/2 | 50               | 200           |
| FFS50816 | 1/2-13 X 2     | 50               | 150           |
| FFS50820 | 1/2-13 X 2 1/2 | 50               | 125           |
| FFS50824 | 1/2-13 X 3     | 50               | 100           |

## PLOW BOLTS

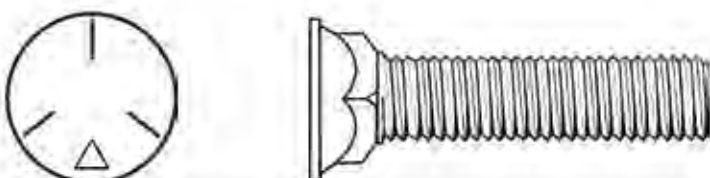
### TECHNICAL INFORMATION



### Dimensions

| Diameter | A     | B     | Width of Square |
|----------|-------|-------|-----------------|
| 3/8-16   | 0.671 | 0.296 | 0.383           |
| 7/16-14  | 0.781 | 0.346 | 0.446           |
| 1/2-13   | 0.890 | 0.396 | 0.508           |
| 5/8-11   | 1.094 | 0.481 | 0.633           |
| 3/4-10   | 1.250 | 0.516 | 0.758           |
| 7/8-9    | 1.469 | 0.595 | 0.890           |
| 1-8      | 1.656 | 0.659 | 1.015           |

**GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED**



Plow Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi.

| Part # | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|--------|-----------------|--------------------|--------------------|---------------|
| FP0608 | 3/8-16 X 1      | 25                 | 100                | 1200          |
| FP0610 | 3/8-16 X 1 1/4  | 25                 | 100                | 1000          |
| FP0612 | 3/8-16 X 1 1/2  | 25                 | 100                | 850           |
| FP0614 | 3/8-16 X 1 3/4  | 25                 | 100                | 725           |
| FP0616 | 3/8-16 X 2      | 25                 | 100                | 625           |
| FP0620 | 3/8-16 X 2 1/2  | 15                 | 50                 | 500           |
| FP0710 | 7/16-14 X 1 1/4 | 15                 | 50                 | 700           |
| FP0712 | 7/16-14 X 1 1/2 | 15                 | 50                 | 600           |
| FP0714 | 7/16-14 X 1 3/4 | 15                 | 50                 | 525           |
| FP0716 | 7/16-14 X 2     | 15                 | 50                 | 475           |
| FP0718 | 7/16-14 X 2 1/4 | 15                 | 50                 | 425           |
| FP0720 | 7/16-14 X 2 1/2 | 15                 | 50                 | 350           |
| FP0724 | 7/16-14 X 3     | 15                 | 50                 | 300           |

| Part # | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|--------|----------------|--------------------|--------------------|---------------|
| FP0810 | 1/2-13 X 1 1/4 | 15                 | 50                 | 525           |
| FP0812 | 1/2-13 X 1 1/2 | 15                 | 50                 | 450           |
| FP0814 | 1/2-13 X 1 3/4 | 15                 | 50                 | 400           |
| FP0816 | 1/2-13 X 2     | 15                 | 50                 | 350           |
| FP0818 | 1/2-13 X 2 1/4 | 15                 | 50                 | 300           |
| FP0820 | 1/2-13 X 2 1/2 | 15                 | 50                 | 275           |
| FP0824 | 1/2-13 X 3     | 15                 | 50                 | 225           |
| FP0828 | 1/2-13 X 3 1/2 | 10                 | 25                 | 200           |
| FP1012 | 5/8-11 X 1 1/2 | 10                 | 25                 | 275           |
| FP1016 | 5/8-11 X 2     | 10                 | 25                 | 225           |
| FP1024 | 5/8-11 X 3     | 10                 | 25                 | 150           |
| FP1028 | 5/8-11 X 3 1/2 | 10                 | 25                 | 125           |

# PLOW BOLTS

## OVERSIZE HEAD • GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

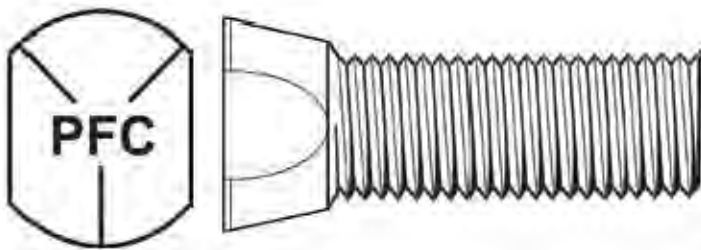
| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FPOH0612 | 3/8-16 X 1 1/2 | 25                 | 100                | 700           |

## GRADE 8 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED

Plow Bolts Grade 8 are manufactured to SAE J429 Grade 8 specs. They have a minimum tensile strength of 150,000 psi.

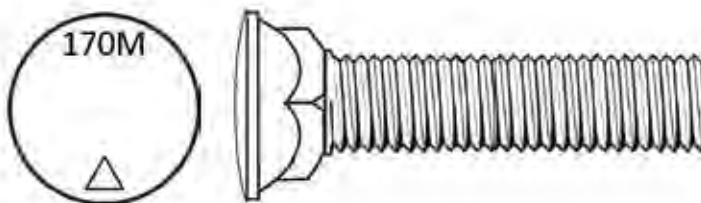
| Part #  | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|----------------|--------------------|--------------------|---------------|
| FP80814 | 1/2-13 X 1 3/4 | 15                 | 50                 | 400           |

## CLIPPED HEAD • GRADE 5 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED



| Part #   | Size            | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|--------------------|--------------------|---------------|
| FPCH0610 | 3/8-16 X 1 1/4  | 25                 | 100                | 1000          |
| FPCH0710 | 7/16-14 X 1 1/4 | 15                 | 50                 | 750           |
| FPCH0712 | 7/16-14 X 1 1/2 | 15                 | 50                 | 675           |
| FPCH0810 | 1/2-13 X 1 1/4  | 15                 | 50                 | 600           |
| FPCH0812 | 1/2-13 X 1 1/2  | 15                 | 50                 | 525           |

## DOME HEAD • 170M PSI TENSILE • COARSE THREAD • PLAIN FINISH • MADE IN CANADA (SCRAPER BLADE BOLTS)



| Part #   | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|--------------------|---------------|
| FSBB1016 | 5/8-11 X 2     | 10                 | 25                 | 200           |
| FSBB1018 | 5/8-11 X 2 1/4 | 10                 | 25                 | 175           |
| FSBB1020 | 5/8-11 X 2 1/2 | 10                 | 25                 | 175           |
| FSBB1024 | 5/8-11 X 3     | 10                 | 25                 | 150           |
| FSBB1028 | 5/8-11 X 3 1/2 | 10                 | 25                 | 125           |
| FSBB1220 | 3/4-10 X 2 1/2 | 5                  | 20                 | 125           |
| FSBB1224 | 3/4-10 X 3     | 5                  | 20                 | 100           |
| FSBB1228 | 3/4-10 X 3 1/2 | 5                  | 20                 | 90            |
| FSBB1422 | 7/8-9 X 2 3/4  | 5                  | 15                 | 75            |
| FSBB1424 | 7/8-9 X 3      | 5                  | 15                 | 70            |
| FSBB1428 | 7/8-9 X 3 1/2  | 5                  | 15                 | 60            |
| FSBB1628 | 1-8 X 3 1/2    | 5                  | 10                 | 45            |



# HEX TAP BOLTS

## GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED (FULLY THREADED)



Hex Tap Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Their dimensions are the same as Hex Bolts.

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FHTB0412 | 1/4-20 X 1 1/2 | 100              | 1825          |
| FHTB0414 | 1/4-20 X 1 3/4 | 100              | 1550          |
| FHTB0516 | 5/16-18 X 2    | 100              | 900           |
| FHTB0612 | 3/8-16 X 1 1/2 | 100              | 750           |
| FHTB0616 | 3/8-16 X 2     | 100              | 600           |

## GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED (FULLY THREADED)



Hex Tap Bolts Grade 5 are manufactured to SAE J429 Grade 5 specs. They have a minimum tensile strength of 120,000 psi. Their dimensions are the same as Hex Bolts.

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FHTB50412 | 1/4-20 X 1 1/2  | 100              | 1800          |
| FHTB50416 | 1/4-20 X 2      | 100              | 1375          |
| FHTB50424 | 1/4-20 X 3      | 100              | 950           |
| FHTB50512 | 5/16-18 X 1 1/2 | 100              | 1050          |
| FHTB50516 | 5/16-18 X 2     | 100              | 850           |
| FHTB50520 | 5/16-18 X 2 1/2 | 100              | 725           |
| FHTB50524 | 5/16-18 X 3     | 100              | 625           |
| FHTB50532 | 5/16-18 X 4     | 50               | 500           |
| FHTB50536 | 5/16-18 X 4 1/2 | 50               | 300           |
| FHTB50616 | 3/8-16 X 2      | 100              | 575           |
| FHTB50620 | 3/8-16 X 2 1/2  | 50               | 500           |
| FHTB50624 | 3/8-16 X 3      | 50               | 425           |
| FHTB50628 | 3/8 X 3 1/2     | 50               | 375           |
| FHTB50632 | 3/8-16 X 4      | 50               | 330           |
| FHTB50648 | 3/8-16 X 6      | 50               | 240           |
| FHTB50716 | 7/16-14 X 2     | 50               | 400           |
| FHTB50724 | 7/16-14 X 3     | 50               | 300           |
| FHTB50728 | 7/16-14 X 3 1/2 | 25               | 270           |
| FHTB50732 | 7/16-14 X 4     | 25               | 250           |
| FHTB50816 | 1/2-13 X 2      | 50               | 300           |

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FHTB50820 | 1/2-13 X 2 1/2 | 50               | 250           |
| FHTB50824 | 1/2-13 X 3     | 50               | 225           |
| FHTB50828 | 1/2-13 X 3 1/2 | 25               | 200           |
| FHTB50832 | 1/2-13 X 4     | 25               | 180           |
| FHTB50840 | 1/2-13 X 5     | 25               | 150           |
| FHTB50848 | 1/2-13 X 6     | 25               | 125           |
| FHTB50864 | 1/2-13 X 8     | -                | 50            |
| FHTB51024 | 5/8-11 X 3     | 25               | 130           |
| FHTB51028 | 5/8-11 X 3 1/2 | 25               | 120           |
| FHTB51032 | 5/8-11 X 4     | 25               | 110           |
| FHTB51040 | 5/8-11 X 5     | 20               | 90            |
| FHTB51048 | 5/8-11 X 6     | 20               | 75            |
| FHTB51224 | 3/4-10 X 3     | 20               | 85            |
| FHTB51228 | 3/4-10 X 3 1/2 | 20               | 80            |
| FHTB51232 | 3/4-10 X 4     | 20               | 70            |
| FHTB51240 | 3/4-10 X 5     | 15               | 60            |
| FHTB51248 | 3/4-10 X 6     | -                | 50            |
| FHTB51428 | 7/8-9 X 3 1/2  | 15               | 75            |

Grade 8 coarse thread hex tap bolts and grade 5 and 8 fine thread hex tap bolts are available in 1-2 days.

# HEX TAP BOLTS & STEP BOLTS

## HEX TAP BOLTS

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED (FULLY THREADED)



18-8 Stainless Steel Hex Tap Bolts have a minimum tensile strength of 100,000-125,000 psi. They have a minimum Rockwell hardness of B100. Their dimensions are the same as Hex Bolts.

| Part #     | Size            | Package Quantity |
|------------|-----------------|------------------|
| FSSHTB0416 | 1/4-20 X 2      | 100              |
| FSSHTB0420 | 1/4-20 X 2-1/2  | 100              |
| FSSHTB0720 | 7/16-14 X 2-1/2 | 50               |
| FSSHTB0824 | 1/2-13 X 3      | 50               |
| FSSHTB1024 | 5/8-11 X 3      | 25               |
| FSSHTB1040 | 5/8-11 X 5      | 20               |

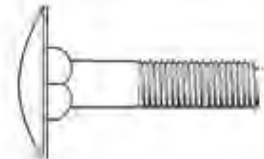
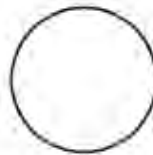
Don't see the size you're looking for? Call us for availability!

## STEP BOLTS

### GRADE 307A • COARSE THREAD • ZINC PLATED • IMPORTED

#### Head Dimensions

| Diameter | Head OD | Head Height |
|----------|---------|-------------|
| 1/4-20   | 0.828   | 0.135       |
| 5/16-18  | 1.015   | 0.166       |
| 3/8-16   | 1.203   | 0.198       |



Step Bolts Grade A307 are manufactured to ASTM A307 Grade A specs. They have a minimum tensile strength of 60,000 psi. Step Bolts are a Carriage Bolt with an extra large head.

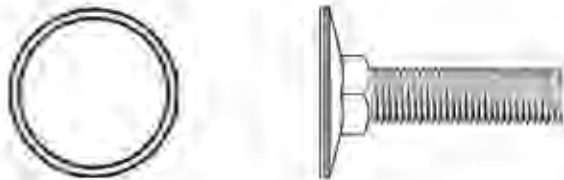
| Part #  | Size            | Package Quantity | Bulk Quantity |
|---------|-----------------|------------------|---------------|
| FSB0408 | 1/4-20 X 1      | 100              | 1000          |
| FSB0410 | 1/4-20 X 1 1/4  | 100              | 800           |
| FSB0412 | 1/4-20 X 1 1/2  | 100              | 800           |
| FSB0416 | 1/4-20 X 2      | 100              | 600           |
| FSB0424 | 1/4-20 X 3      | 100              | 400           |
| FSB0508 | 5/16-18 X 1     | 100              | 500           |
| FSB0512 | 5/16-18 X 1 1/2 | 100              | 450           |
| FSB0516 | 5/16-18 X 2     | 100              | 400           |
| FSB0520 | 5/16-18 X 2 1/2 | 100              | 300           |
| FSB0612 | 3/8-16 X 1 1/2  | 50               | 300           |
| FSB0616 | 3/8-16 X 2      | 50               | 250           |
| FSB0620 | 3/8-16 X 2 1/2  | 50               | 200           |
| FSB0624 | 3/8-16 X 3      | 50               | 200           |

# ELEVATOR BOLTS

## GRADE 1 • COARSE THREAD • ZINC PLATED • IMPORTED

### Head Dimensions

| Diameter | Head OD | Head Height |
|----------|---------|-------------|
| 1/4-20   | 0.969   | 0.088       |
| 5/16-18  | 1.188   | 0.104       |
| 3/8-16   | 1.312   | 0.135       |



Elevator Bolts Grade 1 are manufactured to SAE J429 Grade 1 specs. They have a minimum tensile strength of 60,000 psi.

| Part #  | Size            | Package Quantity | Bulk Quantity |
|---------|-----------------|------------------|---------------|
| FEB0410 | 1/4-20 X 1 1/4  | 100              | 1200          |
| FEB0516 | 5/16-18 X 2     | 100              | 500           |
| FEB0520 | 5/16-18 X 2 1/2 | 50               | 400           |
| FEB0612 | 3/8-16 X 1 1/2  | 100              | 450           |

## GRADE 1 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FEBP0408 | 1/4-20 X 1      | 100              | 1400          |
| FEBP0410 | 1/4-20 X 1 1/4  | 100              | 1200          |
| FEBP0412 | 1/4-20 X 1 1/2  | 100              | 1000          |
| FEBP0510 | 5/16-18 X 1 1/4 | 100              | 650           |
| FEBP0512 | 5/16-18 X 1 1/2 | 100              | 600           |
| FEBP0516 | 5/16-18 X 2     | 100              | 500           |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FSSEB0412 | 1/4-20 X 1 1/2 | 100              | 1000          |

# TURNED EYE BOLTS

## COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED



Eye Bolts are manufactured from low carbon steel. Size is measured on the outside of the thread by the over all length.

| Part #     | Size         | Eye ID | Thread Length | Stem Length | Package Quantity |
|------------|--------------|--------|---------------|-------------|------------------|
| FEYB0316   | 3/16 X 2     | 9/32   | 1 3/16        | 1 7/16      | 100              |
| FEYB0416   | 1/4 X 2      | 9/16   | 7/8           | 1 1/16      | 100              |
| FEYB0420   | 1/4 X 2 1/2  | 9/16   | 1 1/8         | 1 9/16      | 50               |
| FEYB0424   | 1/4 X 3      | 9/16   | 1 3/4         | 2           | 50               |
| FEYB0432   | 1/4 X 4      | 9/16   | 2 3/4         | 3           | 10               |
| FEYB043206 | 1/4 X 4      | 3/8    | 3             | 3 1/8       | 50               |
| FEYB0440   | 1/4 X 5      | 9/16   | 3 1/4         | 4           | 10               |
| FEYB0448   | 1/4 X 6      | 9/16   | 3 1/4         | 5           | 10               |
| FEYB0526   | 5/16 X 3 1/4 | 3/4    | 1 3/4         | 2           | 50               |
| FEYB0532   | 5/16 X 4     | 3/4    | 2 1/4         | 2 3/4       | 50               |
| FEYB0540   | 5/16 X 5     | 3/4    | 3 1/4         | 3 3/4       | 50               |
| FEYB0548   | 5/16 X 6     | 3/4    | 3 1/4         | 4 3/4       | 50               |
| FEYB0632   | 3/8 X 4      | 1      | 2 1/8         | 2 3/8       | 50               |
| FEYB0640   | 3/8 X 5      | 1      | 3 1/8         | 3 3/8       | 25               |
| FEYB0648   | 3/8 X 6      | 1      | 3 1/4         | 4 3/8       | 25               |
| FEYB0748   | 7/16 X 6 1/2 | 25/32  | 2 1/4         | 5           | 25               |
| FEYB0832   | 1/2 X 4      | 1 1/4  | 1 1/4         | 2           | 10               |
| FEYB0848   | 1/2 X 6      | 1 1/4  | 3 3/4         | 4           | 10               |
| FEYB0854   | 1/2 X 6 3/4  | 1 1/4  | 4 1/2         | 4 3/4       | 10               |
| FEYB10144  | 5/8 X 18     | 1 1/4  | 13 1/2        | 15 1/4      | 1                |

## 18-8 STAINLESS STEEL • COARSE THREAD • MADE IN USA

| Part #       | Size            | Eye ID | Thread Length | Stem Length | Package Quantity |
|--------------|-----------------|--------|---------------|-------------|------------------|
| FSSEYB01020  | 10-24 X 2 1/2   | 1/2    | 1 1/4         | 1 5/8       | 20               |
| FSSEYB0416   | 1/4-20 X 2      | 9/16   | 7/8           | 1 1/16      | 20               |
| FSSEYB0424   | 1/4-20 X 3      | 9/16   | 1 3/4         | 2           | 20               |
| FSSEYB0526   | 5/16-18 X 3 1/4 | 3/4    | 1 3/4         | 2           | 10               |
| FSSEYB0627   | 3/8-16 X 3 3/16 | 1      | 1 1/8         | 1 1/2       | 10               |
| FSSEYB0632   | 3/8-16 X 4      | 1      | 2 1/8         | 2 3/8       | 10               |
| FSSEYB064012 | 3/8-16 X 5      | 3/4    | 3             | 3 5/8       | 10               |
| FSSEYB0648   | 3/8-16 X 6      | 1      | 3 1/4         | 4 3/8       | 10               |

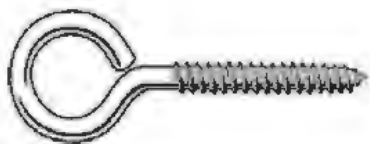
\*Lead time is 3-4 days on these sizes.

Don't see the size you're looking for? Call us for availability!

# EYE LAGS (SCREW EYES) & U-BOLTS

## EYE LAGS (SCREW EYES)

**ZINC PLATED • MADE IN USA OR IMPORTED**

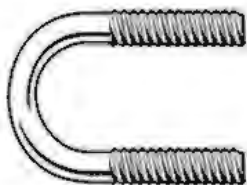


Eye lags are manufactured from low carbon steel. Size is measured on the outside of the thread by the over all length.

| Part #   | Size           | Eye ID | Thread Length | Stem Length | Package Quantity |
|----------|----------------|--------|---------------|-------------|------------------|
| FEYL0316 | 3/16 X 1 15/16 | 17/32  | 3/4           | 31/32       | 100              |
| FEYL421  | .262 X 2 5/8   | 23/32  | 7/8           | 1 5/16      | 50               |
| FEYL532  | 5/16 X 4       | 25/32  | 2             | 2 3/4       | 50               |
| FEYL636  | 3/8 X 4 1/2    | 3/4    | 1 3/4         | 3 1/16      | 10               |

## U-BOLTS

**ROUND BEND • COARSE THREAD • ZINC PLATED • MADE IN USA**



U-bolts are manufactured from low carbon steel. Size is measured on the outside of the thread by the inside width by the inside height. Round Bend U-Bolts come assembled with plates and nuts and Square Bend U-Bolts come assembled with washers and nuts unless otherwise noted.

| Part #     | Size                      | Thread Length | Package Qty |
|------------|---------------------------|---------------|-------------|
| FUB052235* | 5/16-18 X 1 3/8 X 2 3/16  | 1 1/8         | 50          |
| FUB052255P | 5/16-18 X 1 3/8 X 3 7/16  | 2 1/4         | 10          |
| FUB052843P | 5/16-18 X 1 3/4 X 2 11/16 | 1 3/8         | 10          |

\*Not stocked assembled with plates and nuts.

The round bend U-bolts on the following table are not stock items but are available in 2-3 days.

| Part #      | Size                    | Thread Length | Package Qty |
|-------------|-------------------------|---------------|-------------|
| FUB041220P  | 1/4-20 X 3/4 X 1 1/4    | 3/4           | 10          |
| FUB041236P  | 1/4-20 X 3/4 X 2 1/4    | 1 1/2         | 10          |
| FUB041244P  | 1/4-20 X 3/4 X 2 3/4    | 2             | 10          |
| FUB041832P  | 1/4-20 X 1 1/8 X 2      | 1             | 10          |
| FUB042244P  | 1/4-20 X 1 3/8 X 2 3/4  | 1 5/8         | 10          |
| FUB042260P  | 1/4-20 X 1 3/8 X 3 3/4  | 2 3/8         | 10          |
| FUB053243P  | 5/16-18 X 2 X 3         | 1 1/2         | 10          |
| FUB054051P  | 5/16-18 X 2 1/2 X 3 1/2 | 1 3/4         | 10          |
| FUB062846P  | 3/8-16 X 1 3/4 X 2 7/8  | 1 5/8         | 10          |
| FUB063250P  | 3/8-16 X 2 X 3 1/8      | 2             | 10          |
| FUB064058P  | 3/8-16 X 2 1/2 X 3 5/8  | 2             | 10          |
| FUB064866P  | 3/8-16 X 3 X 4 1/8      | 2             | 10          |
| FUB065678P  | 3/8-16 X 3 1/2 X 4 7/8  | 2             | 10          |
| FUB084880P  | 1/2-13 X 3 X 5          | 3             | 5           |
| FUB085688P  | 1/2-13 X 3 1/2 X 5 1/2  | 3             | 5           |
| FUB086496P  | 1/2-13 X 4 X 6          | 3             | 5           |
| FUB0872104P | 1/2-13 X 4 1/2 X 6 1/2  | 3             | 5           |

# U-BOLTS, HANGER BOLTS & DOWEL SCREWS

## U-BOLTS \*CONTINUED FROM PREVIOUS PAGE

### SQUARE BEND • COARSE THREAD • ZINC PLATED • MADE IN USA



| Part #        | Size                   | Thread Length | Package Quantity |
|---------------|------------------------|---------------|------------------|
| FUBSBZ061637  | 3/8-16 X 2 X 4 5/8     | 3             | 10               |
| FUBSBZ061653  | 3/8-16 X 2 X 6 5/8     | 3 3/4         | 10               |
| FUBSBZ063338* | 3/8-16 X 4 1/8 X 4 3/4 | 2 1/2         | 10               |

\*Not stocked assembled with washers and nuts.

The square bend U-bolts on the following table are not stock items but are available in 2-3 days.

| Part #       | Size               | Thread Length | Package Quantity |
|--------------|--------------------|---------------|------------------|
| FUBSBZ061621 | 3/8-16 X 2 X 2 5/8 | 1 1/2         | 10               |
| FUBSBZ063221 | 3/8-16 X 4 X 2 5/8 | 1 1/2         | 10               |
| FUBSBZ063237 | 3/8-16 X 4 X 4 5/8 | 3             | 10               |
| FUBSBZ063253 | 3/8-16 X 4 X 6 5/8 | 3 3/4         | 10               |
| FUBSBZ064837 | 3/8-16 X 6 X 4 5/8 | 3             | 10               |
| FUBSBZ064853 | 3/8-16 X 6 X 6 5/8 | 3 3/4         | 10               |
| FUBSBZ064869 | 3/8-16 X 6 X 8 5/8 | 5 5/8         | 10               |

Don't see the size you're looking for? Custom U-bolts are also available. Call us for price and availability!

## HANGER BOLTS

### COARSE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA



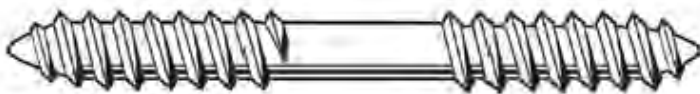
Hanger Bolts are manufactured from low carbon steel. Size is measured on the outside of the threads by the overall length.

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FHB0524  | 5/16-18 X 3     | 100              | 1500          |
| FHB0528  | 5/16-18 X 3 1/2 | 50               | 1200          |
| FHB0628* | 3/8 X 3 1/2     | 50               | 700           |

\* Plain finish

## DOWEL SCREWS

### PLAIN FINISH • MADE IN USA

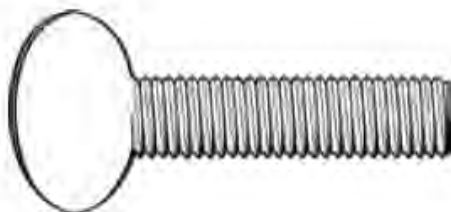


Dowel Screws are manufactured from low carbon steel. Size is measured on the outside of the threads by the overall length.

| Part #  | Size           | Package Quantity | Bulk Quantity |
|---------|----------------|------------------|---------------|
| FDS0420 | 1/4-10 X 2 1/2 | 100              | 2000          |

# THUMB SCREWS

## COARSE THREAD • ZINC PLATED • NO SHOULDER • IMPORTED

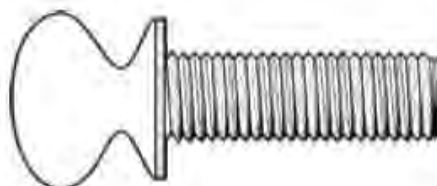


Thumb Screws with no shoulder are manufactured from low carbon steel to IFI-156 Type A specs. Size is measured on the outside of the threads by the length under the head.

| Part #   | Size            | Head Width | Head Height | Package Quantity |
|----------|-----------------|------------|-------------|------------------|
| FTSP0404 | 1/4-20 X 1/2    | 0.81       | 0.55        | 100              |
| FTSP0406 | 1/4-20 X 3/4    | 0.81       | 0.55        | 100              |
| FTSP0410 | 1/4-20 X 1 1/4* | 0.81       | 0.55        | 100              |
| FTSP0506 | 5/16-18 X 3/4   | 0.87       | 0.67        | 100              |
| FTSP0508 | 5/16-18 X 1*    | 0.87       | 0.67        | 100              |
| FTSP0608 | 3/8-16 X 1*     | 1.02       | 0.75        | 50               |

\*Non stock item. 4-6 day lead time.

## COARSE THREAD • ZINC PLATED • WITH SHOULDER • IMPORTED



Thumb Screws with a shoulder are manufactured from low carbon steel to IFI-156 Type B specs. Size is measured on the outside of the threads by the length under the shoulder.

| Part #   | Size             | Head Width | Head Height | Package Quantity |
|----------|------------------|------------|-------------|------------------|
| FTSS0406 | 1/4-20 X 3/4*    | 0.48       | 0.57        | 100              |
| FTSS0410 | 1/4-20 X 1 1/4** | 0.48       | 0.57        | 100              |
| FTSS0412 | 1/4-20 X 1 1/2   | 0.48       | 0.57        | 100              |
| FTSS0508 | 5/16-18 X 1      | 0.57       | 0.73        | 100              |
| FTSS0606 | 3/8-16 X 3/4     | 0.71       | 0.88        | 50               |
| FTSS0608 | 3/8-16 X 1*      | 0.71       | 0.88        | 50               |
| FTSS0612 | 3/8-16 X 1 1/2*  | 0.71       | 0.88        | 50               |

\*Non stock item. 4-6 day lead time.

\*\*This size is in stock in Plain Finish.

Don't see the size you're looking for? Call us for availability!

# STRUCTURAL BOLTS

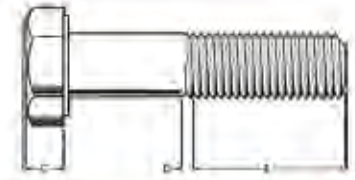
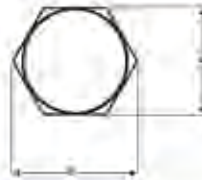
## TECHNICAL INFORMATION

### Rockwell Hardness

| Grade | Sizes       | Core Hardness Rockwell |
|-------|-------------|------------------------|
| A325  | 1/2-1       | C24-C35                |
| A325  | 1 1/8-1 1/2 | C19-C31                |
| A490  | ALL         | C33-C38                |

### Tensile Strengths

| Grade A325  | Grade A490  |
|-------------|-------------|
| 120,000 PSI | 150,000 PSI |



### Dimensions

| Bolt Diameter | A                  | B                    |       | C           | D                                  | E                        |
|---------------|--------------------|----------------------|-------|-------------|------------------------------------|--------------------------|
|               | WIDTH ACROSS FLATS | WIDTH ACROSS CORNERS |       | HEAD HEIGHT | BASIC THREAD LENGTH 6" AND SHORTER | TRANSITION THREAD LENGTH |
|               |                    | Max                  | Min   |             |                                    |                          |
| 1/2           | 7/8                | 1.010                | 0.969 | 5/16        | 1.00                               | 0.19                     |
| 5/8           | 1 1/16             | 1.227                | 1.175 | 25/64       | 1.25                               | 0.22                     |
| 3/4           | 1 1/4              | 1.443                | 1.383 | 15/32       | 1.38                               | 0.25                     |
| 7/8           | 1 7/16             | 1.600                | 1.589 | 35/64       | 1.50                               | 0.28                     |
| 1             | 1 5/8              | 1.876                | 1.796 | 39/64       | 1.75                               | 0.31                     |
| 1 1/8         | 1 13/16            | 2.093                | 2.002 | 11/16       | 2.00                               | 0.34                     |
| 1 1/4         | 2                  | 2.000                | 2.209 | 25/32       | 2.00                               | 0.38                     |
| 1 1/2         | 2 3/8              | 2.742                | 2.622 | 15/16       | 2.25                               | 0.44                     |

## GRADE A325 • COARSE THREAD • PLAIN FINISH • MADE IN CANADA OR IMPORTED



Structural Bolts are especially designed to bolt together steel joints in heavy construction.

| Part #      | Size           | Package Quantity | Bulk Quantity |
|-------------|----------------|------------------|---------------|
| FSBA3250810 | 1/2-13 X 1 1/4 | 50               | 1710          |
| FSBA3250812 | 1/2-13 X 1 1/2 | 50               | 1560          |
| FSBA3250814 | 1/2-13 X 1 3/4 | 50               | 1420          |
| FSBA3250816 | 1/2-13 X 2     | 50               | 1290          |
| FSBA3250860 | 1/2-13 X 7 1/2 | 1                | 250           |
| FSBA3251012 | 5/8-11 X 1 1/2 | 25               | 900           |
| FSBA3251014 | 5/8-11 X 1 3/4 | 25               | 850           |
| FSBA3251016 | 5/8-11 X 2     | 25               | 825           |
| FSBA3251018 | 5/8-11 X 2 1/4 | 25               | 775           |
| FSBA3251020 | 5/8-11 X 2 1/2 | 25               | 725           |
| FSBA3251064 | 5/8-11 X 8     | 1                | 175           |
| FSBA3251212 | 3/4-10 X 1 1/2 | 20               | 650           |
| FSBA3251214 | 3/4-10 X 1 3/4 | 20               | 600           |
| FSBA3251216 | 3/4-10 X 2     | 20               | 550           |
| FSBA3251218 | 3/4-10 X 2 1/4 | 20               | 500           |

| Part #      | Size           | Package Quantity | Bulk Quantity |
|-------------|----------------|------------------|---------------|
| FSBA3251220 | 3/4-10 X 2 1/2 | 20               | 475           |
| FSBA3251222 | 3/4-10 X 2 3/4 | 20               | 425           |
| FSBA3251224 | 3/4-10 X 3     | 20               | 400           |
| FSBA3251226 | 3/4-10 X 3 1/4 | 20               | 375           |
| FSBA3251228 | 3/4-10 X 3 1/2 | 20               | 350           |
| FSBA3251240 | 3/4-10 X 5     | 20               | 225           |
| FSBA3251248 | 3/4-10 X 6     | 1                | 190           |
| FSBA3251272 | 3/4-10 X 9     | 1                | 100           |
| FSBA3251414 | 7/8-9 X 1 3/4  | 15               | 450           |
| FSBA3251416 | 7/8-9 X 2      | 15               | 425           |
| FSBA3251420 | 7/8-9 X 2 1/2  | 15               | 350           |
| FSBA3251616 | 1-8 X 2        | 10               | 300           |
| FSBA3251618 | 1-8 X 2 1/4    | 10               | 275           |
| FSBA3251620 | 1-8 X 2 1/2    | 10               | 250           |



# STRUCTURAL BOLTS, SQUARE HEAD BOLTS & WHEEL BOLTS

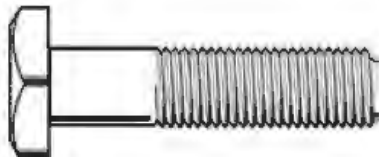
## STRUCTURAL BOLTS

**GRADE A325 • COARSE THREAD • HOT DIP GALVANIZED • MADE IN CANADA OR IMPORTED**

| Part #       | Size           | Package Quantity | Bulk Quantity |
|--------------|----------------|------------------|---------------|
| FSBA325G0810 | 1/2-13 X 1 1/4 | 50               | 1660          |
| FSBA325G1012 | 5/8-11 X 1 1/2 | 25               | 875           |
| FSBA325G1016 | 5/8-11 X 2     | 25               | 750           |
| FSBA325G1214 | 3/4-10 X 1 3/4 | 20               | 600           |
| FSBA325G1216 | 3/4-10 X 2     | 20               | 550           |
| FSBA325G1218 | 3/4-10 X 2 1/4 | 20               | 500           |
| FSBA325G1220 | 3/4-10 X 2 1/2 | 20               | 475           |
| FSBA325G1224 | 3/4-10 X 3     | 20               | 400           |
| FSBA325G1248 | 3/4-10 X 6     | 1                | 190           |
| FSBA325G1428 | 7/8-9 X 3 1/2  | 15               | 250           |

Don't see the size you're looking for? Call us for availability!

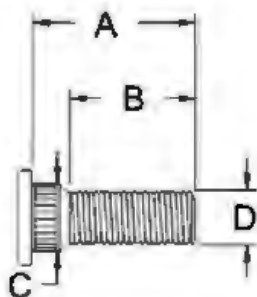
## SQUARE HEAD BOLTS



Square Head Bolts are available in grade A307, 5, and 8. They are also available in fine thread in grade 5 and 8. Lead time is 2-3 days on grade 5 and 8 and 3-6 days on Grade A307.

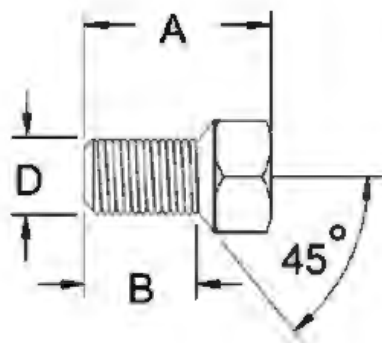
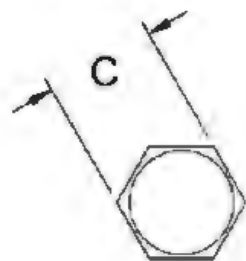
## WHEEL BOLTS

**KNURLED SHOULDER • GRADE 8 • FINE THREAD • ZINC PLATED • IMPORTED**



| Part #  | Diameter | Length    | Knurl Dia | Shoulder Length | Package Quantity |
|---------|----------|-----------|-----------|-----------------|------------------|
| AV14227 | 1/2-20   | 1.51/1.54 | .618/.628 | .31/.33         | 10               |

**HEX HEAD • TAPERED SHOULDER • GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED**



| Part #     | Size (D X A)    | C        | B             | Taper | Package Quantity |
|------------|-----------------|----------|---------------|-------|------------------|
|            |                 | HEX SIZE | THREAD LENGTH |       |                  |
| AV14225    | 1/2-20 X 1 1/2* | 3/4      | 15/16         | 30°   | 10               |
| EQ540-0820 | 1/2-20 X 1 1/2  | 3/4      | 1             | 45°   | 25               |
| EQ54000918 | 9/16-18 X 1 3/4 | 7/8      | 1 1/8         | 45°   | 25               |

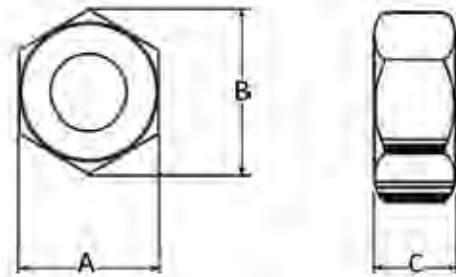
\*Grade 8

# HEX NUTS

## TECHNICAL INFORMATION

### Rockwell Hardness

| Grade | Core Hardness Rockwell |
|-------|------------------------|
| 2     | B69-B100               |
| 5     | C25-C34                |
| 8     | C33- C39               |
| 9     | C38-C42                |

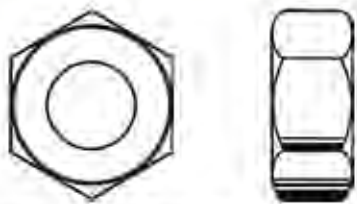


### Dimensions

| Thread Size | A     | B     | C (Grade 2, 5, & 8) | C (Grade 9) |
|-------------|-------|-------|---------------------|-------------|
| #1          | 5/32  | 0.175 | 3/64                | -           |
| #2          | 3/16  | 0.211 | 1/16                | -           |
| #3          | 3/16  | 0.211 | 1/16                | -           |
| #4          | 1/4   | 0.282 | 3/32                | -           |
| #5          | 5/16  | 0.352 | 7/64                | -           |
| #6          | 5/16  | 0.352 | 7/64                | -           |
| #8          | 11/32 | 0.387 | 1/8                 | -           |
| #10         | 3/8   | 0.423 | 1/8                 | -           |
| #12         | 7/16  | 0.493 | 5/32                | -           |
| 1/4         | 7/16  | 0.493 | 7/32                | -           |
| 5/16        | 1/2   | 0.567 | 17/64               | -           |
| 3/8         | 9/16  | 0.639 | 21/64               | -           |
| 7/16        | 11/16 | 0.781 | 3/8                 | -           |
| 1/2         | 3/4   | 0.853 | 7/16                | 9/16        |

| Thread Size | A       | B     | C (Grade 2, 5, & 8) | C (Grade 9) |
|-------------|---------|-------|---------------------|-------------|
| 9/16        | 7/8     | 0.986 | 31/64               | -           |
| 5/8         | 15/16   | 1.067 | 35/64               | 23/32       |
| 3/4         | 1 1/8   | 1.270 | 41/64               | 13/16       |
| 7/8         | 1 5/16  | 1.482 | 3/4                 | -           |
| 1           | 1 1/2   | 1.693 | 55/64               | -           |
| 1 1/8       | 1 11/16 | 1.904 | 31/32               | -           |
| 1 1/4       | 1 7/8   | 2.116 | 1 1/16              | -           |
| 1 3/8       | 2 1/16  | 2.328 | 1 11/64             | -           |
| 1 1/2       | 2 1/4   | 2.539 | 1 9/32              | -           |
| 1 5/8       | 2 7/16  | 2.751 | 1 25/64             | -           |
| 1 3/4       | 2 5/8   | 2.962 | 1 1/2               | -           |
| 1 7/8       | 2 13/16 | 3.174 | 1 5/8               | -           |
| 2           | 3       | 3.385 | 1 23/32             | -           |

## GRADE 2 • COARSE THREAD • ZINC PLATED • IMPORTED



Hex Nuts Grade A are manufactured to ASTM A563 specs. They are for use with any low carbon bolt or screw with a tensile strength of 74,000 psi or less.

| Part #  | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|------------------------|---------------|
| FHN2001 | #1-64   | 100                | 500                    | -             |
| FHN2004 | #4-40   | 100                | 500                    | 5000          |
| FHN2006 | #6-32   | 100                | 500                    | 20000         |
| FHN2008 | #8-32   | 100                | 500                    | 15000         |
| FHN2010 | #10-24  | 100                | 500                    | 13000         |
| FHN2012 | #12-24  | 100                | 500                    | 8000          |
| FHN204  | 1/4-20  | 100                | 1500                   | 6000          |
| FHN205  | 5/16-18 | 100                | 1000                   | 4000          |
| FHN206  | 3/8-16  | 100                | 700                    | 3000          |

| Part # | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|------------------------|---------------|
| FHN207 | 7/16-14 | 50                 | 400                    | 1500          |
| FHN208 | 1/2-13  | 50                 | 300                    | 1000          |
| FHN209 | 9/16-12 | 25                 | 125                    | 800           |
| FHN210 | 5/8-11  | 25                 | 150                    | 600           |
| FHN212 | 3/4-10  | 25                 | 100                    | 400           |
| FHN214 | 7/8-9   | 15                 | 75                     | 250           |
| FHN216 | 1-8     | 10                 | 50                     | 150           |
| FHN218 | 1 1/8-7 | 1                  | 50                     | 100           |
| FHN220 | 1 1/4-7 | 1                  | 40                     | 80            |

# HEX NUTS

## GRADE 2 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size   | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|----------|--------|--------------------|------------------------|---------------|
| FHN2F010 | #10-32 | 100                | 500                    | 13000         |

## GRADE 2 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FHN2P04 | 1/4-20  | 100                | 6000          |
| FHN2P05 | 5/16-18 | 100                | 4000          |
| FHN2P06 | 3/8-16  | 100                | 3000          |
| FHN2P07 | 7/16-14 | 50                 | 1500          |
| FHN2P08 | 1/2-13  | 50                 | 1000          |
| FHN2P09 | 9/16-12 | 25                 | 750           |

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FHN2P10 | 5/8-11  | 25                 | 650           |
| FHN2P12 | 3/4-10  | 25                 | 400           |
| FHN2P14 | 7/8-9   | 15                 | 250           |
| FHN2P16 | 1-8     | 10                 | 150           |
| FHN2P20 | 1 1/4-7 | 1                  | 80            |

## GRADE 2 • COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FHNG04 | 1/4-20  | 100                | 6000          |
| FHNG05 | 5/16-18 | 100                | 4000          |
| FHNG06 | 3/8-16  | 100                | 3000          |
| FHNG08 | 1/2-13  | 50                 | 1200          |
| FHNG10 | 5/8-11  | 25                 | 600           |
| FHNG12 | 3/4-10  | 25                 | 400           |

Don't see the size you're looking for? Call us for availability!

## GRADE 5 • COARSE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA

Hex Nuts Grade 5 are manufactured to J995 Grade 5 specs. They are for use with any grade 5 bolt or any bolt with a tensile strength of 120,000 psi or less.

| Part # | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|------------------------|---------------|
| FHN504 | 1/4-20  | 100                | 1500                   | 5000          |
| FHN505 | 5/16-18 | 100                | 1000                   | 3400          |
| FHN506 | 3/8-16  | 100                | 700                    | 1900          |
| FHN507 | 7/16-14 | 50                 | 400                    | 1200          |
| FHN508 | 1/2-13  | 50                 | 300                    | 900           |
| FHN509 | 9/16-12 | 25                 | 125                    | 600           |
| FHN510 | 5/8-11  | 25                 | 150                    | 500           |

| Part # | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|------------------------|---------------|
| FHN512 | 3/4-10  | 25                 | 100                    | 300           |
| FHN514 | 7/8-9   | 15                 | 75                     | 180           |
| FHN516 | 1-8     | 10                 | 50                     | 130           |
| FHN518 | 1 1/8-7 | 1                  | 55                     | 110           |
| FHN520 | 1 1/4-7 | 1                  | 45                     | 90            |
| FHN524 | 1 1/2-6 | 1                  | 28                     | 55            |
| FHN528 | 1 3/4-5 | 1                  | 13                     | 25            |

## GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED OR MADE IN USA

| Part #  | Size   | Shop Pack Quantity | Bulk Quantity |
|---------|--------|--------------------|---------------|
| FHN5F08 | 1/2-20 | 50                 | 900           |
| FHN5F10 | 5/8-18 | 25                 | 500           |
| FHN5F12 | 3/4-16 | 25                 | 300           |
| FHN5F14 | 7/8-14 | 15                 | 180           |
| FHN5F16 | 1-14   | 10                 | 130           |

| Part #  | Size     | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|
| FHN5F18 | 1 1/8-12 | 1                  | 110           |
| FHN5F20 | 1 1/4-12 | 1                  | 90            |

Please see our selection of grade 8 fine thread hex nuts for sizes not listed in grade 5.

# HEX NUTS

## GRADE 5 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #  | Size   | Shop Pack Quantity | Bulk Quantity |
|---------|--------|--------------------|---------------|
| FHN5P10 | 5/8-11 | 25                 | 450           |

Don't see the size you're looking for? Call us for availability!

## GRADE 8 • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED OR MADE IN USA

Hex Nuts Grade 8 are manufactured to J995 Grade 8 specs. They are for use with any grade 8 bolt or any bolt with a tensile strength of 150,000 psi or less.

| Part # | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|------------------------|---------------|
| FHN804 | 1/4-20  | 100                | 500                    | 5000          |
| FHN805 | 5/16-18 | 100                | 500                    | 3400          |
| FHN806 | 3/8-16  | 100                | 500                    | 1900          |
| FHN807 | 7/16-14 | 50                 | 250                    | 1200          |
| FHN808 | 1/2-13  | 50                 | 250                    | 900           |
| FHN809 | 9/16-12 | 25                 | 125                    | 600           |
| FHN810 | 5/8-11  | 25                 | 125                    | 500           |
| FHN812 | 3/4-10  | 25                 | 125                    | 300           |
| FHN814 | 7/8-9   | 15                 | 75                     | 180           |

| Part # | Size        | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|-------------|--------------------|------------------------|---------------|
| FHN816 | 1-8         | 10                 | 50                     | 130           |
| FHN818 | 1 1/8-7     | 1                  | 40                     | 75            |
| FHN820 | 1 1/4-7     | 1                  | 25                     | 50            |
| FHN822 | 1 3/8-6     | 1                  | 35                     | 65            |
| FHN824 | 1 1/2-6     | 1                  | 30                     | 55            |
| FHN826 | 1 5/8-5 1/2 | 1                  | -                      | -             |
| FHN828 | 1 3/4-5     | 1                  | 15                     | 25            |
| FHN832 | 2-4 1/2     | 1                  | 15                     | 25            |

## GRADE 8 • FINE THREAD • YELLOW ZINC PLATED • IMPORTED OR MADE IN USA

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FHN8F04 | 1/4-28  | 100                | 5000          |
| FHN8F05 | 5/16-24 | 100                | 3400          |
| FHN8F06 | 3/8-24  | 100                | 1900          |
| FHN8F07 | 7/16-20 | 50                 | 1200          |
| FHN8F08 | 1/2-20  | 50                 | 900           |
| FHN8F09 | 9/16-18 | 25                 | 600           |
| FHN8F10 | 5/8-18  | 25                 | 500           |
| FHN8F12 | 3/4-16  | 25                 | 300           |
| FHN8F14 | 7/8-14  | 15                 | 180           |

| Part #  | Size     | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|
| FHN8F16 | 1-14     | 10                 | 130           |
| FHN8F18 | 1 1/8-12 | 1                  | 75            |
| FHN8F20 | 1 1/4-12 | 1                  | 50            |
| FHN8F22 | 1 3/8-12 | 1                  | 70            |
| FHN8F24 | 1 1/2-12 | 1                  | 55            |
| FHN8F28 | 1 3/4-12 | 1                  | 24            |
| FHN8F30 | 1 7/8-12 | 1                  | -             |
| FHN8F32 | 2-12     | 1                  | 25            |

## THICK • GRADE 9 • COARSE THREAD • YELLOW ZINC PLATED • MADE IN USA



Hex Nuts Grade 9 are made as a thick hex nut. They are for use with any grade 9 bolt or any bolt with a tensile strength of 180,000 psi or less.

| Part # | Size   | Shop Pack Quantity | Bulk Quantity |
|--------|--------|--------------------|---------------|
| FHN908 | 1/2-13 | 50                 | 1250          |
| FHN910 | 5/8-11 | 25                 | 600           |
| FHN912 | 3/4-10 | 25                 | 325           |

# HEX NUTS

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FSSHN006 | 6-32    | 100                | 20000         |
| FSSHN008 | 8-32    | 100                | 15000         |
| FSSHN010 | 10-24   | 100                | 13000         |
| FSSHN04  | 1/4-20  | 100                | 6000          |
| FSSHN05  | 5/16-18 | 100                | 4000          |
| FSSHN06  | 3/8-16  | 100                | 3000          |
| FSSHN07  | 7/16-14 | 50                 | 1500          |
| FSSHN08  | 1/2-13  | 50                 | 1000          |
| FSSHN09  | 9/16-12 | 25                 | 800           |
| FSSHN10  | 5/8-11  | 25                 | 600           |
| FSSHN12  | 3/4-10  | 25                 | 400           |
| FSSHN14  | 7/8-9   | 15                 | 250           |
| FSSHN16  | 1-8     | 10                 | 150           |

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #    | Size    | Shop Pack Quantity | Bulk Quantity |
|-----------|---------|--------------------|---------------|
| FSSHNF010 | 10-32   | 100                | 13000         |
| FSSHNF04  | 1/4-28  | 100                | 6000          |
| FSSHNF05  | 5/16-24 | 100                | 4000          |
| FSSHNF06  | 3/8-24  | 100                | 3000          |
| FSSHNF08  | 1/2-20  | 50                 | 1000          |
| FSSHNF09  | 9/16-18 | 25                 | 800           |
| FSSHNF10  | 5/8-18  | 25                 | 600           |
| FSSHNF12  | 3/4-16  | 25                 | 400           |

## ALUMINUM • COARSE THREAD • IMPORTED

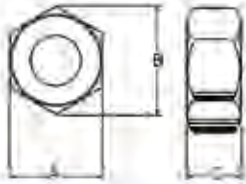
| Part # | Size   | Shop Pack Quantity |
|--------|--------|--------------------|
| FAHN06 | 3/8-16 | 100                |

Don't see the size you're looking for? Call us for availability!

# HEX JAM NUTS

## TECHNICAL INFORMATION

### Dimensions



Hex Jam Nuts are designed to "jam" against a regular hex nut to provide a locking action. They are also good for use anywhere where the thread space available for a nut is limited.

| Thread Size | A     | B     | C    |
|-------------|-------|-------|------|
| 1/4         | 7/16  | 0.493 | 5/32 |
| 5/16        | 1/2   | 0.567 | 3/16 |
| 3/8         | 9/16  | 0.639 | 7/32 |
| 7/16        | 11/16 | 0.781 | 1/4  |
| 1/2         | 3/4   | 0.853 | 5/16 |
| 9/16        | 13/16 | 0.986 | 5/16 |
| 5/8         | 15/16 | 1.067 | 3/8  |

| Thread Size | A       | B     | C     |
|-------------|---------|-------|-------|
| 3/4         | 1 1/8   | 1.270 | 27/64 |
| 7/8         | 1 5/16  | 1.482 | 31/64 |
| 1           | 1 1/2   | 1.693 | 35/64 |
| 1 1/8       | 1 11/16 | 1.904 | 39/64 |
| 1 1/4       | 1 7/8   | 2.116 | 23/32 |
| 1 3/8       | 2 1/16  | 2.328 | 25/32 |
| 1 1/2       | 2 1/4   | 2.539 | 27/32 |

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FJN04  | 1/4-20  | 100                | 9000          |
| FJN05  | 5/16-18 | 100                | 6000          |
| FJN06  | 3/8-16  | 100                | 4000          |
| FJN07  | 7/16-14 | 50                 | 2200          |
| FJN08  | 1/2-13  | 50                 | 1800          |
| FJN09  | 9/16-12 | 25                 | 1500          |
| FJN10  | 5/8-11  | 25                 | 800           |

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FJN12  | 3/4-10  | 25                 | 600           |
| FJN14  | 7/8-9   | 15                 | 400           |
| FJN16  | 1-8     | 10                 | 250           |
| FJN18  | 1 1/8-7 | 10                 | 200           |
| FJN20  | 1 1/4-7 | 10                 | 125           |
| FJN22  | 1 3/8-6 | 5                  | 100           |

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size                | Shop Pack Quantity | Bulk Quantity |
|---------|---------------------|--------------------|---------------|
| FJNF04  | 1/4-28              | 100                | 9000          |
| FJNF05  | 5/16-24             | 100                | 6000          |
| FJNF06  | 3/8-24              | 100                | 4000          |
| FJNF07  | 7/16-20             | 50                 | 2200          |
| FJNF08  | 1/2-20              | 50                 | 1800          |
| FJNF09  | 9/16-18             | 25                 | 1000          |
| FJNF10  | 5/8-18              | 25                 | 800           |
| FJNFP10 | 5/8-18 PLAIN FINISH | 25                 | 800           |

| Part # | Size           | Shop Pack Quantity | Bulk Quantity |
|--------|----------------|--------------------|---------------|
| FJNF10 | 5/8-18 GRADE 5 | 25                 | 1000          |
| FJNF12 | 3/4-16         | 25                 | 600           |
| FJNF14 | 7/8-14         | 15                 | 400           |
| FJNF16 | 1-14           | 10                 | 250           |
| FJNF18 | 1 1/8-12       | 10                 | 200           |
| FJNF20 | 1 1/4-12       | 10                 | 125           |
| FJNF24 | 1 1/2-12       | 5                  | 75            |

Jam nuts coarse & fine thread in grade 5 & 8 are available in 2-3 days.

# HEX JAM NUTS & HEAVY HEX NUTS

## HEX JAM NUTS

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

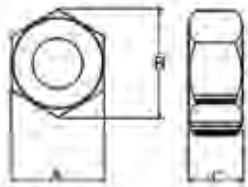
| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FSSJN04 | 1/4-20  | 100                | 9000          |
| FSSJN05 | 5/16-18 | 100                | 6000          |
| FSSJN06 | 3/8-16  | 100                | 4000          |
| FSSJN08 | 1/2-13  | 50                 | 1800          |

### 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FSSJNF04 | 1/4-28  | 100                | 9000          |
| FSSJNF05 | 5/16-24 | 100                | 6000          |
| FSSJNF06 | 3/8-24  | 100                | 4000          |
| FSSJNF07 | 7/16-20 | 50                 | 2200          |
| FSSJNF08 | 1/2-20  | 50                 | 1800          |

## HEAVY HEX NUTS

### TECHNICAL INFORMATION



### Rockwell Hardness

| Grade     | Hardness Rockwell |
|-----------|-------------------|
| A         | B68-C32           |
| A563C     | B78-C38           |
| 2H/DH/DH3 | C24-C38           |

### Dimensions

| Thread Size | A       | B     | C       |
|-------------|---------|-------|---------|
| 1/4         | 1/2     | 0.567 | 15/64   |
| 5/16        | 9/16    | 0.636 | 19/64   |
| 3/8         | 11/16   | 0.779 | 23/64   |
| 7/16        | 3/4     | 0.848 | 27/64   |
| 1/2         | 7/8     | 0.990 | 31/64   |
| 9/16        | 15/16   | 1.060 | 35/64   |
| 5/8         | 1 1/16  | 1.201 | 39/64   |
| 3/4         | 1 1/4   | 1.413 | 47/64   |
| 7/8         | 1 7/16  | 1.625 | 55/64   |
| 1           | 1 5/8   | 1.836 | 63/64   |
| 1 1/8       | 1 13/16 | 2.048 | 1 7/64  |
| 1 1/4       | 2       | 2.259 | 1 7/32  |
| 1 3/8       | 2 3/16  | 2.471 | 1 11/32 |
| 1 1/2       | 2 3/8   | 2.682 | 1 15/32 |

# HEAVY HEX NUTS

## GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED



Heavy Hex Nuts A563 Grade A are stronger than a grade 2 hex nut with their thicker and wider dimensions. They are recommended for use with a low carbon heavy hex bolt or anywhere where extra strength is desired.

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FHHN04 | 1/4-20  | 100                | 4000          |
| FHHN05 | 5/16-18 | 100                | 3000          |
| FHHN06 | 3/8-16  | 100                | 1500          |
| FHHN08 | 1/2-13  | 50                 | 700           |
| FHHN09 | 9/16-12 | 25                 | 500           |

## GRADE A • COARSE THREAD • PLAIN FINISH IMPORTED

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FHHNP06 | 3/8-16  | 100                | 1500          |
| FHHNP07 | 7/16-14 | 50                 | 1000          |
| FHHNP08 | 1/2-13  | 50                 | 800           |
| FHHNP10 | 5/8-11  | 25                 | 400           |
| FHHNP12 | 3/4-10  | 25                 | 250           |
| FHHNP16 | 1-8     | 10                 | 100           |

## A563 GRADE C • COARSE THREAD • PLAIN FINISH • IMPORTED

Heavy Hex Nuts A563 Grade C are stronger than a grade 5 hex nut with their thicker and wider dimensions. They are recommended for use with an A325 structural bolt or anywhere where extra strength is desired.

\*Grade 2H nuts. Grade 2H nuts can be used with A325 or A490 structural bolts.

| Part #       | Size    | Shop Pack Quantity | Bulk Quantity |
|--------------|---------|--------------------|---------------|
| FHHSNA563C08 | 1/2-13  | 50                 | 600           |
| FHHSNA563C10 | 5/8-11  | 25                 | 325           |
| FHHSN2H10    | 5/8-11* | 25                 | 400           |
| FHHSNA563C12 | 3/4-10  | 25                 | 200           |
| FHHSN2H14    | 7/8-9*  | 15                 | 150           |
| FHHSNA563C16 | 1-8     | 10                 | 90            |

## GRADE 2H OR DH • COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

Heavy Hex Nuts A194 Grade 2H and A563 Grade DH are structural nuts for use with A325 hot dip galvanized structural bolts.

Don't see the size you're looking for? Call us for availability!

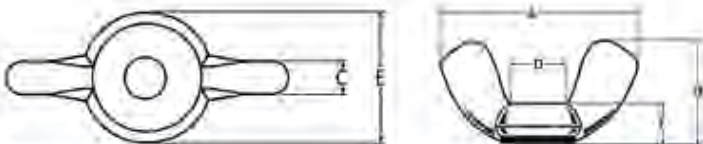
| Part #     | Size   | Shop Pack Quantity | Bulk Quantity |
|------------|--------|--------------------|---------------|
| FHHSN2HG08 | 1/2-13 | 50                 | 700           |
| FHHSN2HG10 | 5/8-11 | 25                 | 400           |
| FHHSN2HG12 | 3/4-10 | 25                 | 250           |
| FHHSNDHG16 | 1-8    | 10                 | 100           |



# COLD FORGED WING NUTS

## TECHNICAL INFORMATION

### Dimensions



Wing Nuts are designed for use where frequent assembly and disassembly is needed and the torque achieved by hand tightening is sufficient.

| Thread Size | A    |      | B    |      | C    |      |
|-------------|------|------|------|------|------|------|
|             | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  |
| #6-32       | 0.72 | 0.59 | 0.41 | 0.28 | 0.22 | 0.07 |
| #8-32       | 0.91 | 0.78 | 0.47 | 0.34 | 0.14 | 0.10 |
| #10-24      | 0.91 | 0.78 | 0.47 | 0.34 | 0.14 | 0.10 |
| 1/4         | 1.10 | 0.97 | 0.57 | 0.43 | 0.18 | 0.14 |
| 5/16        | 1.25 | 1.12 | 0.66 | 0.53 | 0.21 | 0.17 |
| 3/8         | 1.44 | 1.31 | 0.79 | 0.65 | 0.24 | 0.20 |
| 7/16        | 1.94 | 1.81 | 1.00 | 0.87 | 0.33 | 0.26 |
| 1/2         | 1.94 | 1.81 | 1.00 | 0.87 | 0.33 | 0.26 |

| Thread Size | D    |      | E    |      | F    |      |
|-------------|------|------|------|------|------|------|
|             | MAX  | MIN  | MAX  | MIN  | MAX  | MIN  |
| #6-32       | 0.21 | 0.17 | 0.33 | 0.29 | 0.14 | 0.10 |
| #8-32       | 0.27 | 0.22 | 0.43 | 0.39 | 0.18 | 0.14 |
| #10-24      | 0.27 | 0.22 | 0.43 | 0.39 | 0.18 | 0.14 |
| 1/4         | 0.33 | 0.26 | 0.50 | 0.45 | 0.22 | 0.17 |
| 5/16        | 0.39 | 0.32 | 0.58 | 0.51 | 0.25 | 0.20 |
| 3/8         | 0.48 | 0.42 | 0.70 | 0.64 | 0.30 | 0.26 |
| 7/16        | 0.65 | 0.54 | 0.93 | 0.86 | 0.39 | 0.35 |
| 1/2         | 0.65 | 0.54 | 0.93 | 0.86 | 0.39 | 0.35 |

### LOW CARBON • COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FWN006 | 6-32    | 100                | 10000         |
| FWN008 | 8-32    | 100                | 5000          |
| FWN010 | 10-24   | 100                | 5000          |
| FWN04  | 1/4-20  | 100                | 2500          |
| FWN05  | 5/16-18 | 100                | 1500          |
| FWN06  | 3/8-16  | 100                | 1000          |
| FWN07  | 7/16-14 | 50                 | 400           |
| FWN08  | 1/2-13  | 50                 | 400           |

### LOW CARBON • FINE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FWNF010 | 10-32   | 100                | 5000          |
| FWNF04  | 1/4-28  | 100                | -             |
| FWNF05  | 5/16-24 | 100                | -             |

# T-PRONGED NUTS & REGULAR SQUARE NUTS

## T-PRONGED NUTS

**COARSE THREAD • ZINC PLATED • IMPORTED**



T-Pronged Nuts are used to fasten metal products to wood, particle board, and plastic. Size is measured as thread size by barrel length under the Flange.

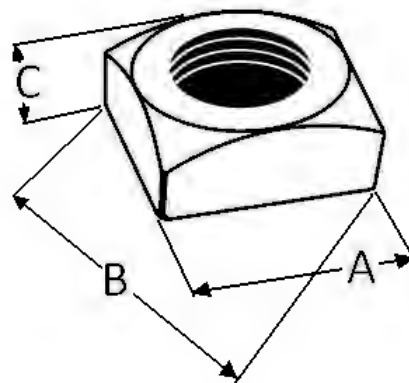
| Part #  | Size          | # of Prongs | Flange Diameter | Shop Pack Quantity | Bulk Quantity |
|---------|---------------|-------------|-----------------|--------------------|---------------|
| FTN006  | 6-32 X 1/4    | 3           | 1/2             | 100                | -             |
| FTN010  | 10-24 X 5/16  | 3           | 3/4             | 100                | 6000          |
| FTN04   | 1/4-20 X 5/16 | 3           | 3/4             | 100                | 5000          |
| FTN0474 | 1/4-20 X 7/16 | 4           | 3/4             | 100                | 4000          |

| Part #  | Size          | # of Prongs | Flange Diameter | Shop Pack Quantity | Bulk Quantity |
|---------|---------------|-------------|-----------------|--------------------|---------------|
| FTN0494 | 1/4-20 X 9/16 | 4           | 3/4             | 100                | 4000          |
| FTN0506 | 5/16-18 X 3/8 | 3           | 7/8             | 100                | 3000          |
| FTN05   | 5/16-18 X 5/8 | 3           | 7/8             | 100                | 2500          |
| FTN06   | 3/8-16 X 7/16 | 4           | 1               | 100                | 1800          |

## REGULAR SQUARE NUTS

### Dimensions

| Thread Size | A     | B     | C     |
|-------------|-------|-------|-------|
| 1/4         | 7/16  | 0.587 | 7/32  |
| 5/16        | 9/16  | 0.758 | 17/64 |
| 3/8         | 5/8   | 0.843 | 21/64 |
| 7/16        | 3/4   | 1.016 | 3/8   |
| 1/2         | 13/16 | 1.101 | 7/16  |
| 5/8         | 1     | 1.357 | 35/64 |
| 3/4         | 1 1/8 | 1.528 | 21/32 |
| 1           | 1 1/2 | 2.041 | 7/8   |



### GRADE 2 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FSQN04 | 1/4-20  | 100                | 6,000         |
| FSQN05 | 5/16-18 | 100                | 3,000         |
| FSQN06 | 3/8-16  | 100                | 1,500         |
| FSQN08 | 1/2-13  | 50                 | 750           |

Square Nuts are used to give an "old fashioned" look and in some cases where there is a square hole designed to hold a square nut.

Square Nuts are also available in Grade 5 and Grade 8 in 2-3 days.

### GRADE 2 • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FSQNP04 | 1/4-20  | 100                | 5000          |
| FSQNP05 | 5/16-18 | 100                | 2500          |
| FSQNP06 | 3/8-16  | 100                | 1500          |
| FSQNP07 | 7/16-14 | 50                 | 1000          |

| Part #  | Size   | Shop Pack Quantity | Bulk Quantity |
|---------|--------|--------------------|---------------|
| FSQNP08 | 1/2-13 | 50                 | 750           |
| FSQNP10 | 5/8-11 | 25                 | 400           |
| FSQNP12 | 3/4-10 | 25                 | 250           |
| FSQNP16 | 1-8    | 10                 | 125           |

# COUPLING NUTS & ACORN CAP NUTS

## COUPLING NUTS

**GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED**



Coupling Nuts are used to join together two threaded parts, often threaded rod. Size is given here as thread size by width across the flats by over all length.

| Part #   | Size                  | Price Break | Bulk Quantity |
|----------|-----------------------|-------------|---------------|
| FCN01012 | 10-24 X 5/16 X 3/4    | 100         | 3500          |
| FCN0414  | 1/4-20 X 3/8 X 7/8    | 100         | 2500          |
| FCN0428  | 1/4-20 X 7/16 X 1 3/4 | 100         | 700           |
| FCN0518  | 5/16-18 X 1/2 X 1 1/8 | 100         | 500           |
| FCN0528  | 5/16-18 X 1/2 X 1 3/4 | 100         | 600           |
| FCN0618  | 3/8-16 X 5/8 X 1 1/8  | 100         | 500           |
| FCN0628  | 3/8-16 X 9/16 X 1 3/4 | 100         | 500           |

| Part #  | Size                   | Price Break | Bulk Quantity |
|---------|------------------------|-------------|---------------|
| FCN0728 | 7/16-14 X 5/8 X 1 3/4  | 100         | 450           |
| FCN0828 | 1/2-13 X 11/16 X 1 3/4 | 100         | 400           |
| FCN1034 | 5/8-11 X 13/16 X 2 1/8 | 100         | 125           |
| FCN1236 | 3/4-10 X 1 X 2 1/4     | -           | 100           |
| FCN1440 | 7/8-9 X 1 1/4 X 2 1/2  | -           | 75            |
| FCN1644 | 1-8 X 1 3/8 X 2 3/4    | -           | 50            |
| FCN2048 | 1 1/4-7 X 1 5/8 X 3    | -           | 20            |
| FCN2464 | 1 1/2-6 X 2 X 4        | -           | 20            |

**GRADE A • FINE THREAD • ZINC PLATED • IMPORTED**

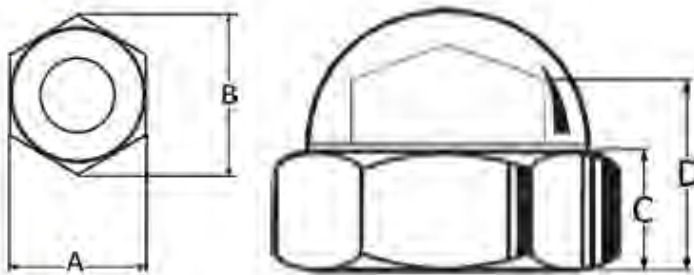
| Part #   | Size                   | Package Quantity |
|----------|------------------------|------------------|
| FCNF0407 | 1/4-28 X 3/8 X 7/8     | 50               |
| FCNF0507 | 5/16-24 X 7/16 X 7/8   | 50               |
| FCNF0609 | 3/8-24 X 1/2 X 1 1/8   | 50               |
| FCNF0810 | 1/2-20 X 5/8 X 1 1/4   | 50               |
| FCNF1017 | 5/8-18 X 13/16 X 2 1/8 | 20               |
| FCNF1218 | 3/4-16 X 1 X 2 1/4     | 20               |

## ACORN CAP NUTS

### TECHNICAL INFORMATION

#### Dimensions

| Thread Size | HEX HEIGHT |       |      | DRILL DEPTH |
|-------------|------------|-------|------|-------------|
|             | A          | B     | C    | D           |
| #8          | 5/16       | 0.533 | 7/64 | 7/32        |
| #10         | 3/8        | 0.640 | 1/8  | 5/16        |
| 1/4         | 7/16       | 0.746 | 3/16 | 23/64       |
| 5/16        | 9/16       | 0.961 | 7/32 | 27/64       |
| 3/8         | 5/8        | 1.068 | 1/4  | 29/64       |
| 7/16        | 11/16      | 1.150 | 5/16 | 9/16        |
| 1/2         | 3/4        | 1.286 | -    | 1/2         |
| 5/8         | 15/16      | 1.602 | -    | 5/8         |



# ACORN CAP NUTS & HEX SLOTTED NUTS

## ACORN CAP NUTS \*CONTINUED FROM PREVIOUS PAGE

**LOW CARBON • COARSE THREAD •  
NICKEL PLATED • IMPORTED**

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FCN2P006 | 6-32    | 100                | 8000          |
| FCN2P008 | 8-32    | 100                | 8000          |
| FCN2P010 | 10-24   | 100                | 5000          |
| FCN2P04  | 1/4-20  | 100                | 3750          |
| FCN2P05  | 5/16-18 | 100                | 1800          |
| FCN2P06  | 3/8-16  | 100                | 1250          |
| FCN2P07  | 7/16-14 | 50                 | 500           |
| FCN2P08  | 1/2-13  | 50                 | 500           |
| FCN2P10  | 5/8-11  | 25                 | 500           |

**18-8 STAINLESS STEEL •  
COARSE THREAD • IMPORTED**

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FSSAN04 | 1/4-20  | 100                | 3750          |
| FSSAN05 | 5/16-18 | 100                | 1800          |
| FSSAN06 | 3/8-16  | 100                | 1250          |
| FSSAN08 | 1/2-13  | 50                 | 600           |

\*Plain Finish.

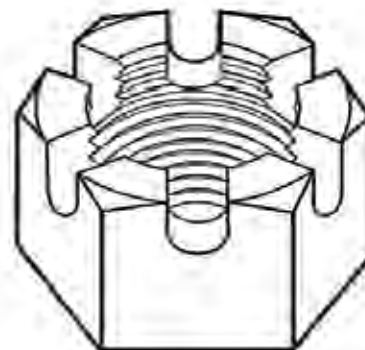
Don't see the size you're looking for? Call us for availability!

Acorn Nuts or Cap Nuts are used to cover projecting thread and for decorative purposes.

## HEX SLOTTED NUTS

**COARSE THREAD • PLAIN FINISH • IMPORTED**

| Part # | Size    | WIDTH OF SLOT |      | Price Break | Bulk Quantity |
|--------|---------|---------------|------|-------------|---------------|
|        |         | Max           | Min  |             |               |
| FSN05  | 5/16-18 | 0.12          | 0.09 | 100         | 2000          |
| FSN06  | 3/8-16  | 0.15          | 0.12 | 100         | 1500          |
| FSN07  | 7/16-14 | 0.15          | 0.12 | 100         | 1000          |
| FSN08  | 1/2-13  | 0.18          | 0.15 | 100         | 650           |
| FSN10  | 5/8-11  | 0.24          | 0.18 | 100         | 350           |
| FSN12  | 3/4-10  | 0.24          | 0.18 | 100         | 200           |
| FSN14  | 7/8-9   | 0.24          | 0.18 | 100         | 125           |
| FSN16  | 1-8     | 0.30          | 0.24 | -           | 100           |
| FSN18  | 1 1/8-7 | 0.33          | 0.24 | -           | 60            |
| FSN20  | 1 1/4-7 | 0.40          | 0.31 | -           | 50            |



Slotted Nuts are made of low carbon steel. Their dimensions are equal to a finished hex nut.

**FINE THREAD • PLAIN FINISH • IMPORTED**

| Part # | Size     | WIDTH OF SLOT |      | Price Break | Bulk Quantity |
|--------|----------|---------------|------|-------------|---------------|
|        |          | Max           | Min  |             |               |
| FSNF07 | 7/16-20  | 0.15          | 0.12 | 100         | 1000          |
| FSNF08 | 1/2-20   | 0.18          | 0.15 | 100         | 650           |
| FSNF09 | 9/16-18  | 0.18          | 0.15 | 100         | -             |
| FSNF10 | 5/8-18   | 0.24          | 0.18 | 100         | 350           |
| FSNF12 | 3/4-16   | 0.24          | 0.18 | 100         | 200           |
| FSNF14 | 7/8-14   | 0.24          | 0.18 | 100         | 125           |
| FSNF16 | 1-14     | 0.30          | 0.24 | -           | 100           |
| FSNF18 | 1 1/8-12 | 0.33          | 0.24 | -           | 60            |
| FSNF20 | 1 1/4-12 | 0.40          | 0.31 | -           | 50            |

# HEX SLOTTED JAM NUTS & HEX CASTLE NUTS

## HEX SLOTTED JAM NUTS

### FINE THREAD • PLAIN FINISH • IMPORTED

Hex Slotted Jam Nuts are a thinner version of hex slotted nuts. Their dimensions are equal to hex jam nuts.

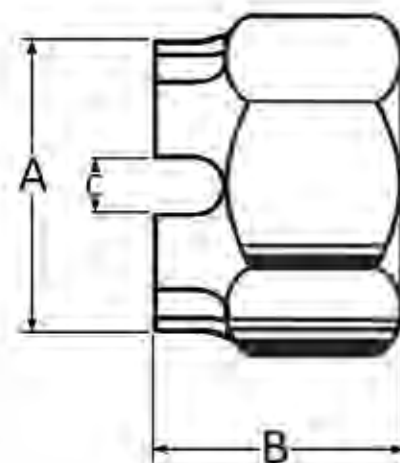
| Part #  | Size   | WIDTH OF SLOT |      | Price Break | Bulk Quantity |
|---------|--------|---------------|------|-------------|---------------|
|         |        | Max           | Min  |             |               |
| FSJNF12 | 3/4-16 | 0.24          | 0.18 | 100         | 900           |

## HEX CASTLE NUTS

### TECHNICAL INFORMATION

#### Dimensions

| Thread Size | A     |       | B    |      | C   |     |
|-------------|-------|-------|------|------|-----|-----|
|             | Min   | Basic | Max  | Min  | Max | Min |
| 1/4         | 0.371 | 9/32  | 0.10 | 0.07 |     |     |
| 5/16        | 0.425 | 21/64 | 0.12 | 0.09 |     |     |
| 3/8         | 0.478 | 13/32 | 0.15 | 0.12 |     |     |
| 7/16        | 0.582 | 29/64 | 0.15 | 0.12 |     |     |
| 1/2         | 0.637 | 9/16  | 0.18 | 0.15 |     |     |
| 9/16        | 0.744 | 39/64 | 0.18 | 0.15 |     |     |
| 5/8         | 0.797 | 23/32 | 0.24 | 0.18 |     |     |
| 3/4         | 0.941 | 13/16 | 0.24 | 0.18 |     |     |
| 7/8         | 1.097 | 29/32 | 0.24 | 0.18 |     |     |
| 1           | 1.254 | 1     | 0.30 | 0.24 |     |     |
| 1 1/2       | 2.161 | 1 1/2 | 0.46 | 0.37 |     |     |



### FINE THREAD • PLAIN FINISH • IMPORTED

Castle Nuts are basically the same as the slotted nuts. The difference is the thickness of the nut and the cylinder shape of the slotted part.

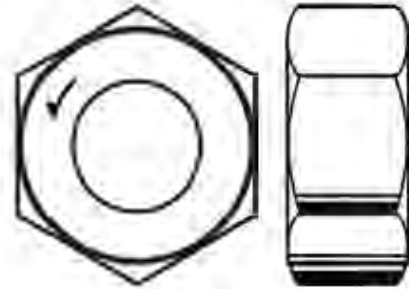
| Part #  | Size     | Price Break | Bulk Quantity |
|---------|----------|-------------|---------------|
| FCANF04 | 1/4-28   | 100         | -             |
| FCANF05 | 5/16-24  | 100         | -             |
| FCANF06 | 3/8-24   | 100         | -             |
| FCANF07 | 7/16-20  | 100         | -             |
| FCANF08 | 1/2-20   | 100         | 600           |
| FCANF09 | 9/16-18  | 100         | -             |
| FCANF10 | 5/8-18   | 100         | 375           |
| FCANF12 | 3/4-16   | 100         | -             |
| FCANF14 | 7/8-14   | 100         | -             |
| FCANF16 | 1-14     | 100         | 125           |
| FCANF24 | 1 1/2-12 | 100         | -             |

# LEFT HAND HEX NUTS & LEFT HAND HEX JAM NUTS

## LEFT HAND HEX NUTS

### COARSE THREAD • IMPORTED

| Part #    | Size    | Grade | Package Quantity |
|-----------|---------|-------|------------------|
| FHN2LH06  | 3/8-16  | 2     | 100              |
| FHN5LHP06 | 3/8-16  | 5     | 100              |
| FHN2LH08  | 1/2-13  | 2     | 50               |
| FHN8LH08  | 1/2-13  | 8     | 50               |
| FHN2LH10  | 5/8-11  | 2     | 25               |
| FHN5LH12  | 3/4-10  | 5     | 25               |
| FHN5LH14  | 7/8-9   | 5     | 15               |
| FHN5LH16  | 1-8     | 5     | 10               |
| FHN5LH20  | 1 1/4-7 | 5     | 1                |
| FHN8LH20  | 1 1/4-7 | 8     | 1                |



Left Hand Hex Nuts are tightened by turning them to the left instead of to the right. Their dimensions are equal to finished hex nuts.

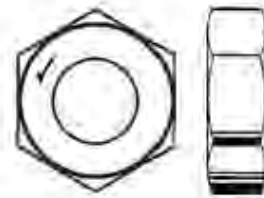
### FINE THREAD • IMPORTED

| Part #    | Size     | Grade | Package Quantity |
|-----------|----------|-------|------------------|
| FHN2LHF08 | 1/2-20   | 2     | 50               |
| FHN2LHF10 | 5/8-18   | 2     | 25               |
| FHN5LHF12 | 3/4-16   | 5     | 25               |
| FHN5LHF14 | 7/8-14   | 5     | 15               |
| FHN5LHF16 | 1-14     | 5     | 10               |
| FHN5LHF20 | 1 1/4-12 | 5     | 1                |

## LEFT HAND HEX JAM NUTS

### GRADE 5 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size     | Package Quantity |
|-----------|----------|------------------|
| FJN5LHF05 | 5/16-24  | 100              |
| FJN5LHF07 | 7/16-20* | 50               |
| FJN5LHF08 | 1/2-20   | 50               |
| FJN5LHF10 | 5/8-18   | 25               |
| FJN5LHF12 | 3/4-16   | 25               |



Left Hand Hex Jam Nuts are tightened by turning them to the left instead of to the right. Their dimensions are equal to hex jam nuts.

\*Plain finish

# SELF CLINCHING NUTS & HIGH HEX NUTS

## SELF CLINCHING NUTS TECHNICAL INFORMATION

### Dimensions

| Thread Size | A<br>Min Sheet Thickness | C<br>Hole Size in Sheet | E<br>+/-0.01 | T<br>+/-0.01 |
|-------------|--------------------------|-------------------------|--------------|--------------|
| 1/4-20-1    | 0.056                    | 0.344                   | 0.440        | 0.170        |
| 1/4-20-2    | 0.091                    | 0.344                   | 0.440        | 0.170        |
| 3/8-16-2    | 0.125                    | 0.500                   | 0.560        | 0.270        |
| 1/2-13-1    | 0.125                    | 0.656                   | 0.810        | 0.360        |

### CASE HARDENED • COARSE THREAD • ZINC PLATED • MADE IN USA

| Part #  | Size     | Package Quantity | Bulk Quantity |
|---------|----------|------------------|---------------|
| FSCN041 | 1/4-20-1 | 100              | 5000          |
| FSCN04  | 1/4-20-2 | 100              | 5000          |
| FSCN06  | 3/8-16-2 | 100              | 2000          |
| FSCN08  | 1/2-13-1 | 50               | 1000          |

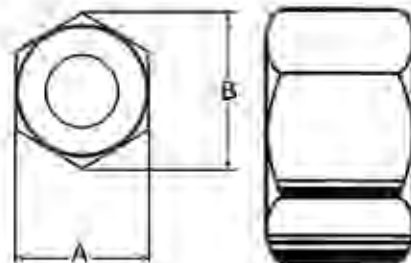
Self Clinching Nuts provide a quick economical way to add load bearing threads in thin sheet metal.

Lead time is 1-2 days on self clinching fasteners.

## HIGH HEX NUTS TECHNICAL INFORMATION

### Dimensions

| Thread Size | A      | B     | Thickness |
|-------------|--------|-------|-----------|
| 1/2         | 3/4    | .853  | 21/32     |
| 5/8         | 15/16  | 1.067 | 27/32     |
| 3/4         | 1 1/8  | 1.270 | 1         |
| 7/8         | 1 1/4  | 1.410 | 1 5/32    |
| 1           | 1 7/16 | 1.622 | 1 5/16    |



### GRADE 8 • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #   | Size   | Package Quantity |
|----------|--------|------------------|
| FHIHNF08 | 1/2-20 | 50               |
| FHIHNF10 | 5/8-18 | 25               |
| FHIHNF12 | 3/4-16 | 25               |
| FHIHNF14 | 7/8-14 | 15               |
| FHIHNF16 | 1-14   | 10               |

High Hex Nuts provide more thread engagement than a finished hex nut and are used where additional wrenching area is needed.

# TUBE CONNECTORS & ACME HEAVY HEX NUTS

## TUBE CONNECTORS

**SPRING STEEL • RUST INHIBITED • MADE IN USA**

| Part #  | Size         | Wall Thickness | Package Quantity |
|---------|--------------|----------------|------------------|
| FTC14R4 | 1/4-20 X 7/8 | 16-18 GA.      | 100              |

Tube connectors are available in many more thread and tube sizes in 3-4 days.



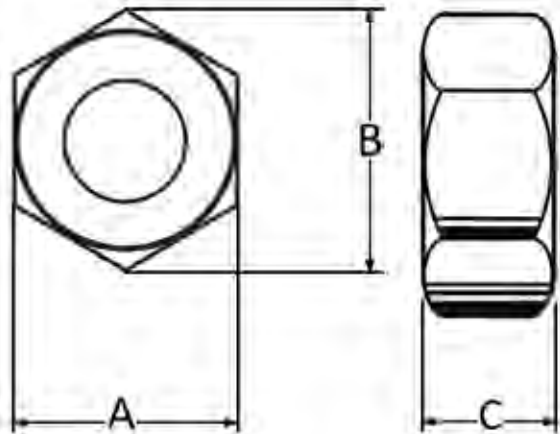
Tube Connectors provide an excellent way to fasten tubing to just about anything. Size is given as internal thread by tube size.

## ACME HEAVY HEX NUTS

### TECHNICAL INFORMATION

#### Dimensions

| Thread Size | A      | C       |
|-------------|--------|---------|
| 1/2         | 7/8    | 31/64   |
| 5/8         | 1 1/16 | 39/64   |
| 3/4         | 1 1/4  | 47/64   |
| 7/8         | 1 7/16 | 55/64   |
| 1           | 1 5/8  | 63/64   |
| 1 1/4       | 2      | 1 7/32  |
| 1 1/2       | 2 3/8  | 1 15/32 |



**LOW CARBON STEEL • PLAIN FINISH • MADE IN USA**

ACME Nuts have thread that is broader, stronger, and more square than standard threads. It is excellent for use in frequent assembly and disassembly, dirty environments, and in adjusting and leveling assemblies.

#### RIGHT HAND THREADS

| Part #     | Size    |
|------------|---------|
| EQ413-0810 | 1/2-10  |
| EQ413-1008 | 5/8-8   |
| EQ413-1206 | 3/4-6   |
| EQ413-1406 | 7/8-6   |
| EQ413-1604 | 1-4     |
| EQ413-1605 | 1-5     |
| EQ413-2005 | 1 1/4-5 |
| EQ413-2404 | 1 1/2-4 |

#### LEFT HAND THREADS

| Part #     | Size    |
|------------|---------|
| EQ414-1206 | 3/4-6   |
| EQ414-1406 | 7/8-6   |
| EQ414-1605 | 1-5     |
| EQ414-2005 | 1 1/4-5 |

We have many other sizes of ACME Nuts available!  
Please call for price and availability.



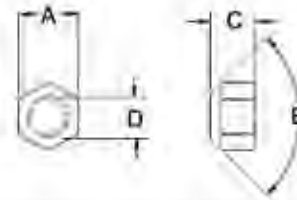
# WHEEL NUTS, SPRING NUTS & NYLON INSERT LOCK NUTS

## WHEEL NUTS

**FINE THREAD • ZINC PLATED • IMPORTED**

### Dimensions

| Size    | A<br>Hex Size | B<br>Taper | C<br>Height |
|---------|---------------|------------|-------------|
| 7/16-20 | 3/4           | 60°        | 9/16        |
| 1/2-20  | 13/16         | 90°        | 5/8         |
| 1/2-20  | 13/16         | 60°        | 5/8         |
| 9/16-18 | 1 1/16        | 90°        | 21/32       |



| Part #     | Size    | Package Qty | Bulk Qty |
|------------|---------|-------------|----------|
| FWHNF07    | 7/16-20 | 25          | -        |
| EQ550-0820 | 1/2-20  | 25          | -        |
| FWHNF08    | 1/2-20  | 50          | 500      |
| FWHNF09    | 9/16-18 | 10          | -        |

## SPRING NUTS

| Part #  | Size    | Spring Length | Thickness |
|---------|---------|---------------|-----------|
| FSPN04  | 1/4-20  | REGULAR       | 1/4       |
| FSPN05  | 5/16-18 | REGULAR       | 3/8       |
| FSPN06  | 3/8-16  | REGULAR       | 3/8       |
| FSPN08  | 1/2-13  | REGULAR       | 1/2       |
| FSPNS05 | 5/16-18 | SHORT         | 3/8       |

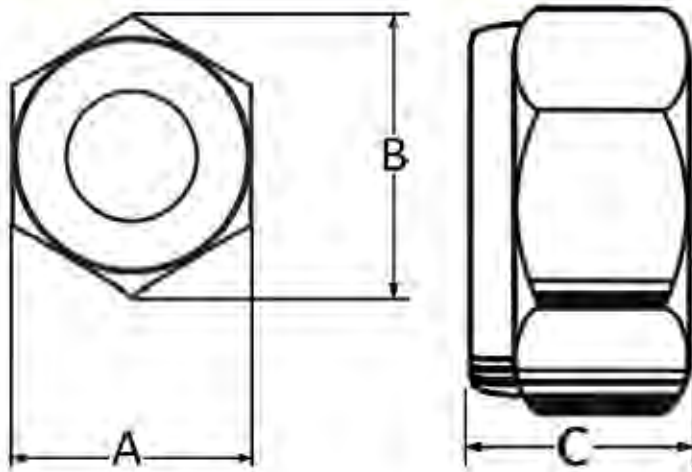


## NYLON INSERT LOCK NUTS

### TECHNICAL INFORMATION

#### Rockwell Hardness

| Grade | Core Hardness<br>Rockwell |
|-------|---------------------------|
| A     | C28 MAX                   |
| C     | C26-C34                   |



#### Dimensions

| Thread Size | A       | B     | Thickness | Thickness<br>Jam Nylocks |
|-------------|---------|-------|-----------|--------------------------|
| #3          | 1/4     | 0.268 | 0.143     | -                        |
| #4          | 1/4     | 0.268 | 0.143     | 0.109                    |
| #5          | 1/4     | 0.268 | 0.143     | -                        |
| #6          | 5/16    | 0.339 | 0.178     | 0.125                    |
| #8          | 11/32   | 0.374 | 0.229     | 0.187                    |
| #10         | 3/8     | 0.410 | 0.239     | 0.187                    |
| #12         | 7/16    | 0.482 | 0.313     | 0.200                    |
| 1/4         | 7/16    | 0.482 | 0.313     | 0.200                    |
| 5/16        | 1/2     | 0.552 | 0.344     | 0.250                    |
| 3/8         | 9/16    | 0.622 | 0.453     | 0.270                    |
| 7/16        | 5/8     | 0.698 | 0.453     | 0.310                    |
| 1/2         | 3/4     | 0.837 | 0.594     | 0.310                    |
| 9/16        | 7/8     | 0.978 | 0.641     | 0.360                    |
| 5/8         | 15/16   | 1.051 | 0.750     | 0.390                    |
| 3/4         | 1 1/16  | 1.191 | 0.875     | 0.410                    |
| 7/8         | 1 1/4   | 1.403 | 0.984     | 0.470                    |
| 1           | 1 7/16  | 1.615 | 1.042     | 0.550                    |
| 1 1/8       | 1 5/8   | 1.830 | 1.170     | 0.640                    |
| 1 1/4       | 1 13/16 | 2.040 | 1.390     | 0.730                    |
| 1 1/2       | 2 3/16  | 2.420 | 1.610     | 0.800                    |

# NYLON INSERT LOCK NUTS

## GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|------------------------|---------------|
| FLNN003 | #3-48   | 100                | 500                    | 5000          |
| FLNN004 | #4-40   | 100                | 500                    | 5000          |
| FLNN006 | #6-32   | 100                | 500                    | 5000          |
| FLNN008 | #8-32   | 100                | 500                    | 5000          |
| FLNN010 | #10-24  | 100                | 500                    | 5000          |
| FLNN012 | #12-24  | 100                | 500                    | 5000          |
| FLNN04  | 1/4-20  | 100                | 500                    | 3500          |
| FLNN05  | 5/16-18 | 100                | 500                    | 3000          |
| FLNN06  | 3/8-16  | 100                | 500                    | 2500          |
| FLNN07  | 7/16-14 | 50                 | 250                    | 2000          |
| FLNN08  | 1/2-13  | 50                 | 250                    | 1000          |
| FLNN09  | 9/16-12 | 25                 | 125                    | 800           |
| FLNN10  | 5/8-11  | 25                 | 125                    | 500           |
| FLNN12  | 3/4-10  | 25                 | 125                    | 400           |
| FLNN14  | 7/8-9   | 15                 | 75                     | 250           |
| FLNN16  | 1-8     | 10                 | 50                     | 175           |



Nylon Insert Lock Nuts Grade A are designed with a nylon collar which provides the locking action. They can be reused oftener than any other style of common lock nut. They are to be used with similar material and grade screws and bolts.

## GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FLNNF010 | #10-32  | 100                | 5000          |
| FLNNF04  | 1/4-28  | 100                | 3500          |
| FLNNF05  | 5/16-24 | 100                | 3000          |
| FLNNF06  | 3/8-24  | 100                | 2500          |
| FLNNF07  | 7/16-20 | 50                 | 2000          |
| FLNNF08  | 1/2-20  | 50                 | 1000          |
| FLNNF09  | 9/16-18 | 25                 | 800           |
| FLNNF10  | 5/8-18  | 25                 | 500           |
| FLNNF12  | 3/4-16  | 25                 | 400           |
| FLNNF14  | 7/8-14  | 15                 | 250           |
| FLNNF16  | 1-14    | 10                 | 175           |

## COARSE THREAD • BLACK • IMPORTED

| Part #   | Size    | Grade | Finish    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|-------|-----------|--------------------|---------------|
| FLNNCB05 | 5/16-18 | C     | PHOSPHATE | 100                | 3000          |
| FLNNB07  | 7/16-14 | A     | OXIDE     | 50                 | 600           |

# NYLON INSERT LOCK NUTS

## GRADE C • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED

Nylon Insert Lock Nuts Grade C are same in design and purpose as the grade A but are designed to use with bolts up to grade 8.

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FLNNC04 | 1/4-20  | 100                | 3500          |
| FLNNC05 | 5/16-18 | 100                | 3000          |
| FLNNC06 | 3/8-16  | 100                | 2500          |
| FLNNC07 | 7/16-14 | 50                 | 2000          |
| FLNNC08 | 1/2-13  | 50                 | 1000          |
| FLNNC10 | 5/8-11  | 25                 | 500           |
| FLNNC12 | 3/4-10  | 25                 | 400           |
| FLNNC16 | 1-8     | 10                 | 175           |

## GRADE C • FINE THREAD • YELLOW ZINC PLATED • IMPORTED

| Part #   | Size      | Shop Pack Quantity | Bulk Quantity |
|----------|-----------|--------------------|---------------|
| FLNNCF10 | 5/8-18    | 25                 | 500           |
| FLNNCF12 | 3/4-16    | 25                 | 400           |
| FLNNCF16 | 1-14      | 10                 | 175           |
| FLNNCF20 | 1 1/4-12* | 1                  | 100           |

\*Plain Finish

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #    | Size    | Shop Pack Quantity | Bulk Quantity |
|-----------|---------|--------------------|---------------|
| FSSLNN006 | 6-32    | 100                | 5000          |
| FSSLNN008 | 8-32    | 100                | 5000          |
| FSSLNN010 | 10-24   | 100                | 5000          |
| FSSLNN04  | 1/4-20  | 100                | 3500          |
| FSSLNN05  | 5/16-18 | 100                | 3000          |
| FSSLNN06  | 3/8-16  | 100                | 2500          |
| FSSLNN07  | 7/16-14 | 50                 | 2000          |
| FSSLNN08  | 1/2-13  | 50                 | 1000          |
| FSSLNN10  | 5/8-11  | 25                 | 500           |
| FSSLNN12  | 3/4-10  | 25                 | 400           |

## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #     | Size    | Shop Pack Quantity | Bulk Quantity |
|------------|---------|--------------------|---------------|
| FSSLNNF010 | 10-32   | 100                | 5000          |
| FSSLNNF04  | 1/4-28  | 100                | 3500          |
| FSSLNNF05  | 5/16-24 | 100                | 3000          |
| FSSLNNF06  | 3/8-24  | 100                | 2500          |
| FSSLNNF08  | 1/2-20  | 50                 | 1000          |

# NYLON INSERT LOCK NUTS & JAM NYLON INSERT LOCK NUTS

## NYLON INSERT LOCK NUTS \*CONTINUED FROM PREVIOUS PAGE

### 18-8 STAINLESS STEEL • WAXED • COARSE THREAD • IMPORTED

| Part #     | Size    | Package Quantity | Bulk Quantity |
|------------|---------|------------------|---------------|
| FSSLNNW010 | 10-24   | 100              | 5000          |
| FSSLNNW04  | 1/4-20  | 100              | 3500          |
| FSSLNNW05  | 5/16-18 | 100              | 3000          |
| FSSLNNW06  | 3/8-16  | 100              | 2500          |
| FSSLNNW07  | 7/16-14 | 50               | 2000          |
| FSSLNNW08  | 1/2-13  | 50               | 1000          |
| FSSLNNW10  | 5/8-11  | 25               | 500           |

**GALLING:** Thread galling or cold welding is a problem often seen in stainless steel, especially when using a lock nut. It occurs during installation when pressure or friction causes the bolt threads to seize to the threads of a nut.

**PREVENTION:** Slow down installation speed since heat is a factor in galling. Lubricate with an anti-seize or WD-40 or use waxed nylon insert lock nuts. Avoid dirty or damaged threads. If you feel a fastener beginning to bind, stop. Wait a few minutes to let heat dissipate then try backing the nut off.

## JAM NYLON INSERT LOCK NUTS

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FJLNN008 | 8-32    | 100                | 5000          |
| FJLNN04  | 1/4-20  | 100                | 3500          |
| FJLNN05  | 5/16-18 | 100                | 3000          |
| FJLNN06  | 3/8-16  | 100                | 2500          |
| FJLNN07  | 7/16-14 | 50                 | 2000          |
| FJLNN08  | 1/2-13  | 50                 | 1000          |
| FJLNN10  | 5/8-11  | 25                 | 500           |
| FJLNN12  | 3/4-10  | 25                 | 400           |
| FJLNN14  | 7/8-9   | 15                 | 250           |
| FJLNN16  | 1-8     | 10                 | 175           |
| FJLNN20  | 1 1/4-7 | 1                  | 150           |
| FJLNN24  | 1 1/2-6 | 1                  | 90            |



Jam Nylon Insert Lock Nuts Grade A are same in purpose as a standard pattern nylock but are for use where there are not enough threads projecting to use the standard nylock.

### GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

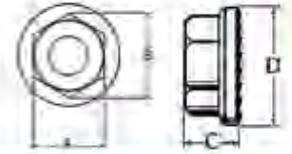
| Part #    | Size     | Shop Pack Quantity | Bulk Quantity |
|-----------|----------|--------------------|---------------|
| FJLNNF010 | 10-32    | 100                | 5000          |
| FJLNNF04  | 1/4-28   | 100                | 3500          |
| FJLNNF05  | 5/16-24  | 100                | 3000          |
| FJLNNF06  | 3/8-24   | 100                | 2500          |
| FJLNNF07  | 7/16-20  | 50                 | 2000          |
| FJLNNF08  | 1/2-20   | 50                 | 1000          |
| FJLNNF10  | 5/8-18   | 25                 | 500           |
| FJLNNF12  | 3/4-16   | 25                 | 400           |
| FJLNNF14  | 7/8-14   | 15                 | 250           |
| FJLNNF16  | 1-14     | 10                 | 175           |
| FJLNNF24  | 1 1/2-12 | 1                  | 90            |

Don't see the size you're looking for? Call us for availability!

# SERRATED FLANGE NUTS

## TECHNICAL INFORMATION

### Dimensions



| Thread Size | A     | B     | Standard |        | Large Flange |       |
|-------------|-------|-------|----------|--------|--------------|-------|
|             |       |       | C        | D      | C            | D     |
| #8          | 11/32 | 0.387 | 0.195    | 15/32  | -            | -     |
| #10         | 3/8   | 0.423 | 0.211    | 1/2    | -            | -     |
| 1/4         | 7/16  | 0.493 | 0.229    | 19/32  | 0.297        | 11/16 |
| 5/16        | 1/2   | 0.567 | 0.276    | 11/16  | 0.359        | 13/16 |
| 3/8         | 9/16  | 0.639 | 0.339    | 3/4    | 0.398        | 29/32 |
| 7/16        | 11/16 | 0.781 | 0.385    | 15/16  | -            | -     |
| 1/2         | 3/4   | 0.853 | 0.448    | 1 1/32 | -            | -     |
| 5/8         | 15/16 | 1.067 | 0.557    | 1 9/32 | -            | -     |
| 3/4         | 1 1/8 | 1.270 | 0.651    | 1 1/2  | -            | -     |

### CASE HARDENED • COARSE THREAD • ZINC PLATED • IMPORTED

Serrated Flange Nuts are a easy way to put a washer and nut on in one step. The serrations on the Flange also "bite" into the material they are tightened against to make it more difficult for them to be loosened.

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FFNS008 | 8-32    | 100                | 5000          |
| FFNS04  | 1/4-20  | 100                | 3500          |
| FFNS05  | 5/16-18 | 100                | 3000          |
| FFNS06  | 3/8-16  | 100                | 2000          |
| FFNS07  | 7/16-14 | 50                 | 1200          |
| FFNS08  | 1/2-13  | 50                 | 800           |
| FFNS10  | 5/8-11  | 25                 | 500           |
| FFNS12  | 3/4-10  | 25                 | 250           |

### CASE HARDENED • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FFNSF010 | 10-32   | 100                | 5000          |
| FFNSF05  | 5/16-24 | 100                | 3000          |
| FFNSF06  | 3/8-24  | 100                | 2000          |

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size    | Shop Pack Quantity | Bulk Quantity |
|------------|---------|--------------------|---------------|
| FSSFNS010  | 10-24   | 100                | 10000         |
| FSSFNSF010 | 10-32*  | 100                | 10000         |
| FSSFNS04   | 1/4-20  | 100                | 3500          |
| FSSFNS05   | 5/16-18 | 100                | 3000          |
| FSSFNS06   | 3/8-16  | 100                | 2000          |

\*Fine Thread

### LARGE FLANGE • CASE HARDENED • COARSE THREAD • ZINC PLATED • IMPORTED

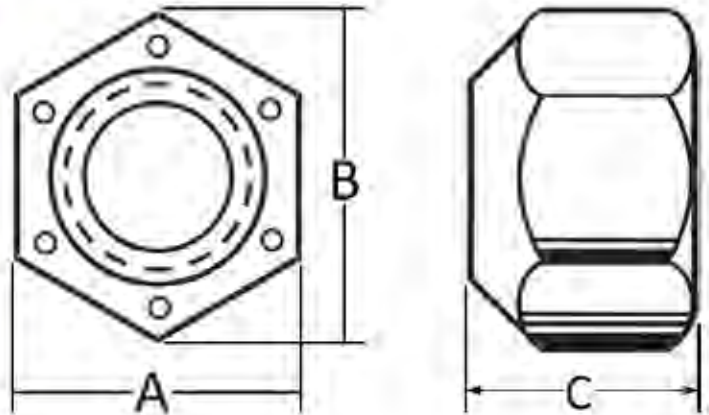
| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FFNL04 | 1/4-20  | 100                | 3500          |
| FFNL05 | 5/16-18 | 100                | 3000          |

# ALL METAL TOP LOCK NUTS

## TECHNICAL INFORMATION

### Dimensions

| Thread Size | A       | B     | C      |
|-------------|---------|-------|--------|
| 1/4         | 7/16    | 0.493 | 7/32   |
| 5/16        | 1/2     | 0.567 | 17/64  |
| 3/8         | 9/16    | 0.639 | 21/64  |
| 7/16        | 11/16   | 0.781 | 3/8    |
| 1/2         | 3/4     | 0.853 | 7/16   |
| 9/16        | 7/8     | 0.986 | 31/64  |
| 5/8         | 15/16   | 1.067 | 35/64  |
| 3/4         | 1 1/8   | 1.270 | 41/64  |
| 7/8         | 1 5/16  | 1.482 | 3/4    |
| 1           | 1 1/2   | 1.693 | 55/64  |
| 1 1/8       | 1 11/16 | 1.904 | 31/32  |
| 1 1/4       | 1 7/8   | 2.116 | 1 1/16 |
| 1 1/2       | 2 1/4   | 2.539 | 1 9/32 |
| 1 3/4       | 2 5/8   | 2.962 | 1 1/2  |



### GRADE C • COARSE THREAD • ZINC & WAX • IMPORTED

All Metal Top Lock Nuts Grade C are the toughest type of common lock nut. They can withstand hotter temperatures than a nylock. They are best used with a grade 5 or 8 bolt.

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FLNC04 | 1/4-20  | 100                | 4000          |
| FLNC05 | 5/16-18 | 100                | 2500          |
| FLNC06 | 3/8-16  | 100                | 2000          |
| FLNC07 | 7/16-14 | 50                 | 1000          |
| FLNC08 | 1/2-13  | 50                 | 750           |
| FLNC09 | 9/16-12 | 25                 | 500           |
| FLNC10 | 5/8-11  | 25                 | 400           |

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FLNC12 | 3/4-10  | 25                 | 250           |
| FLNC14 | 7/8-9   | 15                 | 150           |
| FLNC16 | 1-8     | 10                 | 100           |
| FLNC18 | 1 1/8-7 | 1                  | 130           |
| FLNC20 | 1 1/4-7 | 1                  | 100           |
| FLNC24 | 1 1/2-6 | 1                  | 50            |
| FLNC28 | 1 3/4-5 | 1                  | 35            |

### GRADE C • FINE THREAD • ZINC & WAX • IMPORTED

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FLNCF04 | 1/4-28  | 100                | 4000          |
| FLNCF05 | 5/16-24 | 100                | 2500          |
| FLNCF06 | 3/8-24  | 100                | 2000          |
| FLNCF07 | 7/16-20 | 50                 | 1000          |
| FLNCF08 | 1/2-20  | 50                 | 750           |
| FLNCF09 | 9/16-18 | 25                 | 500           |
| FLNCF10 | 5/8-18  | 25                 | 400           |

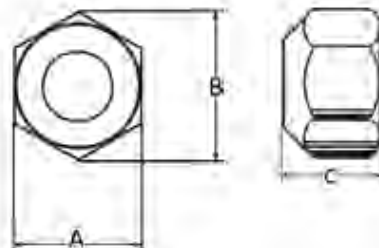
| Part #  | Size     | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|
| FLNCF12 | 3/4-16   | 25                 | 250           |
| FLNCF14 | 7/8-14   | 15                 | 150           |
| FLNCF16 | 1-14     | 10                 | 100           |
| FLNCF18 | 1 1/8-12 | 1                  | 130           |
| FLNCF20 | 1 1/4-12 | 1                  | 100           |
| FLNCF24 | 1 1/2-12 | 1                  | 50            |

# ALL METAL TOP LOCK NUTS & TWO-WAY REVERSIBLE LOCK NUTS

**COLLAR STYLE • GRADE 9 • COARSE THREAD • CADMIUM YELLOW & WAX • MADE IN USA**

## Dimensions

| Thread Size | A     | B     | C     |
|-------------|-------|-------|-------|
| 3/8         | 9/16  | 0.639 | 13/32 |
| 1/2         | 3/4   | 0.853 | 1/2   |
| 5/8         | 15/16 | 1.067 | 21/32 |
| 3/4         | 1 1/8 | 1.270 | 13/16 |



All Metal Top Lock Nuts Grade 9 are very similar to the grade c but slightly thicker. They were specifically designed for use with grade 9 hex cap screws.

| Part #  | Size     | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|
| FLN9F06 | 3/8-24*† | 100                | 2800          |
| FLN908  | 1/2-13   | 50                 | 1100          |
| FLN910  | 5/8-11   | 25                 | 600           |
| FLN912  | 3/4-10†  | 25                 | 400           |

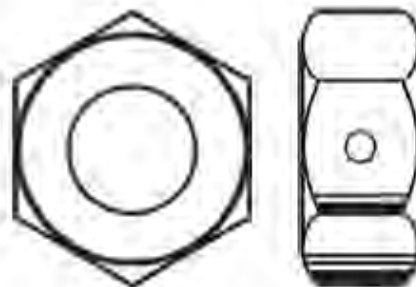
\* Fine Thread    † Cone Style

Don't see the size you're looking for? Call us for availability!

## TWO-WAY REVERSIBLE LOCK NUTS

**GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FLNR04 | 1/4-20  | 100                | 3500          |
| FLNR05 | 5/16-18 | 100                | 3000          |
| FLNR06 | 3/8-16  | 100                | 2000          |
| FLNR07 | 7/16-14 | 50                 | 1200          |
| FLNR08 | 1/2-13  | 50                 | 800           |
| FLNR09 | 9/16-12 | 25                 | 500           |
| FLNR10 | 5/8-11  | 25                 | 500           |
| FLNR12 | 3/4-10  | 25                 | 250           |
| FLNR14 | 7/8-9   | 15                 | 200           |
| FLNR16 | 1-8     | 10                 | 150           |



Two-Way Reversible Lock Nuts have the same dimensions as finished hex nuts. They can be turned onto a bolt from either side of the nut and they are all metal so they can withstand higher temperatures than a nylock. An additional advantage they have is they lock before being fully threaded onto a bolt.

**GRADE A • FINE THREAD • ZINC PLATED • IMPORTED**

| Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|---------|--------------------|---------------|
| FLNRF04 | 1/4-28  | 100                | 3500          |
| FLNRF05 | 5/16-24 | 100                | 3000          |
| FLNRF07 | 7/16-20 | 50                 | 1200          |

**18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED**

| Part #   | Size    | Shop Pack Quantity | Bulk Quantity |
|----------|---------|--------------------|---------------|
| FSSLNR04 | 1/4-20  | 100                | 3500          |
| FSSLNR05 | 5/16-18 | 100                | 3000          |
| FSSLNR06 | 3/8-16  | 100                | 2000          |

# KEPS NUTS & FLANGE LOCK NUTS (FRAME NUTS)

## KEPS NUTS

### GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size    | Washer OD | Shop Pack Quantity | Bulk Quantity |
|---------|---------|-----------|--------------------|---------------|
| FKN006  | #6-32   | 0.328     | 100                | 5000          |
| FKN008  | #8-32   | 0.375     | 100                | 5000          |
| FKN010  | #10-24  | 0.400     | 100                | 5000          |
| FKNF010 | #10-32* | 0.400     | 100                | 5000          |
| FKN04   | 1/4-20  | 0.500     | 100                | 3500          |
| FKN05   | 5/16-18 | 0.567     | 100                | 3000          |



Keps Nuts have their own lock washer preassembled which allows for a quicker and easier assembly. Wrench size is the same as a finished hex nut.

\*Fine Thread

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

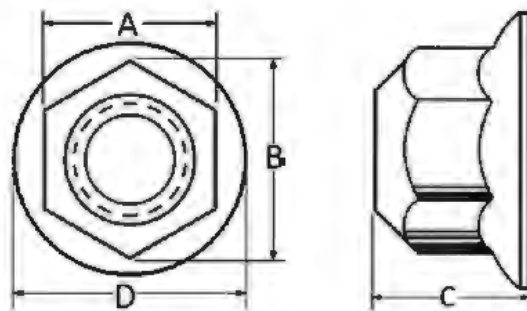
| Part #   | Size   | Washer OD | Shop Pack Quantity | Bulk Quantity |
|----------|--------|-----------|--------------------|---------------|
| FSSKN010 | 10-24  | 0.400     | 100                | 5000          |
| FSSKN04  | 1/4-20 | 0.500     | 100                | 3500          |

## FLANGE LOCK NUTS (FRAME NUTS)

### TECHNICAL INFORMATION

#### Dimensions

| Thread Size | A      | B     | C     | D       |
|-------------|--------|-------|-------|---------|
| 5/16        | 1/2    | 0.567 | 0.343 | 11/16   |
| 3/8         | 9/16   | 0.639 | 0.415 | 13/16   |
| 7/16        | 11/16  | 0.781 | 0.466 | 15/16   |
| 1/2         | 3/4    | 0.853 | 0.542 | 1 1/32  |
| 5/8         | 15/16  | 1.067 | 0.668 | 1 21/64 |
| 3/4         | 1 1/8  | 1.270 | 0.775 | 1 9/16  |
| 7/8         | 1 5/16 | 1.482 | 0.766 | 1 23/32 |



### GRADE G • COARSE THREAD • PHOSPHATE & OIL FINISH • IMPORTED

Flange Lock Nuts Grade G are similar to all metal top lock nuts grade c with the addition of a Flange on the bottom side of the nut. They were specifically designed to be used with grade 8 Flange bolts.

| Part # | Size    | Shop Pack Quantity | Bulk Quantity |
|--------|---------|--------------------|---------------|
| FFLN25 | 5/16-18 | 100                | 3000          |
| FFLN3  | 3/8-16  | 100                | 2000          |
| FFLN35 | 7/16-14 | 50                 | 1200          |
| FFLN4  | 1/2-13  | 50                 | 1000          |
| FFLN5  | 5/8-11  | 25                 | 500           |
| FFLN6  | 3/4-10  | 25                 | 250           |

### GRADE G • FINE THREAD • PHOSPHATE & OIL FINISH • IMPORTED

| Part # | Size   | Shop Pack Quantity | Bulk Quantity |
|--------|--------|--------------------|---------------|
| FFLNF4 | 1/2-20 | 50                 | 1000          |
| FFLNF5 | 5/8-18 | 25                 | 500           |
| FFLNF6 | 3/4-16 | 25                 | 250           |
| FFLNF7 | 7/8-14 | 15                 | 180           |



# FLEX TYPE LOCK NUTS

## COARSE THREAD • CADMIUM & WAXED • MADE IN USA OR IMPORTED

| Part # | Size     | Thickness | Shop Pack Quantity | Bulk Quantity |
|--------|----------|-----------|--------------------|---------------|
| FLNF04 | 1/4-20*  | 0.290     | 100                | 500           |
| FLNF05 | 5/16-18* | 0.353     | 100                | 500           |
| FLNF06 | 3/8-16   | 0.462     | 100                | 250           |
| FLNF08 | 1/2-13*  | 0.602     | 50                 | 100           |

\* Available in 1-2 days.

Don't see the size you're looking for? Call us for availability!



Flex Type Lock Nuts are a superior lock nut that does not gall threads. They also maintain their locking strength through 15 removals and reapplications and have superior vibration resistance. Wrench size is equal to finished hex nuts.

# USS FLAT WASHERS

## TECHNICAL INFORMATION

### Dimensions



| Washer Size | ID    |       | THICKNESS |       |
|-------------|-------|-------|-----------|-------|
|             | Basic | Basic | Min       | Max   |
| #10         | 1/4   | 9/16  | 0.036     | 0.065 |
| 1/4         | 5/16  | 3/4   | 0.051     | 0.080 |
| 5/16        | 3/8   | 7/8   | 0.064     | 0.104 |
| 3/8         | 7/16  | 1     | 0.064     | 0.104 |
| 7/16        | 1/2   | 1 1/4 | 0.064     | 0.104 |
| 1/2         | 9/16  | 1 3/8 | 0.086     | 0.132 |
| 9/16        | 5/8   | 1 1/2 | 0.086     | 0.132 |
| 5/8         | 11/16 | 1 3/4 | 0.108     | 0.160 |
| 3/4         | 13/16 | 2     | 0.122     | 0.177 |
| 7/8         | 15/16 | 2 1/4 | 0.136     | 0.192 |

| Washer Size | ID     |       | THICKNESS |       |
|-------------|--------|-------|-----------|-------|
|             | Basic  | Basic | Min       | Max   |
| 1           | 1 1/16 | 2 1/2 | 0.136     | 0.192 |
| 1 1/8       | 1 1/4  | 2 3/4 | 0.136     | 0.192 |
| 1 1/4       | 1 3/8  | 3     | 0.153     | 0.213 |
| 1 3/8       | 1 1/2  | 3 1/4 | 0.153     | 0.213 |
| 1 1/2       | 1 5/8  | 3 1/2 | 0.153     | 0.213 |
| 1 5/8       | 1 3/4  | 3 3/4 | 0.153     | 0.213 |
| 1 3/4       | 1 7/8  | 4     | 0.153     | 0.213 |
| 2           | 2 1/8  | 4 1/2 | 0.153     | 0.213 |
| 2 1/4       | 2 3/8  | 4 3/4 | 0.193     | 0.248 |
| 2 1/2       | 2 5/8  | 5     | 0.210     | 0.280 |

## ZINC PLATED • IMPORTED

USS Flat Washers are the most commonly used flat washer.

| Part # | Size  | Approximate Pieces per Pound | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|--------|-------|------------------------------|--------------------|--------------------|---------------|
| FFW010 | #10   | 393                          | 1#                 | 5#                 | 50#           |
| FFW04  | 1/4   | 176                          | 2#                 | 5#                 | 50#           |
| FFW05  | 5/16  | 90                           | 2#                 | 5#                 | 50#           |
| FFW06  | 3/8   | 70                           | 2#                 | 5#                 | 50#           |
| FFW07  | 7/16  | 44                           | 2#                 | 5#                 | 50#           |
| FFW08  | 1/2   | 26                           | 2#                 | 5#                 | 50#           |
| FFW09  | 9/16  | 22                           | 2#                 | 5#                 | 50#           |
| FFW10  | 5/8   | 15                           | 2#                 | 5#                 | 50#           |
| FFW12  | 3/4   | 10                           | 2#                 | 5#                 | 50#           |
| FFW14  | 7/8   | 8                            | 2#                 | 5#                 | 50#           |
| FFW16  | 1     | 6                            | 2#                 | 5#                 | 50#           |
| FFW18  | 1 1/8 | 5                            | 2#                 | 5#                 | 50#           |
| FFW20  | 1 1/4 | 4.2                          | 2#                 | 5#                 | 50#           |
| FFW22  | 1 3/8 | 3.3                          | 2#                 | 5#                 | 50#           |
| FFW24  | 1 1/2 | 2.8                          | 2#                 | 5#                 | 50#           |
| FFW26  | 1 5/8 | 2.5                          | 2#                 | 5#                 | 50#           |
| FFW28  | 1 3/4 | 2                            | 2#                 | 5#                 | 50#           |
| FFW32  | 2     | 1.6                          | 2#                 | 5#                 | 50#           |
| FFW36  | 2 1/4 | 1.2                          | 2#                 | 5#                 | 50#           |
| FFW40  | 2 1/2 | 1                            | 2#                 | 5#                 | 50#           |

# USS FLAT WASHERS

## PLAIN FINISH • IMPORTED

| Part # | Size  | Shop Pack Quantity | Bulk Quantity |
|--------|-------|--------------------|---------------|
| FFWP04 | 1/4   | 5#                 | 50#           |
| FFWP05 | 5/16  | 5#                 | 50#           |
| FFWP06 | 3/8   | 5#                 | 50#           |
| FFWP07 | 7/16  | 5#                 | 50#           |
| FFWP08 | 1/2   | 5#                 | 50#           |
| FFWP10 | 5/8   | 5#                 | 50#           |
| FFWP12 | 3/4   | 5#                 | 50#           |
| FFWP14 | 7/8   | 5#                 | 50#           |
| FFWP16 | 1     | 5#                 | 50#           |
| FFWP20 | 1 1/4 | 5#                 | 50#           |
| FFWP24 | 1 1/2 | 5#                 | 50#           |

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FFWG05 | 5/16 | 5#                 | 50#           |
| FFWG06 | 3/8  | 5#                 | 50#           |
| FFWG08 | 1/2  | 5#                 | 50#           |
| FFWG10 | 5/8  | 5#                 | 50#           |
| FFWG12 | 3/4  | 5#                 | 50#           |
| FFWG14 | 7/8  | 5#                 | 50#           |

## GRADE 8 • YELLOW ZINC • MADE IN USA OR IMPORTED

| Part # | Size  | Shop Pack Quantity | Bulk Quantity |
|--------|-------|--------------------|---------------|
| FFW804 | 1/4   | 100                | 7500          |
| FFW805 | 5/16  | 100                | 5000          |
| FFW806 | 3/8   | 100                | 3500          |
| FFW807 | 7/16  | 100                | 2500          |
| FFW808 | 1/2   | 100                | 1500          |
| FFW809 | 9/16  | 50                 | 1100          |
| FFW810 | 5/8   | 50                 | 700           |
| FFW812 | 3/4   | 50                 | 500           |
| FFW814 | 7/8   | 25                 | 350           |
| FFW816 | 1     | 25                 | 300           |
| FFW818 | 1 1/8 | 25                 | 250           |

## 18-8 STAINLESS STEEL • IMPORTED

| Part #  | Size | Shop Pack Quantity |
|---------|------|--------------------|
| FSSF809 | 3/16 | 100                |
| FSSF811 | 1/4  | 100                |
| FSSF813 | 5/16 | 100                |
| FSSF815 | 3/8  | 100                |
| FSSF817 | 7/16 | 50                 |
| FSSF819 | 1/2  | 100                |
| FSSF821 | 5/8  | 50                 |
| FSSF823 | 3/4  | 50                 |

Don't see the size you're looking for? Call us for availability!

# THICK USS FLAT WASHERS & SAE FLAT WASHERS

## THICK USS FLAT WASHERS

### GRADE 8 • YELLOW ZINC PLATED • MADE IN USA

Thick USS Flat Washers Grade 8 are thicker than regular USS flat washers and have a Rockwell hardness of C38-C45 for heavy duty applications.

| Part #    | Size   | Min Thickness | Max Thickness | Shop Pack Quantity | Bulk Quantity |
|-----------|--------|---------------|---------------|--------------------|---------------|
| FFW8ETU04 | 1/4*   | 0.090         | 0.110         | 50                 | 3700          |
| FFW8ETU05 | 5/16   | 0.079         | 0.093         | 100                | 4200          |
| FFW9ETU06 | 3/8    | 0.079         | 0.093         | 100                | 3250          |
| FFW9ETU08 | 1/2    | 0.122         | 0.146         | 100                | 1100          |
| FFW9ETU10 | 5/8    | 0.122         | 0.146         | 50                 | 550           |
| FFW9ETU12 | 3/4    | 0.136         | 0.160         | 50                 | 450           |
| FFW9ETU16 | 1      | 0.136         | 0.160         | 25                 | 300           |
| FFW8ETU24 | 1 1/2* | 0.286         | 0.340         | 10                 | -             |

\*Extra Thick USS Flat Washers.

## SAE FLAT WASHERS

### TECHNICAL INFORMATION

#### Dimensions



| Washer Size | ID     |  | OD     |  | THICKNESS |       |
|-------------|--------|--|--------|--|-----------|-------|
|             | Basic  |  | Basic  |  | Min       | Max   |
| #4          | 1/8    |  | 5/16   |  | 0.025     | 0.04  |
| #6          | 5/32   |  | 3/8    |  | 0.036     | 0.065 |
| #8          | 3/16   |  | 7/16   |  | 0.036     | 0.065 |
| #10         | 7/32   |  | 1/2    |  | 0.036     | 0.065 |
| #12         | 1/4    |  | 9/16   |  | 0.051     | 0.080 |
| 1/4         | 9/32   |  | 5/8    |  | 0.051     | 0.080 |
| 5/16        | 11/32  |  | 11/16  |  | 0.051     | 0.080 |
| 3/8         | 13/32  |  | 13/16  |  | 0.051     | 0.080 |
| 7/16        | 15/32  |  | 59/64  |  | 0.051     | 0.080 |
| 1/2         | 17/32  |  | 1 1/16 |  | 0.074     | 0.121 |
| 9/16        | 19/32  |  | 1 3/16 |  | 0.074     | 0.121 |
| 5/8         | 21/32  |  | 1 5/16 |  | 0.074     | 0.121 |
| 3/4         | 13/16  |  | 1 1/2  |  | 0.108     | 0.160 |
| 7/8         | 15/16  |  | 1 3/4  |  | 0.108     | 0.160 |
| 1           | 1 1/16 |  | 2      |  | 0.108     | 0.160 |
| 1 1/8       | 1 3/16 |  | 2 1/4  |  | 0.108     | 0.160 |
| 1 1/4       | 1 5/16 |  | 2 1/2  |  | 0.136     | 0.192 |
| 1 3/8       | 1 7/16 |  | 2 3/4  |  | 0.136     | 0.213 |
| 1 1/2       | 1 9/16 |  | 3      |  | 0.153     | 0.213 |

# SAE FLAT WASHERS

## ZINC PLATED • IMPORTED

SAE Flat Washers have a smaller OD than USS Flat Washers and fit tighter on a bolt.

| Part #  | Size  | Approximate Pieces per Pound | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|---------|-------|------------------------------|--------------------|--------------------|---------------|
| FFWS004 | #4    | -                            | 25 PC.             | 100 PC.            | -             |
| FFWS006 | #6    | -                            | 25 PC.             | 100 PC.            | 39,500 PC.    |
| FFWS008 | #8    | -                            | 25 PC.             | 100 PC.            | 30,000 PC.    |
| FFWS010 | #10   | 455                          | 1#                 | 5#                 | 50#           |
| FFWS012 | #12   | -                            | 25 PC.             | 100 PC.            | -             |
| FFWS04  | 1/4   | 222                          | 2#                 | 5#                 | 50#           |
| FFWS05  | 5/16  | 195                          | 2#                 | 5#                 | 50#           |
| FFWS06  | 3/8   | 140                          | 2#                 | 5#                 | 50#           |
| FFWS07  | 7/16  | 110                          | 2#                 | 5#                 | 50#           |
| FFWS08  | 1/2   | 56                           | 2#                 | 5#                 | 50#           |
| FFWS09  | 9/16  | 45                           | 2#                 | 5#                 | 50#           |
| FFWS10  | 5/8   | 37                           | 2#                 | 5#                 | 50#           |
| FFWS12  | 3/4   | 21                           | 2#                 | 5#                 | 50#           |
| FFWS14  | 7/8   | 15.5                         | 2#                 | 5#                 | 50#           |
| FFWS16  | 1     | 11.7                         | 2#                 | 5#                 | 50#           |
| FFWS18  | 1 1/8 | 9.2                          | 2#                 | 5#                 | 50#           |
| FFWS20  | 1 1/4 | 6.7                          | 2#                 | 5#                 | 50#           |
| FFWS24  | 1 1/2 | 4.6                          | 2#                 | 5#                 | 50#           |

## PLAIN FINISH • IMPORTED

| Part #  | Size  | Shop Pack Quantity | Bulk Quantity |
|---------|-------|--------------------|---------------|
| FFWSP06 | 3/8   | 5#                 | 50#           |
| FFWSP08 | 1/2   | 5#                 | 50#           |
| FFWSP10 | 5/8   | 5#                 | 50#           |
| FFWSP12 | 3/4   | 5#                 | 50#           |
| FFWSP14 | 7/8   | 5#                 | 50#           |
| FFWSP22 | 1 3/8 | 5#                 | 50#           |

## GRADE 8 • YELLOW ZINC PLATED • MADE IN USA OR IMPORTED

| Part #  | Size  | Shop Pack Quantity | Bulk Quantity |
|---------|-------|--------------------|---------------|
| FFW8S04 | 1/4   | 100                | 10000         |
| FFW8S05 | 5/16  | 100                | 10000         |
| FFW8S06 | 3/8   | 100                | 7000          |
| FFW8S07 | 7/16  | 100                | 5000          |
| FFW8S08 | 1/2   | 100                | 2425          |
| FFW8S09 | 9/16  | 50                 | 2250          |
| FFW8S10 | 5/8   | 50                 | 1340          |
| FFW8S12 | 3/4   | 50                 | 1120          |
| FFW8S14 | 7/8   | 25                 | 695           |
| FFW8S16 | 1     | 25                 | 555           |
| FFW8S18 | 1 1/8 | 25                 | 435           |
| FFW8S20 | 1 1/4 | 25                 | 350           |
| FFW8S24 | 1 1/2 | 25                 | 240           |

## 18-8 STAINLESS STEEL • IMPORTED

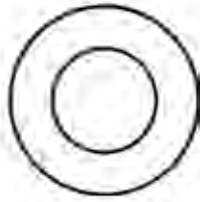
| Part #    | Size | Shop Pack Quantity |
|-----------|------|--------------------|
| FSSFWS010 | #10  | 100                |
| FSSFWS04  | 1/4  | 100                |
| FSSFWS05  | 5/16 | 100                |
| FSSFWS06  | 3/8  | 100                |
| FSSFWS07  | 7/16 | 50                 |
| FSSFWS08  | 1/2  | 100                |

Don't see the size you're looking for? Call us for availability!

# THICK SAE FLAT WASHERS & EXTRA THICK SAE FLAT WASHERS

## THICK SAE FLAT WASHERS

**GRADE 9 • YELLOW ZINC PLATED • MADE IN USA**



Thick SAE Flat Washers Grade 9 are thicker than regular SAE flat washers and have a Rockwell hardness of C38-C45 for heavy duty applications.

| Part #   | Size | Min Thickness | Max Thickness | Shop Pack Quantity | Bulk Quantity |
|----------|------|---------------|---------------|--------------------|---------------|
| FFW9ET05 | 5/16 | 0.079         | 0.093         | 100                | 8000          |
| FFW9ET06 | 3/8  | 0.079         | 0.093         | 100                | 5300          |
| FFW9ET07 | 7/16 | 0.090         | 0.106         | 100                | 3600          |
| FFW9ET08 | 1/2  | 0.122         | 0.146         | 100                | 2000          |
| FFW9ET10 | 5/8  | 0.136         | 0.160         | 50                 | 1150          |
| FFW9ET12 | 3/4  | 0.136         | 0.160         | 50                 | 950           |
| FFW9ET14 | 7/8  | 0.136         | 0.160         | 25                 | 650           |
| FFW9ET16 | 1    | 0.136         | 0.160         | 25                 | 500           |

## EXTRA THICK SAE FLAT WASHERS

**GRADE 8 • YELLOW ZINC PLATED • MADE IN USA**



Extra Thick SAE Flat Washers Grade 8 are the thickest flat washers we carry and are hardened to a Rockwell hardness of C38-C45 for the most heavy duty applications.

| Part #   | Size  | Min Thickness | Max Thickness | Shop Pack Quantity | Bulk Quantity |
|----------|-------|---------------|---------------|--------------------|---------------|
| FFW8ET04 | 1/4   | 0.090         | 0.110         | 100                | 5700          |
| FFW8ET05 | 5/16  | 0.090         | 0.110         | 100                | 5000          |
| FFW8ET06 | 3/8   | 0.110         | 0.126         | 100                | 3100          |
| FFW8ET07 | 7/16  | 0.110         | 0.126         | 100                | 2400          |
| FFW8ET08 | 1/2   | 0.156         | 0.188         | 100                | 1000          |
| FFW8ET09 | 9/16  | 0.156         | 0.188         | 50                 | 900           |
| FFW8ET10 | 5/8   | 0.170         | 0.195         | 50                 | 700           |
| FFW8ET12 | 3/4   | 0.170         | 0.195         | 25                 | 600           |
| FFW8ET14 | 7/8   | 0.235         | 0.265         | 25                 | 300           |
| FFW8ET16 | 1     | 0.235         | 0.265         | 25                 | 200           |
| FFW8ET18 | 1 1/8 | 0.235         | 0.265         | 25                 | 200           |
| FFW8ET20 | 1 1/4 | 0.235         | 0.265         | 25                 | 200           |
| FFW8ET24 | 1 1/2 | 0.286         | 0.340         | 10                 | 100           |

# STAINLESS STEEL FLAT WASHERS, ALUMINUM FLAT WASHERS & EXTRA THICK STAINLESS STEEL FLAT WASHERS

## STAINLESS STEEL FLAT WASHERS

### Dimensions



### 18-8 STAINLESS STEEL • IMPORTED

These flat washers are the standard flat washer in stainless steel.

| Washer Size | ID    | OD    | Thickness |       |
|-------------|-------|-------|-----------|-------|
|             |       |       | MAX       | MIN   |
| #4          | 0.125 | 0.312 | 0.040     | 0.025 |
| #6          | 0.156 | 0.375 | 0.065     | 0.036 |
| #8          | 0.188 | 0.438 | 0.065     | 0.036 |
| #10         | 0.195 | 0.354 | 0.070     | 0.056 |
| #12         | 0.250 | 0.562 | 0.057     | 0.043 |
| 1/4         | 0.281 | 0.625 | 0.057     | 0.043 |
| 5/16        | 0.343 | 0.750 | 0.057     | 0.043 |
| 3/8         | 0.406 | 0.875 | 0.057     | 0.043 |
| 7/16        | 0.500 | 1.125 | 0.069     | 0.055 |
| 1/2         | 0.531 | 1.250 | 0.069     | 0.055 |
| 5/8         | 0.687 | 1.500 | 0.085     | 0.071 |
| 3/4         | 0.812 | 1.875 | 0.116     | 0.102 |
| 7/8         | 0.937 | 2.000 | 0.116     | 0.102 |
| 1           | 1.062 | 2.000 | 0.132     | 0.118 |

| Part #  | Size | Shop Pack Quantity | Bulk Quantity |
|---------|------|--------------------|---------------|
| FSSF804 | #4   | 100                | -             |
| FSSF006 | #6   | 100                | -             |
| FSSF008 | #8   | 100                | -             |
| FSSF010 | #10  | 100                | -             |
| FSSF012 | #12  | 100                | -             |
| FSSF004 | 1/4  | 100                | 8750          |
| FSSF005 | 5/16 | 100                | 4500          |
| FSSF006 | 3/8  | 100                | 3500          |
| FSSF007 | 7/16 | 50                 | 2200          |
| FSSF008 | 1/2  | 100                | 1300          |
| FSSF010 | 5/8  | 50                 | 750           |
| FSSF012 | 3/4  | 50                 | 500           |
| FSSF014 | 7/8  | 25                 | 400           |
| FSSF016 | 1    | 25                 | 300           |

## ALUMINUM FLAT WASHERS

| Part # | Size | Dimensions    |           | Package Quantity |
|--------|------|---------------|-----------|------------------|
|        |      | ID X OD       | THICKNESS |                  |
| FAFW08 | #6   | 0.149 X 0.375 | 0.031     | 100              |
| FAFW12 | #10  | 0.203 X 0.437 | 0.031     | 100              |

## EXTRA THICK STAINLESS STEEL FLAT WASHERS

### SMALL OD • 300 SERIES STAINLESS STEEL • MADE IN USA

### Dimensions

| Washer Size | ID    | OD    | Thickness |
|-------------|-------|-------|-----------|
| 1/4         | 9/32  | 1/2   | 5/64      |
| 5/16        | 11/32 | 5/8   | 3/32      |
| 3/8         | 13/32 | 13/16 | 1/8       |

| Part #    | Size | Shop Pack Quantity |
|-----------|------|--------------------|
| FSSFWET04 | 1/4  | 100                |
| FSSFWET05 | 5/16 | 100                |
| FSSFWET06 | 3/8  | 100                |

### LARGE OD • 300 SERIES STAINLESS STEEL • MADE IN USA

### Dimensions

| Washer Size | ID    | OD  | Thickness |
|-------------|-------|-----|-----------|
| 1/4         | 9/32  | 5/8 | 1/8       |
| 5/16        | 11/32 | 3/4 | 1/8       |
| 3/8         | 13/32 | 1   | 1/8       |

| Part #     | Size | Shop Pack Quantity |
|------------|------|--------------------|
| FSSFWETU04 | 1/4  | 100                |
| FSSFWETU05 | 5/16 | 100                |
| FSSFWETU06 | 3/8  | 100                |

Don't see the size you're looking for? Call us for availability!

## REGULAR SPLIT LOCK WASHERS

## TECHNICAL INFORMATION

## Dimensions



| Washer Size | A     | B     |
|-------------|-------|-------|
| #8          | 0.040 | 0.055 |
| #10         | 0.047 | 0.062 |
| #12         | 0.056 | 0.070 |
| 1/4         | 0.109 | 0.062 |
| 5/16        | 0.125 | 0.078 |
| 3/8         | 0.141 | 0.094 |
| 7/16        | 0.156 | 0.109 |
| 1/2         | 0.171 | 0.125 |
| 9/16        | 0.188 | 0.141 |
| 5/8         | 0.203 | 0.156 |
| 3/4         | 0.234 | 0.188 |
| 7/8         | 0.266 | 0.219 |
| 1           | 0.297 | 0.250 |
| 1 1/8       | 0.281 | 0.328 |
| 1 1/4       | 0.312 | 0.359 |
| 1 3/8       | 0.344 | 0.391 |
| 1 1/2       | 0.375 | 0.422 |
| 1 3/4       | 0.389 | 0.424 |

## HOT DIP GALVANIZED • IMPORTED

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FLWG06 | 3/8  | 100                | 8000          |
| FLWG08 | 1/2  | 100                | 3750          |
| FLWG10 | 5/8  | 100                | 2000          |

## 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Shop Pack Quantity |
|----------|------|--------------------|
| FSSLW010 | #10  | 100                |
| FSSLW04  | 1/4  | 100                |
| FSSLW05  | 5/16 | 100                |
| FSSLW06  | 3/8  | 100                |
| FSSLW07  | 7/16 | 50                 |
| FSSLW08  | 1/2  | 100                |
| FSSLW10  | 5/8  | 50                 |
| FSSLW12  | 3/4  | 50                 |

## ZINC PLATED • MADE IN USA OR IMPORTED

Regular Split Lock Washers lock a regular hex nut onto a bolt with the spring action they provide.

| Part # | Size  | Shop Pack Quantity | Discount Pack Quantity | Bulk Quantity |
|--------|-------|--------------------|------------------------|---------------|
| FLW008 | #8    | 100                | 500                    | 50000         |
| FLW010 | #10   | 100                | 500                    | 75000         |
| FLW012 | #12   | 100                | 500                    | 45000         |
| FLW04  | 1/4   | 100                | 2100                   | 15000         |
| FLW05  | 5/16  | 100                | 1300                   | 12500         |
| FLW06  | 3/8   | 100                | 850                    | 8000          |
| FLW07  | 7/16  | 100                | 600                    | 5500          |
| FLW08  | 1/2   | 100                | 400                    | 3750          |
| FLW09  | 9/16  | 100                | 300                    | 2500          |
| FLW10  | 5/8   | 100                | 225                    | 2000          |
| FLW12  | 3/4   | 50                 | 150                    | 1250          |
| FLW14  | 7/8   | 25                 | 100                    | 750           |
| FLW16  | 1     | 25                 | 100                    | 500           |
| FLW18  | 1 1/8 | 25                 | 125                    | 350           |
| FLW20  | 1 1/4 | 10                 | 50                     | 250           |
| FLW22  | 1 3/8 | 1                  | 100                    | 200           |
| FLW24  | 1 1/2 | 1                  | 100                    | 125           |
| FLW28  | 1 3/4 | 1                  | 100                    | 100           |

## ALLOY • YELLOW ZINC PLATED • MADE IN USA

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FLW804 | 1/4  | 100                | 22500         |
| FLW805 | 5/16 | 100                | 12500         |
| FLW806 | 3/8  | 100                | 8000          |
| FLW807 | 7/16 | 100                | 5500          |
| FLW808 | 1/2  | 100                | 3750          |
| FLW809 | 9/16 | 100                | 2500          |
| FLW810 | 5/8  | 100                | 2000          |
| FLW812 | 3/4  | 50                 | 1250          |
| FLW814 | 7/8  | 25                 | 750           |
| FLW816 | 1    | 25                 | 500           |



# EXTERNAL & INTERNAL TOOTH LOCK WASHERS

## EXTERNAL TOOTH LOCK WASHERS

### TECHNICAL INFORMATION

#### Dimensions



| Washer Size | ID    |       | OD    |       | Thickness |  |
|-------------|-------|-------|-------|-------|-----------|--|
|             | BASIC | BASIC | MAX   | MIN   |           |  |
| #6          | 0.155 | 0.305 | 0.022 | 0.016 |           |  |
| #8          | 0.180 | 0.348 | 0.023 | 0.018 |           |  |
| #10         | 0.209 | 0.389 | 0.024 | 0.018 |           |  |
| #12         | 0.236 | 0.418 | 0.027 | 0.020 |           |  |
| 1/4         | 0.273 | 0.487 | 0.028 | 0.023 |           |  |
| 5/16        | 0.338 | 0.618 | 0.034 | 0.028 |           |  |
| 3/8         | 0.405 | 0.703 | 0.040 | 0.032 |           |  |
| 7/16        | 0.472 | 0.814 | 0.040 | 0.032 |           |  |
| 1/2         | 0.539 | 0.917 | 0.045 | 0.037 |           |  |
| 9/16        | 0.606 | 0.999 | 0.045 | 0.037 |           |  |
| 5/8         | 0.675 | 1.084 | 0.050 | 0.042 |           |  |
| 3/4         | 0.808 | 1.258 | 0.055 | 0.047 |           |  |

### ZINC PLATED • IMPORTED

External Tooth Lock Washers provide the best lock of all tooth lock washers.

| Part #   | Size | Shop Pack Quantity |
|----------|------|--------------------|
| FLWEX006 | #6   | 100                |
| FLWEX008 | #8   | 100                |
| FLWEX010 | #10  | 100                |
| FLWEX012 | #12  | 100                |
| FLWEX04  | 1/4  | 100                |
| FLWEX05  | 5/16 | 100                |
| FLWEX06  | 3/8  | 100                |
| FLWEX07  | 7/16 | 100                |
| FLWEX08  | 1/2  | 100                |
| FLWEX10  | 5/8  | 50                 |
| FLWEX12  | 3/4  | 50                 |

### 400 SERIES • STAINLESS STEEL • IMPORTED

| Part #     | Size | Shop Pack Quantity |
|------------|------|--------------------|
| FSSLWEX010 | #10  | 100                |
| FSSLWEX04  | 1/4  | 100                |

## INTERNAL TOOTH LOCK WASHERS

### ZINC PLATED • IMPORTED



Internal Tooth Lock Washers are used where a finished appearance is desired or when a smaller headed fastener is used.

| Part #   | Size | Shop Pack Quantity |
|----------|------|--------------------|
| FLWIN006 | #6   | 100                |
| FLWIN008 | #8   | 100                |
| FLWIN010 | #10  | 100                |
| FLWIN012 | #12  | 100                |
| FLWIN04  | 1/4  | 100                |
| FLWIN05  | 5/16 | 100                |
| FLWIN06  | 3/8  | 100                |
| FLWIN07  | 7/16 | 100                |
| FLWIN08  | 1/2  | 100                |
| FLWIN09  | 9/16 | 50                 |
| FLWIN10  | 5/8  | 50                 |

# STRUCTURAL WASHERS & BEVELED WASHERS

## STRUCTURAL WASHERS TECHNICAL INFORMATION



### Dimensions

| Washer Size | ID     | OD      | Thickness   |
|-------------|--------|---------|-------------|
| 1/2         | 17/32  | 1 1/16  | 0.097/0.177 |
| 5/8         | 11/16  | 1 5/16  | 0.122/0.177 |
| 3/4         | 13/16  | 1 15/32 | 0.122/0.177 |
| 7/8         | 15/16  | 1 3/4   | 0.136/0.177 |
| 1           | 1 1/16 | 2       | 0.136/0.177 |
| 1 1/8       | 1 3/16 | 2 1/4   | 0.136/0.177 |
| 1 1/4       | 1 3/8  | 2 1/2   | 0.136/0.177 |

### F436 • PLAIN FINISH • MADE IN USA OR IMPORTED

Structural Washers are manufactured to ASTM F436 specs and are designed especially for use with A325 and A490 structural bolts.

| Part #    | Size  | Shop Pack Quantity | Bulk Quantity |
|-----------|-------|--------------------|---------------|
| FFWA32508 | 1/2   | 100                | 2500          |
| FFWA32510 | 5/8   | 50                 | 1250          |
| FFWA32512 | 3/4   | 50                 | 1125          |
| FFWA32514 | 7/8   | 25                 | 625           |
| FFWA32516 | 1     | 25                 | 500           |
| FFWA32518 | 1 1/8 | 25                 | 375           |
| FFWA32520 | 1 1/4 | 25                 | 300           |

### F436 • HOT DIP GALVANIZED • MADE IN USA OR IMPORTED

| Part #     | Size | Shop Pack Quantity | Bulk Quantity |
|------------|------|--------------------|---------------|
| FFWA325G08 | 1/2  | 100                | 2500          |
| FFWA325G10 | 5/8  | 50                 | 1250          |
| FFWA325G12 | 3/4  | 50                 | 1125          |

Don't see the size you're looking for? Call us for availability!

## BEVELED WASHERS TECHNICAL INFORMATION



### Dimensions

| Washer Size | ID    | OD    |
|-------------|-------|-------|
| 1/2         | 17/32 | 1 3/4 |
| 5/8         | 11/16 | 1 3/4 |
| 3/4         | 13/16 | 1 3/4 |
| 7/8         | 15/16 | 1 3/4 |
| 1           | 1 1/8 | 1 3/4 |

### PLAIN FINISH • IMPORTED

Beveled Washers are used to fasten bolts to the Flanges of I-beams.

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FBW08  | 1/2  | 50                 | 540           |
| FBW10  | 5/8  | 25                 | 360           |
| FBW12  | 3/4  | 25                 | 300           |
| FBW16  | 1    | 10                 | 135           |

# FENDER WASHERS

## ZINC PLATED • IMPORTED



Fender Washers are used anywhere where a washer with extra surface area is needed. Size is measured ID X OD. The ID is 1/32" oversized and the thickness is approximately 1/16".

| Part #   | Size         | Shop Pack Quantity | Bulk Quantity |
|----------|--------------|--------------------|---------------|
| FFEW0410 | #6 X 5/8     | 100                | -             |
| FFEW0412 | #6 X 3/4     | 100                | 7890          |
| FFEW0512 | #8 X 3/4     | 100                | -             |
| FFEW0612 | #10 X 3/4    | 100                | 6500          |
| FFEW0616 | #10 X 1      | 100                | 3630          |
| FFEW0620 | #10 X 1 1/4  | 100                | 2280          |
| FFEW0816 | 1/4 X 1      | 100                | 3750          |
| FFEW0820 | 1/4 X 1 1/4  | 100                | 2330          |
| FFEW0824 | 1/4 X 1 1/2  | 100                | 1590          |
| FFEW0832 | 1/4 X 2      | 100                | 882           |
| FFEW1020 | 5/16 X 1 1/4 | 100                | 2390          |
| FFEW1024 | 5/16 X 1 1/2 | 100                | 1620          |
| FFEW1220 | 3/8 X 1 1/4  | 100                | 2480          |
| FFEW1224 | 3/8 X 1 1/2  | 100                | 1650          |
| FFEW1232 | 3/8 X 2      | 100                | 902           |
| FFEW1632 | 1/2 X 2      | 100                | 930           |

## 1/8" THICK • ZINC PLATED • MADE IN USA OR IMPORTED

| Part #    | Size         | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|--------------------|---------------|
| FFEW08162 | 1/4 X 1      | 100                | 2000          |
| FFEW08242 | 1/4 X 1 1/2  | 100                | 850           |
| FFEW10202 | 5/16 X 1 1/4 | 100                | 1250          |
| FFEW10242 | 5/16 X 1 1/2 | 100                | 875           |
| FFEW12202 | 3/8 X 1 1/4  | 100                | 1300          |
| FFEW12242 | 3/8 X 1 1/2  | 100                | 900           |
| FFEW16322 | 1/2 X 2      | 50                 | 500           |

## 18-8 STAINLESS STEEL • IMPORTED

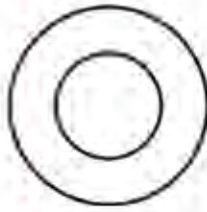
| Part #      | Size         | Shop Pack Quantity |
|-------------|--------------|--------------------|
| FSSFEW01006 | 10 X 3/4     | 100                |
| FSSFEW01008 | 10 X 1       | 100                |
| FSSFEW0408  | 1/4 X 1      | 100                |
| FSSFEW0410  | 1/4 X 1 1/4  | 100                |
| FSSFEW0510  | 5/16 X 1 1/4 | 100                |
| FSSFEW0512  | 5/16 X 1 1/2 | 100                |
| FSSFEW0608  | 3/8 X 1      | 100                |
| FSSFEW0612  | 3/8 X 1 1/2  | 100                |

# MACHINERY BUSHINGS

## Dimensional Information:

18 Gauge 0.042/0.054 thick  
 14 Gauge 0.068/0.082 thick  
 10 Gauge 0.126/0.142 thick

Tolerances for OD +0.010/-0.010  
 Tolerances for ID +0.010/+0.025



Machinery Bushings reduce wear between moving parts, prevent marring of finishes, and can be used as spacers. They are manufactured from low carbon steel. Size is given here as ID X OD.

## NARROW RIM • 18 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBN808 | 1/2 X 7/8     | 25                 |
| FMBN809 | 9/16 X 1      | 25                 |
| FMBN810 | 5/8 X 1       | 25                 |
| FMBN812 | 3/4 X 1 1/4   | 25                 |
| FMBN814 | 7/8 X 1 3/8   | 25                 |
| FMBN816 | 1 X 1 1/2     | 25                 |
| FMBN818 | 1 1/8 X 1 3/4 | 25                 |
| FMBN820 | 1 1/4 X 1 7/8 | 25                 |
| FMBN822 | 1 3/8 X 2 1/8 | 25                 |
| FMBN824 | 1 1/2 X 2 1/4 | 25                 |
| FMBN828 | 1 3/4 X 2 1/2 | 25                 |
| FMBN840 | 2 1/2 X 3 1/2 | 10                 |

## NARROW RIM • 14 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBN408 | 1/2 X 7/8     | 25                 |
| FMBN409 | 9/16 X 1      | 25                 |
| FMBN410 | 5/8 X 1       | 25                 |
| FMBN412 | 3/4 X 1 1/4   | 25                 |
| FMBN414 | 7/8 X 1 3/8   | 25                 |
| FMBN416 | 1 X 1 1/2     | 25                 |
| FMBN418 | 1 1/8 X 1 3/4 | 25                 |
| FMBN420 | 1 1/4 X 1 7/8 | 25                 |
| FMBN422 | 1 3/8 X 2 1/8 | 25                 |
| FMBN424 | 1 1/2 X 2 1/4 | 25                 |
| FMBN426 | 1 5/8 X 2 3/8 | 25                 |
| FMBN428 | 1 3/4 X 2 1/2 | 25                 |
| FMBN430 | 1 7/8 X 2 7/8 | 25                 |
| FMBN432 | 2 X 3         | 10                 |
| FMBN434 | 2 1/8 X 3 1/8 | 10                 |
| FMBN436 | 2 1/4 X 3 1/4 | 10                 |
| FMBN438 | 2 3/8 X 3 3/8 | 10                 |
| FMBN440 | 2 1/2 X 3 1/2 | 10                 |

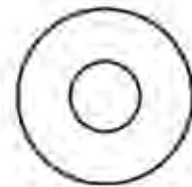
# MACHINERY BUSHINGS

## NARROW RIM • 10 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBN012 | 3/4 X 1 1/4   | 25                 |
| FMBN014 | 7/8 X 1 3/8   | 25                 |
| FMBN016 | 1 X 1 1/2     | 25                 |
| FMBN018 | 1 1/8 X 1 3/4 | 25                 |
| FMBN020 | 1 1/4 X 1 7/8 | 25                 |
| FMBN022 | 1 3/8 X 2 1/8 | 25                 |
| FMBN024 | 1 1/2 X 2 1/4 | 25                 |
| FMBN026 | 1 5/8 X 2 3/8 | 25                 |
| FMBN028 | 1 3/4 X 2 1/2 | 25                 |
| FMBN030 | 1 7/8 X 2 7/8 | 25                 |
| FMBN032 | 2 X 3         | 10                 |
| FMBN034 | 2 1/8 X 3 1/8 | 10                 |

## WIDE RIM • 18 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size      | Shop Pack Quantity |
|---------|-----------|--------------------|
| FMBW816 | 1 X 2     | 25                 |
| FMBW844 | 2 3/4 X 4 | 10                 |



## WIDE RIM • 14 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBW410 | 5/8 X 1 1/4   | 25                 |
| FMBW412 | 3/4 X 1 1/2   | 25                 |
| FMBW414 | 7/8 X 1 3/4   | 25                 |
| FMBW416 | 1 X 2         | 25                 |
| FMBW418 | 1 1/8 X 2 1/8 | 25                 |
| FMBW420 | 1 1/4 X 2 1/4 | 25                 |
| FMBW422 | 1 3/8 X 2 1/2 | 25                 |
| FMBW424 | 1 1/2 X 3     | 25                 |

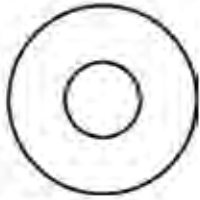
| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBW426 | 1 5/8 X 3 1/8 | 25                 |
| FMBW428 | 1 3/4 X 3 1/4 | 25                 |
| FMBW430 | 1 7/8 X 3 3/8 | 25                 |
| FMBW432 | 2 X 3 1/2     | 10                 |
| FMBW434 | 2 1/8 X 3 5/8 | 10                 |
| FMBW436 | 2 1/4 X 3 3/4 | 10                 |
| FMBW440 | 2 1/2 X 3 7/8 | 10                 |
| FMBW444 | 2 3/4 X 4     | 10                 |

## WIDE RIM • 10 GAUGE • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #  | Size          | Shop Pack Quantity |
|---------|---------------|--------------------|
| FMBW012 | 3/4 X 1 1/2   | 25                 |
| FMBW016 | 1 X 2         | 25                 |
| FMBW020 | 1 1/4 X 2 1/4 | 25                 |
| FMBW024 | 1 1/2 X 3     | 25                 |
| FMBW028 | 1 3/4 X 3 1/4 | 25                 |
| FMBW032 | 2 X 3 1/2     | 10                 |

# NYLON FLAT WASHERS

**MADE IN USA**



Nylon Flat Washers are strong yet light weight, can be used indoors or outdoors and are an excellent way to protect a finish.

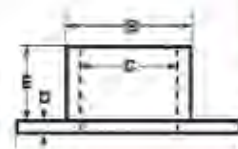
| Part #            | Size                              | Color | Shop Pack Quantity | Bulk Quantity |
|-------------------|-----------------------------------|-------|--------------------|---------------|
| FNFW050002570062  | 0.500 OD X 0.257 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW050003170062  | 0.500 OD X 0.317 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW062001870062  | 0.620 OD X 0.187 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW062502570062  | 0.625 OD X 0.257 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW062503120062  | 0.625 OD X 0.312 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW062503800032  | 0.625 OD X 0.380 ID X 0.032 THICK | WHITE | 100                | 5000          |
| AV13907           | 0.687 OD X 0.586 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW070903350039  | 0.709 OD X 0.335 ID X 0.039 THICK | WHITE | 100                | 5000          |
| FNFW075003800062  | 0.750 OD X 0.380 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW075004430032  | 0.750 OD X 0.443 ID X 0.032 THICK | WHITE | 100                | 5000          |
| FNFW075004430062  | 0.750 OD X 0.443 ID X 0.062 THICK | WHITE | 100                | 5000          |
| AV13911           | 0.750 OD X 0.505 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW075503920123  | 0.755 OD X 0.392 ID X 0.123 THICK | WHITE | 100                | 5000          |
| FNFW087503150062  | 0.875 OD X 0.315 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW094403310098  | 0.944 OD X 0.331 ID X 0.098 THICK | WHITE | 100                | 5000          |
| FNFW098404060125  | 0.984 OD X 0.406 ID X 0.125 THICK | WHITE | 100                | 5000          |
| FNFW100004110062  | 1.000 OD X 0.411 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW100005000031  | 1.000 OD X 0.500 ID X 0.031 THICK | WHITE | 100                | 5000          |
| FNFW100005080062  | 1.000 OD X 0.508 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW100005180080  | 1.000 OD X 0.518 ID X 0.080 THICK | WHITE | 100                | 5000          |
| FNFW100006320076  | 1.000 OD X 0.632 ID X 0.076 THICK | WHITE | 100                | 5000          |
| FNFW125005000062  | 1.250 OD X 0.500 ID X 0.062 THICK | WHITE | 100                | 5000          |
| FNFW125005620060  | 1.250 OD X 0.562 ID X 0.060 THICK | WHITE | 100                | 5000          |
| FNFW125007650080  | 1.250 OD X 0.765 ID X 0.080 THICK | WHITE | 100                | 5000          |
| AV13920           | 1.375 OD X 0.525 ID X 0.125 THICK | WHITE | 100                | 5000          |
| FNFW150006960120  | 1.500 OD X 0.696 ID X 0.120 THICK | WHITE | 100                | 2500          |
| FNFW200006300125  | 2.000 OD X 0.630 ID X 0.125 THICK | WHITE | 100                | 1250          |
| FNFWB050002570062 | 0.500 OD X 0.257 ID X 0.062 THICK | BLACK | 100                | 5000          |
| FNFWB062501870042 | 0.625 OD X 0.187 ID X 0.042 THICK | BLACK | 100                | 5000          |
| FNFWB062502570062 | 0.625 OD X 0.257 ID X 0.062 THICK | BLACK | 100                | 5000          |
| FNFWB200703150197 | 2.007 OD X 0.315 ID X 0.197 THICK | BLACK | 100                | 1250          |

Need a different size or color? Call us for availability!

# NYLON SHOULDER WASHERS, NYLON SPACERS & RIVET WASHER

## NYLON SHOULDER WASHERS TECHNICAL INFORMATION

### Dimensions



| Part Number      | A     | B     | C     | D     | E     |
|------------------|-------|-------|-------|-------|-------|
| FNSW075002660188 | 0.750 | 0.350 | 0.266 | 0.062 | 0.188 |
| FNSW075004700174 | 0.750 | 0.625 | 0.470 | 0.066 | 0.174 |
| FNSW125004370375 | 1.250 | 0.650 | 0.437 | 0.125 | 0.375 |

### NATURAL NYLON • MADE IN USA



Nylon Shoulder Washers are an excellent way to protect a surface. They are light weight and will not corrode.

| Part #           | Size                              | Shop Pack Quantity | Bulk Quantity |
|------------------|-----------------------------------|--------------------|---------------|
| FNSW075002660188 | 0.750 OD X 0.266 ID X 0.188 SHANK | 100                | 5000          |
| FNSW075004700174 | 0.750 OD X 0.470 ID X 0.174 SHANK | 100                | 5000          |
| FNSW125004370375 | 1.250 OD X 0.437 ID X 0.375 SHANK | 100                | 5000          |

## NYLON SPACERS MADE IN USA



Nylon Spacers are lightweight and strong. They will not corrode and can be used outdoors and indoors.

| Part #            | Size                              | Color | Shop Pack Quantity | Bulk Quantity |
|-------------------|-----------------------------------|-------|--------------------|---------------|
| FNSP050002570125  | 0.500 OD X 0.257 ID X 0.125 THICK | WHITE | 100                | 5000          |
| FNSP050002570250  | 0.500 OD X 0.257 ID X 0.250 THICK | WHITE | 100                | 5000          |
| FNSP075002660187  | 0.750 OD X 0.266 ID X 0.187 THICK | WHITE | 100                | 5000          |
| FNSPB075003120390 | 0.750 OD X 0.312 ID X 0.390 THICK | BLACK | 100                | 5000          |
| FNSPB100003750500 | 1.000 OD X 0.375 ID X 0.500 THICK | BLACK | 100                | 5000          |
| FNSPB100005050250 | 1.000 OD X 0.505 ID X 0.250 THICK | BLACK | 100                | 5000          |

Need a different size or color? Call us for availability!

## RIVET WASHER ZINC PLATED • MADE IN USA

| Part # | Size       | Material | Package Quantity |
|--------|------------|----------|------------------|
| FRW02  | 1/8 X 3/8  | STEEL    | 100              |
| FRW03  | 3/16 X 1/2 | STEEL    | 100              |
| FRW04  | 1/4 X 1/2  | STEEL    | 100              |
| FRWA03 | 3/16 X 1/2 | ALUMINUM | 100              |



Rivet Washers are used to compensate for soft materials or oversized holes when using blind rivets. Size is ID X OD X Thickness.

Don't see the size you're looking for? Call us for availability!

# COUNTERSUNK FINISHING, NEOPRENE BONDED SEALING WASHERS & QUICK REPAIR WASHERS

## COUNTERSUNK FINISHING WASHERS TECHNICAL INFORMATION

### Dimensions

| Washer Size | ID    | OD    | Height |
|-------------|-------|-------|--------|
| #6          | 0.180 | 0.447 | 0.091  |
| #8          | 0.200 | 0.531 | 0.099  |
| #10         | 0.257 | 0.594 | 0.115  |



### NICKEL PLATED • IMPORTED

Countersunk Finishing Washers are designed to use with oval head or countersunk flat head screws. They give additional bearing surface and a neat finished appearance.

| Part #  | Size | Shop Pack Quantity | Bulk Quantity |
|---------|------|--------------------|---------------|
| FFIW006 | #6   | 100                | 10000         |
| FFIW008 | #8   | 100                | 10000         |
| FFIW010 | #10  | 100                | 10000         |

### 18-8 STAINLESS STEEL • IMPORTED

| Part #    | Size | Shop Pack Quantity |
|-----------|------|--------------------|
| FSSFIW006 | #6   | 100                |
| FSSFIW008 | #8   | 100                |
| FSSFIW010 | #10  | 100                |

## NEOPRENE BONDED SEALING WASHERS GALVANIZED • MADE IN USA



Neoprene Bonded Washers provide a weather tight seal. They are commonly used in applications such as grain bins or fastening sheet metal to a building.

| Part #  | Size         | Shop Pack Quantity | Bulk Quantity |
|---------|--------------|--------------------|---------------|
| FWCMS04 | 1/4 X 5/8    | 100                | 7500          |
| FWCMS05 | 5/16 X 23/32 | 100                | 6000          |
| FWCMS06 | 3/8 X 23/32  | 100                | 6000          |

## QUICK REPAIR WASHERS ZINC PLATED • IMPORTED



Quick Repair Washers are an economical way to get a washer or spacer into a spot that would require a lot of disassembly otherwise. Size is given as ID X OD and they are 1/8" thick.

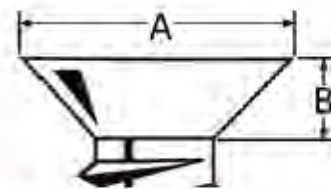
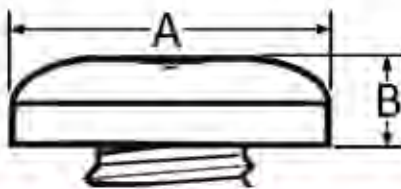
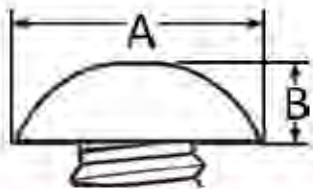
| Part # | Size          | Discount Quantity |
|--------|---------------|-------------------|
| FQRW12 | 3/4 X 1 3/4   | 100               |
| FQRW14 | 7/8 X 1 7/8   | 100               |
| FQRW16 | 1 X 2         | 100               |
| FQRW18 | 1 1/8 X 2 1/8 | 100               |
| FQRW20 | 1 1/4 X 2 1/4 | 100               |

| Part # | Size          | Discount Quantity |
|--------|---------------|-------------------|
| FQRW22 | 1 3/8 X 2 3/8 | 100               |
| FQRW24 | 1 1/2 X 2 1/2 | 100               |
| FQRW28 | 1 3/4 X 2 3/4 | 100               |
| FQRW32 | 2 X 3         | 100               |

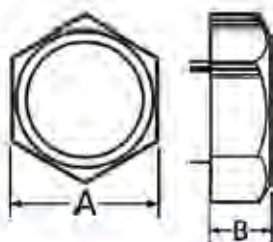
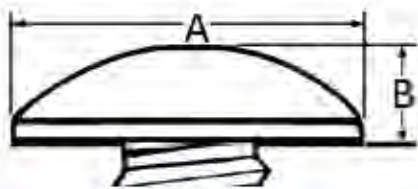


## TECHNICAL INFORMATION

### Head Dimensions



| Size | Round  |       |            |       | Pan    |       |            |       | Flat   |       |            |       |
|------|--------|-------|------------|-------|--------|-------|------------|-------|--------|-------|------------|-------|
|      | A (OD) |       | B (Height) |       | A (OD) |       | B (Height) |       | A (OD) |       | B (Height) |       |
|      | MAX    | MIN   | MAX        | MIN   | MAX    | MIN   | MAX        | MIN   | MAX    | MIN   | MAX        | MIN   |
| #4   | 0.211  | 0.193 | 0.086      | 0.075 | 0.219  | 0.205 | 0.080      | 0.070 | 0.212  | 0.191 | 0.067      | 0.055 |
| #5   | 0.236  | 0.217 | 0.095      | 0.083 | 0.245  | 0.231 | 0.089      | 0.079 | 0.237  | 0.215 | 0.075      | 0.062 |
| #6   | 0.260  | 0.240 | 0.103      | 0.091 | 0.270  | 0.256 | 0.097      | 0.087 | 0.262  | 0.238 | 0.083      | 0.069 |
| #7   | -      | -     | -          | -     | 0.296  | 0.281 | 0.106      | 0.096 | 0.287  | 0.262 | 0.091      | 0.076 |
| #8   | 0.309  | 0.287 | 0.120      | 0.107 | 0.322  | 0.306 | 0.115      | 0.105 | 0.312  | 0.285 | 0.100      | 0.084 |
| #9   | -      | -     | -          | -     | -      | -     | -          | -     | 0.358  | 0.316 | 0.108      | 0.091 |
| #10  | 0.359  | 0.334 | 0.137      | 0.123 | 0.373  | 0.357 | 0.133      | 0.122 | 0.362  | 0.333 | 0.116      | 0.098 |
| #12  | 0.408  | 0.382 | 0.153      | 0.139 | 0.425  | 0.407 | 0.151      | 0.139 | 0.412  | 0.380 | 0.132      | 0.112 |
| #14  | 0.472  | 0.443 | 0.175      | 0.160 | 0.476  | 0.457 | 0.169      | 0.156 | 0.462  | 0.427 | 0.148      | 0.126 |
| 5/16 | 0.590  | 0.557 | 0.216      | 0.198 | 0.615  | 0.594 | 0.218      | 0.203 | 0.597  | 0.556 | 0.191      | 0.165 |
| 3/8  | 0.708  | 0.670 | 0.256      | 0.237 | 0.740  | 0.716 | 0.261      | 0.244 | 0.717  | 0.670 | 0.230      | 0.200 |

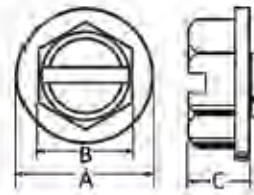
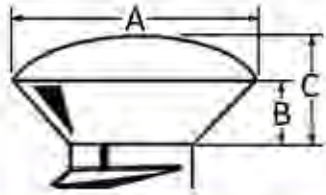


| Size | Truss  |       |            |       | Hex Head           |            |       | Bugle |       |
|------|--------|-------|------------|-------|--------------------|------------|-------|-------|-------|
|      | A (OD) |       | B (Height) |       | A                  | B (Height) |       | OD    |       |
|      | MAX    | MIN   | MAX        | MIN   | WIDTH ACROSS FLATS | MAX        | MIN   | MAX   | MIN   |
| #4   | 0.257  | 0.241 | 0.069      | 0.059 | 3/16               | 0.060      | 0.049 | -     | -     |
| #6   | 0.321  | 0.303 | 0.086      | 0.074 | 1/4                | 0.093      | 0.080 | 0.347 | 0.315 |
| #8   | 0.384  | 0.364 | 0.102      | 0.088 | 1/4                | 0.110      | 0.096 | 0.363 | 0.315 |
| #10  | 0.448  | 0.425 | 0.118      | 0.103 | 5/16               | 0.120      | 0.105 | 0.363 | 0.334 |
| #12  | 0.511  | 0.487 | 0.134      | 0.118 | 5/16               | 0.155      | 0.139 | 0.415 | 0.390 |
| #14  | 0.573  | 0.546 | 0.150      | 0.133 | 7/16               | 0.230      | 0.208 | 0.472 | 0.450 |
| 5/16 | 0.698  | 0.666 | 0.183      | 0.162 | 1/2                | 0.230      | 0.208 | -     | -     |
| 3/8  | 0.823  | 0.787 | 0.215      | 0.191 | 9/16               | 0.295      | 0.270 | -     | -     |

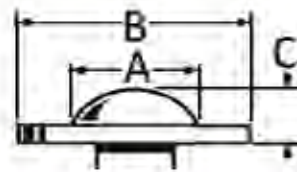
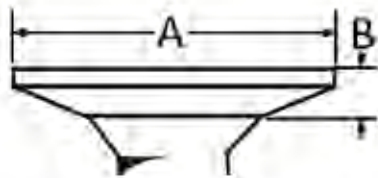
## SCREWS

## TECHNICAL INFORMATION

## Head Dimensions



| Size | Oval Head |       |                    |                | Hex Washer Head |       |                  |            |       |
|------|-----------|-------|--------------------|----------------|-----------------|-------|------------------|------------|-------|
|      | A (OD)    |       | B                  | C              | A (Washer OD)   |       | B                | C (Height) |       |
|      | MAX       | MIN   | COUNTERSUNK HEIGHT | OVERALL HEIGHT | MAX             | MIN   | ACROSS THE FLATS | MAX        | MIN   |
| #4   | 0.212     | 0.191 | 0.067              | 0.104          | 0.243           | 0.225 | 3/16             | 0.079      | 0.060 |
| #6   | 0.262     | 0.238 | 0.083              | 0.140          | 0.328           | 0.302 | 1/4              | 0.118      | 0.095 |
| #8   | 0.312     | 0.285 | 0.100              | 0.152          | 0.348           | 0.322 | 1/4              | 0.141      | 0.115 |
| #10  | 0.362     | 0.333 | 0.116              | 0.176          | 0.414           | 0.384 | 5/16             | 0.151      | 0.124 |
| #12  | 0.412     | 0.380 | 0.132              | 0.200          | 0.432           | 0.398 | 5/16             | 0.194      | 0.161 |
| #14  | 0.462     | 0.427 | 0.148              | 0.224          | 0.520           | 0.480 | 3/8              | 0.240      | 0.202 |
| 5/16 | 0.597     | 0.556 | 0.191              | 0.290          | 0.590           | 0.551 | 7/16             | 0.293      | 0.245 |
| 3/8  | 0.717     | 0.670 | 0.230              | 0.347          | 0.780           | 0.720 | 9/16             | 0.358      | 0.307 |



| Size | Wafer Head |       |                 |       | Round Washer Head |           |           |       |
|------|------------|-------|-----------------|-------|-------------------|-----------|-----------|-------|
|      | OD         |       | Wafer Thickness |       | Crown Diameter    | Washer OD | Thickness |       |
|      | MAX        | MIN   | MAX             | MIN   | BASIC             | BASIC     | MAX       | MIN   |
| #8   | 0.380      | 0.359 | 0.035           | 0.025 | 0.259             | 3/8       | 0.113     | 0.101 |
| #10  | 0.516      | 0.441 | 0.040           | 0.031 | 0.300             | 7/16      | 0.130     | 0.118 |
| #12  | 0.552      | 0.511 | 0.268           | 0.254 | -                 | -         | -         | -     |
| #14  | 0.620      | 0.580 | 0.282           | 0.267 | 0.396             | 9/16      | 0.170     | 0.157 |

# SCREWS

## TECHNICAL INFORMATION

### Concrete Screw Dimensions

| Size | Hex Washer Head        |             |           |                        | Phillips Flat Head |             |                        |
|------|------------------------|-------------|-----------|------------------------|--------------------|-------------|------------------------|
|      | Width Across the Flats | Head Height | Washer OD | Fixture Clearance Hole | Head Diameter      | Head Height | Fixture Clearance Hole |
| 3/16 | 1/4                    | 9/64        | 11/32     | 1/4                    | 3/8                | 9/64        | 1/4                    |
| 1/4  | 5/16                   | 11/64       | 13/32     | 5/16                   | 1/2                | 3/16        | 5/16                   |

### Drill Point Dimensions

| Size | Drill Point Length |       |           |
|------|--------------------|-------|-----------|
|      | #2                 | #3    | #4 Winged |
| 6    | 0.190              | 0.220 | -         |
| 8    | 0.211              | 0.251 | -         |
| 10   | 0.235              | 0.300 | -         |
| 12   | 0.283              | 0.353 | 0.571     |
| 1/4  | 0.318              | 0.393 | -         |
| 5/16 | -                  | 0.391 | -         |
| 3/8  | -                  | 0.334 | -         |

### Type A and AB Information

The main difference between Type A and Type AB screws is the thread count.

| Size | Type A | Type AB |
|------|--------|---------|
| 4    | -      | 24      |
| 5    | -      | 20      |
| 6    | 18     | 20      |
| 7    | 16     | 19      |
| 8    | 15     | 18      |
| 10   | 12     | 16      |
| 12   | 11     | 14      |
| 14   | 10     | 14      |
| 5/16 | 9      | 12      |

### Screw Diameter Table

| Screw Size | Decimal Size | Fractional Size |
|------------|--------------|-----------------|
| #24        | 0.372        | 3/8             |
| #20        | 0.320        | 5/16            |
| #14        | 0.242        | 1/4             |
| #12        | 0.216        | 7/32            |
| #10        | 0.190        | 3/16            |
| #9         | 0.177        | 11/64           |
| #8         | 0.164        | 5/32            |
| #7         | 0.151        | 5/32            |
| #6         | 0.138        | 9/64            |
| #5         | 0.125        | 1/8             |
| #4         | 0.112        | 7/64            |
| #3         | 0.099        | 7/64            |
| #2         | 0.086        | 3/32            |
| #1         | 0.073        | 5/64            |
| #0         | 0.060        | 1/16            |

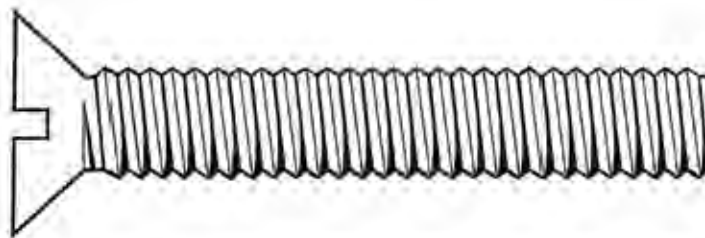
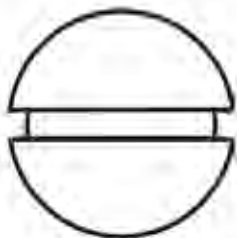
### Drill Size for Type F Self Threading Screws

| Screw Size | Drill Size |
|------------|------------|
| 6-32       | 7/64       |
| 8-32       | 9/64       |
| 10-24      | 5/32       |
| 10-32      | #20        |
| 12-24      | 3/16       |
| 1/4-20     | 13/64      |
| 5/16-18    | 17/64      |
| 3/8-16     | 5/16       |
| 1/2-13     | 27/64      |

# SLOTTED FLAT HEAD MACHINE SCREWS

Machine Screws are manufactured from low carbon steel and are not hardened. A wide variety of head styles are available .

## COARSE THREAD • ZINC PLATED • IMPORTED



| Part #   | Size           | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|---------------|
| FSSF0604 | 6-32 X 1/2     | 100                | 15000         |
| FSSF0606 | 6-32 X 3/4     | 100                | 12000         |
| FSSF0608 | 6-32 X 1       | 100                | 12000         |
| FSSF0610 | 6-32 X 1 1/4   | 100                | 9000          |
| FSSF0804 | 8-32 X 1/2     | 100                | 12000         |
| FSSF0806 | 8-32 X 3/4     | 100                | 8000          |
| FSSF0808 | 8-32 X 1       | 100                | 7000          |
| FSSF0810 | 8-32 X 1 1/4   | 100                | 6000          |
| FSSF0812 | 8-32 X 1 1/2   | 100                | 5000          |
| FSSF1003 | 10-24 X 3/8    | 100                | 9000          |
| FSSF1004 | 10-24 X 1/2    | 100                | 8000          |
| FSSF1005 | 10-24 X 5/8    | 100                | 7500          |
| FSSF1006 | 10-24 X 3/4    | 100                | 7000          |
| FSSF1008 | 10-24 X 1      | 100                | 5000          |
| FSSF1010 | 10-24 X 1 1/4  | 100                | 4000          |
| FSSF1012 | 10-24 X 1 1/2  | 100                | 4000          |
| FSSF1014 | 10-24 X 1 3/4  | 100                | 3000          |
| FSSF1016 | 10-24 X 2      | 100                | 2500          |
| FSSF1020 | 10-24 X 2 1/2  | 100                | 2000          |
| FSSF1024 | 10-24 X 3      | 100                | 1600          |
| FSSF1028 | 10-24 X 3 1/2  | 100                | 1500          |
| FSSF406  | 1/4-20 X 3/4   | 100                | 3000          |
| FSSF408  | 1/4-20 X 1     | 100                | 2500          |
| FSSF410  | 1/4-20 X 1 1/4 | 100                | 2000          |
| FSSF412  | 1/4-20 X 1 1/2 | 100                | 2000          |

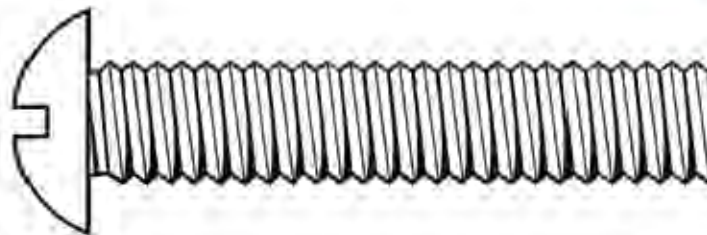
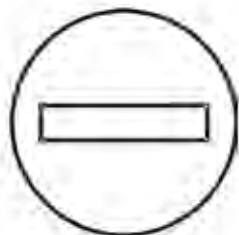
| Part #  | Size            | Shop Pack Quantity | Bulk Quantity |
|---------|-----------------|--------------------|---------------|
| FSSF416 | 1/4-20 X 2      | 100                | 1600          |
| FSSF418 | 1/4-20 X 2 1/4  | 100                | 1400          |
| FSSF420 | 1/4-20 X 2 1/2  | 100                | 1200          |
| FSSF424 | 1/4-20 X 3      | 100                | 1000          |
| FSSF428 | 1/4-20 X 3 1/2  | 100                | 800           |
| FSSF506 | 5/16-18 X 3/4   | 100                | 1600          |
| FSSF508 | 5/16-18 X 1     | 100                | 1400          |
| FSSF510 | 5/16-18 X 1 1/4 | 100                | 1200          |
| FSSF512 | 5/16-18 X 1 1/2 | 100                | 1000          |
| FSSF516 | 5/16-18 X 2     | 100                | 900           |
| FSSF518 | 5/16-18 X 2 1/4 | 100                | 800           |
| FSSF520 | 5/16-18 X 2 1/2 | 100                | 800           |
| FSSF524 | 5/16-18 X 3     | 100                | 600           |
| FSSF528 | 5/16-18 X 3 1/2 | 50                 | 600           |
| FSSF532 | 5/16-18 X 4     | 50                 | 500           |
| FSSF540 | 5/16-18 X 5     | 50                 | 400           |
| FSSF612 | 3/8-16 X 1 1/2  | 100                | 800           |
| FSSF616 | 3/8-16 X 2      | 100                | 700           |
| FSSF620 | 3/8-16 X 2 1/2  | 50                 | 600           |
| FSSF624 | 3/8-16 X 3      | 50                 | 500           |
| FSSF628 | 3/8-16 X 3 1/2  | 50                 | 450           |
| FSSF632 | 3/8-16 X 4      | 50                 | 400           |
| FSSF636 | 3/8-16 X 4 1/2  | 50                 | 350           |
| FSSF808 | 1/2-13 X 1      | 50                 | 500           |
| FSSF812 | 1/2-13 X 1 1/2  | 50                 | 350           |

## FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size        | Shop Pack Quantity | Bulk Quantity |
|-----------|-------------|--------------------|---------------|
| FSSFF1004 | 10-32 X 1/2 | 100                | 8000          |
| FSSFF1006 | 10-32 X 3/4 | 100                | 6000          |
| FSSFF1008 | 10-32 X 1   | 100                | 5000          |

# SLOTTED ROUND HEAD MACHINE SCREWS

## COARSE THREAD • ZINC PLATED • IMPORTED



| Part #    | Size            | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|---------------|
| FSSRM0602 | 6-32 X 1/4      | 100                | 25000         |
| FSSRM0603 | 6-32 X 3/8      | 100                | 20000         |
| FSSRM0604 | 6-32 X 1/2*     | 100                | 15000         |
| FSSRM0606 | 6-32 X 3/4      | 100                | 12000         |
| FSSRM0608 | 6-32 X 1        | 100                | 10000         |
| FSSRM0624 | 6-32 X 3        | 100                | 3000          |
| FSSRM0803 | 8-32 X 3/8      | 100                | 14000         |
| FSSRM0804 | 8-32 X 1/2      | 100                | 12000         |
| FSSRM0806 | 8-32 X 3/4      | 100                | 8000          |
| FSSRM0808 | 8-32 X 1        | 100                | 7000          |
| FSSRM0810 | 8-32 X 1 1/4    | 100                | 6000          |
| FSSRM0812 | 8-32 X 1 1/2    | 100                | 5000          |
| FSSRM0848 | 8-32 X 6        | 100                | -             |
| FSSRM1003 | 10-24 X 3/8     | 100                | 9000          |
| FSSRM1004 | 10-24 X 1/2     | 100                | 8000          |
| FSSRM1006 | 10-24 X 3/4     | 100                | 6000          |
| FSSRM1008 | 10-24 X 1       | 100                | 5000          |
| FSSRM1010 | 10-24 X 1 1/4 * | 100                | 4000          |
| FSSRM1012 | 10-24 X 1 1/2*  | 100                | 4000          |
| FSSRM1014 | 10-24 X 1 3/4   | 100                | 3000          |
| FSSRM1016 | 10-24 X 2       | 100                | 2500          |
| FSSRM1024 | 10-24 X 3       | 100                | 1600          |
| FSSRM1028 | 10-24 X 3 1/2   | 100                | 1500          |
| FSSRM1032 | 10-24 X 4       | 100                | 1200          |

| Part #    | Size             | Shop Pack Quantity | Bulk Quantity |
|-----------|------------------|--------------------|---------------|
| FSSRM1040 | 10-24 X 5        | 100                | 1000          |
| FSSRM1210 | 12-24 X 1 1/4    | 100                | 3500          |
| FSSRM1212 | 12-24 X 1 1/2    | 100                | 2500          |
| FSSRM403  | 1/4-20 X 3/8     | 100                | 4000          |
| FSSRM404  | 1/4-20 X 1/2*    | 100                | 4000          |
| FSSRM406  | 1/4-20 X 3/4     | 100                | 3000          |
| FSSRM408  | 1/4-20 X 1       | 100                | 2500          |
| FSSRM410  | 1/4-20 X 1 1/4   | 100                | 2000          |
| FSSRM412  | 1/4-20 X 1 1/2   | 100                | 2000          |
| FSSRM414  | 1/4-20 X 1 3/4   | 100                | 1800          |
| FSSRM416  | 1/4-20 X 2       | 100                | 1600          |
| FSSRM420  | 1/4-20 X 2 1/2   | 100                | 1200          |
| FSSRM504  | 5/16-18 X 1/2    | 100                | 2000          |
| FSSRM506  | 5/16-18 X 3/4*   | 100                | 1600          |
| FSSRM508  | 5/16-18 X 1      | 100                | 1400          |
| FSSRM512  | 5/16-18 X 1 1/2* | 100                | 1000          |
| FSSRM514  | 5/16-18 X 1 3/4  | 100                | 1000          |
| FSSRM516  | 5/16-18 X 2      | 100                | 900           |
| FSSRM528  | 5/16-18 X 3 1/2  | 50                 | 600           |
| FSSRM532  | 5/16-18 X 4      | 50                 | 500           |
| FSSRM606  | 3/8-16 X 3/4     | 100                | 1200          |
| FSSRM608  | 3/8-16 X 1*      | 100                | 1000          |
| FSSRM612  | 3/8-16 X 1 1/2   | 100                | 800           |

\*Lead time is 2-5 days on these sizes.

## FINE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size           | Shop Pack Quantity | Bulk Quantity |
|------------|----------------|--------------------|---------------|
| FSSRMF1004 | 10-32 X 1/2    | 100                | 8000          |
| FSSRMF1005 | 10-32 X 5/8    | 100                | 7000          |
| FSSRMF1006 | 10-32 X 3/4    | 100                | 6000          |
| FSSRMF1008 | 10-32 X 1*     | 100                | 5000          |
| FSSRMF1010 | 10-32 X 1 1/4* | 100                | 4000          |
| FSSRMF1012 | 10-32 X 1 1/2* | 100                | 3500          |

| Part #     | Size          | Shop Pack Quantity | Bulk Quantity |
|------------|---------------|--------------------|---------------|
| FSSRMF1014 | 10-32 X 1 3/4 | 100                | 3000          |
| FSSRMF1016 | 10-32 X 2     | 100                | 2500          |
| FSSRMF1024 | 10-32 X 3     | 100                | 1600          |
| FSSRMF1032 | 10-32 X 4     | 100                | 1200          |
| FSSRMF1040 | 10-32 X 5     | 100                | 1000          |

\*Lead time is 2-5 days on these sizes.

# SLOTTED ROUND & TRUSS HEAD MACHINE SCREWS

## SLOTTED ROUND HEAD MACHINE SCREWS \*CONTINUED FROM PREVIOUS PAGE

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size        | Shop Pack Quantity |
|------------|-------------|--------------------|
| FSSSRM0604 | 6-32 X 1/2  | 100                |
| FSSSRM0606 | 6-32 X 3/4  | 100                |
| FSSSRM1006 | 10-24 X 3/4 | 100                |
| FSSSRM1008 | 10-24 X 1   | 100                |

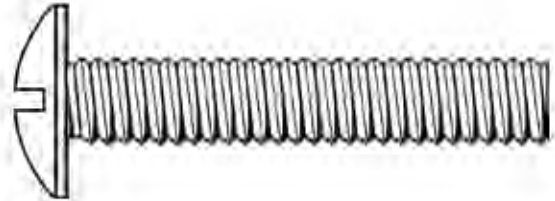
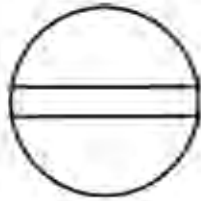
| Part #     | Size           | Shop Pack Quantity |
|------------|----------------|--------------------|
| FSSSRM1010 | 10-24 X 1 1/4  | 100                |
| FSSSRM1016 | 10-24 X 2      | 100                |
| FSSSRM418  | 1/4-20 X 2 1/4 | 100                |

### BRASS • COARSE THREAD • IMPORTED

| Part #    | Size        | Shop Pack Quantity |
|-----------|-------------|--------------------|
| FBSSRM508 | 5/16-18 X 1 | 100                |

## SLOTTED TRUSS HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED



| Part #    | Size            | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|---------------|
| FSSTM1003 | 10-24 X 3/8     | 100                | 9000          |
| FSSTM1012 | 10-24 X 1 1/2   | 100                | 3500          |
| FSSTM404  | 1/4-20 X 1/2    | 100                | 3500          |
| FSSTM406  | 1/4-20 X 3/4    | 100                | 3000          |
| FSSTM420  | 1/4-20 X 2 1/2  | 100                | 1200          |
| FSSTM504  | 5/16-18 X 1/2   | 100                | 2000          |
| FSSTM506  | 5/16-18 X 3/4   | 100                | 1600          |
| FSSTM508  | 5/16-18 X 1     | 100                | 1400          |
| FSSTM510  | 5/16-18 X 1 1/4 | 100                | 1200          |
| FSSTM512  | 5/16-18 X 1 1/2 | 100                | 1000          |
| FSSTM606  | 3/8-16 X 3/4    | 50                 | 1200          |
| FSSTM608  | 3/8-16 X 1      | 50                 | 1000          |
| FSSTM612  | 3/8-16 X 1 1/2  | 50                 | 800           |

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size          | Shop Pack Quantity |
|------------|---------------|--------------------|
| FSSSSTM406 | 1/4-20 X 3/4  | 100                |
| FSSSSTM408 | 1/4-20 X 1    | 100                |
| FSSSSTM506 | 5/16-18 X 3/4 | 100                |

# PHILLIPS FLAT HEAD MACHINE SCREWS

## COARSE THREAD • ZINC PLATED • IMPORTED



| Part #   | Size          | Shop Pack Quantity | Bulk quantity |
|----------|---------------|--------------------|---------------|
| FSPF0404 | 4-40 X 1/2    | 100                | 25000         |
| FSPF0602 | 6-32 X 1/4    | 100                | 25000         |
| FSPF0603 | 6-32 X 3/8    | 100                | 20000         |
| FSPF0604 | 6-32 X 1/2    | 100                | 15000         |
| FSPF0606 | 6-32 X 3/4    | 100                | 12000         |
| FSPF0608 | 6-32 X 1*     | 100                | 12000         |
| FSPF0610 | 6-32 X 1 1/4  | 100                | 9000          |
| FSPF0612 | 6-32 X 1 1/2  | 100                | 7000          |
| FSPF0803 | 8-32 X 3/8    | 100                | 14000         |
| FSPF0804 | 8-32 X 1/2    | 100                | 12000         |
| FSPF0805 | 8-32 X 5/8    | 100                | 10000         |
| FSPF0806 | 8-32 X 3/4    | 100                | 8000          |
| FSPF0808 | 8-32 X 1      | 100                | 7000          |
| FSPF1004 | 10-24 X 1/2   | 100                | 8000          |
| FSPF1005 | 10-24 X 5/8   | 100                | 7500          |
| FSPF1006 | 10-24 X 3/4   | 100                | 7000          |
| FSPF1008 | 10-24 X 1     | 100                | 5000          |
| FSPF1010 | 10-24 X 1 1/4 | 100                | 4000          |
| FSPF1012 | 10-24 X 1 1/2 | 100                | 4000          |
| FSPF1014 | 10-24 X 1 3/4 | 100                | 3000          |
| FSPF1016 | 10-24 X 2     | 100                | 2500          |
| FSPF1020 | 10-24 X 2 1/2 | 100                | 2000          |
| FSPF1024 | 10-24 X 3     | 100                | 1600          |

| Part #    | Size            | Shop Pack Quantity | Bulk quantity |
|-----------|-----------------|--------------------|---------------|
| FSPF1028  | 10-24 X 3 1/2   | 100                | 1500          |
| FSPFF1004 | 10-32 X 1/2†    | 100                | 8000          |
| FSPF1208  | 12-24 X 1       | 100                | 4000          |
| FSPF1210  | 12-24 X 1 1/4   | 100                | 3500          |
| FSPF1216  | 12-24 X 2       | 100                | 2500          |
| FSPF1220  | 12-24 X 2 1/2   | 100                | 2000          |
| FSPF404   | 1/4-20 X 1/2    | 100                | 4000          |
| FSPF405   | 1/4-20 X 5/8    | 100                | 3500          |
| FSPF406   | 1/4-20 X 3/4    | 100                | 3000          |
| FSPF408   | 1/4-20 X 1      | 100                | 2500          |
| FSPF410   | 1/4-20 X 1 1/4  | 100                | 2000          |
| FSPF412   | 1/4-20 X 1 1/2  | 100                | 2000          |
| FSPF414   | 1/4-20 X 1 3/4  | 100                | 1800          |
| FSPF416   | 1/4-20 X 2      | 100                | 1600          |
| FSPF418   | 1/4-20 X 2 1/4  | 100                | 1400          |
| FSPF420   | 1/4-20 X 2 1/2  | 100                | 1200          |
| FSPF504   | 5/16-18 X 1/2   | 100                | 3000          |
| FSPF506   | 5/16-18 X 3/4*  | 100                | 2000          |
| FSPF508   | 5/16-18 X 1     | 100                | 1400          |
| FSPF512   | 5/16-18 X 1 1/2 | 100                | 1400          |
| FSPF516   | 5/16-18 X 2     | 100                | 900           |
| FSPF520   | 5/16-18 X 2 1/2 | 100                | 800           |

\*Lead time is 2-5 days on this size.

†Fine Thread.

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size          | Shop Pack Quantity |
|------------|---------------|--------------------|
| FSSSPF0604 | 6-32 X 1/2    | 100                |
| FSSSPF0606 | 6-32 X 3/4    | 100                |
| FSSSPF0803 | 8-32 X 3/8    | 100                |
| FSSSPF0804 | 8-32 X 1/2    | 100                |
| FSSSPF0820 | 8-32 X 2 1/2  | 100                |
| FSSSPF1005 | 10-24 X 5/8   | 100                |
| FSSSPF1006 | 10-24 X 3/4   | 100                |
| FSSSPF1008 | 10-24 X 1     | 100                |
| FSSSPF1010 | 10-24 X 1 1/4 | 100                |
| FSSSPF1012 | 10-24 X 1 1/2 | 100                |

| Part #     | Size            | Shop Pack Quantity |
|------------|-----------------|--------------------|
| FSSSPF1014 | 10-24 X 1 3/4   | 100                |
| FSSSPF1016 | 10-24 X 2       | 100                |
| FSSSPF1020 | 10 X 2 1/2      | 100                |
| FSSSPF406  | 1/4-20 X 3/4    | 100                |
| FSSSPF408  | 1/4-20 X 1      | 100                |
| FSSSPF410  | 1/4-20 X 1 1/4  | 100                |
| FSSSPF412  | 1/4-20 X 1 1/2  | 100                |
| FSSSPF510  | 5/16-18 X 1 1/4 | 100                |
| FSSSPF516  | 5/16-18 X 2     | 100                |
| FSSSPF608  | 3/8-16 X 1      | 100                |

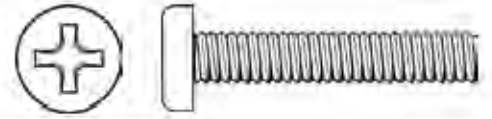
## 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #     | Size          | Shop Pack Quantity |
|------------|---------------|--------------------|
| FSSPFF1008 | 10-32 X 1     | 100                |
| FSSPFF1010 | 10-32 X 1 1/4 | 100                |

Don't see the size you're looking for? Call us for availability!

# PHILLIPS PAN HEAD MACHINE SCREWS

## COARSE THREAD • ZINC PLATED • IMPORTED



| Part #     | Size         | Shop Pack Quantity | Bulk Quantity |
|------------|--------------|--------------------|---------------|
| FSPPM04015 | 4-40 X 3/16  | 100                | 40000         |
| FSPPM0402  | 4-40 X 1/4   | 100                | 40000         |
| FSPPM0403  | 4-40 X 3/8   | 100                | 25000         |
| FSPPM0404  | 4-40 X 1/2   | 100                | 25000         |
| FSPPM0405  | 4-40 X 5/8   | 100                | 20000         |
| FSPPM0406  | 4-40 X 3/4   | 100                | 20000         |
| FSPPM0408  | 4-40 X 1     | 100                | 15000         |
| FSPPM0412  | 4-40 X 1 1/2 | 100                | 12000         |
| FSPPM0602  | 6-32 X 1/4   | 100                | 25000         |
| FSPPM0603  | 6-32 X 3/8   | 100                | 20000         |
| FSPPM0604  | 6-32 X 1/2   | 100                | 15000         |
| FSPPM0605  | 6-32 X 5/8   | 100                | 15000         |
| FSPPM0606  | 6-32 X 3/4   | 100                | 12000         |
| FSPPM0608  | 6-32 X 1     | 100                | 10000         |
| FSPPM0610  | 6-32 X 1 1/4 | 100                | 9000          |
| FSPPM0612  | 6-32 X 1 1/2 | 100                | 7000          |
| FSPPM0616  | 6-32 X 2     | 100                | 5000          |
| FSPPM0802  | 8-32 X 1/4   | 100                | 15000         |
| FSPPM0803  | 8-32 X 3/8   | 100                | 12000         |
| FSPPM0804  | 8-32 X 1/2   | 100                | 10000         |
| FSPPM0805  | 8-32 X 5/8   | 100                | 10000         |
| FSPPM0806  | 8-32 X 3/4   | 100                | 8000          |
| FSPPM0807  | 8-32 X 7/8   | 100                | 7500          |
| FSPPM0808  | 8-32 X 1     | 100                | 7000          |
| FSPPM0810  | 8-32 X 1 1/4 | 100                | 6000          |
| FSPPM0812  | 8-32 X 1 1/2 | 100                | 5000          |
| FSPPM0814  | 8-32 X 1 3/4 | 100                | 4000          |
| FSPPM0816  | 8-32 X 2     | 100                | 4000          |
| FSPPM0820  | 8-32 X 2 1/2 | 100                | 3000          |
| FSPPM0824  | 8-32 X 3     | 100                | 2500          |
| FSPPM0832  | 8-32 X 4     | 100                | -             |
| FSPPM1002  | 10-24 X 1/4  | 100                | 10000         |

| Part #    | Size            | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|---------------|
| FSPPM1003 | 10-24 X 3/8     | 100                | 9000          |
| FSPPM1004 | 10-24 X 1/2     | 100                | 8000          |
| FSPPM1005 | 10-24 X 5/8     | 100                | 7000          |
| FSPPM1006 | 10-24 X 3/4     | 100                | 6000          |
| FSPPM1008 | 10-24 X 1       | 100                | 5000          |
| FSPPM1010 | 10-24 X 1 1/4   | 100                | 4000          |
| FSPPM1012 | 10-24 X 1 1/2   | 100                | 4000          |
| FSPPM1014 | 10-24 X 1 3/4   | 100                | 3000          |
| FSPPM1016 | 10-24 X 2       | 100                | 2500          |
| FSPPM1020 | 10-24 X 2 1/2   | 100                | 2000          |
| FSPPM1024 | 10-24 X 3       | 100                | 1600          |
| FSPPM1204 | 12-24 X 1/2     | 100                | 6000          |
| FSPPM1205 | 12-24 X 5/8     | 100                | 4000          |
| FSPPM1206 | 12-24 X 3/4     | 100                | 4000          |
| FSPPM1208 | 12-24 X 1       | 100                | 2000          |
| FSPPM1210 | 12-24 X 1 1/4   | 100                | 2000          |
| FSPPM1212 | 12-24 X 1 1/2   | 100                | 2000          |
| FSPPM1216 | 12-24 X 2       | 100                | 1250          |
| FSPPM403  | 1/4-20 X 3/8    | 100                | 4000          |
| FSPPM404  | 1/4-20 X 1/2    | 100                | 3500          |
| FSPPM405  | 1/4-20 X 5/8    | 100                | 3500          |
| FSPPM406  | 1/4-20 X 3/4    | 100                | 3000          |
| FSPPM408  | 1/4-20 X 1      | 100                | 2500          |
| FSPPM410  | 1/4-20 X 1 1/4  | 100                | 2000          |
| FSPPM412  | 1/4-20 X 1 1/2  | 100                | 2000          |
| FSPPM414  | 1/4-20 X 1 3/4  | 100                | 1800          |
| FSPPM416  | 1/4-20 X 2      | 100                | 1600          |
| FSPPM420  | 1/4-20 X 2 1/2  | 100                | 1200          |
| FSPPM506  | 5/16-18 X 3/4   | 100                | 1600          |
| FSPPM508  | 5/16-18 X 1     | 100                | 1400          |
| FSPPM510  | 5/16-18 X 1 1/4 | 100                | 1200          |

## FINE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size        | Shop Pack Quantity | Bulk Quantity |
|------------|-------------|--------------------|---------------|
| FSPPMF1002 | 10-32 X 1/4 | 100                | 10000         |
| FSPPMF1003 | 10-32 X 3/8 | 100                | 8000          |
| FSPPMF1004 | 10-32 X 1/2 | 100                | 7000          |
| FSPPMF1005 | 10-32 X 5/8 | 100                | 6000          |
| FSPPMF1006 | 10-32 X 3/4 | 100                | 6000          |
| FSPPMF1008 | 10-32 X 1   | 100                | 5000          |

| Part #     | Size          | Shop Pack Quantity | Bulk Quantity |
|------------|---------------|--------------------|---------------|
| FSPPMF1010 | 10-32 X 1 1/4 | 100                | 4000          |
| FSPPMF1012 | 10-32 X 1 1/2 | 100                | 3500          |
| FSPPMF1016 | 10-32 X 2     | 100                | 2500          |
| FSPPMF1024 | 10-32 X 3     | 100                | 1600          |
| FSPPMF1032 | 10-32 X 4     | 100                | -             |



# PHILLIPS PAN HEAD MACHINE SCREWS & SLOT/PHIL COMBO ROUND HEAD MACHINE SCREWS

## PHILLIPS PAN HEAD MACHINE SCREWS \*CONTINUED FROM PREVIOUS PAGE

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size         | Shop Pack Quantity |
|-------------|--------------|--------------------|
| FSSSPPM0602 | 6-32 X 1/4   | 100                |
| FSSSPPM0604 | 6-32 X 1/2   | 100                |
| FSSSPPM0605 | 6-32 X 5/8   | 100                |
| FSSSPPM0606 | 6-32 X 3/4   | 100                |
| FSSSPPM0608 | 6-32 X 1     | 100                |
| FSSSPPM0612 | 6-32 X 1 1/2 | 100                |
| FSSSPPM0803 | 8-32 X 3/8   | 100                |
| FSSSPPM0804 | 8-32 X 1/2   | 100                |
| FSSSPPM0805 | 8-32 X 5/8   | 100                |
| FSSSPPM0806 | 8-32 X 3/4   | 100                |
| FSSSPPM0808 | 8-32 X 1     | 100                |
| FSSSPPM0809 | 8-32 X 1 1/8 | 100                |
| FSSSPPM0810 | 8-32 X 1 1/4 | 100                |
| FSSSPPM0812 | 8-32 X 1 1/2 | 100                |
| FSSSPPM0816 | 8-32 X 2     | 100                |
| FSSSPPM1003 | 10-24 X 3/8  | 100                |
| FSSSPPM1004 | 10-24 X 1/2  | 100                |
| FSSSPPM1005 | 10-24 X 5/8  | 100                |
| FSSSPPM1006 | 10-24 X 3/4  | 100                |
| FSSSPPM1008 | 10-24 X 1    | 100                |

| Part #      | Size           | Shop Pack Quantity |
|-------------|----------------|--------------------|
| FSSSPPM1010 | 10-24 X 1 1/4  | 100                |
| FSSSPPM1012 | 10-24 X 1 1/2  | 100                |
| FSSSPPM1016 | 10-24 X 2      | 100                |
| FSSSPPM1018 | 10-24 X 2 1/4  | 100                |
| FSSSPPM1020 | 10-24 X 2 1/2  | 100                |
| FSSSPPM1024 | 10-24 X 3      | 100                |
| FSSSPPM1028 | 10-24 X 3 1/2  | 100                |
| FSSSPPM1204 | 12-24 X 1/2    | 100                |
| FSSSPPM1206 | 12-24 X 3/4    | 100                |
| FSSSPPM1208 | 12-24 X 1      | 100                |
| FSSSPPM1212 | 12-24 X 1 1/2  | 100                |
| FSSSPPM403  | 1/4-20 X 3/8   | 100                |
| FSSSPPM404  | 1/4-20 X 1/2   | 100                |
| FSSSPPM406  | 1/4-20 X 3/4   | 100                |
| FSSSPPM408  | 1/4-20 X 1     | 100                |
| FSSSPPM410  | 1/4-20 X 1 1/4 | 100                |
| FSSSPPM412  | 1/4-20 X 1 1/2 | 100                |
| FSSSPPM416  | 1/4-20 X 2     | 100                |
| FSSSPPM420  | 1/4-20 X 2 1/2 | 100                |
| FSSSPPM424  | 1/4-20 X 3     | 100                |

### 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

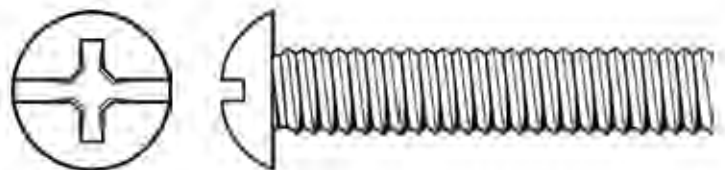
| Part #        | Size         | Shop Pack Quantity |
|---------------|--------------|--------------------|
| FSSSPPMF1002  | 10-32 X 1/4  | 100                |
| FSSSPPMF10025 | 10-32 X 5/16 | 100                |
| FSSSPPMF1003  | 10-32 X 3/8  | 100                |
| FSSSPPMF10035 | 10-32 X 7/16 | 100                |
| FSSSPPMF1004  | 10-32 X 1/2  | 100                |
| FSSSPPMF1006  | 10-32 X 3/4  | 100                |

| Part #       | Size          | Shop Pack Quantity |
|--------------|---------------|--------------------|
| FSSSPPMF1008 | 10-32 X 1     | 100                |
| FSSSPPMF1010 | 10-32 X 1 1/4 | 100                |
| FSSSPPMF1012 | 10-32 X 1 1/2 | 100                |
| FSSSPPMF1016 | 10-32 X 2     | 100                |
| FSSSPPMF1020 | 10-32 X 2-1/2 | 100                |

## SLOT/PHIL COMBO ROUND HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size           | Shop Pack Quantity | Bulk Quantity |
|----------|----------------|--------------------|---------------|
| FSCRM404 | 1/4-20 X 1/2   | 100                | 4000          |
| FSCRM406 | 1/4-20 X 3/4   | 100                | 3000          |
| FSCRM408 | 1/4-20 X 1     | 100                | 2500          |
| FSCRM410 | 1/4-20 X 1 1/4 | 100                | 2000          |

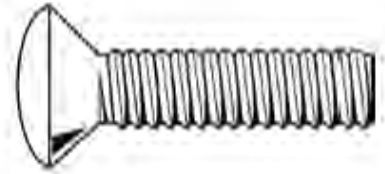


Don't see the size you're looking for? Call us for availability!

# PHILLIPS OVAL HEAD MACHINE SCREWS & INDENTED HEX HEAD MACHINE SCREWS (NO WASHER)

## PHILLIPS OVAL HEAD MACHINE SCREWS COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size       | Shop Pack Quantity | Bulk Quantity |
|-----------|------------|--------------------|---------------|
| FSPOM0804 | 8-32 X 1/2 | 100                | 14000         |



## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size       | Shop Pack Quantity |
|-------------|------------|--------------------|
| FSSSPOM0804 | 8-32 X 1/2 | 100                |
| FSSSPOM0805 | 8-32 X 5/8 | 100                |
| FSSSPOM0806 | 8-32 X 3/4 | 100                |

Don't see the size you're looking for? Call us for availability!

## INDENTED HEX HEAD MACHINE SCREWS (NO WASHER) COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size         | Shop Pack Quantity | Bulk Quantity |
|----------|--------------|--------------------|---------------|
| FSHM0810 | 8-32 X 1 1/4 | 100                | 4000          |
| FSHM0812 | 8-32 X 1 1/2 | 100                | 3000          |
| FSHM0814 | 8-32 X 1 3/4 | 100                | 2500          |
| FSHM1003 | 10-24 X 3/8  | 100                | 8000          |
| FSHM1004 | 10-24 X 1/2  | 100                | 8000          |
| FSHM1006 | 10-24 X 3/4  | 100                | 6000          |



| Part #   | Size          | Shop Pack Quantity | Bulk Quantity |
|----------|---------------|--------------------|---------------|
| FSHM1008 | 10-24 X 1     | 100                | 5000          |
| FSHM1010 | 10-24 X 1 1/4 | 100                | 4000          |
| FSHM1012 | 10-24 X 1 1/2 | 100                | 3500          |
| FSHM1020 | 10-24 X 2 1/2 | 100                | 1000          |
| FSHM1022 | 10-24 X 2 3/4 | 100                | 1000          |
| FSHM1205 | 12-24 X 5/8   | 100                | 4000          |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #     | Size          | Shop Pack Quantity |
|------------|---------------|--------------------|
| FSSSHM0804 | 8-32 X 1/2    | 100                |
| FSSSHM0806 | 8-32 X 3/4    | 100                |
| FSSSHM0808 | 8-32 X 1      | 100                |
| FSSSHM1004 | 10-24 X 1/2   | 100                |
| FSSSHM1006 | 10-24 X 3/4   | 100                |
| FSSSHM1008 | 10-24 X 1     | 100                |
| FSSSHM1012 | 10-24 X 1 1/2 | 100                |

## FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size          | Shop Pack Quantity |
|-----------|---------------|--------------------|
| FSHMF1003 | 10-32 X 3/8   | 100                |
| FSHMF1006 | 10-32 X 3/4   | 100                |
| FSHMF1008 | 10-32 X 1     | 100                |
| FSHMF1012 | 10-32 X 1 1/2 | 100                |

# PHILLIPS TRUSS HEAD MACHINE SCREWS & INDENTED HEX WASHER HEAD MACHINE SCREWS

## PHILLIPS TRUSS HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size         | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|--------------------|---------------|
| FSPTM0803 | 8-32 X 3/8   | 100                | 12000         |
| FSPTM0804 | 8-32 X 1/2   | 100                | 10000         |
| FSPTM0805 | 8-32 X 5/8   | 100                | 9000          |
| FSPTM0806 | 8-32 X 3/4   | 100                | 8000          |
| FSPTM0807 | 8-32 X 7/8   | 100                | 7500          |
| FSPTM0808 | 8-32 X 1     | 100                | 7000          |
| FSPTM0812 | 8-32 X 1 1/2 | 100                | 5000          |

| Part #    | Size          | Shop Pack Quantity | Bulk Quantity |
|-----------|---------------|--------------------|---------------|
| FSPTM0814 | 8-32 X 1 3/4  | 100                | 4000          |
| FSPTM1004 | 10-24 X 1/2   | 100                | 7000          |
| FSPTM1005 | 10-24 X 5/8   | 100                | 7000          |
| FSPTM1012 | 10-24 X 1 1/2 | 100                | 3500          |
| FSPTM404  | 1/4-20 X 1/2  | 100                | 4000          |
| FSPTM408  | 1/4-20 X 1    | 100                | 2500          |
| FSPTM506  | 5/16-18 X 3/4 | 100                | 1600          |

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size           | Shop Pack Quantity |
|-------------|----------------|--------------------|
| FSSSPTM1003 | 10-24 X 3/8    | 100                |
| FSSSPTM404  | 1/4-20 X 1/2   | 100                |
| FSSSPTM408  | 1/4-20 X 1     | 100                |
| FSSSPTM412  | 1/4-20 X 1 1/2 | 100                |

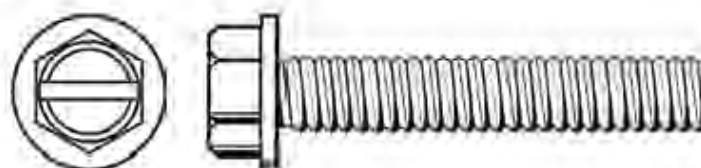
### 18-8 STAINLESS STEEL • FINE THREAD • IMPORTED

| Part #        | Size        | Shop Pack Quantity |
|---------------|-------------|--------------------|
| FSSSPTMF01003 | 10-32 X 3/8 | 100                |

## INDENTED HEX WASHER HEAD MACHINE SCREWS

### COARSE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size           | Shop Pack Quantity | Bulk Quantity |
|------------|----------------|--------------------|---------------|
| FSHWM0603  | 6-32 X 3/8     | 100                | 10000         |
| FSHWM0812  | 8-32 X 1 1/2   | 100                | 3000          |
| FSHWM1012  | 10-24 X 1 1/2  | 100                | 3500          |
| FSHWMF1012 | 10-32 X 1 1/2* | 100                | 2500          |



\*Fine Thread

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size       | Shop Pack Quantity |
|-------------|------------|--------------------|
| FSSSHWM0804 | 8-32 X 1/2 | 100                |

# PHILLIPS FLAT HEAD SHEET METAL SCREWS

## TYPE A OR AB • ZINC PLATED • IMPORTED



Sheet Metal Screws are designed especially for fastening sheet metal to a variety of materials. They are hardened and are designed for self starting in metal 0.050" or less.

| Part #     | Size      | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|---------------|--------------------|---------------|
| FSPFSM0403 | 4 X 3/8   | #1            | 100                | 33300         |
| FSPFSM0404 | 4 X 1/2   | #1            | 100                | 30700         |
| FSPFSM0406 | 4 X 3/4   | #1            | 100                | 17300         |
| FSPFSM0412 | 4 X 1 1/2 | #1            | 100                | -             |
| FSPFSM0504 | 5 X 1/2   | #2            | 100                | 22000         |
| FSPFSM0506 | 5 X 3/4   | #2            | 100                | 14700         |
| FSPFSM0604 | 6 X 1/2   | #2            | 100                | 17300         |
| FSPFSM0606 | 6 X 3/4   | #2            | 100                | 12000         |
| FSPFSM0608 | 6 X 1     | #2            | 100                | 8700          |
| FSPFSM0610 | 6 X 1 1/4 | #2            | 100                | 6300          |
| FSPFSM0612 | 6 X 1 1/2 | #2            | 100                | 5000          |
| FSPFSM0616 | 6 X 2     | #2            | 100                | 3300          |
| FSPFSM0804 | 8 X 1/2   | #2            | 100                | 12000         |
| FSPFSM0805 | 8 X 5/8   | #2            | 100                | 10000         |
| FSPFSM0806 | 8 X 3/4   | #2            | 100                | 8000          |
| FSPFSM0807 | 8 X 7/8   | #2            | 100                | 6700          |
| FSPFSM0808 | 8 X 1     | #2            | 100                | 6000          |
| FSPFSM0810 | 8 X 1 1/4 | #2            | 100                | 4300          |
| FSPFSM0812 | 8 X 1 1/2 | #2            | 100                | 3300          |
| FSPFSM0814 | 8 X 1 3/4 | #2            | 100                | 2700          |

| Part #     | Size       | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|------------|---------------|--------------------|---------------|
| FSPFSM0816 | 8 X 2      | #2            | 100                | 2400          |
| FSPFSM0818 | 8 X 2 1/4  | #2            | 100                | 2000          |
| FSPFSM0820 | 8 X 2 1/2  | #2            | 100                | 1700          |
| FSPFSM0824 | 8 X 3      | #2            | 100                | 1300          |
| FSPFSM1004 | 10 X 1/2   | #2            | 100                | 8700          |
| FSPFSM1006 | 10 X 3/4   | #2            | 100                | 6000          |
| FSPFSM1008 | 10 X 1     | #2            | 100                | 4300          |
| FSPFSM1010 | 10 X 1 1/4 | #2            | 100                | 3300          |
| FSPFSM1012 | 10 X 1 1/2 | #2            | 100                | 2700          |
| FSPFSM1014 | 10 X 1 3/4 | #2            | 100                | 2300          |
| FSPFSM1016 | 10 X 2     | #2            | 100                | 1900          |
| FSPFSM1020 | 10 X 2 1/2 | #2            | 100                | 1300          |
| FSPFSM1204 | 12 X 1/2   | #3            | 100                | 6700          |
| FSPFSM1206 | 12 X 3/4   | #3            | 100                | 4700          |
| FSPFSM1210 | 12 X 1 1/4 | #3            | 100                | 2700          |
| FSPFSM1212 | 12 X 1 1/2 | #3            | 100                | 2300          |
| FSPFSM1216 | 12 X 2     | #3            | 100                | 1700          |
| FSPFSM1220 | 12 X 2 1/2 | #3            | 100                | 1200          |
| FSPFSM1224 | 12 X 3     | #3            | 100                | 1000          |
| FSPFSM1408 | 14 X 1     | #3            | 100                | 2700          |

## 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #       | Size    | Phillips Size | Shop Pack Quantity |
|--------------|---------|---------------|--------------------|
| FSSSPFSM0404 | 4 X 1/2 | #1            | 100                |
| FSSSPFSM0406 | 4 X 3/4 | #1            | 100                |
| FSSSPFSM0408 | 4 X 1   | #1            | 100                |
| FSSSPFSM0604 | 6 X 1/2 | #2            | 100                |
| FSSSPFSM0605 | 6 X 5/8 | #2            | 100                |
| FSSSPFSM0606 | 6 X 3/4 | #2            | 100                |
| FSSSPFSM0608 | 6 X 1   | #2            | 100                |
| FSSSPFSM0804 | 8 X 1/2 | #2            | 100                |
| FSSSPFSM0805 | 8 X 5/8 | #2            | 100                |
| FSSSPFSM0806 | 8 X 3/4 | #2            | 100                |
| FSSSPFSM0808 | 8 X 1   | #2            | 100                |

| Part #       | Size       | Phillips Size | Shop Pack Quantity |
|--------------|------------|---------------|--------------------|
| FSSSPFSM0810 | 8 X 1 1/4  | #2            | 100                |
| FSSSPFSM0812 | 8 X 1 1/2  | #2            | 100                |
| FSSSPFSM0814 | 8 X 1 3/4  | #2            | 100                |
| FSSSPFSM0816 | 8 X 2      | #2            | 100                |
| FSSSPFSM0820 | 8 X 2 1/2  | #2            | 100                |
| FSSSPFSM1006 | 10 X 3/4   | #2            | 100                |
| FSSSPFSM1008 | 10 X 1     | #2            | 100                |
| FSSSPFSM1010 | 10 X 1 1/4 | #2            | 100                |
| FSSSPFSM1012 | 10 X 1 1/2 | #2            | 100                |
| FSSSPFSM1016 | 10 X 2     | #2            | 100                |

# PHILLIPS PAN HEAD SHEET METAL SCREWS

## TYPE A OR AB • ZINC PLATED • IMPORTED



## 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #     | Size       | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|------------|---------------|--------------------|---------------|
| FSPPSM0402 | 4 X 1/4    | #1            | 100                | 33300         |
| FSPPSM0403 | 4 X 3/8    | #1            | 100                | 29300         |
| FSPPSM0404 | 4 X 1/2    | #1            | 100                | 22700         |
| FSPPSM0406 | 4 X 3/4    | #1            | 100                | 15300         |
| FSPPSM0602 | 6 X 1/4    | #2            | 100                | 22700         |
| FSPPSM0603 | 6 X 3/8    | #2            | 100                | 17300         |
| FSPPSM0604 | 6 X 1/2    | #2            | 100                | 14000         |
| FSPPSM0605 | 6 X 5/8    | #2            | 100                | 11300         |
| FSPPSM0606 | 6 X 3/4    | #2            | 100                | 9300          |
| FSPPSM0608 | 6 X 1      | #2            | 100                | 6700          |
| FSPPSM0610 | 6 X 1 1/4  | #2            | 100                | 5300          |
| FSPPSM0612 | 6 X 1 1/2  | #2            | 100                | 4000          |
| FSPPSM0616 | 6 X 2      | #2            | 100                | 2700          |
| FSPPSM0802 | 8 X 1/4    | #2            | 100                | 14700         |
| FSPPSM0803 | 8 X 3/8    | #2            | 100                | 11300         |
| FSPPSM0804 | 8 X 1/2    | #2            | 100                | 9300          |
| FSPPSM0805 | 8 X 5/8    | #2            | 100                | 7300          |
| FSPPSM0806 | 8 X 3/4    | #2            | 100                | 6300          |
| FSPPSM0807 | 8 X 7/8    | #2            | 100                | 5300          |
| FSPPSM0808 | 8 X 1      | #2            | 100                | 4700          |
| FSPPSM0810 | 8 X 1 1/4  | #2            | 100                | 3700          |
| FSPPSM0812 | 8 X 1 1/2  | #2            | 100                | 3000          |
| FSPPSM0816 | 8 X 2      | #2            | 100                | 2100          |
| FSPPSM0820 | 8 X 2 1/2  | #2            | 100                | 1700          |
| FSPPSM0824 | 8 X 3      | #2            | 100                | 1200          |
| FSPPSM0832 | 8 X 4      | #2            | 100                | 1200          |
| FSPPSM1003 | 10 X 3/8   | #2            | 100                | 8000          |
| FSPPSM1004 | 10 X 1/2   | #2            | 100                | 6700          |
| FSPPSM1005 | 10 X 5/8   | #2            | 100                | 5300          |
| FSPPSM1006 | 10 X 3/4   | #2            | 100                | 4700          |
| FSPPSM1007 | 10 X 7/8   | #2            | 100                | 4000          |
| FSPPSM1008 | 10 X 1     | #2            | 100                | 3700          |
| FSPPSM1010 | 10 X 1 1/4 | #2            | 100                | 2900          |
| FSPPSM1012 | 10 X 1 1/2 | #2            | 100                | 2300          |
| FSPPSM1016 | 10 X 2     | #2            | 100                | 1700          |
| FSPPSM1024 | 10 X 3     | #2            | 100                | 1000          |
| FSPPSM1204 | 12 X 1/2   | #3            | 100                | 5000          |
| FSPPSM1205 | 12 X 5/8   | #3            | 100                | 4000          |
| FSPPSM1206 | 12 X 3/4   | #3            | 100                | 3700          |
| FSPPSM1208 | 12 X 1     | #3            | 100                | 2900          |
| FSPPSM1210 | 12 X 1 1/4 | #3            | 100                | 2300          |
| FSPPSM1212 | 12 X 1 1/2 | #3            | 100                | 2000          |
| FSPPSM1406 | 14 X 3/4   | #3            | 100                | 2700          |
| FSPPSM1408 | 14 X 1     | #3            | 100                | 2100          |
| FSPPSM1410 | 14 X 1 1/4 | #3            | 100                | 1700          |
| FSPPSM1412 | 14 X 1 1/2 | #3            | 100                | 1300          |
| FSPPSM1416 | 14 X 2     | #3            | 100                | 1000          |

| Part #      | Size       | Phillips Size | Shop Pack Quantity |
|-------------|------------|---------------|--------------------|
| FSSPPSM0404 | 4 X 1/2    | #1            | 100                |
| FSSPPSM0406 | 4 X 3/4    | #1            | 100                |
| FSSPPSM0604 | 6 X 1/2    | #2            | 100                |
| FSSPPSM0605 | 6 X 5/8    | #2            | 100                |
| FSSPPSM0606 | 6 X 3/4    | #2            | 100                |
| FSSPPSM0608 | 6 X 1      | #2            | 100                |
| FSSPPSM0610 | 6 X 1 1/4  | #2            | 100                |
| FSSPPSM0612 | 6 X 1 1/2  | #2            | 100                |
| FSSPPSM0804 | 8 X 1/2    | #2            | 100                |
| FSSPPSM0806 | 8 X 3/4    | #2            | 100                |
| FSSPPSM0808 | 8 X 1      | #2            | 100                |
| FSSPPSM0810 | 8 X 1 1/4  | #2            | 100                |
| FSSPPSM0812 | 8 X 1 1/2  | #2            | 100                |
| FSSPPSM0814 | 8 X 1 3/4  | #2            | 100                |
| FSSPPSM0816 | 8 X 2      | #2            | 100                |
| FSSPPSM0820 | 8 X 2 1/2  | #2            | 100                |
| FSSPPSM1004 | 10 X 1/2   | #2            | 100                |
| FSSPPSM1005 | 10 X 5/8   | #2            | 100                |
| FSSPPSM1006 | 10 X 3/4   | #2            | 100                |
| FSSPPSM1008 | 10 X 1     | #2            | 100                |
| FSSPPSM1010 | 10 X 1 1/4 | #2            | 100                |
| FSSPPSM1012 | 10 X 1 1/2 | #2            | 100                |
| FSSPPSM1016 | 10 X 2     | #2            | 100                |
| FSSPPSM1018 | 10 X 2 1/4 | #2            | 100                |
| FSSPPSM1020 | 10 X 2 1/2 | #2            | 100                |
| FSSPPSM1024 | 10 X 3     | #2            | 100                |
| FSSPPSM1204 | 12 X 1/2   | #2            | 100                |
| FSSPPSM1206 | 12 X 3/4   | #2            | 100                |
| FSSPPSM1208 | 12 X 1     | #2            | 100                |
| FSSPPSM1212 | 12 X 1 1/2 | #2            | 100                |
| FSSPPSM1220 | 12 X 2 1/2 | #2            | 100                |
| FSSPPSM1406 | 14 X 3/4   | #2            | 100                |
| FSSPPSM1408 | 14 X 1     | #2            | 100                |
| FSSPPSM1410 | 14 X 1 1/4 | #2            | 100                |
| FSSPPSM1412 | 14 X 1 1/2 | #2            | 100                |
| FSSPPSM1416 | 14 X 2     | #2            | 100                |

# PHILLIPS TRUSS OVAL HEAD SHEET METAL SCREWS & SLOT/PHIL COMBO PAN HEAD SHEET METAL SCREWS

## PHILLIPS TRUSS HEAD SHEET METAL SCREWS

**TYPE A OR AB • ZINC PLATED • IMPORTED**

| Part #     | Size      | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|---------------|--------------------|---------------|
| FSPTSM0804 | 8 X 1/2   | #2            | 100                | 9300          |
| FSPTSM0805 | 8 X 5/8   | #2            | 100                | 6000          |
| FSPTSM0812 | 8 X 1 1/2 | #2            | 100                | 3000          |
| FSPTSM1004 | 10 X 1/2  | #2            | 100                | 6700          |



## 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #       | Size    | Phillips Size | Shop Pack Quantity |
|--------------|---------|---------------|--------------------|
| FSSSPTSM0806 | 8 X 3/4 | #2            | 100                |
| FSSSPTSM0808 | 8 X 1   | #2            | 100                |
| FSSSPTSM1024 | 10 X 3  | #2            | 100                |

## PHILLIPS OVAL HEAD SHEET METAL SCREWS

**TYPE A OR AB • ZINC PLATED • IMPORTED**



| Part #     | Size       | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|------------|---------------|--------------------|---------------|
| FSPOSM0603 | 6 X 3/8    | #2            | 100                | 17300         |
| FSPOSM0606 | 6 X 3/4    | #2            | 100                | 6000          |
| FSPOSM0610 | 6 X 1 1/4  | #2            | 100                | 3500          |
| AV02359    | 8 X 3/4    | #2            | 100                | 4000          |
| FSPOSM0810 | 8 X 1 1/4  | #2            | 100                | 2500          |
| AV02362    | 8 X 1 1/2  | #2            | 100                | 2000          |
| FSPOSM0816 | 8 X 2      | #2            | 100                | 1700          |
| FSPOSM1010 | 10 X 1 1/4 | #2            | 100                | 2000          |
| FSPOSM1212 | 12 X 1 1/2 | #3            | 100                | 2000          |

**18-8 STAINLESS STEEL • TYPE A • IMPORTED**

| Part #       | Size       | Phillips Size | Shop Pack Quantity |
|--------------|------------|---------------|--------------------|
| FSSSPOSM0408 | 4 X 1      | #1            | 100                |
| FSSSPOSM0603 | 6 X 3/8    | #2            | 100                |
| FSSSPOSM0610 | 6 X 1 1/4  | #2            | 100                |
| FSSSPOSM0804 | 8 X 1/2    | #2            | 100                |
| FSSSPOSM0805 | 8 X 5/8    | #2            | 100                |
| FSSSPOSM0806 | 8 X 3/4    | #2            | 100                |
| FSSSPOSM0808 | 8 X 1      | #2            | 100                |
| FSSSPOSM0810 | 8 X 1 1/4  | #2            | 100                |
| FSSSPOSM0812 | 8 X 1 1/2  | #2            | 100                |
| FSSSPOSM0816 | 8 X 2      | #2            | 100                |
| FSSSPOSM1008 | 10 X 1     | #2            | 100                |
| FSSSPOSM1010 | 10 X 1 1/4 | #2            | 100                |
| FSSSPOSM1206 | 12 X 3/4   | #3            | 100                |

## SLOT/PHIL COMBO PAN HEAD SHEET METAL SCREWS

**TYPE A • ZINC PLATED • IMPORTED**

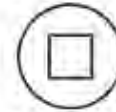
| Part #     | Size     | Shop Pack Quantity | Bulk Quantity |
|------------|----------|--------------------|---------------|
| FSCPSM1204 | 12 X 1/2 | 100                | 3000          |
| FSCPSM1206 | 12 X 3/4 | 100                | 2500          |
| FSCPSM1208 | 12 X 1   | 100                | 2000          |



# SQUARE FLAT & PAN HEAD SHEET METAL SCREWS

## SQUARE FLAT HEAD SHEET METAL SCREWS

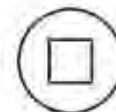
**TYPE A OR AB • ZINC PLATED • IMPORTED**



| Part #     | Size      | Square Size | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|-------------|--------------------|---------------|
| FSSFMS0604 | 6 X 1/2   | #1          | 100                | 6500          |
| FSSFMS0605 | 6 X 5/8   | #1          | 100                | 5500          |
| FSSFMS0606 | 6 X 3/4   | #1          | 100                | 5000          |
| FSSFMS0608 | 6 X 1     | #1          | 100                | 4250          |
| FSSFMS0610 | 6 X 1 1/4 | #1          | 100                | 4000          |
| FSSFMS0612 | 6 X 1 1/2 | #1          | 100                | 3750          |
| FSSFMS0804 | 8 X 1/2   | #2          | 100                | 10000         |
| FSSFMS0805 | 8 X 5/8   | #2          | 100                | 5000          |
| FSSFMS0806 | 8 X 3/4   | #2          | 100                | 5000          |
| FSSFMS0808 | 8 X 1     | #2          | 100                | 4500          |
| FSSFMS0810 | 8 X 1 1/4 | #2          | 100                | 3250          |
| FSSFMS0812 | 8 X 1 1/2 | #2          | 100                | 2500          |
| FSSFMS0814 | 8 X 1 3/4 | #2          | 100                | 2000          |
| FSSFMS0816 | 8 X 2     | #2          | 100                | 1800          |
| FSSFMS1006 | 10 X 3/4  | #2          | 100                | 4500          |
| FSSFMS1008 | 10 X 1    | #2          | 100                | 3250          |
| FSSFMS1016 | 10 X 2    | #2          | 100                | 1400          |

## SQUARE PAN HEAD SHEET METAL SCREWS

**TYPE A OR AB • ZINC PLATED • IMPORTED**



| Part #     | Size       | Square Size | Shop Pack Quantity | Bulk Quantity |
|------------|------------|-------------|--------------------|---------------|
| FSSPSM0604 | 6 X 1/2    | #1          | 100                | 7000          |
| FSSPSM0605 | 6 X 5/8    | #1          | 100                | 5500          |
| FSSPSM0606 | 6 X 3/4    | #1          | 100                | 5000          |
| FSSPSM0608 | 6 X 1      | #1          | 100                | 4500          |
| FSSPSM0610 | 6 X 1 1/4  | #1          | 100                | 4000          |
| FSSPSM0612 | 6 X 1 1/2  | #1          | 100                | 3000          |
| FSSPSM0803 | 8 X 3/8    | #2          | 100                | 5500          |
| FSSPSM0804 | 8 X 1/2    | #2          | 100                | 7000          |
| FSSPSM0805 | 8 X 5/8    | #2          | 100                | 5500          |
| FSSPSM0806 | 8 X 3/4    | #2          | 100                | 4000          |
| FSSPSM0808 | 8 X 1      | #2          | 100                | 3000          |
| FSSPSM0810 | 8 X 1 1/4  | #2          | 100                | 2500          |
| FSSPSM0812 | 8 X 1 1/2  | #2          | 100                | 2000          |
| FSSPSM0814 | 8 X 1 3/4  | #2          | 100                | 1900          |
| FSSPSM0816 | 8 X 2      | #2          | 100                | 1700          |
| FSSPSM1006 | 10 X 3/4   | #2          | 100                | 3000          |
| FSSPSM1012 | 10 X 1 1/2 | #2          | 100                | 1700          |

# HEX WASHER HEAD SHEET METAL SCREWS & HEX HEAD SHEET METAL SCREWS

## HEX WASHER HEAD SHEET METAL SCREWS

**TYPE A OR AB • ZINC PLATED • IMPORTED**



| Part #     | Size       | Shop Pack Quantity | Bulk Quantity |
|------------|------------|--------------------|---------------|
| FSHWSM0804 | 8 X 1/2    | 100                | 9300          |
| FSHWSM0806 | 8 X 3/4    | 100                | 6300          |
| FSHWSM0808 | 8 X 1      | 100                | 4500          |
| FSHWSM0812 | 8 X 1 1/2  | 100                | 3000          |
| FSHWSM0816 | 8 X 2      | 100                | 2000          |
| FSHWSM1004 | 10 X 1/2   | 100                | 6700          |
| FSHWSM1006 | 10 X 3/4   | 100                | 4700          |
| FSHWSM1008 | 10 X 1     | 100                | 3500          |
| FSHWSM1010 | 10 X 1 1/4 | 100                | 2500          |
| FSHWSM1012 | 10 X 1 1/2 | 100                | 2300          |
| FSHWSM1016 | 10 X 2     | 100                | 1700          |
| FSHWSM1020 | 10 X 2 1/2 | 100                | 1300          |
| FSHWSM1024 | 10 X 3     | 100                | 1000          |
| FSHWSM1208 | 12 X 1     | 100                | 2500          |
| FSHWSM1210 | 12 X 1 1/4 | 100                | 2000          |
| FSHWSM1212 | 12 X 1 1/2 | 100                | 1700          |

| Part #     | Size         | Shop Pack Quantity | Bulk Quantity |
|------------|--------------|--------------------|---------------|
| FSHWSM1216 | 12 X 2       | 100                | 1200          |
| FSHWSM1220 | 12 X 2 1/2   | 100                | 1000          |
| FSHWSM1404 | 14 X 1/2     | 100                | 2500          |
| FSHWSM1405 | 14 X 5/8     | 100                | 2000          |
| FSHWSM1406 | 14 X 3/4     | 100                | 2700          |
| FSHWSM1408 | 14 X 1       | 100                | 2100          |
| FSHWSM1410 | 14 X 1 1/4   | 100                | 1700          |
| FSHWSM1412 | 14 X 1 1/2   | 100                | 1300          |
| FSHWSM1416 | 14 X 2       | 100                | 1000          |
| FSHWSM1420 | 14 X 2 1/2   | 100                | 800           |
| FSHWSM1424 | 14 X 3       | 100                | 700           |
| FSHWSM506  | 5/16 X 3/4   | 100                | -             |
| FSHWSM508  | 5/16 X 1     | 100                | -             |
| FSHWSM510  | 5/16 X 1 1/4 | 100                | -             |
| FSHWSM608  | 3/8 X 1      | 100                | -             |

## 18-8 STAINLESS STEEL • TYPE A • IMPORTED

| Part #       | Size       | Shop Pack Quantity |
|--------------|------------|--------------------|
| FSSSHWSM1004 | 10 X 1/2   | 100                |
| FSSSHWSM1006 | 10 X 3/4   | 100                |
| FSSSHWSM1008 | 10 X 1     | 100                |
| FSSSHWSM1010 | 10 X 1 1/4 | 100                |
| FSSSHWSM1012 | 10 X 1 1/2 | 100                |

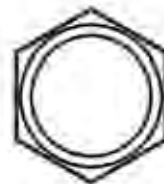
| Part #       | Part #     | Part # |
|--------------|------------|--------|
| FSSSHWSM1206 | 12 X 3/4   | 100    |
| FSSSHWSM1208 | 12 X 1     | 100    |
| FSSSHWSM1406 | 14 X 3/4   | 100    |
| FSSSHWSM1412 | 14 X 1 1/2 | 100    |
| FSSSHWSM1424 | 14 X 3     | 100    |

Don't see the size you're looking for? Call us for availability!

## HEX HEAD SHEET METAL SCREWS

**TYPE A • ZINC PLATED • IMPORTED**

| Part #    | Size         | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|--------------------|---------------|
| FSHSM1406 | 14 X 3/4     | 100                | 4000          |
| FSHSM508  | 5/16 X 1     | 100                | 2200          |
| FSHSM510  | 5/16 X 1 1/4 | 100                | 2000          |
| FSHSM512  | 5/16 X 1 1/2 | 100                | 1500          |



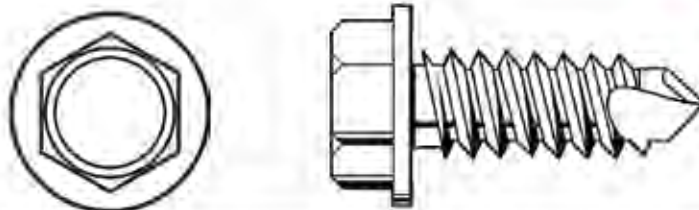


# HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS)

## HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS)

### ZINC PLATED • IMPORTED

Self Drilling Screws are hardened and are designed to drill their own way through metal removing the step of pre-drilling holes. Wood to Metal self drilling screws have wings which enlarge the hole in the wood then break off when they reach the metal so the wood will draw tight to the metal.



| Part #  | Size       | Drill Point | Shop Pack Quantity | Bulk Quantity |
|---------|------------|-------------|--------------------|---------------|
| FTS0604 | 6 X 1/2    | #2          | 100                | 10000         |
| FTS0606 | 6 X 3/4    | #2          | 100                | 6700          |
| FTS0608 | 6 X 1      | #3          | 100                | 6700          |
| FTS0610 | 6 X 1 1/4  | #3          | 100                | 5300          |
| FTS0612 | 6 X 1 1/2  | #3          | 100                | 4000          |
| FTS0804 | 8 X 1/2    | #2          | 100                | 6700          |
| FTS0805 | 8 X 5/8    | #2          | 100                | 6700          |
| FTS0806 | 8 X 3/4    | #3          | 100                | 6700          |
| FTS0808 | 8 X 1      | #3          | 100                | 5000          |
| FTS0810 | 8 X 1 1/4  | #3          | 100                | 4000          |
| FTS0812 | 8 X 1 1/2  | #3          | 100                | 3300          |
| FTS0814 | 8 X 1 3/4  | #3          | 100                | 2000          |
| FTS0816 | 8 X 2      | #3          | 100                | 1700          |
| FTS1004 | 10 X 1/2   | #2          | 100                | 6700          |
| FTS1005 | 10 X 5/8   | #3          | 100                | 5000          |
| FTS1006 | 10 X 3/4   | #3          | 100                | 4700          |
| FTS1008 | 10 X 1     | #3          | 100                | 3300          |
| FTS1010 | 10 X 1 1/4 | #3          | 100                | 2700          |
| FTS1012 | 10 X 1 1/2 | #3          | 100                | 1700          |
| FTS1016 | 10 X 2     | #3          | 100                | 1300          |
| FTS1020 | 10 X 2 1/2 | #3          | 100                | 1000          |

| Part #  | Size         | Drill Point | Shop Pack Quantity | Bulk Quantity |
|---------|--------------|-------------|--------------------|---------------|
| FTS1206 | 12 X 3/4     | #3          | 100                | 3300          |
| FTS1208 | 12 X 1       | #3          | 100                | 2300          |
| FTS1210 | 12 X 1 1/4   | #3          | 100                | 1700          |
| FTS1212 | 12 X 1 1/2   | #3          | 100                | 1700          |
| FTS1214 | 12 X 1 3/4   | #3          | 100                | 1300          |
| FTS1216 | 12 X 2       | #3          | 100                | 1300          |
| FTS1406 | 14 X 3/4     | #3          | 100                | 2300          |
| FTS1408 | 14 X 1       | #3          | 100                | 1700          |
| FTS1410 | 14 X 1 1/4   | #3          | 100                | 1700          |
| FTS1412 | 14 X 1 1/2   | #3          | 100                | 1300          |
| FTS1414 | 14 X 1 3/4   | #3          | 100                | 1000          |
| FTS1416 | 14 X 2       | #3          | 100                | 1000          |
| FTS1420 | 14 X 2 1/2   | #3          | 100                | 1000          |
| FTS1424 | 14 X 3       | #3          | 100                | 1000          |
| FTS1432 | 14 X 4       | #3          | 100                | 500           |
| FTS508  | 5/16 X 1     | #3          | 100                | 1500          |
| FTS512  | 5/16 X 1 1/2 | #3          | 100                | 1000          |
| FTS516  | 5/16 X 2     | #3          | 100                | 700           |
| FTS524  | 5/16 X 3     | #3          | 100                | 500           |
| FTS608  | 3/8 X 1      | #3          | 100                | 700           |

### PROCORR COATED • MADE IN USA

| Part #    | Size           | Drill Point | Shop Pack Quantity | Bulk Quantity |
|-----------|----------------|-------------|--------------------|---------------|
| FTSC1006  | #10 X 3/4      | #3          | 100                | 5000          |
| FTSC1206  | #12 X 3/4      | #3          | 100                | 5000          |
| FTSCF1207 | #12-24 X 7/8   | #4          | 100                | 4500          |
| FTSC1208  | #12 X 1        | #3          | 100                | 4000          |
| FTSCF1210 | #12-24 X 1-1/4 | #4.5        | 100                | 3500          |
| FTSC1212  | #12 X 1-1/2    | #3          | 100                | 2500          |
| FTSC1408  | #14 X 1        | #3          | 100                | 3000          |
| FTSC1410  | #14 X 1-1/4    | #3          | 100                | 2000          |
| FTSC1412  | #14 X 1-1/2    | #3          | 100                | 2000          |
| FTSC1416  | #14 X 2        | #3          | 100                | 1500          |
| FTSC1424  | #14 X 3        | #3          | 100                | 800           |

# HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS) & PHILLIPS FLAT HEAD SELF DRILLING SCREWS

## HEX WASHER HEAD SELF DRILLING SCREWS (TEK SCREWS)

### 410 STAINLESS STEEL • IMPORTED

| Part #    | Size       | Drill Point | Shop Pack Quantity |
|-----------|------------|-------------|--------------------|
| FSSTS0804 | 8 X 1/2    | #2          | 100                |
| FSSTS0806 | 8 X 3/4    | #2          | 100                |
| FSSTS0808 | 8 X 1      | #2          | 100                |
| FSSTS1004 | 10 X 1/2   | #2          | 100                |
| FSSTS1006 | 10 X 3/4   | #3          | 100                |
| FSSTS1008 | 10 X 1     | #3          | 100                |
| FSSTS1010 | 10 X 1 1/4 | #3          | 100                |
| FSSTS1012 | 10 X 1 1/2 | #3          | 100                |
| FSSTS1016 | 10 X 2     | #3          | 100                |

| Part #    | Size       | Drill Point | Shop Pack Quantity |
|-----------|------------|-------------|--------------------|
| FSSTS1206 | 12 X 3/4   | #3          | 100                |
| FSSTS1208 | 12 X 1     | #3          | 100                |
| FSSTS1406 | 14 X 3/4   | #3          | 100                |
| FSSTS1408 | 14 X 1     | #3          | 100                |
| FSSTS1410 | 14 X 1 1/4 | #3          | 100                |
| FSSTS1412 | 14 X 1 1/2 | #3          | 100                |
| FSSTS1416 | 14 X 2     | #3          | 100                |
| FSSTS1420 | 14 X 2 1/2 | #3          | 100                |

## PHILLIPS FLAT HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED

| Part #     | Size       | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|------------|-------------|--------------------|---------------|
| FSPFSD0606 | 6 X 3/4    | #2          | 100                | 6700          |
| FSPFSD0808 | 8 X 1      | #2          | 100                | 5000          |
| FSPFSD0812 | 8 X 1 1/2  | #3          | 100                | 3300          |
| FSPFSD1006 | 10 X 3/4   | #2          | 100                | 5000          |
| FSPFSD1008 | 10 X 1     | #3          | 100                | 3300          |
| FSPFSD1010 | 10 X 1 1/4 | #3          | 100                | 3000          |



| Part #     | Size       | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|------------|-------------|--------------------|---------------|
| FSPFSD1012 | 10 X 1 1/2 | #3          | 100                | 3000          |
| FSPFSD1212 | 12 X 1 1/2 | #3          | 100                | 3000          |
| FSPFSD1412 | 14 X 1 1/2 | #3          | 100                | 1500          |

### 410 STAINLESS STEEL • IMPORTED

| Part #     | Size           | Drill Point | Shop Pack Quantity |
|------------|----------------|-------------|--------------------|
| FSSPFSD420 | 1/4-10 X 2 1/2 | #3          | 100                |

Don't see the size you're looking for? Call us for availability!

### WINGED • WOOD TO METAL • ZINC PLATED • IMPORTED

| Part #      | Size           | Drill Point | Shop Pack Quantity | Bulk Quantity |
|-------------|----------------|-------------|--------------------|---------------|
| FSPFSDW1216 | #12-24 X 2     | #4          | 100                | 1000          |
| FSPFSDW1220 | #12-24 X 2 1/2 | #4          | 100                | 1000          |
| FSPFSDW1422 | 1/4-20 X 2 3/4 | #4          | 100                | 1000          |
| FSPFSDW1424 | 1/4-20 X 3     | #4          | 100                | 1000          |



### WINGED • WOOD TO METAL • WAR COATED • IMPORTED

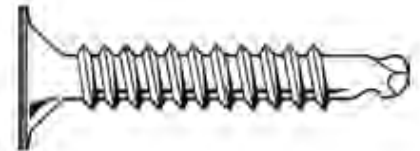
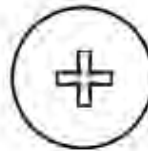
| Part #       | Size           | Drill Point | Package Quantity | Bulk Quantity |
|--------------|----------------|-------------|------------------|---------------|
| FSPFSDWW1216 | #12-24 X 2     | #3          | 100              | 2000          |
| FSPFSDWW1422 | 1/4-20 X 2 3/4 | #4          | 100              | 1000          |
| FSPFSDWW1430 | 1/4-20 X 3 3/4 | #4          | 100              | 500           |

# PHILLIPS WAFER HEAD SELF DRILLING SCREWS & PHILLIPS PAN HEAD SELF DRILLING SCREWS

## PHILLIPS WAFER HEAD SELF DRILLING SCREWS

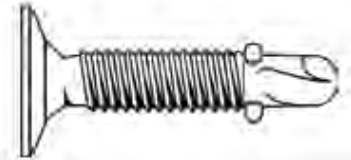
### ZINC PLATED • IMPORTED

| Part #     | Size       | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|------------|-------------|--------------------|---------------|
| FSPWSD0808 | 8 X 1      | #2          | 100                | 5000          |
| FSPWSD1008 | 10 X 1     | #3          | 100                | 5000          |
| FSPWSD1012 | 10 X 1 1/2 | #3          | 100                | 2500          |



### WINGED • WOOD TO METAL • ZINC PLATED • IMPORTED

| Part #      | Size           | Drill Point | Shop Pack Quantity | Bulk Quantity |
|-------------|----------------|-------------|--------------------|---------------|
| FSPFSDW1011 | 10-24 X 1 7/16 | #3          | 100                | 3000          |



## PHILLIPS PAN HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED

| Part #     | Size      | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|-------------|--------------------|---------------|
| FSPPSD0604 | 6 X 1/2   | #2          | 100                | 10000         |
| FSPPSD0606 | 6 X 3/4   | #2          | 100                | 6700          |
| FSPPSD0608 | 6 X 1     | #3          | 100                | 6700          |
| FSPPSD0804 | 8 X 1/2   | #2          | 100                | 6700          |
| FSPPSD0806 | 8 X 3/4   | #3          | 100                | 6700          |
| FSPPSD0808 | 8 X 1     | #3          | 100                | 5000          |
| FSPPSD0810 | 8 X 1 1/4 | #3          | 100                | 3700          |
| FSPPSD0812 | 8 X 1 1/2 | #3          | 100                | 3300          |
| FSPPSD1004 | 10 X 1/2  | #2          | 100                | 6700          |
| FSPPSD1006 | 10 X 3/4  | #3          | 100                | 5000          |



| Part #     | Size       | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|------------|-------------|--------------------|---------------|
| FSPPSD1008 | 10 X 1     | #3          | 100                | 3300          |
| FSPPSD1010 | 10 X 1 1/4 | #3          | 100                | 3000          |
| FSPPSD1012 | 10 X 1 1/2 | #3          | 100                | 3000          |
| FSPPSD1016 | 10 X 2     | #3          | 100                | 1700          |
| FSPPSD1206 | 12 X 3/4   | #3          | 100                | 3700          |
| FSPPSD1208 | 12 X 1     | #3          | 100                | 3300          |
| FSPPSD1210 | 12 X 1 1/4 | #3          | 100                | 3000          |
| FSPPSD1212 | 12 X 1 1/2 | #3          | 100                | 2000          |
| FSPPSD1408 | 14 X 1     | #3          | 100                | 2000          |

### 410 STAINLESS STEEL • IMPORTED

| Part #      | Size       | Drill Point | Shop Pack Quantity |
|-------------|------------|-------------|--------------------|
| FSSPPSD0603 | 6 X 3/8    | #2          | 100                |
| FSSPPSD0806 | 8 X 3/4    | #2          | 100                |
| FSSPPSD0808 | 8 X 1      | #2          | 100                |
| FSSPPSD1006 | 10 X 3/4   | #3          | 100                |
| FSSPPSD1008 | 10 X 1     | #3          | 100                |
| FSSPPSD1208 | 12 X 1     | #3          | 100                |
| FSSPPSD1212 | 12 X 1 1/2 | #3          | 100                |
| FSSPPSD1408 | 14 X 1     | #3          | 100                |

# SQUARE PAN HEAD SELF DRILLING, TORX FLOORING & 6-LOBE PAN HEAD SELF THREADING SCREWS

## SQUARE PAN HEAD SELF DRILLING SCREWS

### ZINC PLATED • IMPORTED

| Part #     | Size     | Drill Point | Shop Pack Quantity | Bulk Quantity |
|------------|----------|-------------|--------------------|---------------|
| FSSPSD0804 | 8 X 1/2  | #2          | 100                | 10000         |
| FSSPSD0806 | 8 X 3/4* | #3          | 100                | 10000         |
| FSSPSD0808 | 8 X 1*   | #3          | 100                | 8000          |

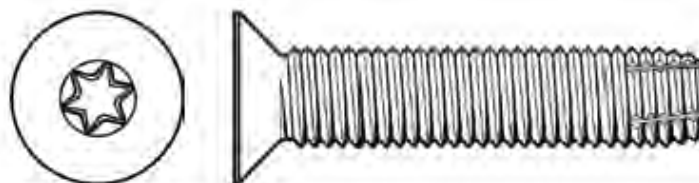
\*3-5 day lead time.



## TORX FLOORING SCREWS

### TYPE F • BLACK PHOSPHATE & OIL • IMPORTED

Self Threading Screws are designed to thread their own way into a pre-drilled hole. They have a surface Rockwell hardness of C45 or more. They should be used with a material whose Rockwell hardness is at least 10 points lower.

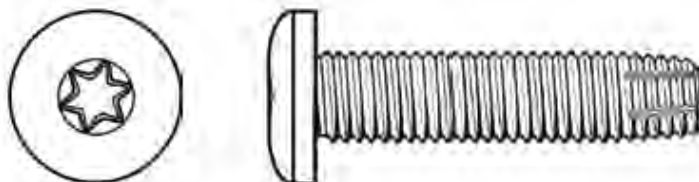


| Part #   | Size            | Torx Size | Shop Pack Quantity | Bulk Quantity |
|----------|-----------------|-----------|--------------------|---------------|
| FTFS0406 | 1/4-20 X 1 1/2  | T30       | 100                | 2000          |
| FTFS0408 | 1/4-20 X 2      | T30       | 100                | 1600          |
| FTFS0409 | 1/4-20 X 2 1/4  | T30       | 100                | 1400          |
| FTFS0410 | 1/4-20 X 2 1/2  | T30       | 100                | 1200          |
| FTFS0412 | 1/4-20 X 3      | T30       | 100                | 1000          |
| FTFS0504 | 5/16-18 X 1     | T40       | 100                | 1600          |
| FTFS0506 | 5/16-18 X 1 1/2 | T40       | 100                | 1400          |
| FTFS0508 | 5/16-18 X 2     | T40       | 100                | 900           |
| FTFS0510 | 5/16-18 X 2 1/2 | T40       | 100                | 800           |
| FTFS0512 | 5/16-18 X 3     | T40       | 100                | 600           |
| FTFS0608 | 3/8-16 X 2      | T40       | 50                 | 600           |
| FTFS0610 | 3/8-16 X 2 1/2  | T40       | 50                 | 400           |

## 6-LOBE PAN HEAD SELF THREADING SCREWS

### TYPE F • ZINC PLATED • IMPORTED

| Part #    | Size            | Torx Size | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|-----------|--------------------|---------------|
| FSTPST508 | 5/16-18 X 1     | T40       | 100                | 1250          |
| FSTPST512 | 5/16-18 X 1 1/2 | T40       | 100                | 1250          |

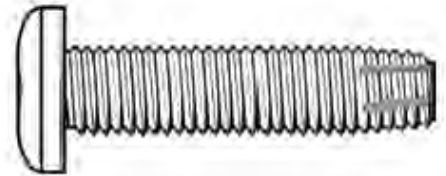


# PHILLIPS PAN HEAD & HEX WASHER HEAD SELF THREADING SCREWS

## PHILLIPS PAN HEAD SELF THREADING SCREWS

**TYPE F • ZINC PLATED • IMPORTED**

| Part #     | Size         | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|--------------|---------------|--------------------|---------------|
| FSPST0603  | 6-32 X 3/8   | #2            | 100                | 20000         |
| FSPST0803  | 8-32 X 3/8   | #2            | 100                | 12000         |
| FSPST0804  | 8-32 X 1/2   | #2            | 100                | 10000         |
| FSPST0805  | 8-32 X 5/8   | #2            | 100                | 9000          |
| FSPST0806  | 8-32 X 3/4   | #2            | 100                | 8000          |
| FSPST403   | 1/4-20 X 3/8 | #3            | 100                | 4000          |
| FSPST406   | 1/4-20 X 3/4 | #3            | 100                | 3000          |
| FSPST408   | 1/4-20 X 1   | #3            | 100                | 2500          |
| FSPSTF1006 | 10-32 X 3/4  | #2            | 100                | 5000          |



Don't see the size you're looking for? Call us for availability!

## HEX WASHER HEAD SELF THREADING SCREWS

**TYPE F • ZINC PLATED • IMPORTED**

| Part #      | Size           | Shop Pack Quantity | Bulk Quantity |
|-------------|----------------|--------------------|---------------|
| FSHWST0603  | 6-32 X 3/8     | 100                | 18000         |
| FSHWST0803  | 8-32 X 3/8     | 100                | 10000         |
| FSHWST1006  | 10-24 X 3/4    | 100                | 5000          |
| FSHWSTF1006 | 10-32 X 3/4*   | 100                | 5000          |
| FSHWST404   | 1/4-20 X 1/2   | 100                | 2500          |
| FSHWSTS404  | 1/4-20 X 1/2†  | 100                | 4000          |
| FSHWST405   | 1/4-20 X 5/8   | 100                | 2500          |
| FSHWST406   | 1/4-20 X 3/4   | 100                | 2000          |
| FSHWST408   | 1/4-20 X 1     | 100                | 2000          |
| FSHWST412   | 1/4-20 X 1 1/2 | 100                | 1500          |
| FSHWST506   | 5/16-18 X 3/4  | 100                | 1250          |
| FSHWST508   | 5/16-18 X 1    | 100                | 1250          |



| Part #    | Size            | Shop Pack Quantity | Bulk Quantity |
|-----------|-----------------|--------------------|---------------|
| FSHWST510 | 5/16-18 X 1 1/4 | 100                | 1000          |
| FSHWST512 | 5/16-18 X 1 1/2 | 100                | 1000          |
| FSHWST606 | 3/8-16 X 3/4    | 100                | 800           |
| FSHWST608 | 3/8-16 X 1      | 100                | 700           |
| FSHWST610 | 3/8-16 X 1 1/4  | 100                | 600           |
| FSHWST612 | 3/8-16 X 1 1/2  | 100                | 600           |

\*Fine Thread

†Serrated under the head

## HEX WASHER HEAD THREAD FORMING SCREWS

**TRI LOBE • ZINC PLATED • IMPORTED**

| Part #     | Size           | Shop Pack Quantity | Bulk Quantity |
|------------|----------------|--------------------|---------------|
| FSHWTF0606 | 3/8-16 X 3/4   | 100                | 1250          |
| FSHWTF0612 | 3/8-16 X 1 1/2 | 100                | 1000          |



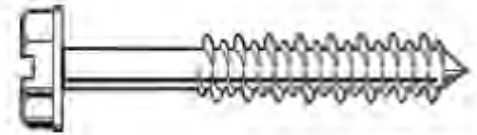
Thread Forming Screws are designed for use in ductile metals. They do not create chips and have excellent resistance to vibrational loosening.

# HEX WASHER HEAD & PHILLIPS FLAT HEAD CONCRETE SCREWS

## HEX WASHER HEAD CONCRETE SCREWS

### BLUE RUSPERT FINISH • IMPORTED

Concrete Screws cut their own threads in a predrilled hole in concrete, block, or brick.



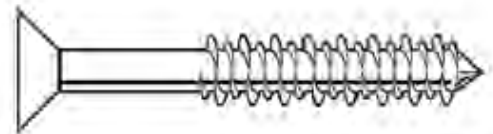
| Part #    | Size         | Drill Size | Hex Size | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|------------|----------|--------------------|---------------|
| FSHRC0310 | 3/16 X 1 1/4 | 5/32       | 1/4      | 100                | 5000          |
| FSHRC0314 | 3/16 X 1 3/4 | 5/32       | 1/4      | 100                | 3300          |
| FSHRC0318 | 3/16 X 2 1/4 | 5/32       | 1/4      | 100                | 2400          |
| FSHRC0322 | 3/16 X 2 3/4 | 5/32       | 1/4      | 100                | 1800          |
| FSHRC0326 | 3/16 X 3 1/4 | 5/32       | 1/4      | 100                | 1200          |
| FSHRC0410 | 1/4 X 1 1/4  | 3/16       | 5/16     | 100                | 2800          |
| FSHRC0414 | 1/4 X 1 3/4  | 3/16       | 5/16     | 100                | 2250          |
| FSHRC0418 | 1/4 X 2 1/4  | 3/16       | 5/16     | 100                | 1800          |
| FSHRC0422 | 1/4 X 2 3/4  | 3/16       | 5/16     | 100                | 1500          |
| FSHRC0426 | 1/4 X 3 1/4  | 3/16       | 5/16     | 100                | 1200          |
| FSHRC0430 | 1/4 X 4      | 3/16       | 5/16     | 100                | 900           |

## 410 STAINLESS STEEL • IMPORTED

| Part #      | Size        | Drill Size | Package Quantity |
|-------------|-------------|------------|------------------|
| FSSSHRC0410 | 1/4 X 1-1/4 | 3/16       | 100              |
| FSSSHRC0414 | 1/4 X 1-3/4 | 3/16       | 100              |
| FSSSHRC0426 | 1/4 X 3 1/4 | 3/16       | 100              |

## PHILLIPS FLAT HEAD CONCRETE SCREWS

### BLUE RUSPERT FINISH • IMPORTED



| Part #     | Size         | Drill Size | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|------------|--------------|------------|---------------|--------------------|---------------|
| FSPFRC0310 | 3/16 X 1 1/4 | 5/32       | #2            | 100                | 5000          |
| FSPFRC0314 | 3/16 X 1 3/4 | 5/32       | #2            | 100                | 3300          |
| FSPFRC0318 | 3/16 X 2 1/4 | 5/32       | #2            | 100                | 2500          |
| FSPFRC0322 | 3/16 X 2 3/4 | 5/32       | #2            | 100                | 2500          |
| FSPFRC0326 | 3/16 X 3 1/4 | 5/32       | #2            | 100                | 1200          |
| FSPFRC0410 | 1/4 X 1 1/4  | 3/16       | #3            | 100                | 2800          |
| FSPFRC0414 | 1/4 X 1 3/4  | 3/16       | #3            | 100                | 2250          |
| FSPFRC0418 | 1/4 X 2 1/4  | 3/16       | #3            | 100                | 1800          |
| FSPFRC0422 | 1/4 X 2 3/4  | 3/16       | #3            | 100                | 1500          |
| FSPFRC0426 | 1/4 X 3 1/4  | 3/16       | #3            | 100                | 1200          |
| FSPFRC0430 | 1/4 X 4      | 3/16       | #3            | 100                | 900           |

# SQUARE FLAT HEAD WOOD SCREWS & STAR DRIVE FLAT HEAD WOOD SCREWS

## SQUARE FLAT HEAD WOOD SCREWS

### NIBS UNDER HEAD • TYPE 17 TIP • ZINC PLATED • IMPORTED

| Part #    | Size      | Square Size | Shop Pack Qty | Bulk Qty |
|-----------|-----------|-------------|---------------|----------|
| FSSFK0604 | 6 X 1/2   | #2          | 100           | 36000    |
| FSSFK0606 | 6 X 3/4   | #2          | 100           | 10000    |
| FSSFK0608 | 6 X 1     | #2          | 100           | 10000    |
| FSSFK0610 | 6 X 1 1/4 | #2          | 100           | 10000    |
| FSSFK0612 | 6 X 1 1/2 | #2          | 100           | 10000    |
| FSSFK0806 | 8 X 3/4   | #2          | 100           | 15000    |
| FSSFK0808 | 8 X 1     | #2          | 100           | 11000    |
| FSSFK0810 | 8 X 1 1/4 | #2          | 100           | 9000     |
| FSSFK0812 | 8 X 1 1/2 | #2          | 100           | 7000     |
| FSSFK0814 | 8 X 1 3/4 | #2          | 100           | 5000     |
| FSSFK0816 | 8 X 2     | #2          | 100           | 4000     |
| FSSFK0818 | 8 X 2 1/4 | #2          | 100           | 3000     |
| FSSFK0820 | 9 X 2 1/2 | #2          | 100           | 2500     |
| FSSFK0824 | 9 X 3     | #2          | 100           | 2000     |



Flat Head Wood Screws come in zinc for general use, black oxide to match color on dark applications, and in exterior coating for use outside and with treated lumber. They typically come with a Phillips/square combo drive.

| Part #    | Size       | Square Size | Shop Pack Qty | Bulk Qty |
|-----------|------------|-------------|---------------|----------|
| FSSFK0828 | 8 X 3 1/2  | #2          | 100           | 1500     |
| FSSFK1012 | 10 X 1 1/2 | #2          | 100           | 4000     |
| FSSFK1014 | 10 X 1 3/4 | #2          | 100           | 4000     |
| FSSFK1016 | 10 X 2     | #2          | 100           | 3000     |
| FSSFK1020 | 10 X 2 1/2 | #2          | 100           | 2000     |
| FSSFK1024 | 10 X 3     | #2          | 100           | 1500     |
| FSSFK1028 | 10 X 3 1/2 | #2          | 100           | 1500     |
| FSSFK1032 | 10 X 4     | #2          | 100           | 1000     |
| FSSFK1040 | 10 X 5     | #2          | 100           | 1000     |

### NIBS UNDER HEAD • TYPE 17 TIP • BLACK OXIDE • IMPORTED

| Part #     | Size      | Square Size | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|-------------|--------------------|---------------|
| FSSFKB0808 | 8 X 1     | #2          | 100                | 10000         |
| FSSFKB0810 | 8 X 1 1/4 | #2          | 100                | 7000          |
| FSSFKB0820 | 8 X 2 1/2 | #2          | 100                | 3000          |
| FSSFKB0824 | 8 X 3     | #2          | 100                | 2500          |

### NIBS UNDER HEAD • TYPE 17 TIP • EXTERIOR COATED • IMPORTED

| Part #     | Size      | Square Size | Shop Pack Quantity | Bulk Quantity |
|------------|-----------|-------------|--------------------|---------------|
| FSSFKW0809 | 8 X 1 1/8 | #2          | 100                | 10000         |
| FSSFKW0812 | 8 X 1 1/2 | #2          | 100                | 5000          |
| FSSFKW0814 | 8 X 1 3/4 | #2          | 100                | 5000          |
| FSSFKW0816 | 8 X 2     | #2          | 100                | 4000          |
| FSSFKW0818 | 8 X 2 1/4 | #2          | 100                | 3000          |
| FSSFKW0820 | 8 X 2 1/2 | #2          | 100                | 3000          |
| FSSFKW0824 | 8 X 3     | #2          | 100                | 2500          |
| FSSFKW1040 | 10 X 5    | #2          | 100                | 1000          |

## STAR DRIVE FLAT HEAD WOOD SCREWS

### NIBS UNDER HEAD • TYPE 17 TIP • EXTERIOR COATED • IMPORTED

| Part #   | Size        | Drive Size | Package Quantity | Bulk Quantity |
|----------|-------------|------------|------------------|---------------|
| FSTD0816 | #8 X 2      | T25        | 100              | 3100          |
| FSTD0820 | #8 X 2 1/2  | T25        | 100              | 2125          |
| FSTD0924 | #9 X 3      | T25        | 100              | 1800          |
| FSTD1028 | #10 X 3 1/2 | T25        | 100              | 1500          |
| FSTD1032 | #10 X 4     | T25        | 100              | 1250          |

# SQUARE BUGLE HEAD DECK SCREWS & COMBO DRIVE ROUND WASHER HEAD WOOD SCREWS

## SQUARE BUGLE HEAD DECK SCREWS

**18-8 STAINLESS STEEL • TYPE 17 TIP • IMPORTED**

| Part #      | Size      | Square Size | Shop Pack Quantity | Bulk Quantity |
|-------------|-----------|-------------|--------------------|---------------|
| FSSSSBD0808 | 8 X 1     | #2          | 100                | 11000         |
| FSSSSBD0810 | 8 X 1 1/4 | #2          | 100                | 9000          |
| FSSSSBD0813 | 8 X 1 5/8 | #2          | 100                | 5000          |
| FSSSSBD0816 | 8 X 2     | #2          | 100                | 4000          |
| FSSSSBD0818 | 8 X 2 1/4 | #2          | 100                | 3000          |
| FSSSSBD0820 | 8 X 2 1/2 | #2          | 100                | 3000          |
| FSSSSBD0824 | 8 X 3     | #2          | 100                | 2500          |
| FSSSSBD1024 | 10 X 3    | #2          | 100                | 1500          |



## COMBO DRIVE ROUND WASHER HEAD WOOD SCREWS

**TYPE 17 TIP • ZINC PLATED • IMPORTED**

| Part #     | Size        | Square Size | Shop Pack Quantity | Bulk Quantity |
|------------|-------------|-------------|--------------------|---------------|
| FSSRWW0804 | 8 X 1/2†    | #2          | 100                | 10000         |
| FSSRWW0805 | 8 X 5/8†    | #2          | 100                | 10000         |
| FSSRWW0806 | 8 X 3/4     | #2          | 100                | 10000         |
| FSSRWW0808 | 8 X 1       | #2          | 100                | 10000         |
| FSSRWW0810 | 8 X 1 1/4   | #2          | 100                | 9000          |
| FSSRWW0812 | 8 X 1 1/2   | #2          | 100                | 7000          |
| FSSRWW0814 | 8 X 1 3/4   | #2          | 100                | 5000          |
| FSSRWW0816 | 8 X 2       | #2          | 100                | 4000          |
| FSSRWW0820 | 8 X 2 1/2   | #2          | 100                | 2500          |
| FSSRWW0824 | 8 X 3       | #2          | 100                | 2000          |
| FSSRWW0828 | 8 X 3 1/2   | #2          | 100                | 1500          |
| FSSRWW1006 | 10 X 3/4†   | #2          | 100                | -             |
| FSSRWW1010 | 10 X 1 1/4† | #2          | 100                | 5000          |
| FSSRWW1016 | 10 X 2†     | #2          | 100                | 3000          |
| FSSRWW1020 | 10 X 2 1/2* | #2          | 100                | 1500          |
| FSSRWW1024 | 10 X 3*     | #2          | 100                | 1500          |
| FSSRWW1028 | 10 X 3 1/2* | #2          | 100                | 1000          |



Round Washer Head Wood Screws have a larger bearing surface for more holding power. They typically come in square/Phillips combo drive.

\*1/2" Diameter Washer

†Black Phosphate Coated

**18-8 STAINLESS STEEL • TYPE 17 TIP • IMPORTED**

| Part #      | Size      | Square Size | Shop Pack Quantity |
|-------------|-----------|-------------|--------------------|
| FSSSRWW0812 | 8 X 1 1/2 | #2          | 100                |
| FSSSRWW0814 | 8 X 1 3/4 | #2          | 100                |

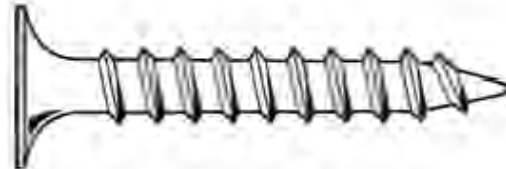


# PHILLIPS BUGLE HEAD DRYWALL SCREWS & PHILLIPS FLAT HEAD WOOD SCREWS

## PHILLIPS BUGLE HEAD DRYWALL SCREWS

**BLACK PHOSPHATE • IMPORTED**

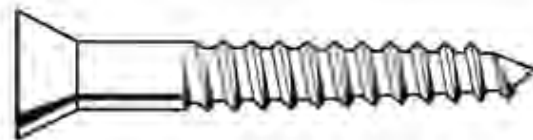
| Part # | Size      | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|--------|-----------|---------------|--------------------|---------------|
| FSD606 | 6 X 3/4   | #2            | 100                | 10000         |
| FSD608 | 6 X 1     | #2            | 100                | 10000         |
| FSD610 | 6 X 1 1/4 | #2            | 100                | 8000          |
| FSD613 | 6 X 1 5/8 | #2            | 100                | 5000          |



## PHILLIPS FLAT HEAD WOOD SCREWS

**ZINC PLATED • TYPE A • IMPORTED**

| Part #    | Size       | Phillips Size | Shop Pack Quantity | Bulk Quantity |
|-----------|------------|---------------|--------------------|---------------|
| FSPFW0408 | 4 X 1      | #1            | 100                | 6000          |
| FSPFW0808 | 8 X 1      | #2            | 100                | 4500          |
| FSPFW0812 | 8 X 1 1/2  | #2            | 100                | 2500          |
| FSPFW0814 | 8 X 1 3/4  | #2            | 100                | 2000          |
| FSPFW0828 | 8 X 3 1/2  | #2            | 100                | 750           |
| FSPFW1012 | 10 X 1 1/2 | #3            | 100                | 2000          |



**BRASS • TYPE A • IMPORTED**

| Part #     | Size    | Phillips Size | Shop Pack Quantity |
|------------|---------|---------------|--------------------|
| FBSPFW0605 | 6 X 5/8 | #2            | 100                |

# THREADED ROD

## GRADE A • COARSE THREAD • ZINC PLATED • IMPORTED



Grade A Threaded Rod is manufactured to ASTM A307 Grade A specs. Tensile strength is a minimum of 60,000 psi.

| Part #   | Size          | Tube Quantity | Part #   | Size         | Tube Quantity |
|----------|---------------|---------------|----------|--------------|---------------|
| FTR20103 | 10-24 X 3'    | 50            | FTR2086  | 1/2-13 X 6'  | 12            |
| FTR20106 | 10-24 X 6'    | 100           | FTR20810 | 1/2-13 X 10' | 12            |
| FTR2043  | 1/4-20 X 3'   | 50            | FTR2093  | 9/16-12 X 3' | 10            |
| FTR2046  | 1/4-20 X 6'   | 50            | FTR2103  | 5/8-11 X 3'  | 8             |
| FTR20412 | 1/4-20 X 12'  | 50            | FTR2106  | 5/8-11 X 6'  | 8             |
| FTR2053  | 5/16-18 X 3'  | 35            | FTR21012 | 5/8-11 X 12' | 8             |
| FTR2056  | 5/16-18 X 6'  | 35            | FTR2123  | 3/4-10 X 3'  | 5             |
| FTR20510 | 5/16-18 X 10' | 35            | FTR2126  | 3/4-10 X 6'  | 5             |
| FTR2063  | 3/8-16 X 3'   | 25            | FTR21212 | 3/4-10 X 12' | 5             |
| FTR2066  | 3/8-16 X 6'   | 25            | FTR2143  | 7/8-9 X 3'   | 4             |
| FTR20610 | 3/8-16 X 10'  | 25            | FTR2146  | 7/8-9 X 6'   | 4             |
| FTR20612 | 3/8-16 X 12'  | 25            | FTR2163  | 1-8 X 3'     | 3             |
| FTR2073  | 7/16-14 X 3'  | 17            | FTR2166  | 1-8 X 6'     | 3             |
| FTR2076  | 7/16-14 X 6'  | 17            | FTR21610 | 1-8 X 10'    | 3             |
| FTR2082  | 1/2-13 X 2'   | 21            | FTR2183  | 1 1/8-7 X 3' | 2             |
| FTR2083  | 1/2-13 X 3'   | 12            | FTR2186  | 1 1/8-7 X 6' | 2             |

## GRADE A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #    | Size         | Tube Quantity | Part #    | Size         | Tube Quantity |
|-----------|--------------|---------------|-----------|--------------|---------------|
| FTR2P066  | 3/8-16 X 6'  | 25            | FTR2P0812 | 1/2-13 X 12' | 12            |
| FTR2P076  | 7/16-14 X 6' | 17            | FTR2P126  | 3/4-10 X 6'  | 5             |
| FTR2P086  | 1/2-13 X 6'  | 12            | FTR2P146  | 7/8-9 X 6'   | 4             |
| FTR2P0810 | 1/2-13 X 10' | 12            |           |              |               |

## GRADE A • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size         | Tube Quantity | Part #   | Size        | Tube Quantity |
|----------|--------------|---------------|----------|-------------|---------------|
| FTR2F043 | 1/4-28 X 3'  | 50            | FTR2F103 | 5/8-18 X 3' | 8             |
| FTR2F053 | 5/16-24 X 3' | 35            | FTR2F106 | 5/8-18 X 6' | 8             |
| FTR2F063 | 3/8-24 X 3'  | 25            | FTR2F123 | 3/4-16 X 3' | 5             |
| FTR2F073 | 7/16-20 X 3' | 17            | FTR2F143 | 7/8-14 X 3' | 4             |
| FTR2F083 | 1/2-20 X 3'  | 12            | FTR2F163 | 1-14 X 3'   | 3             |

Don't see the size you're looking for? Call us for availability!

## LEFT HAND • GRADE A • COARSE THREAD • PLAIN FINISH • IMPORTED

| Part #    | Size         | Tube Quantity | Part # | Size | Tube Quantity |
|-----------|--------------|---------------|--------|------|---------------|
| FTR2L066  | 3/8-16 X 6'  | 25            |        |      |               |
| FTR2L083  | 1/2-13 X 3'  | 12            |        |      |               |
| FTR2L0812 | 1/2-13 X 12' | 13            |        |      |               |

# THREADED ROD

## GRADE B7 • COARSE THREAD • PLAIN FINISH • IMPORTED

B7 Threaded Rod is manufactured to A193 Grade B7 specs. Tensile strength is a minimum of 125,000 psi for sizes up to 1 1/2'.

| Part #    | Size         | Tube Quantity | Part #    | Size          | Tube Quantity |
|-----------|--------------|---------------|-----------|---------------|---------------|
| FTRB7043  | 1/4-20 X 3'  | 50            | FTRB7123  | 3/4-10 X 3'   | 5             |
| FTRB7053  | 5/16-18 X 3' | 35            | FTRB7126  | 3/4-10 X 6'   | 5             |
| FTRB7056  | 5/16-18 X 6' | 35            | FTRB71212 | 3/4-10 X 12'  | 5             |
| FTRB7063  | 3/8-16 X 3'  | 25            | FTRB7143  | 7/8-9 X 3'    | 4             |
| FTRB7066  | 3/8-16 X 6'  | 25            | FTRB7146  | 7/8-9 X 6'    | 4             |
| FTRB70612 | 3/8-16 X 12' | 25            | FTRB7163  | 1-8 X 3'      | 3             |
| FTRB7073  | 7/16-14 X 3' | 17            | FTRB7166  | 1-8 X 6'      | 3             |
| FTRB7083  | 1/2-13 X 3'  | 12            | FTRB7183  | 1 1/8-7 X 3'  | 2             |
| FTRB7086  | 1/2-13 X 6'  | 12            | FTRB7203  | 1 1/4-7 X 3'  | 2             |
| FTRB70812 | 1/2-13 X 12' | 12            | FTRB7226  | 1 3/8-6 X 6'  | 1             |
| FTRB7103  | 5/8-11 X 3'  | 8             | FTRB7243  | 1 1/2-6 X 3'  | 1             |
| FTRB7106  | 5/8-11 X 6'  | 8             | FTRB7246  | 1 1/2-6 X 6'  | 1             |
| FTRB71012 | 5/8-11 X 12' | 8             | FTRB72412 | 1 1/2-6 X 12' | 1             |

## GRADE B7 • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #    | Size         | Tube Quantity | Part #     | Size          | Tube Quantity |
|-----------|--------------|---------------|------------|---------------|---------------|
| FTRB7F046 | 1/4-28 X 6'  | 50            | FTRB7F106  | 5/8-18 X 6'   | 8             |
| FTRB7F056 | 5/16-24 X 6' | 35            | FTRB7F123  | 3/4-16 X 3'   | 5             |
| FTRB7F066 | 3/8-24 X 6'  | 25            | FTRB7F126  | 3/4-16 X 6'   | 5             |
| FTRB7F073 | 7/16-20 X 3' | 17            | FTRB7F1212 | 3/4-16 X 12'  | 5             |
| FTRB7F083 | 1/2-20 X 3'  | 12            | FTRB7F143  | 7/8-14 X 3'   | 4             |
| FTRB7F086 | 1/2-20 X 6'  | 12            | FTRB7F146  | 7/8-14 X 6'   | 4             |
| FTRB7F093 | 9/16-18 X 3' | 10            | FTRB7F163  | 1-14 X 3'     | 3             |
| FTRB7F103 | 5/8-18 X 3'  | 8             | FTRB7F206  | 1 1/4-12 X 6' | 1             |

## GRADE B7 • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED

| Part #    | Size         | Tube Quantity | Part #    | Size        | Tube Quantity |
|-----------|--------------|---------------|-----------|-------------|---------------|
| FTRB7Y043 | 1/4-20 X 3'  | 50            | FTRB7Y103 | 5/8-11 X 3' | 8             |
| FTRB7Y053 | 5/16-18 X 3' | 35            | FTRB7Y123 | 3/4-10 X 3' | 5             |
| FTRB7Y063 | 3/8-16 X 3'  | 25            | FTRB7Y126 | 3/4-10 X 6' | 5             |
| FTRB7Y073 | 7/16-14 X 3' | 17            | FTRB7Y143 | 7/8-9 X 3'  | 4             |
| FTRB7Y083 | 1/2-13 X 3'  | 12            | FTRB7Y146 | 7/8-9 X 6'  | 4             |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size         | Tube Quantity | Part #   | Size        | Tube Quantity |
|----------|--------------|---------------|----------|-------------|---------------|
| FSSTR046 | 1/4-20 X 6'  | 50            | FSSTR086 | 1/2-13 X 6' | 12            |
| FSSTR056 | 5/16-18 X 6' | 35            | FSSTR106 | 5/8-11 X 6' | 8             |
| FSSTR063 | 3/8-16 X 3'  | 25            | FSSTR126 | 3/4-10 X 6' | 5             |
| FSSTR066 | 3/8-16 X 6'  | 25            | FSSTR166 | 1-8 X 6'    | 3             |
| FSSTR076 | 7/16-14 X 6' | 17            |          |             |               |

# UNTHREADED ROD & ACME THREADED ROD

## UNTHREADED ROD

**GRADE A • ZINC PLATED • IMPORTED**

| Part #  | Size      | Tube Quantity |
|---------|-----------|---------------|
| FUR2043 | 1/4 X 3'  | 10            |
| FUR2053 | 5/16 X 3' | 10            |
| FUR2063 | 3/8 X 3'  | 10            |
| FUR2073 | 7/16 X 3' | 10            |
| FUR2083 | 1/2 X 3'  | 10            |
| FUR2123 | 3/4 X 3'  | 3             |

## ACME THREADED ROD

**LOW CARBON STEEL • PLAIN FINISH • MADE IN USA**

| Right Hand Threads |            |
|--------------------|------------|
| Part #             | Size       |
| EQ404-1008         | 5/8-8 X 6' |
| EQ404-1206         | 3/4-6 X 6' |
| EQ404-1406         | 7/8-6 X 6' |
| EQ404-1604         | 1-4 X 6'   |

| Left Hand Threads |            |
|-------------------|------------|
| Part #            | Size       |
| EQ401-1406        | 7/8-6 X 6' |

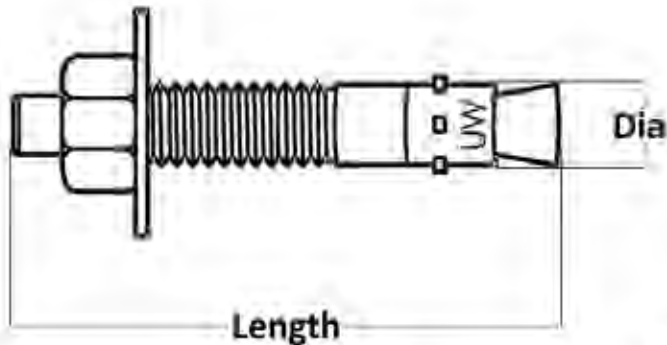
We have many other sizes of ACME threaded rod available! Please call for price and availability.



ACME Threaded Rod has threads that are broader, stronger, and more square than standard threads. It is excellent for use in frequent assembly and disassembly, dirty environments, and for adjusting and leveling screws.

# WEDGE ANCHORS

## COARSE THREAD • ZINC PLATED • IMPORTED



Wedge anchors provide a simple and effective method for anchoring things to solid concrete or to grout filled concrete masonry. The wedge anchors that we carry are not suitable for use in cracked concrete. Wedge anchors for cracked concrete are available upon request. Size is given as diameter by length.

The drill size to use is equal to the diameter.

| Part # | Size           | Package Quantity | Bulk Quantity |
|--------|----------------|------------------|---------------|
| FA0414 | 1/4-20 X 1 3/4 | 100              | 500           |
| FA0418 | 1/4-20 X 2 1/4 | 100              | 500           |
| FA0426 | 1/4-20 X 3 1/4 | 100              | 300           |
| FA0618 | 3/8-16 X 2 1/4 | 50               | 200           |
| FA0624 | 3/8-16 X 3     | 50               | 150           |
| FA0630 | 3/8-16 X 3 3/4 | 50               | 125           |
| FA0640 | 3/8-16 X 5     | 50               | 100           |
| FA0656 | 3/8-16 X 6 1/2 | 20               | 100           |
| FA0822 | 1/2-13 X 2 3/4 | 50               | 100           |
| FA0830 | 1/2-13 X 3 3/4 | 25               | 75            |
| FA0836 | 1/2-13 X 4 1/2 | 25               | 60            |
| FA0844 | 1/2-13 X 5 1/2 | 25               | 60            |
| FA0856 | 1/2-13 X 7     | 20               | 40            |
| FA0868 | 1/2-13 X 8 1/2 | 20               | 30            |
| FA1028 | 5/8-11 X 3 1/2 | 25               | 50            |
| FA1036 | 5/8-11 X 4 1/2 | 20               | 40            |

| Part #  | Size           | Package Quantity | Bulk Quantity |
|---------|----------------|------------------|---------------|
| FA1040  | 5/8-11 X 5     | 20               | 35            |
| FA1048  | 5/8-11 X 6     | 20               | 30            |
| FA1056  | 5/8-11 X 7     | 10               | 25            |
| FA1068  | 5/8-11 X 8 1/2 | 10               | 20            |
| FA1234  | 3/4-10 X 4 1/4 | 10               | 30            |
| FA1238  | 3/4-10 X 4 3/4 | 10               | 25            |
| FA1244  | 3/4-10 X 5 1/2 | 10               | 20            |
| FA1256  | 3/4-10 X 7     | 10               | 18            |
| FA1268  | 3/4-10 X 8 1/2 | 10               | 14            |
| FA1280  | 3/4-10 X 10    | 10               | 14            |
| FA1296  | 3/4-10 X 12    | 10               | 12            |
| FA1648  | 1-8 X 6        | 5                | 12            |
| FA1672  | 1-8 X 9        | 5                | 8             |
| FA1696  | 1-8 X 12       | 5                | 6             |
| FA16120 | 1-8 X 15       | 5                | -             |

## COARSE THREAD • HOT DIP GALVANIZED • IMPORTED

| Part #  | Size       | Package Quantity | Bulk Quantity |
|---------|------------|------------------|---------------|
| FAG1040 | 5/8-11 X 5 | 20               | 80            |

## 304 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FSSA0426 | 1/4-20 X 3 1/4 | 100              | 1200          |
| FSSA0618 | 3/8-16 X 2 1/4 | 100              | 600           |
| FSSA0624 | 3/8-16 X 3     | 100              | 600           |
| FSSA0630 | 3/8-16 X 3 3/4 | 100              | 400           |
| FSSA0640 | 3/8-16 X 5     | 50               | 300           |
| FSSA0822 | 1/2-13 X 2 3/4 | 50               | 300           |
| FSSA0830 | 1/2-13 X 3 3/4 | 50               | 200           |

| Part #   | Size           | Package Quantity | Bulk Quantity |
|----------|----------------|------------------|---------------|
| FSSA0834 | 1/2-13 X 4 1/4 | 25               | 200           |
| FSSA0844 | 1/2-13 X 5 1/2 | 25               | 150           |
| FSSA0856 | 1/2-13 X 7     | 25               | 100           |
| FSSA1036 | 5/8-11 X 4 1/2 | 25               | 150           |
| FSSA1040 | 5/8-11 X 5     | 25               | 100           |
| FSSA1048 | 5/8-11 X 6     | 25               | 100           |
| FSSA1238 | 3/4-10 X 4 3/4 | 20               | 80            |

# SLEEVE ANCHORS, FOUNDATION ANCHOR BOLTS & PLASTIC CONICAL ANCHORS,

## SLEEVE ANCHORS

### HEX NUT SLEEVE ANCHORS

| Part #  | Size        | Package Quantity | Bulk Quantity |
|---------|-------------|------------------|---------------|
| FAS0624 | 3/8 X 3     | 50               | 250           |
| FAS0632 | 3/8 X 4     | 50               | 250           |
| FAS0820 | 1/2 X 2 1/2 | 25               | 150           |
| FAS0824 | 1/2 X 3     | 25               | 150           |
| FAS1234 | 3/4 X 4 1/4 | 5                | 50            |
| FAS1250 | 3/4 X 6 1/4 | 5                | 40            |



### PHILLIPS FLAT HEAD SLEEVE ANCHORS

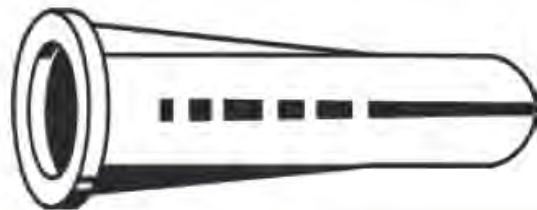
| Part #    | Size       | Package Quantity | Bulk Quantity |
|-----------|------------|------------------|---------------|
| FASPF0416 | 1/4-20 X 2 | 100              | 1200          |
| FASPF0640 | 3/8-16 X 5 | 50               | 250           |
| FASPF0648 | 3/8-16 X 6 | 50               | 200           |

## FOUNDATION ANCHOR BOLTS



We have all sizes and types of foundation anchor bolts available. Let us know your requirements and we will be happy to quote you. Lead time is 3-4 business days on plain finish and 8-10 business days on hot dip galvanized.

## PLASTIC CONICAL ANCHORS



Plastic Conical Anchors are designed as a light duty anchor to use with sheet metal screws or wood screws to anchor things in concrete, masonry, or drywall.

| Part #   | Anchor Size  | Screw Size | Package Quantity |
|----------|--------------|------------|------------------|
|          | Dia X Length |            |                  |
| FACP0408 | 1/4 X 1      | #10        | 100              |
| FACP0511 | 5/16 X 1 3/8 | #14        | 100              |

# EZ SCREW IN DRYWALL ANCHOR & TITEN HD® SCREW ANCHORS

## EZ SCREW IN DRYWALL ANCHOR



EZ Screw in Drywall Anchors provide a quick easy way to securely fasten something to drywall.

| Part # | Size     | Package Quantity |
|--------|----------|------------------|
| FAEZ   | #8 SCREW | 100              |

## TITEN HD® SCREW ANCHORS

### ZINC PLATED • IMPORTED

| Part #   | Anchor Size         |           | Package Quantity |
|----------|---------------------|-----------|------------------|
|          | Drill Size X Length | Thread OD |                  |
| FASC0620 | 3/8 X 2 1/2         | 15/32     | 50               |
| FASC0624 | 3/8 X 3             | 15/32     | 50               |
| FASC0632 | 3/8 X 4             | 15/32     | 50               |
| FASC0640 | 3/8 X 5             | 15/32     | 20               |
| FASC0824 | 1/2 X 3             | 19/32     | 25               |
| FASC0832 | 1/2 X 4             | 19/32     | 20               |
| FASC0840 | 1/2 X 5             | 19/32     | 20               |
| FASC0848 | 1/2 X 6             | 19/32     | 20               |
| FASC1240 | 3/4 X 5             | 7/8       | 5                |

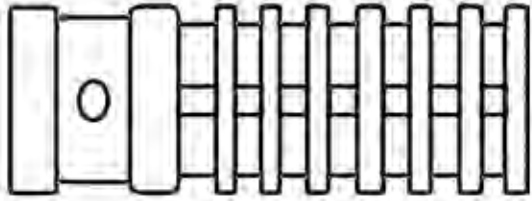


Titen HD anchors are a patented, high strength screw anchor for concrete and masonry and are excellent for use in cracked and uncracked concrete.

Our Titen HD® screw anchors are Simpson Strong Tie brand. Titen HD® is a trademark of Simpson Strong-Tie Company, Inc.

# LAG SHIELDS, WELD STUD CONCRETE ANCHORS & TOGGLE WINGS

## LAG SHIELDS



Lag shields provide a way to anchor things to concrete or masonry using a common lag screw.

| Part # | Size             | Drill Size | Package Quantity |
|--------|------------------|------------|------------------|
|        | Lag Dia X Length |            |                  |
| FLSS04 | 1/4 X 1          | 1/2        | 50               |
| FLSS05 | 5/16 X 1 1/4     | 1/2        | 50               |
| FLSL05 | 5/16 X 1 3/4     | 1/2        | 50               |
| FLSS06 | 3/8 X 1 3/4      | 5/8        | 50               |
| FLSL06 | 3/8 X 2 1/2      | 5/8        | 50               |

## WELD STUD CONCRETE ANCHORS

**PLAIN FINISH • MADE IN USA**

| Part #     | Size         | Bulk Quantity |
|------------|--------------|---------------|
| FAWSC0834  | 1/2 X 4 1/8  | 200           |
| FAWSC08425 | 1/2 X 5 5/16 | 150           |
| FAWSC0849  | 1/2 X 6 1/8  | 125           |
| FAWSC0865  | 1/2 X 8 1/8  | 100           |
| FAWSC12655 | 3/4 X 8 3/16 | 50            |
| FAWSC10525 | 5/8 X 6 9/16 | 80            |



Weld Stud Concrete Anchors are designed to weld to flat surfaces or to the inside or outside of an angle.

Our weld stud concrete anchors are Tru Weld brand.

## TOGGLE WINGS

**ZINC PLATED • IMPORTED**

| Part # | Size    | Drill Size | Package Quantity |
|--------|---------|------------|------------------|
| FTW04  | 1/4-20  | 11/16      | 50               |
| FTW05  | 5/16-18 | 7/8        | 50               |



Don't see an anchor you need listed here? We can get many other types of anchors and most of them are available in 1-2 days.

Toggle Wings are designed as an anchor in hollow wall applications.



# SOCKET CAP SCREWS

## TECHNICAL INFORMATION

### Rockwell Hardness & Tensile Strengths

| Type & Size                  | Core Hardness Rockwell | Tensile Strengths |
|------------------------------|------------------------|-------------------|
| SOCKET HEAD (THRU 1/2")*     | C39-C45                | 180,000 PSI MIN   |
| SOCKET HEAD (5/8" & LARGER)* | C38-C45                | 170,000 PSI MIN   |
| FLAT HEAD*                   | C38-C44                | 145,000 PSI MIN   |
| BUTTON HEAD*                 | C38-C44                | 145,000 PSI MIN   |
| SOCKET SHOULDER*             | C32-C43                | 140,000 PSI MIN   |

These only apply to alloy steel. Rockwell hardness for stainless steel is a minimum of B100 and tensile strength is a minimum of 100,000 psi for all of these.

### Dimensions

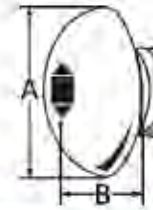
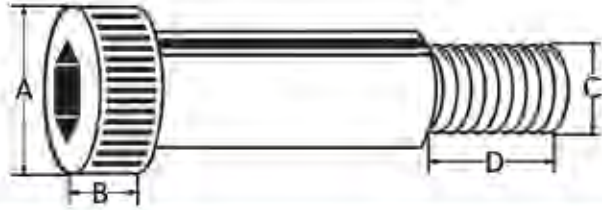


| Size  | Basic Thread Length | Allen Wrench Size | Socket Head Cap Screws |       |       |       | Socket Flat Head Cap Screws |       |       |       |
|-------|---------------------|-------------------|------------------------|-------|-------|-------|-----------------------------|-------|-------|-------|
|       |                     |                   | A                      |       | B     |       | Allen Wrench Size           | A     |       | B     |
|       |                     |                   | MAX                    | MIN   | MAX   | MIN   |                             | MAX   | MIN   |       |
| #1    | 5/8                 | 1/16              | 0.118                  | 0.112 | 0.073 | 0.070 | -                           | -     | -     | -     |
| #2    | 5/8                 | 5/64              | 0.140                  | 0.134 | 0.086 | 0.083 | -                           | -     | -     | -     |
| #3    | 5/8                 | 5/64              | 0.161                  | 0.154 | 0.099 | 0.095 | -                           | -     | -     | -     |
| #4    | 3/4                 | 3/32              | 0.183                  | 0.176 | 0.112 | 0.108 | 1/16                        | 0.255 | 0.218 | 0.083 |
| #5    | 3/4                 | 3/32              | 0.205                  | 0.198 | 0.125 | 0.121 | 5/64                        | 0.281 | 0.240 | 0.090 |
| #6    | 3/4                 | 7/64              | 0.226                  | 0.218 | 0.138 | 0.134 | 5/64                        | 0.307 | 0.263 | 0.097 |
| #8    | 7/8                 | 9/64              | 0.270                  | 0.262 | 0.165 | 0.159 | 3/32                        | 0.359 | 0.311 | 0.112 |
| #10   | 7/8                 | 5/32              | 0.312                  | 0.303 | 0.190 | 0.185 | 1/8                         | 0.411 | 0.359 | 0.127 |
| #12   | 1                   | 5/32              | 0.324                  | 0.314 | 0.216 | 0.211 | 1/8                         | 0.450 | 0.410 | 0.135 |
| 1/4   | 1                   | 3/16              | 0.375                  | 0.365 | 0.250 | 0.244 | 5/32                        | 0.531 | 0.480 | 0.161 |
| 5/16  | 1 1/8               | 1/4               | 0.469                  | 0.457 | 0.312 | 0.306 | 3/16                        | 0.656 | 0.600 | 0.198 |
| 3/8   | 1 1/4               | 5/16              | 0.562                  | 0.550 | 0.375 | 0.368 | 7/32                        | 0.781 | 0.720 | 0.234 |
| 7/16  | 1 3/8               | 3/8               | 0.656                  | 0.642 | 0.438 | 0.430 | 1/4                         | 0.844 | 0.781 | 0.234 |
| 1/2   | 1 1/2               | 3/8               | 0.750                  | 0.735 | 0.500 | 0.492 | 5/16                        | 0.938 | 0.872 | 0.251 |
| 5/8   | 1 3/4               | 1/2               | 0.938                  | 0.921 | 0.625 | 0.616 | 3/8                         | 1.188 | 1.112 | 0.324 |
| 3/4   | 2                   | 5/8               | 1.125                  | 1.107 | 0.750 | 0.740 | 1/2                         | 1.438 | 1.355 | 0.396 |
| 7/8   | 2 1/4               | 3/4               | 1.312                  | 1.293 | 0.875 | 0.864 | 9/16                        | 1.688 | 1.604 | 0.468 |
| 1     | 2 1/2               | 3/4               | 1.500                  | 1.479 | 1.000 | 0.988 | 5/8                         | 1.938 | 1.841 | 0.540 |
| 1 1/8 | 3 1/8               | 7/8               | 1.688                  | 1.665 | 1.125 | 1.111 | -                           | -     | -     | -     |
| 1 1/4 | 3 3/16              | 7/8               | 1.875                  | 1.852 | 1.250 | 1.236 | -                           | -     | -     | -     |
| 1 1/2 | 3 3/4               | 1                 | 2.250                  | 2.224 | 1.500 | 1.485 | -                           | -     | -     | -     |

# SOCKET CAP SCREWS

## TECHNICAL INFORMATION

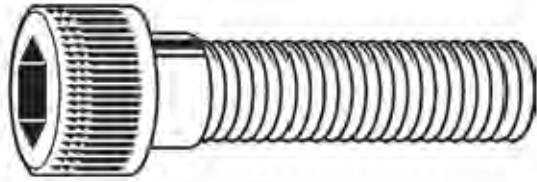
Dimensions \*continued from previous page



| Size | Allen Wrench Size | Socket Shoulder Screws |       |       |       |         |       | Socket Button Head Cap Screws |       |       |       |       |  |
|------|-------------------|------------------------|-------|-------|-------|---------|-------|-------------------------------|-------|-------|-------|-------|--|
|      |                   | A                      |       | B     |       | C       | D     | Allen Wrench Size             | A     |       | B     |       |  |
|      |                   | MAX                    | MIN   | MAX   | MIN   | NOMINAL | BASIC |                               | MAX   | MIN   | MAX   | MIN   |  |
| #6   | -                 | -                      | -     | -     | -     | -       | -     | 5/64                          | 0.262 | 0.250 | 0.073 | 0.063 |  |
| #8   | -                 | -                      | -     | -     | -     | -       | -     | 3/32                          | 0.312 | 0.298 | 0.087 | 0.077 |  |
| #10  | -                 | -                      | -     | -     | -     | -       | -     | 1/8                           | 0.361 | 0.347 | 0.101 | 0.091 |  |
| 1/4  | 1/8               | 0.375                  | 0.357 | 0.188 | 0.177 | 10-24   | 3/8   | 5/32                          | 0.437 | 0.419 | 0.132 | 0.122 |  |
| 5/16 | 5/32              | 0.438                  | 0.419 | 0.219 | 0.209 | 1/4-20  | 7/16  | 3/16                          | 0.547 | 0.527 | 0.166 | 0.152 |  |
| 3/8  | 3/16              | 0.562                  | 0.543 | 0.250 | 0.240 | 5/16-18 | 1/2   | 7/32                          | 0.656 | 0.636 | 0.199 | 0.185 |  |
| 1/2  | 1/4               | 0.750                  | 0.729 | 0.312 | 0.302 | 3/8-16  | 5/8   | 5/16                          | 0.875 | 0.851 | 0.265 | 0.245 |  |
| 5/8  | 5/16              | 0.875                  | 0.853 | 0.375 | 0.365 | 1/2-13  | 3/4   | 3/8                           | 1.000 | 0.970 | 0.331 | 0.311 |  |
| 3/4  | 3/8               | 1.000                  | 0.977 | 0.500 | 0.490 | 5/8-11  | 7/8   | -                             | -     | -     | -     | -     |  |
| 1    | 1/2               | 1.312                  | 1.287 | 0.625 | 0.610 | 3/4-10  | 1     | -                             | -     | -     | -     | -     |  |

# SOCKET HEAD CAP SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



Socket Head Cap Screws provide the advantages of a greater tensile strength than grade 8 hex cap screws and a smaller area needed around the head for wrenching.

| Part #     | Size           | Package Quantity | Bulk Quantity |
|------------|----------------|------------------|---------------|
| FSHCS00106 | 1-64 X 3/4     | 100              | 1000          |
| FSHCS00604 | 6-32 X 1/2     | 100              | 2500          |
| FSHCS00606 | 6-32 X 3/4     | 100              | 2500          |
| FSHCS00608 | 6-32 X 1       | 100              | 2500          |
| FSHCS00804 | 8-32 X 1/2     | 100              | 5000          |
| FSHCS00806 | 8-32 X 3/4     | 100              | 2500          |
| FSHCS00808 | 8-32 X 1       | 100              | 2500          |
| FSHCS00810 | 8-32 X 1 1/4   | 100              | 2500          |
| FSHCS00812 | 8-32 X 1 1/2   | 100              | 2500          |
| FSHCS01003 | 10-24 X 3/8    | 100              | 2500          |
| FSHCS01004 | 10-24 X 1/2    | 100              | 2500          |
| FSHCS01005 | 10-24 X 5/8    | 100              | 2500          |
| FSHCS01006 | 10-24 X 3/4    | 100              | 2500          |
| FSHCS01008 | 10-24 X 1      | 100              | 2500          |
| FSHCS01010 | 10-24 X 1 1/4  | 100              | 2000          |
| FSHCS01012 | 10-24 X 1 1/2  | 100              | 2000          |
| FSHCS01014 | 10-24 X 1 3/4  | 100              | 1500          |
| FSHCS01016 | 10-24 X 2      | 100              | 1500          |
| FSHCS01018 | 10-24 X 2 1/4  | 100              | 1000          |
| FSHCS01020 | 10-24 X 2 1/2  | 100              | 1000          |
| FSHCS01028 | 10-24 X 3 1/2  | 100              | 1000          |
| FSHCS01208 | 12-24 X 1      | 100              | 1500          |
| FSHCS0403  | 1/4-20 X 3/8   | 100              | 2500          |
| FSHCS0404  | 1/4-20 X 1/2   | 100              | 2500          |
| FSHCS0405  | 1/4-20 X 5/8   | 100              | 2000          |
| FSHCS0406  | 1/4-20 X 3/4   | 100              | 1500          |
| FSHCS0407  | 1/4-20 X 7/8   | 100              | 1500          |
| FSHCS0408  | 1/4-20 X 1     | 100              | 1500          |
| FSHCS0410  | 1/4-20 X 1 1/4 | 100              | 1250          |
| FSHCS0412  | 1/4-20 X 1 1/2 | 100              | 1000          |
| FSHCS0414  | 1/4-20 X 1 3/4 | 100              | 1000          |
| FSHCS0416  | 1/4-20 X 2     | 100              | 750           |
| FSHCS0418  | 1/4-20 X 2 1/4 | 100              | 750           |
| FSHCS0420  | 1/4-20 X 2 1/2 | 100              | 700           |
| FSHCS0424  | 1/4-20 X 3     | 100              | 500           |
| FSHCS0428  | 1/4-20 X 3 1/2 | 50               | 500           |
| FSHCS0436  | 1/4-20 X 4 1/2 | 50               | 350           |
| FSHCS0503  | 5/16-18 X 3/8  | 100              | 1250          |
| FSHCS0504  | 5/16-18 X 1/2  | 100              | 1250          |

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FSHCS0505 | 5/16-18 X 5/8   | 100              | 1250          |
| FSHCS0506 | 5/16-18 X 3/4   | 100              | 1000          |
| FSHCS0507 | 5/16-18 X 7/8   | 100              | 1000          |
| FSHCS0508 | 5/16-18 X 1     | 100              | 1000          |
| FSHCS0510 | 5/16-18 X 1 1/4 | 100              | 750           |
| FSHCS0512 | 5/16-18 X 1 1/2 | 100              | 750           |
| FSHCS0514 | 5/16-18 X 1 3/4 | 100              | 500           |
| FSHCS0516 | 5/16-18 X 2     | 100              | 500           |
| FSHCS0518 | 5/16-18 X 2 1/4 | 100              | 500           |
| FSHCS0520 | 5/16-18 X 2 1/2 | 100              | 400           |
| FSHCS0524 | 5/16-18 X 3     | 100              | 350           |
| FSHCS0528 | 5/16-18 X 3 1/2 | 50               | 300           |
| FSHCS0604 | 3/8-16 X 1/2    | 100              | 750           |
| FSHCS0606 | 3/8-16 X 3/4    | 100              | 600           |
| FSHCS0608 | 3/8-16 X 1      | 100              | 500           |
| FSHCS0610 | 3/8-16 X 1 1/4  | 100              | 500           |
| FSHCS0612 | 3/8-16 X 1 1/2  | 100              | 400           |
| FSHCS0614 | 3/8-16 X 1 3/4  | 100              | 400           |
| FSHCS0616 | 3/8-16 X 2      | 100              | 300           |
| FSHCS0618 | 3/8-16 X 2 1/4  | 50               | 300           |
| FSHCS0620 | 3/8-16 X 2 1/2  | 50               | 250           |
| FSHCS0622 | 3/8-16 X 2 3/4  | 50               | 250           |
| FSHCS0624 | 3/8-16 X 3      | 50               | 250           |
| FSHCS0626 | 3/8-16 X 3 1/4  | 50               | 200           |
| FSHCS0628 | 3/8-16 X 3 1/2  | 50               | 175           |
| FSHCS0632 | 3/8-16 X 4      | 50               | 175           |
| FSHCS0636 | 3/8-16 X 4 1/2  | 50               | 175           |
| FSHCS0640 | 3/8-16 X 5      | 50               | 150           |
| FSHCS0644 | 3/8-16 X 5 1/2  | 50               | 150           |
| FSHCS0664 | 3/8-16 X 8      | 1                | 100           |
| FSHCS0708 | 7/16-14 X 1     | 50               | 400           |
| FSHCS0710 | 7/16-14 X 1 1/4 | 50               | 300           |
| FSHCS0712 | 7/16-14 X 1 1/2 | 50               | 300           |
| FSHCS0716 | 7/16-14 X 2     | 50               | 250           |
| FSHCS0720 | 7/16-14 X 2 1/2 | 50               | 200           |
| FSHCS0724 | 7/16-14 X 3     | 50               | 150           |
| FSHCS0806 | 1/2-13 X 3/4    | 50               | 300           |
| FSHCS0808 | 1/2-13 X 1      | 50               | 250           |
| FSHCS0810 | 1/2-13 X 1 1/4  | 50               | 250           |

# SOCKET HEAD CAP SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED \*CONTINUED FROM PREVIOUS PAGE

| Part #    | Size           | Package Quantity | Bulk Quantity | Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|-----------|----------------|------------------|---------------|
| FSHCS0812 | 1/2-13 X 1 1/2 | 50               | 250           | FSHCS1028 | 5/8-11 X 3 1/2 | 25               | 75            |
| FSHCS0814 | 1/2-13 X 1 3/4 | 50               | 225           | FSHCS1032 | 5/8-11 X 4     | 25               | 75            |
| FSHCS0816 | 1/2-13 X 2     | 50               | 200           | FSHCS1040 | 5/8-11 X 5     | 25               | 50            |
| FSHCS0818 | 1/2-13 X 2 1/4 | 50               | 200           | FSHCS1048 | 5/8-11 X 6     | 20               | 50            |
| FSHCS0820 | 1/2-13 X 2 1/2 | 50               | 175           | FSHCS1056 | 5/8-11 X 7     | 1                | 40            |
| FSHCS0822 | 1/2-13 X 2 3/4 | 50               | 150           | FSHCS1080 | 5/8-11 X 10    | 1                | 30            |
| FSHCS0824 | 1/2-13 X 3     | 50               | 150           | FSHCS1212 | 3/4-10 X 1 1/2 | 20               | 100           |
| FSHCS0828 | 1/2-13 X 3 1/2 | 25               | 125           | FSHCS1216 | 3/4-10 X 2     | 20               | 75            |
| FSHCS0832 | 1/2-13 X 4     | 25               | 125           | FSHCS1220 | 3/4-10 X 2 1/2 | 20               | 70            |
| FSHCS0836 | 1/2-13 X 4 1/2 | 25               | 100           | FSHCS1224 | 3/4-10 X 3     | 20               | 60            |
| FSHCS0840 | 1/2-13 X 5     | 25               | 100           | FSHCS1232 | 3/4-10 X 4     | 20               | 50            |
| FSHCS0844 | 1/2-13 X 5 1/2 | 25               | 75            | FSHCS1248 | 3/4-10 X 6     | 1                | 35            |
| FSHCS0848 | 1/2-13 X 6     | 25               | 75            | FSHCS1416 | 7/8-9 X 2      | 15               | 60            |
| FSHCS1010 | 5/8-11 X 1 1/4 | 25               | 175           | FSHCS1424 | 7/8-9 X 3      | 15               | 40            |
| FSHCS1012 | 5/8-11 X 1 1/2 | 25               | 150           | FSHCS1616 | 1-8 X 2        | 10               | 40            |
| FSHCS1014 | 5/8-11 X 1 3/4 | 25               | 150           | FSHCS1624 | 1-8 X 3        | 10               | 30            |
| FSHCS1016 | 5/8-11 X 2     | 25               | 125           | FSHCS1628 | 1-8 X 3 1/2    | 1                | 25            |
| FSHCS1018 | 5/8-11 X 2 1/4 | 25               | 100           | FSHCS1632 | 1-8 X 4        | 1                | 25            |
| FSHCS1020 | 5/8-11 X 2 1/2 | 25               | 100           | FSHCS1656 | 1-8 X 7        | 1                | 15            |
| FSHCS1022 | 5/8-11 X 2 3/4 | 25               | 100           | FSHCS1688 | 1-8 X 11       | 1                | 10            |
| FSHCS1024 | 5/8-11 X 3     | 25               | 75            | FSHCS2064 | 1 1/4-7 X 8    | 1                | 15            |

Don't see the size you're looking for? Call us for availability!

## FINE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #      | Size           | Package Quantity | Bulk Quantity | Part #     | Size            | Package Quantity | Bulk Quantity |
|-------------|----------------|------------------|---------------|------------|-----------------|------------------|---------------|
| FSHCSF01004 | 10-32 X 1/2    | 100              | 2500          | FSHCSF0506 | 5/16-24 X 3/4   | 100              | 1000          |
| FSHCSF01005 | 10-32 X 5/8    | 100              | 2500          | FSHCSF0508 | 5/16-24 X 1     | 100              | 1000          |
| FSHCSF01006 | 10-32 X 3/4    | 100              | 2500          | FSHCSF0510 | 5/16-24 X 1 1/4 | 100              | 750           |
| FSHCSF01008 | 10-32 X 1      | 100              | 2500          | FSHCSF0512 | 5/16-24 X 1 1/2 | 100              | 750           |
| FSHCSF01010 | 10-32 X 1 1/4  | 100              | 2000          | FSHCSF0516 | 5/16-24 X 2     | 100              | 500           |
| FSHCSF01012 | 10-32 X 1 1/2  | 100              | 2000          | FSHCSF0528 | 5/16-24 X 3 1/2 | 50               | 175           |
| FSHCSF01016 | 10-32 X 2      | 100              | 1500          | FSHCSF0606 | 3/8-24 X 3/4    | 100              | 600           |
| FSHCSF01020 | 10-32 X 2 1/2  | 100              | 1000          | FSHCSF0608 | 3/8-24 X 1      | 100              | 500           |
| FSHCSF0404  | 1/4-28 X 1/2   | 100              | 2500          | FSHCSF0610 | 3/8-24 X 1 1/4  | 100              | 500           |
| FSHCSF0405  | 1/4-28 X 5/8   | 100              | 2000          | FSHCSF0612 | 3/8-24 X 1 1/2  | 100              | 400           |
| FSHCSF0406  | 1/4-28 X 3/4   | 100              | 1500          | FSHCSF0616 | 3/8-24 X 2      | 100              | 300           |
| FSHCSF0408  | 1/4-28 X 1     | 100              | 1500          | FSHCSF0620 | 3/8-24 X 2 1/2  | 50               | 250           |
| FSHCSF0410  | 1/4-28 X 1 1/4 | 100              | 1250          | FSHCSF0708 | 7/16-20 X 1     | 50               | 400           |
| FSHCSF0412  | 1/4-28 X 1 1/2 | 100              | 1000          | FSHCSF0710 | 7/16-20 X 1 1/4 | 50               | 300           |
| FSHCSF0416  | 1/4-28 X 2     | 100              | 750           | FSHCSF0712 | 7/16-20 X 1 1/2 | 50               | 300           |
| FSHCSF0420  | 1/4-28 X 2 1/2 | 100              | 700           | FSHCSF0716 | 7/16-20 X 2     | 50               | 250           |
| FSHCSF0504  | 5/16-24 X 1/2  | 100              | 1250          | FSHCSF0720 | 7/16-20 X 2 1/2 | 50               | 200           |

# SOCKET HEAD CAP SCREWS

## FINE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED \*CONTINUED FROM PREVIOUS PAGE

| Part #     | Size           | Package Quantity | Bulk Quantity |
|------------|----------------|------------------|---------------|
| FSHCSF0724 | 7/16-20 X 3    | 50               | 150           |
| FSHCSF0808 | 1/2-20 X 1     | 50               | 250           |
| FSHCSF0810 | 1/2-20 X 1 1/4 | 50               | 250           |
| FSHCSF0812 | 1/2-20 X 1 1/2 | 50               | 250           |
| FSHCSF0816 | 1/2-20 X 2     | 50               | 200           |
| FSHCSF0820 | 1/2-20 X 2 1/2 | 50               | 175           |
| FSHCSF0824 | 1/2-20 X 3     | 50               | 150           |
| FSHCSF0832 | 1/2-20 X 4     | 25               | 125           |
| FSHCSF1012 | 5/8-18 X 1 1/2 | 25               | 150           |

| Part #     | Size           | Package Quantity | Bulk Quantity |
|------------|----------------|------------------|---------------|
| FSHCSF1014 | 5/8-18 X 1 3/4 | 25               | 150           |
| FSHCSF1032 | 5/8-18 X 4     | 25               | 75            |
| FSHCSF1224 | 3/4-16 X 3     | 20               | 60            |
| FSHCSF1420 | 7/8-14 X 2 1/2 | 15               | 50            |
| FSHCSF1436 | 7/8-14 X 4 1/2 | 1                | 30            |
| FSHCSF1624 | 1-14 X 3       | 10               | 30            |
| FSHCSF1628 | 1-14 X 3 1/2   | 1                | 25            |
| FSHCSF1824 | 1 1/8-12 X 3   | 1                | 25            |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #       | Size           | Package Quantity |
|--------------|----------------|------------------|
| FSSSHCS00606 | 6-32 X 3/4     | 100              |
| FSSSHCS00608 | 6-32 X 1       | 100              |
| FSSSHCS00810 | 8-32 X 1 1/4   | 100              |
| FSSSHCS00816 | 8-32 X 2       | 100              |
| FSSSHCS01004 | 10-24 X 1/2    | 100              |
| FSSSHCS01006 | 10-24 X 3/4    | 100              |
| FSSSHCS01008 | 10-24 X 1      | 100              |
| FSSSHCS01010 | 10-24 X 1 1/4  | 100              |
| FSSSHCS01012 | 10-24 X 1 1/2  | 100              |
| FSSSHCS0404  | 1/4-20 X 1/2   | 100              |
| FSSSHCS0406  | 1/4-20 X 3/4   | 100              |
| FSSSHCS0407  | 1/4-20 X 7/8   | 100              |
| FSSSHCS0408  | 1/4-20 X 1     | 100              |
| FSSSHCS0410  | 1/4-20 X 1 1/4 | 100              |
| FSSSHCS0412  | 1/4-20 X 1 1/2 | 100              |
| FSSSHCS0506  | 5/16-18 X 3/4  | 100              |
| FSSSHCS0507  | 5/16-18 X 7/8  | 100              |
| FSSSHCS0508  | 5/16-18 X 1    | 100              |

| Part #      | Size            | Package Quantity |
|-------------|-----------------|------------------|
| FSSSHCS0510 | 5/16-18 X 1 1/4 | 100              |
| FSSSHCS0512 | 5/16-18 X 1 1/2 | 100              |
| FSSSHCS0516 | 5/16-18 X 2     | 100              |
| FSSSHCS0606 | 3/8-16 X 3/4    | 100              |
| FSSSHCS0607 | 3/8-16 X 7/8    | 100              |
| FSSSHCS0608 | 3/8-16 X 1      | 100              |
| FSSSHCS0610 | 3/8-16 X 1 1/4  | 100              |
| FSSSHCS0612 | 3/8-16 X 1 1/2  | 50               |
| FSSSHCS0616 | 3/8-16 X 2      | 50               |
| FSSSHCS0620 | 3/8-16 X 2 1/2  | 50               |
| FSSSHCS0624 | 3/8-16 X 3      | 50               |
| FSSSHCS0640 | 3/8-16 X 5      | 25               |
| FSSSHCS0810 | 1/2-13 X 1 1/4  | 25               |
| FSSSHCS0812 | 1/2-13 X 1 1/2  | 25               |
| FSSSHCS0816 | 1/2-13 X 2      | 25               |
| FSSSHCS0820 | 1/2-13 X 2 1/2  | 25               |
| FSSSHCS0824 | 1/2-13 X 3      | 25               |

## LOW HEAD • COARSE THREAD • PLAIN FINISH • IMPORTED



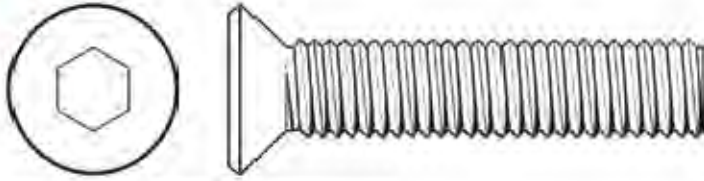
Low Head Socket Head Cap Screws are designed for use where there is limited clearance for the head.

| Part #     | Size           | Head Height | Package Quantity | Bulk Quantity |
|------------|----------------|-------------|------------------|---------------|
| FSHCSL0406 | 1/4-20 X 3/4   | 1/8         | 100              | 1500          |
| FSHCSL0606 | 3/8-16 X 3/4   | 3/16        | 100              | 600           |
| FSHCSL0612 | 3/8-16 X 1 1/2 | 3/16        | 100              | 400           |

Don't see the size you're looking for? Call us for availability!

# SOCKET FLAT HEAD CAP SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



Socket Flat Head Cap Screws have an 82° head and are designed for use when a FLush mount high strength screw is needed.

| Part #     | Size            | Package Quantity | Bulk Quantity |
|------------|-----------------|------------------|---------------|
| FSFCS00602 | 6-32 X 1/4      | 100              | 2500          |
| FSFCS00603 | 6-32 X 3/8      | 100              | 2500          |
| FSFCS00604 | 6-32 X 1/2      | 100              | 2500          |
| FSFCS00803 | 8-32 X 3/8      | 100              | 2500          |
| FSFCS00804 | 8-32 X 1/2      | 100              | 2500          |
| FSFCS00806 | 8-32 X 3/4      | 100              | 2500          |
| FSFCS00808 | 8-32 X 1        | 100              | 2500          |
| FSFCS01004 | 10-24 X 1/2     | 100              | 2500          |
| FSFCS01005 | 10-24 X 5/8     | 100              | 2500          |
| FSFCS01006 | 10-24 X 3/4     | 100              | 2500          |
| FSFCS01008 | 10-24 X 1       | 100              | 2500          |
| FSFCS01010 | 10-24 X 1 1/4   | 100              | 2500          |
| FSFCS01012 | 10-24 X 1 1/2   | 100              | 2500          |
| FSFCS01024 | #10-24 X 3      | 100              | 2500          |
| FSFCS01206 | 12-24 X 3/4     | 100              | 2500          |
| FSFCS01208 | 12-24 X 1       | 100              | 2500          |
| FSFCS0403  | 1/4-20 X 3/8    | 100              | 2500          |
| FSFCS0404  | 1/4-20 X 1/2    | 100              | 2500          |
| FSFCS0405  | 1/4-20 X 5/8    | 100              | 2500          |
| FSFCS0406  | 1/4-20 X 3/4    | 100              | 2500          |
| FSFCSZ0406 | 1/4-20 X 3/4†   | 100              | 2500          |
| FSFCS0407  | 1/4-20 X 7/8    | 100              | 2000          |
| FSFCS0408  | 1/4-20 X 1      | 100              | 2000          |
| FSFCS0410  | 1/4-20 X 1 1/4  | 100              | 1500          |
| FSFCS0412  | 1/4-20 X 1 1/2  | 100              | 1500          |
| FSFCS0414  | 1/4-20 X 1 3/4  | 100              | 1000          |
| FSFCS0416  | 1/4-20 X 2      | 100              | 1000          |
| FSFCS0420  | 1/4-20 X 2 1/2  | 100              | 1000          |
| FSFCS0424  | 1/4-20 X 3      | 100              | 700           |
| FSFCS0504  | 5/16-18 X 1/2   | 100              | 1500          |
| FSFCS0505  | 5/16-18 X 5/8   | 100              | 1500          |
| FSFCS0506  | 5/16-18 X 3/4   | 100              | 1500          |
| FSFCS0508  | 5/16-18 X 1     | 100              | 1000          |
| FSFCS0510  | 5/16-18 X 1 1/4 | 100              | 1000          |
| FSFCS0512  | 5/16-18 X 1 1/2 | 100              | 800           |
| FSFCS0514  | 5/16-18 X 1 3/4 | 100              | 700           |
| FSFCS0516  | 5/16-18 X 2     | 100              | 500           |

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FSFCS0520 | 5/16-18 X 2 1/2 | 100              | 500           |
| FSFCS0522 | 5/16-18 X 2 3/4 | 100              | 400           |
| FSFCS0524 | 5/16-18 X 3     | 100              | 400           |
| FSFCS0532 | 5/16-18 X 4     | 50               | 300           |
| FSFCS0605 | 3/8-16 X 5/8    | 100              | 1000          |
| FSFCS0606 | 3/8-16 X 3/4    | 100              | 800           |
| FSFCS0608 | 3/8-16 X 1      | 100              | 700           |
| FSFCS0610 | 3/8-16 X 1 1/4  | 100              | 500           |
| FSFCS0612 | 3/8-16 X 1 1/2  | 100              | 500           |
| FSFCS0614 | 3/8-16 X 1 3/4  | 100              | 400           |
| FSFCS0616 | 3/8-16 X 2      | 100              | 400           |
| FSFCS0620 | 3/8-16 X 2 1/2  | 50               | 300           |
| FSFCS0624 | 3/8-16 X 3      | 50               | 250           |
| FSFCS0628 | 3/8-16 X 3 1/2  | 50               | 250           |
| FSFCS0632 | 3/8-16 X 4      | 50               | 250           |
| FSFCS0636 | 3/8-16 X 4 1/2  | 50               | 200           |
| FSFCS0708 | 7/16-14 X 1     | 50               | 500           |
| FSFCS0712 | 7/16-14 X 1 1/2 | 50               | 400           |
| FSFCS0716 | 7/16-14 X 2     | 50               | 300           |
| FSFCS0716 | 7/16-14 X 2     | 50               | 300           |
| FSFCS0720 | 7/16-14 X 2 1/2 | 50               | 250           |
| FSFCS0724 | 7/16-14 X 3     | 50               | 200           |
| FSFCS0728 | 7/16-14 X 3 1/2 | 25               | 150           |
| FSFCS0806 | 1/2-13 X 3/4    | 50               | 500           |
| FSFCS0808 | 1/2-13 X 1      | 50               | 400           |
| FSFCS0810 | 1/2-13 X 1 1/4  | 50               | 300           |
| FSFCS0812 | 1/2-13 X 1 1/2  | 50               | 300           |
| FSFCS0814 | 1/2-13 X 1 3/4  | 50               | 250           |
| FSFCS0816 | 1/2-13 X 2      | 50               | 250           |
| FSFCS0820 | 1/2-13 X 2 1/2  | 50               | 200           |
| FSFCS0824 | 1/2-13 X 3      | 50               | 150           |
| FSFCS0826 | 1/2-13 X 3 1/4  | 25               | 100           |
| FSFCS0828 | 1/2-13 X 3 1/2  | 25               | 100           |
| FSFCS0832 | 1/2-13 X 4      | 25               | 75            |
| FSFCS0836 | 1/2-13 X 4 1/2  | 25               | 75            |
| FSFCS1008 | 5/8-11 X 1      | 25               | 200           |
| FSFCS1012 | 5/8-11 X 1 1/2  | 25               | 150           |

\*Lead time on these sizes is 3-5 days

† Zinc Plated and Baked

# SOCKET FLAT HEAD CAP SCREWS

## SOCKET FLAT HEAD CAP SCREWS \*continued from previous page

### COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FSFCS1014 | 5/8-11 X 1 3/4 | 25               | 150           |
| FSFCS1016 | 5/8-11 X 2     | 25               | 150           |
| FSFCS1018 | 5/8-11 X 2 1/4 | 25               | 100           |
| FSFCS1020 | 5/8-11 X 2 1/2 | 25               | 100           |
| FSFCS1024 | 5/8-11 X 3     | 25               | 100           |
| FSFCS1028 | 5/8-11 X 3 1/2 | 25               | 75            |
| FSFCS1032 | 5/8-11 X 4     | 25               | 75            |
| FSFCS1036 | 5/8-11 X 4 1/2 | 25               | 50            |
| FSFCS1064 | 5/8-11 X 8     | -                | 30            |
| FSFCS1208 | 3/4-10 X 1     | 20               | 150           |

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FSFCS1210 | 3/4-10 X 1 1/4 | 20               | 100           |
| FSFCS1212 | 3/4-10 X 1 1/2 | 20               | 100           |
| FSFCS1216 | 3/4-10 X 2     | 20               | 75            |
| FSFCS1218 | 3/4-10 X 2 1/4 | 20               | 75            |
| FSFCS1220 | 3/4-10 X 2 1/2 | 20               | 75            |
| FSFCS1224 | 3/4-10 X 3     | 20               | 75            |
| FSFCS1232 | 3/4-10 X 4     | 20               | 50            |
| FSFCS1616 | 1-8 X 2        | 10               | 40            |
| FSFCS1644 | 1-8 X 5-1/2    | -                | 25            |
| FSFCS2040 | 1-1/4-7 X 5    | -                | 10            |

\*Lead time on these sizes is 3-5 days

† Zinc Plated and Baked

### FINE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED

| Part #      | Size          | Package Quantity | Bulk Quantity |
|-------------|---------------|------------------|---------------|
| FSFCSF01004 | 10-32 X 1/2   | 100              | 2500          |
| FSFCSF01005 | 10-32 X 5/8   | 100              | 2500          |
| FSFCSF01006 | 10-32 X 3/4   | 100              | 2500          |
| FSFCSF01008 | 10-32 X 1     | 100              | 2500          |
| FSFCSF01010 | 10-32 X 1 1/4 | 100              | 2500          |
| FSFCSF0404  | 1/4-28 X 1/2  | 100              | 2500          |
| FSFCSF0405  | 1/4-28 X 5/8  | 100              | 2500          |
| FSFCSF0406  | 1/4-28 X 3/4  | 100              | 2500          |
| FSFCSF0506  | 5/16-24 X 3/4 | 100              | 1500          |
| FSFCSF0508  | 5/16-24 X 1   | 100              | 1000          |

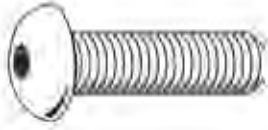
| Part #     | Size            | Package Quantity | Bulk Quantity |
|------------|-----------------|------------------|---------------|
| FSFCSF0510 | 5/16-24 X 1 1/4 | 100              | 1000          |
| FSFCSF0606 | 3/8-24 X 3/4    | 100              | 800           |
| FSFCSF0608 | 3/8-24 X 1      | 100              | 700           |
| FSFCSF0612 | 3/8-24 X 1 1/2  | 100              | 500           |
| FSFCSF0616 | 3/8-24 X 2      | 100              | 400           |
| FSFCSF0812 | 1/2-20 X 1 1/2  | 50               | 300           |
| FSFCSF0816 | 1/2-20 X 2      | 50               | 250           |
| FSFCSF0820 | 1/2-20 X 2 1/2  | 50               | 200           |
| FSFCSF1016 | 5/8-18 X 2      | 25               | 150           |

### 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #      | Size         | Package Quantity |
|-------------|--------------|------------------|
| FSSSFCS1006 | 10-24 X 3/4  | 100              |
| FSSSFCS1008 | 10-24 X 1    | 100              |
| FSSSFCS404  | 1/4 X 1/2    | 100              |
| FSSSFCS408  | 1/4 X 1      | 100              |
| FSSSFCS506  | 5/16 X 3/4   | 100              |
| FSSSFCS508  | 5/16 X 1     | 100              |
| FSSSFCS510  | 5/16 X 1 1/4 | 100              |
| FSSSFCS606  | 3/8 X 3/4    | 100              |
| FSSSFCS608  | 3/8 X 1      | 100              |
| FSSSFCS610  | 3/8 X 1 1/4  | 100              |

# SOCKET BUTTON HEAD CAP SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



Socket Button Head Cap Screws are designed for use when a wider bearing surface is needed or to provide a more finished appearance.

| Part #     | Size            | Package Quantity | Bulk Quantity |
|------------|-----------------|------------------|---------------|
| FSBCS01004 | 10-24 X 1/2     | 100              | 2500          |
| FSBCS01005 | 10-24 X 5/8     | 100              | 2500          |
| FSBCS01006 | 10-24 X 3/4     | 100              | 2500          |
| FSBCS01014 | 10-24 X 1 3/4   | 100              | 2000          |
| FSBCS0403  | 1/4-20 X 3/8    | 100              | 3000          |
| FSBCS0404  | 1/4-20 X 1/2    | 100              | 2500          |
| FSBCS0405  | 1/4-20 X 5/8    | 100              | 2500          |
| FSBCS0406  | 1/4-20 X 3/4    | 100              | 2500          |
| FSBCS0408  | 1/4-20 X 1      | 100              | 2000          |
| FSBCS0414  | 1/4-20 X 1 3/4  | 100              | 1500          |
| FSBCS0505  | 5/16-18 X 5/8   | 100              | 1500          |
| FSBCS0506  | 5/16-18 X 3/4   | 100              | 1500          |
| FSBCS0508  | 5/16-18 X 1     | 100              | 1000          |
| FSBCS0512  | 5/16-18 X 1 1/2 | 100              | 800           |
| FSBCS0514  | 5/16-18 X 1 3/4 | 100              | 800           |
| FSBCS0516  | 5/16-18 X 2     | 100              | 700           |

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FSBCS0606 | 3/8-16 X 3/4   | 100              | 1000          |
| FSBCS0608 | 3/8-16 X 1     | 100              | 800           |
| FSBCS0610 | 3/8-16 X 1 1/4 | 100              | 700           |
| FSBCS0612 | 3/8-16 X 1 1/2 | 100              | 500           |
| FSBCS0614 | 3/8-16 X 1 3/4 | 100              | 500           |
| FSBCS0618 | 3/8-16 X 2 1/4 | 50               | 400           |
| FSBCS0626 | 3/8-16 X 3 1/4 | 50               | 250           |
| FSBCS0808 | 1/2-13 X 1     | 50               | 400           |
| FSBCS0810 | 1/2-13 X 1 1/4 | 50               | 300           |
| FSBCS0812 | 1/2-13 X 1 1/2 | 50               | 300           |
| FSBCS0816 | 1/2-13 X 2     | 50               | 200           |
| FSBCS0820 | 1/2-13 X 2 1/2 | 50               | 200           |
| FSBCS1010 | 5/8-11 X 1 1/4 | 25               | 200           |
| FSBCS1012 | 5/8-11 X 1 1/2 | 25               | 150           |
| FSBCS1016 | 5/8-11 X 2     | 25               | 150           |
| FSBCS1024 | 5/8-11 X 3     | 25               | 100           |

Don't see the size you're looking for? Call us for availability!

## FINE THREAD • PLAIN FINISH • IMPORTED

| Part #      | Size          | Package Quantity | Bulk Quantity |
|-------------|---------------|------------------|---------------|
| FSBCSF01003 | 10-32 X 3/8   | 100              | 2500          |
| FSBCSF01004 | 10-32 X 1/2   | 100              | 2500          |
| FSBCSF01006 | 10-32 X 3/4   | 100              | 2500          |
| FSBCSF0404  | 1/4-28 X 1/2  | 100              | 2500          |
| FSBCSF0406  | 1/4-28 X 3/4  | 100              | 2500          |
| FSBCSF0408  | 1/4-28 X 1    | 100              | 2000          |
| FSBCSF0504  | 5/16-24 X 1/2 | 100              | 2000          |
| FSBCSF0505  | 5/16-24 X 5/8 | 100              | 1500          |
| FSBCSF0506  | 5/16-24 X 3/4 | 100              | 1500          |
| FSBCSF0507  | 5/16-24 X 7/8 | 100              | 1500          |

| Part #     | Size            | Package Quantity | Bulk Quantity |
|------------|-----------------|------------------|---------------|
| FSBCSF0508 | 5/16-24 X 1     | 100              | 1000          |
| FSBCSF0512 | 5/16-24 X 1 1/2 | 100              | 800           |
| FSBCSF0605 | 3/8-24 X 5/8    | 100              | 1300          |
| FSBCSF0606 | 3/8-24 X 3/4    | 100              | 1000          |
| FSBCSF0608 | 3/8-24 X 1      | 100              | 800           |
| FSBCSF0610 | 3/8-24 X 1 1/4  | 100              | 700           |
| FSBCSF0612 | 3/8-24 X 1 1/2  | 100              | 500           |
| FSBCSF0808 | 1/2-20 X 1      | 100              | 400           |
| FSBCSF0812 | 1/2-20 X 1 1/2  | 100              | 300           |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

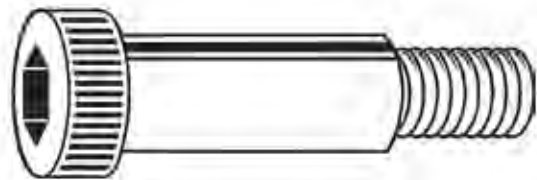
| Part #       | Size          | Package Quantity |
|--------------|---------------|------------------|
| FSSSBCS00804 | 8-32 X 1/2    | 100              |
| FSSSBCS00807 | 8-32 X 7/8    | 100              |
| FSSSBCS00808 | 8-32 X 1      | 100              |
| FSSSBCS01008 | 10-24 X 1     | 100              |
| FSSSBCS01012 | 10-24 X 1 1/2 | 100              |
| FSSSBCS0404  | 1/4-20 X 1/2  | 100              |

| Part #      | Size         | Package Quantity |
|-------------|--------------|------------------|
| FSSSBCS0406 | 1/4-20 X 3/4 | 100              |
| FSSSBCS0408 | 1/4-20 X 1   | 100              |
| FSSSBCS0508 | 5/16-18 X 1  | 100              |
| FSSSBCS0516 | 5/16-18 X 2  | 100              |
| FSSSBCS0624 | 3/8 X 3      | 50               |
| FSSSBCS0628 | 3/8 X 3 1/2  | 50               |



# SOCKET SHOULDER SCREWS

## COARSE THREAD • PLAIN FINISH • MADE IN USA OR IMPORTED



Socket Shoulder Screws are designed for use in rotating or sliding applications. For example a bearing can be securely held in place on the shoulder and yet can rotate freely.

| Part #     | Size                  | Package Quantity | Bulk Quantity |
|------------|-----------------------|------------------|---------------|
| FSHCSS0402 | 1/4 (#10-24) X 1/4    | 25               | 500           |
| FSHCSS0404 | 1/4 (#10-24) X 1/2    | 25               | 500           |
| FSHCSS0406 | 1/4 (#10-24) X 3/4    | 25               | 500           |
| FSHCSS0407 | 1/4 (#10-24) X 7/8    | 25               | 500           |
| FSHCSS0408 | 1/4 (#10-24) X 1      | 25               | 500           |
| FSHCSS0412 | 1/4 (#10-24) X 1 1/2  | 25               | 300           |
| FSHCSS0416 | 1/4 (#10-24) X 2      | 25               | 300           |
| FSHCSS0432 | 1/4 (#10-24) X 4      | 25               | 200           |
| FSHCSS0503 | 5/16 (1/4-20) X 3/8   | 25               | 500           |
| FSHCSS0504 | 5/16 (1/4-20) X 1/2   | 25               | 500           |
| FSHCSS0506 | 5/16 (1/4-20) X 3/4   | 25               | 500           |
| FSHCSS0508 | 5/16 (1/4-20) X 1     | 25               | 500           |
| FSHCSS0603 | 3/8 (5/16-18) X 3/8   | 25               | 500           |
| FSHCSS0604 | 3/8 (5/16-18) X 1/2   | 25               | 500           |
| FSHCSS0605 | 3/8 (5/16-18) X 5/8   | 25               | 500           |
| FSHCSS0606 | 3/8 (5/16-18) X 3/4   | 25               | 500           |
| FSHCSS0607 | 3/8 (5/16-18) X 7/8   | 25               | 500           |
| FSHCSS0608 | 3/8 (5/16-18) X 1     | 25               | 500           |
| FSHCSS0610 | 3/8 (5/16-18) X 1 1/4 | 25               | 300           |
| FSHCSS0612 | 3/8 (5/16-18) X 1 1/2 | 25               | 300           |
| FSHCSS0614 | 3/8 (5/16-18) X 1 3/4 | 25               | 250           |
| FSHCSS0616 | 3/8 (5/16-18) X 2     | 25               | 250           |
| FSHCSS0618 | 3/8 (5/16-18) X 2 1/4 | 25               | 250           |
| FSHCSS0620 | 3/8 (5/16-18) X 2 1/2 | 25               | 250           |
| FSHCSS0622 | 3/8 (5/16-18) X 2-3/4 | 25               | 200           |
| FSHCSS0628 | 3/8 (5/16-18) X 3 1/2 | 25               | 200           |
| FSHCSS0636 | 3/8 (5/16-18) X 4 1/2 | 25               | 150           |
| FSHCSS0803 | 1/2 (3/8-16) X 3/8    | 25               | 300           |
| FSHCSS0804 | 1/2 (3/8-16) X 1/2    | 25               | 300           |
| FSHCSS0805 | 1/2 (3/8-16) X 5/8    | 25               | 300           |
| FSHCSS0806 | 1/2 (3/8-16) X 3/4    | 25               | 300           |

| Part #     | Size                  | Package Quantity | Bulk Quantity |
|------------|-----------------------|------------------|---------------|
| FSHCSS0807 | 1/2 (3/8-16) X 7/8    | 25               | 300           |
| FSHCSS0808 | 1/2 (3/8-16) X 1      | 25               | 300           |
| FSHCSS0810 | 1/2 (3/8-16) X 1 1/4  | 25               | 200           |
| FSHCSS0812 | 1/2 (3/8-16) X 1 1/2  | 25               | 200           |
| FSHCSS0816 | 1/2 (3/8-16) X 2      | 25               | 200           |
| FSHCSS0820 | 1/2 (3/8-16) X 2 1/2  | 25               | 150           |
| FSHCSS0822 | 1/2 (3/8-16) X 2 3/4  | 25               | 150           |
| FSHCSS0824 | 1/2 (3/8-16) X 3      | 25               | 150           |
| FSHCSS0828 | 1/2 (3/8-16) X 3 1/2  | 10               | 100           |
| FSHCSS1004 | 5/8 (1/2-13) X 1/2    | 10               | 200           |
| FSHCSS1006 | 5/8 (1/2-13) X 3/4    | 10               | 200           |
| FSHCSS1008 | 5/8 (1/2-13) X 1      | 10               | 200           |
| FSHCSS1010 | 5/8 (1/2-13) X 1 1/4  | 10               | 150           |
| FSHCSS1012 | 5/8 (1/2-13) X 1 1/2  | 10               | 150           |
| FSHCSS1014 | 5/8 (1/2-13) X 1 3/4  | 10               | 150           |
| FSHCSS1016 | 5/8 (1/2-13) X 2      | 10               | 150           |
| FSHCSS1020 | 5/8 (1/2-13) X 2 1/2  | 10               | 125           |
| FSHCSS1206 | 3/4 (5/8-11) X 3/4    | 10               | 100           |
| FSHCSS1212 | 3/4 (5/8-11) X 1 1/2  | 10               | 100           |
| FSHCSS1214 | 3/4 (5/8-11) X 1 3/4  | 10               | 100           |
| FSHCSS1216 | 3/4 (5/8-11) X 2      | 10               | 100           |
| FSHCSS1220 | 3/4 (5/8-11) X 2 1/2  | 10               | 100           |
| FSHCSS1222 | 3/4 (5/8-11) X 2 3/4  | 10               | 100           |
| FSHCSS1224 | 3/4 (5/8-11) X 3      | 10               | 100           |
| FSHCSS1232 | 3/4 (5/8-11) X 4      | 10               | 75            |
| FSHCSS1234 | 3/4 (5/8-11) X 4 1/4  | 10               | 75            |
| FSHCSS1236 | 3/4 (5/8-11) X 4 1/2  | 10               | 75            |
| FSHCSS1618 | 1" (3/4-10) X 2 1/4   | 10               | 40            |
| FSHCSS2018 | 1-1/4 (7/8-9) X 2 1/4 | 10               | 20            |
| FSHCSS2020 | 1-1/4 (7/8-9) X 2 1/2 | 10               | 20            |
| FSHCSS2024 | 1-1/4 (7/8-9) X 3     | 10               | 20            |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #       | Size       | Package Quantity |
|--------------|------------|------------------|
| FSSSHCSS0504 | 5/16 X 1/4 | 25               |
| FSSSHCSS0512 | 5/16 X 3/4 | 25               |

# SOCKET SET SCREWS

## TECHNICAL INFORMATION

### Dimensions

| Set Screw Size | Allen Wrench Size | Point Diameter Cup Point | Cone Point Angle* |
|----------------|-------------------|--------------------------|-------------------|
| #6             | 1/16              | 0.069                    | 3/16              |
| #8             | 5/64              | 0.081                    | 1/4               |
| #10            | 3/32              | 0.095                    | 1/4               |
| 1/4            | 1/8               | 0.125                    | 5/16              |
| 5/16           | 5/32              | 0.164                    | 3/8               |
| 3/8            | 3/16              | 0.203                    | 7/16              |
| 7/16           | 7/32              | 0.242                    | 1/2               |
| 1/2            | 1/4               | 0.280                    | 9/16              |
| 5/8            | 5/16              | 0.359                    | 3/4               |
| 3/4            | 3/8               | 0.437                    | 7/8               |
| 7/8            | 1/2               | 0.516                    | 1                 |
| 1              | 9/16              | 0.584                    | 1 1/8             |

\*These lengths and longer have a 90° angle. Shorter lengths have a 118° angle.

### CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED



Cup Point Socket Set Screws are the most commonly used set screws. They are used where cutting in on the shaft is acceptable.

| Part #     | Size          | Package Quantity | Bulk Quantity |
|------------|---------------|------------------|---------------|
| FSSS000604 | 6-32 X 1/4    | 100              | 5000          |
| FSSS000803 | 8-32 X 3/16   | 100              | 5000          |
| FSSS000804 | 8-32 X 1/4    | 100              | 5000          |
| FSSS000805 | 8-32 X 5/16   | 100              | 5000          |
| FSSS000806 | 8-32 X 3/8    | 100              | 5000          |
| FSSS000808 | 8-32 X 1/2    | 100              | 5000          |
| FSSS000812 | 8-32 X 3/4    | 100              | 5000          |
| FSSS001003 | 10-24 X 3/16  | 100              | 5000          |
| FSSS001004 | 10-24 X 1/4   | 100              | 5000          |
| FSSS001005 | 10-24 X 5/16  | 100              | 5000          |
| FSSS001006 | 10-24 X 3/8   | 100              | 5000          |
| FSSS001008 | 10-24 X 1/2   | 100              | 5000          |
| FSSS001020 | 10-24 X 1 1/4 | 100              | 5000          |
| FSSS00404  | 1/4-20 X 1/4  | 100              | 5000          |
| FSSS00405  | 1/4-20 X 5/16 | 100              | 5000          |
| FSSS00406  | 1/4-20 X 3/8  | 100              | 5000          |
| FSSS00407  | 1/4-20 X 7/16 | 100              | 5000          |
| FSSS00408  | 1/4-20 X 1/2  | 100              | 5000          |
| FSSS00412  | 1/4-20 X 3/4  | 100              | 5000          |

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FSSS00414 | 1/4-20 X 7/8    | 100              | 5000          |
| FSSS00424 | 1/4-20 X 1 1/2  | 100              | 3000          |
| FSSS00504 | 5/16-18 X 1/4   | 100              | 5000          |
| FSSS00505 | 5/16-18 X 5/16  | 100              | 5000          |
| FSSS00506 | 5/16-18 X 3/8   | 100              | 5000          |
| FSSS00507 | 5/16-18 X 7/16  | 100              | 5000          |
| FSSS00508 | 5/16-18 X 1/2   | 100              | 5000          |
| FSSS00512 | 5/16-18 X 3/4   | 100              | 4000          |
| FSSS00514 | 5/16-18 X 7/8   | 100              | 3000          |
| FSSS00516 | 5/16-18 X 1     | 100              | 3000          |
| FSSS00520 | 5/16-18 X 1 1/4 | 100              | 2000          |
| FSSS00604 | 3/8-16 X 1/4    | 100              | 5000          |
| FSSS00605 | 3/8-16 X 5/16   | 100              | 5000          |
| FSSS00606 | 3/8-16 X 3/8    | 100              | 5000          |
| FSSS00607 | 3/8-16 X 7/16   | 100              | 5000          |
| FSSS00608 | 3/8-16 X 1/2    | 100              | 5000          |
| FSSS00610 | 3/8-16 X 5/8    | 100              | 3000          |
| FSSS00612 | 3/8-16 X 3/4    | 100              | 3000          |
| FSSS00616 | 3/8-16 X 1      | 100              | 2000          |

# SOCKET SET SCREWS \*CONTINUED FROM THE PREVIOUS PAGE

## CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED \*CONTINUED FROM PREVIOUS PAGE

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FSSSO0624 | 3/8-16 X 1 1/2  | 100              | 1000          |
| FSSSO0706 | 7/16-14 X 3/8   | 100              | 5000          |
| FSSSO0707 | 7/16-14 X 7/16  | 100              | 5000          |
| FSSSO0708 | 7/16-14 X 1/2   | 100              | 3000          |
| FSSSO0710 | 7/16-14 X 5/8   | 100              | 3000          |
| FSSSO0712 | 7/16-14 X 3/4   | 100              | 2000          |
| FSSSO0724 | 7/16-14 X 1 1/2 | 50               | 1000          |
| FSSSO0806 | 1/2 -13 X 3/8   | 100              | 4000          |
| FSSSO0808 | 1/2-13 X 1/2    | 100              | 2500          |
| FSSSO0810 | 1/2-13 X 5/8    | 100              | 2500          |
| FSSSO0812 | 1/2-13 X 3/4    | 100              | 1500          |
| FSSSO0816 | 1/2-13 X 1      | 50               | 1000          |
| FSSSO0820 | 1/2-13 X 1 1/4  | 50               | 1000          |
| FSSSO0824 | 1/2-13 X 1 1/2  | 50               | 700           |
| FSSSO0828 | 1/2-13 X 1 3/4  | 25               | 700           |

| Part #    | Size           | Package Quantity | Bulk Quantity |
|-----------|----------------|------------------|---------------|
| FSSSO0832 | 1/2-13 X 2     | 25               | 500           |
| FSSSO0840 | 1/2-13 X 2 1/2 | 25               | 500           |
| FSSSO0848 | 1/2-13 X 3     | 25               | 400           |
| FSSSO1008 | 5/8-11 X 1/2   | 50               | 1500          |
| FSSSO1012 | 5/8-11 X 3/4   | 50               | 1000          |
| FSSSO1016 | 5/8-11 X 1     | 50               | 700           |
| FSSSO1020 | 5/8-11 X 1 1/4 | 25               | 600           |
| FSSSO1024 | 5/8-11 X 1 1/2 | 25               | 500           |
| FSSSO1220 | 3/4-10 X 1 1/4 | 25               | 500           |
| FSSSO1232 | 3/4-10 X 2     | 10               | 200           |
| FSSSO1248 | 3/4-10 X 3     | 10               | 150           |
| FSSSO1440 | 7/8-9 X 2 1/2  | 10               | 150           |
| FSSSO1456 | 7/8-9 X 3 1/2  | 10               | 75            |
| FSSSO1616 | 1-8 X 1        | 10               | 300           |

## CUP POINT • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #      | Size           | Package Quantity | Bulk Quantity |
|-------------|----------------|------------------|---------------|
| FSSSOF01003 | 10-32 X 3/16   | 100              | 5000          |
| FSSSOF01004 | 10-32 X 1/4    | 100              | 5000          |
| FSSSOF01005 | 10-32 X 5/16   | 100              | 5000          |
| FSSSOF01006 | 10-32 X 3/8    | 100              | 5000          |
| FSSSOF01008 | 10-32 X 1/2    | 100              | 5000          |
| FSSSOF01012 | 10-32 X 3/4    | 100              | 5000          |
| FSSSOF0403  | 1/4-28 X 3/16  | 100              | 5000          |
| FSSSOF0404  | 1/4-28 X 1/4   | 100              | 5000          |
| FSSSOF0405  | 1/4-28 X 5/16  | 100              | 5000          |
| FSSSOF0406  | 1/4-28 X 3/8   | 100              | 5000          |
| FSSSOF0407  | 1/4-28 X 7/16  | 100              | 5000          |
| FSSSOF0408  | 1/4-28 X 1/2   | 100              | 5000          |
| FSSSOF0412  | 1/4-28 X 3/4   | 100              | 5000          |
| FSSSOF0504  | 5/16-24 X 1/4  | 100              | 5000          |
| FSSSOF0505  | 5/16-24 X 5/16 | 100              | 5000          |
| FSSSOF0506  | 5/16-24 X 3/8  | 100              | 5000          |
| FSSSOF0507  | 5/16-24 X 7/16 | 100              | 5000          |

| Part #     | Size           | Package Quantity | Bulk Quantity |
|------------|----------------|------------------|---------------|
| FSSSOF0508 | 5/16-24 X 1/2  | 100              | 5000          |
| FSSSOF0512 | 5/16-24 X 3/4  | 100              | 4000          |
| FSSSOF0605 | 3/8-24 X 5/16  | 100              | 5000          |
| FSSSOF0606 | 3/8-24 X 3/8   | 100              | 5000          |
| FSSSOF0607 | 3/8-24 X 7/16  | 100              | 5000          |
| FSSSOF0608 | 3/8-24 X 1/2   | 100              | 5000          |
| FSSSOF0612 | 3/8-24 X 3/4   | 100              | 3000          |
| FSSSOF0706 | 7/16-20 X 3/8  | 100              | 5000          |
| FSSSOF0708 | 7/16-20 X 1/2  | 100              | 3000          |
| FSSSOF0710 | 7/16-20 X 5/8  | 100              | 3000          |
| FSSSOF0712 | 7/16-20 X 3/4  | 100              | 2000          |
| FSSSOF0808 | 1/2-20 X 1/2   | 100              | 2500          |
| FSSSOF0810 | 1/2-20 X 5/8   | 100              | 2500          |
| FSSSOF0812 | 1/2-20 X 3/4   | 100              | 1500          |
| FSSSOF0816 | 1/2-20 X 1     | 50               | 1000          |
| FSSSOF0824 | 1/2-20 X 1 1/2 | 50               | 700           |

## 18-8 STAINLESS STEEL • CUP POINT • COARSE THREAD • IMPORTED

| Part #      | Size         | Package Quantity |
|-------------|--------------|------------------|
| FSSSSS00304 | 10-24 X 1/4  | 100              |
| FSSSSS00306 | 10-24 X 3/8  | 100              |
| FSSSSS00404 | 1/4-20 X 1/4 | 100              |

| Part #      | Size          | Package Quantity |
|-------------|---------------|------------------|
| FSSSSS00408 | 1/4-20 X 1/2  | 100              |
| FSSSSS00508 | 5/16-18 X 1/2 | 100              |
| FSSSSS00606 | 3/8-16 X 3/4  | 100              |

# SOCKET SET SCREWS \*CONTINUED FROM THE PREVIOUS PAGE

## KNURLED CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED



Knurled Cup Point Socket Set Screw are the same as the normal cup points with the addition of the locking action of the knurls.

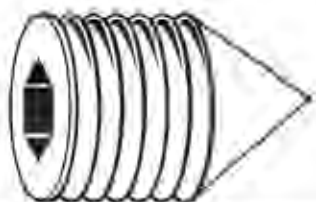
| Part #       | Size           | Package Quantity | Bulk Quantity |
|--------------|----------------|------------------|---------------|
| FSSSOKP00604 | 6-32 X 1/4     | 100              | 5000          |
| FSSSOKP00804 | 8-32 X 1/4     | 100              | 5000          |
| FSSSOKP00806 | 8-32 X 3/8     | 100              | 5000          |
| FSSSOKP01004 | 10-24 X 1/4    | 100              | 5000          |
| FSSSOKP01006 | 10-24 X 3/8    | 100              | 5000          |
| FSSSOKP0404  | 1/4-20 X 1/4   | 100              | 5000          |
| FSSSOKP0405  | 1/4-20 X 5/16  | 100              | 5000          |
| FSSSOKP0406  | 1/4-20 X 3/8   | 100              | 5000          |
| FSSSOKP0408  | 1/4-20 X 1/2   | 100              | 5000          |
| FSSSOKP0505  | 5/16-18 X 5/16 | 100              | 5000          |

| Part #      | Size           | Package Quantity | Bulk Quantity |
|-------------|----------------|------------------|---------------|
| FSSSOKP0506 | 5/16-18 X 3/8  | 100              | 5000          |
| FSSSOKP0508 | 5/16-18 X 1/2  | 100              | 5000          |
| FSSSOKP0606 | 3/8-16 X 3/8   | 100              | 5000          |
| FSSSOKP0612 | 3/8-16 X 3/4   | 100              | 3000          |
| FSSSOKP0620 | 3/8-16 X 1 1/4 | 100              | 1500          |
| FSSSOKP0708 | 7/16-14 X 1/2  | 100              | 3000          |
| FSSSOKP0808 | 1/2-13 X 1/2   | 100              | 2500          |
| FSSSOKP0812 | 1/2-13 X 3/4   | 100              | 1500          |
| FSSSOKP0816 | 1/2-13 X 1     | 100              | 1000          |

## KNURLED CUP POINT • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #        | Size           | Package Quantity | Bulk Quantity |
|---------------|----------------|------------------|---------------|
| FSSSOKPF01004 | 10-32 X 1/4    | 100              | 5000          |
| FSSSOKPF01006 | 10-32 X 3/8    | 100              | 5000          |
| FSSSOKPF0404  | 1/4-28 X 1/4   | 100              | 5000          |
| FSSSOKPF0406  | 1/4-28 X 3/8   | 100              | 5000          |
| FSSSOKPF0408  | 1/4-28 X 1/2   | 100              | 5000          |
| FSSSOKPF0505  | 5/16-24 X 5/16 | 100              | 5000          |
| FSSSOKPF0506  | 5/16-24 X 3/8  | 100              | 5000          |
| FSSSOKPF0508  | 5/16-24 X 1/2  | 100              | 5000          |
| FSSSOKPF0606  | 3/8-24 X 3/8   | 100              | 5000          |
| FSSSOKPF0608  | 3/8-24 X 1/2   | 100              | 5000          |
| FSSSOKPF0612  | 3/8-24 X 3/4   | 100              | 3000          |

## CONE POINT • COARSE THREAD • PLAIN FINISH • IMPORTED



Cone Point Socket Set Screws are designed for permanent setting on soft and hard shafts.

| Part #     | Size         | Package Quantity | Bulk Quantity |
|------------|--------------|------------------|---------------|
| FSSSOC0410 | 1/4-20 X 5/8 | 100              | 5000          |
| FSSSOC0612 | 3/8-16 X 3/4 | 100              | 3000          |

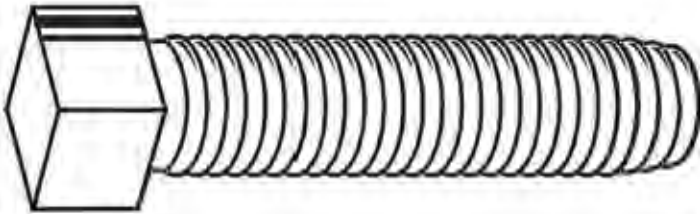
# SQUARE HEAD SET SCREWS

## TECHNICAL INFORMATION

### Dimensions

| Size | Head Width | Head Height |
|------|------------|-------------|
| 1/4  | 1/4        | 0.187       |
| 5/16 | 5/16       | 0.235       |
| 3/8  | 3/8        | 0.282       |
| 7/16 | 7/16       | 0.328       |
| 1/2  | 1/2        | 0.375       |
| 5/8  | 5/8        | 0.469       |
| 3/4  | 3/4        | 0.563       |
| 7/8  | 7/8        | 0.657       |
| 1    | 1          | 0.750       |

### CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED



Square Head Set Screws give the advantage of an exterior wrenching surface and may be especially used in dirty environments where removal is difficult with socket set screws.

| Part #   | Size            | Package Quantity | Bulk Quantity |
|----------|-----------------|------------------|---------------|
| FSSSQ404 | 1/4-20 X 1/2    | 100              | 6000          |
| FSSSQ406 | 1/4-20 X 3/4    | 100              | 4000          |
| FSSSQ408 | 1/4-20 X 1      | 100              | 3000          |
| FSSSQ410 | 1/4-20 X 1 1/4  | 100              | 3000          |
| FSSSQ412 | 1/4-20 X 1 1/2  | 100              | 2000          |
| FSSSQ504 | 5/16-18 X 1/2   | 100              | 3000          |
| FSSSQ505 | 5/16-18 X 5/8   | 100              | 3000          |
| FSSSQ506 | 5/16-18 X 3/4   | 100              | 3000          |
| FSSSQ508 | 5/16-18 X 1     | 100              | 2000          |
| FSSSQ510 | 5/16-18 X 1 1/4 | 100              | 1500          |
| FSSSQ512 | 5/16-18 X 1 1/2 | 100              | 1500          |
| FSSSQ516 | 5/16-18 X 2     | 100              | 1000          |
| FSSSQ604 | 3/8-16 X 1/2    | 100              | 2000          |
| FSSSQ605 | 3/8-16 X 5/8    | 100              | 2000          |
| FSSSQ606 | 3/8-16 X 3/4 *  | 100              | 1500          |
| FSSSQ607 | 3/8-16 X 7/8    | 100              | 1500          |
| FSSSQ608 | 3/8-16 X 1      | 100              | 1500          |
| FSSSQ608 | 3/8-16 X 1†     | 100              | 1500          |
| FSSSQ610 | 3/8-16 X 1 1/4  | 100              | 1000          |
| FSSSQ612 | 3/8-16 X 1 1/2  | 100              | 1000          |
| FSSSQ616 | 3/8-16 X 2      | 100              | 750           |
| FSSSQ706 | 7/16-14 X 3/4   | 50               | 1000          |

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FSSSQ708  | 7/16-14 X 1     | 50               | 1000          |
| FSSSQ710  | 7/16-14 X 1 1/4 | 50               | 700           |
| FSSSQ714  | 7/16-14 X 1 3/4 | 50               | 700           |
| FSSSQ806  | 1/2-13 X 3/4    | 50               | 800           |
| FSSSQ808  | 1/2-13 X 1      | 50               | 700           |
| FSSSQ810  | 1/2-13 X 1 1/4  | 50               | 600           |
| FSSSQ812  | 1/2-13 X 1 1/2  | 50               | 500           |
| FSSSQ814  | 1/2-13 X 1 3/4  | 50               | 400           |
| FSSSQ816  | 1/2-13 X 2      | 50               | 400           |
| FSSSQ820  | 1/2-13 X 2 1/2  | 50               | 350           |
| FSSSQ824  | 1/2-13 X 3      | 50               | 250           |
| FSSSQ828  | 1/2-13 X 3 1/2  | 25               | 250           |
| FSSSQ832  | 1/2-13 X 4      | 25               | 250           |
| FSSSQ1008 | 5/8-11 X 1      | 25               | 400           |
| FSSSQ1012 | 5/8-11 X 1 1/2  | 25               | 200           |
| FSSSQ1016 | 5/8-11 X 2      | 25               | 200           |
| FSSSQ1020 | 5/8-11 X 2 1/2  | 25               | 200           |
| FSSSQ1216 | 3/4-10 X 2      | 20               | 150           |
| FSSSQ1220 | 3/4-10 X 2 1/2  | 20               | 150           |
| FSSSQ1224 | 3/4-10 X 3      | 20               | 100           |
| FSSSQ1424 | 7/8-9 X 3       | 15               | 100           |

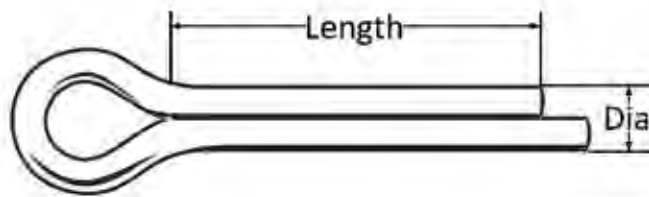
\*Zinc Plated

† Cone Point

# COTTER PINS

## ZINC PLATED • MADE IN USA

Sizes marked with a \* are non-stock and have a 3-6 day lead time.



| Part #  | Size          | Package Quantity |
|---------|---------------|------------------|
| FCP0402 | 1/16 X 1/2    | 100              |
| FCP0403 | 1/16 X 3/4    | 100              |
| FCP0404 | 1/16 X 1      | 100              |
| FCP0405 | 1/16 X 1 1/4  | 100              |
| FCP0502 | 5/64 X 1/2    | 100              |
| FCP0503 | 5/64 X 3/4    | 100              |
| FCP0504 | 5/64 X 1      | 100              |
| FCP0505 | 5/64 X 1 1/4* | 100              |
| FCP0506 | 5/64 X 1 1/2* | 100              |
| FCP0507 | 5/64 X 1 3/4  | 100              |
| FCP0508 | 5/64 X 2      | 100              |
| FCP0602 | 3/32 X 1/2    | 100              |
| FCP0603 | 3/32 X 3/4    | 100              |
| FCP0604 | 3/32 X 1      | 100              |
| FCP0605 | 3/32 X 1 1/4  | 100              |
| FCP0606 | 3/32 X 1 1/2  | 100              |
| FCP0607 | 3/32 X 1 3/4  | 100              |
| FCP0608 | 3/32 X 2      | 100              |
| FCP0703 | 7/64 X 3/4    | 100              |
| FCP0704 | 7/64 X 1      | 100              |
| FCP0705 | 7/64 X 1 1/4  | 100              |
| FCP0706 | 7/64 X 1 1/2  | 100              |
| FCP0707 | 7/64 X 1 3/4  | 100              |
| FCP0708 | 7/64 X 2      | 100              |
| FCP0802 | 1/8 X 1/2     | 100              |
| FCP0803 | 1/8 X 3/4     | 100              |
| FCP0804 | 1/8 X 1       | 100              |
| FCP0805 | 1/8 X 1 1/4   | 100              |
| FCP0806 | 1/8 X 1 1/2   | 100              |
| FCP0807 | 1/8 X 1 3/4   | 100              |
| FCP0808 | 1/8 X 2       | 100              |
| FCP0810 | 1/8 X 2 1/2   | 100              |
| FCP0812 | 1/8 X 3       | 100              |
| FCP1003 | 5/32 X 3/4    | 100              |
| FCP1004 | 5/32 X 1      | 100              |
| FCP1005 | 5/32 X 1 1/4  | 100              |
| FCP1006 | 5/32 X 1 1/2  | 100              |
| FCP1007 | 5/32 X 1 3/4  | 100              |
| FCP1008 | 5/32 X 2      | 100              |
| FCP1009 | 5/32 X 2 1/4  | 100              |

| Part #  | Size         | Package Quantity |
|---------|--------------|------------------|
| FCP1010 | 5/32 X 2 1/2 | 100              |
| FCP1012 | 5/32 X 3     | 100              |
| FCP1203 | 3/16 X 3/4   | 100              |
| FCP1204 | 3/16 X 1     | 100              |
| FCP1205 | 3/16 X 1 1/4 | 100              |
| FCP1206 | 3/16 X 1 1/2 | 100              |
| FCP1207 | 3/16 X 1 3/4 | 100              |
| FCP1208 | 3/16 X 2     | 100              |
| FCP1209 | 3/16 X 2 1/4 | 100              |
| FCP1210 | 3/16 X 2 1/2 | 100              |
| FCP1212 | 3/16 X 3     | 100              |
| FCP1214 | 3/16 X 3 1/2 | 100              |
| FCP1216 | 3/16 X 4     | 100              |
| FCP1404 | 7/32 X 1     | 100              |
| FCP1406 | 7/32 X 1 1/2 | 100              |
| FCP1408 | 7/32 X 2     | 100              |
| FCP1409 | 7/32 X 2 1/4 | 100              |
| FCP1410 | 7/32 X 2 1/2 | 100              |
| FCP1412 | 7/32 X 3     | 100              |
| FCP1605 | 1/4 X 1 1/4  | 50               |
| FCP1606 | 1/4 X 1 1/2  | 50               |
| FCP1607 | 1/4 X 1 3/4  | 50               |
| FCP1608 | 1/4 X 2      | 50               |
| FCP1610 | 1/4 X 2 1/2  | 50               |
| FCP1612 | 1/4 X 3      | 50               |
| FCP1614 | 1/4 X 3 1/2  | 50               |
| FCP1616 | 1/4 X 4      | 50               |
| FCP2006 | 5/16 X 1 1/2 | 50               |
| FCP2008 | 5/16 X 2     | 50               |
| FCP2010 | 5/16 X 2 1/2 | 50               |
| FCP2012 | 5/16 X 3     | 50               |
| FCP2014 | 5/16 X 3 1/2 | 50               |
| FCP2016 | 5/16 X 4     | 50               |
| FCP2020 | 5/16 X 5     | 50               |
| FCP2408 | 3/8 X 2      | 50               |
| FCP2410 | 3/8 X 2 1/2* | 50               |
| FCP2412 | 3/8 X 3      | 25               |
| FCP2414 | 3/8 X 3 1/2  | 25               |
| FCP2416 | 3/8 X 4      | 25               |
| FCP2814 | 7/16 X 3 1/2 | 25               |

# COTTER PINS & SPRING PINS (ROLL PINS)

## COTTER PINS \*CONTINUED FROM PREVIOUS PAGE

### 18-8 • STAINLESS STEEL • IMPORTED

| Part #    | Size        | Package Quantity |
|-----------|-------------|------------------|
| FSSCP0805 | 1/8 X 1 1/4 | 100              |
| FSSCP1208 | 3/16 X 2    | 100              |

## SPRING PINS (ROLL PINS)

### ZINC PLATED • MADE IN USA

| Pin Size | Inside |
|----------|--------|
| 5/32     | 3/32   |
| 7/32     | 1/8    |
| 1/4      | 5/32   |
| 5/16     | 3/16   |
| 3/8      | 7/32   |
| 1/2      | 5/16   |

| Part #  | Size         | Uninstalled OD | Package Quantity |
|---------|--------------|----------------|------------------|
| FSP0408 | 1/16 X 1/2   | 0.069          | 100              |
| FSP0416 | 1/16 X 1     | 0.069          | 100              |
| FSP0508 | 5/64 X 1/2   | 0.083          | 100              |
| FSP0512 | 5/64 X 3/4   | 0.083          | 100              |
| FSP0516 | 5/64 X 1     | 0.083          | 100              |
| FSP0606 | 3/32 X 3/8   | 0.103          | 100              |
| FSP0608 | 3/32 X 1/2   | 0.103          | 100              |
| FSP0610 | 3/32 X 5/8   | 0.103          | 100              |
| FSP0612 | 3/32 X 3/4   | 0.103          | 100              |
| FSP0616 | 3/32 X 1     | 0.103          | 100              |
| FSP0622 | 3/32 X 1 3/8 | 0.103          | 100              |
| FSP0624 | 3/32 X 1 1/2 | 0.103          | 100              |
| FSP0804 | 1/8 X 1/4    | 0.135          | 100              |
| FSP0805 | 1/8 X 5/16   | 0.135          | 100              |
| FSP0806 | 1/8 X 3/8    | 0.135          | 100              |
| FSP0808 | 1/8 X 1/2    | 0.135          | 100              |
| FSP0810 | 1/8 X 5/8    | 0.135          | 100              |
| FSP0812 | 1/8 X 3/4    | 0.135          | 100              |
| FSP0816 | 1/8 X 1      | 0.135          | 100              |
| FSP0820 | 1/8 X 1 1/4  | 0.135          | 100              |
| FSP0824 | 1/8 X 1 1/2  | 0.135          | 100              |
| FSP0828 | 1/8 X 1 3/4  | 0.135          | 100              |
| FSP0832 | 1/8 X 2      | 0.135          | 100              |
| FSP1008 | 5/32 X 1/2   | 0.167          | 100              |
| FSP1012 | 5/32 X 3/4   | 0.167          | 100              |
| FSP1016 | 5/32 X 1     | 0.167          | 100              |



Spring Pins are made of carbon steel. Their size is given as the hole size they were designed for by the over all length. They can be doubled up for heavy duty applications. The chart to the left gives the sizes to use when doubling up.

| Part #  | Size         | Uninstalled OD | Package Quantity |
|---------|--------------|----------------|------------------|
| FSP1020 | 5/32 X 1 1/4 | 0.167          | 100              |
| FSP1024 | 5/32 X 1 1/2 | 0.167          | 100              |
| FSP1028 | 5/32 X 1 3/4 | 0.167          | 100              |
| FSP1032 | 5/32 X 2     | 0.167          | 100              |
| FSP1040 | 5/32 X 2 1/2 | 0.167          | 100              |
| FSP1208 | 3/16 X 1/2   | 0.199          | 100              |
| FSP1210 | 3/16 X 5/8   | 0.199          | 100              |
| FSP1212 | 3/16 X 3/4   | 0.199          | 100              |
| FSP1214 | 3/16 X 7/8   | 0.199          | 100              |
| FSP1216 | 3/16 X 1     | 0.199          | 100              |
| FSP1220 | 3/16 X 1 1/4 | 0.199          | 100              |
| FSP1224 | 3/16 X 1 1/2 | 0.199          | 100              |
| FSP1228 | 3/16 X 1 3/4 | 0.199          | 100              |
| FSP1232 | 3/16 X 2     | 0.199          | 100              |
| FSP1236 | 3/16 X 2 1/4 | 0.199          | 100              |
| FSP1240 | 3/16 X 2 1/2 | 0.199          | 100              |
| FSP1248 | 3/16 X 3     | 0.199          | 100              |
| FSP1412 | 7/32 X 3/4   | 0.232          | 100              |
| FSP1414 | 7/32 X 7/8   | 0.232          | 100              |
| FSP1416 | 7/32 X 1     | 0.232          | 100              |
| FSP1420 | 7/32 X 1 1/4 | 0.232          | 100              |
| FSP1424 | 7/32 X 1 1/2 | 0.232          | 100              |
| FSP1428 | 7/32 X 1 3/4 | 0.232          | 100              |
| FSP1432 | 7/32 X 2     | 0.232          | 100              |
| FSP1436 | 7/32 X 2 1/4 | 0.232          | 100              |
| FSP1440 | 7/32 X 2 1/2 | 0.232          | 100              |

# SPRING PINS (ROLL PINS)

## SPRING PINS (ROLL PINS)

**ZINC PLATED • MADE IN USA** \*CONTINUED FROM PREVIOUS PAGE

| Part #   | Size         | Uninstalled OD | Package Quantity |
|----------|--------------|----------------|------------------|
| FSP1448  | 7/32 X 3     | 0.232          | 100              |
| FSP1608  | 1/4 X 1/2    | 0.264          | 100              |
| FSP1612  | 1/4 X 3/4    | 0.264          | 100              |
| FSP1612  | 1/4 X 3/4*   | 0.264          | 100              |
| FSP1616  | 1/4 X 1      | 0.264          | 100              |
| FSP1620  | 1/4 X 1 1/4  | 0.264          | 100              |
| FSP1624  | 1/4 X 1 1/2  | 0.264          | 100              |
| FSP1628  | 1/4 X 1 3/4  | 0.264          | 100              |
| FSP1632  | 1/4 X 2      | 0.264          | 100              |
| FSP1636  | 1/4 X 2 1/4  | 0.264          | 100              |
| FSP1640  | 1/4 X 2 1/2  | 0.264          | 100              |
| FSP1648  | 1/4 X 3      | 0.264          | 50               |
| FSP1656  | 1/4 X 3 1/2  | 0.264          | 50               |
| FSP2012  | 5/16 X 3/4   | 0.330          | 50               |
| FSP2016  | 5/16 X 1     | 0.330          | 50               |
| FSP2020  | 5/16 X 1 1/4 | 0.330          | 50               |
| FSP2024  | 5/16 X 1 1/2 | 0.330          | 50               |
| FSP2028  | 5/16 X 1 3/4 | 0.330          | 50               |
| FSP2032  | 5/16 X 2     | 0.330          | 50               |
| FSP2032* | 5/16 X 2*    | 0.330          | 50               |
| FSP2036  | 5/16 X 2 1/4 | 0.330          | 50               |
| FSP2040  | 5/16 X 2 1/2 | 0.330          | 50               |
| FSP2044  | 5/16 X 2 3/4 | 0.330          | 50               |
| FSP2048  | 5/16 X 3     | 0.330          | 50               |
| FSP2052  | 5/16 X 3 1/4 | 0.330          | 50               |

| Part #  | Size         | Uninstalled OD | Package Quantity |
|---------|--------------|----------------|------------------|
| FSP2056 | 5/16 X 3 1/2 | 0.330          | 50               |
| FSP2412 | 3/8 X 3/4    | 0.395          | 50               |
| FSP2416 | 3/8 X 1      | 0.395          | 50               |
| FSP2420 | 3/8 X 1 1/4  | 0.395          | 50               |
| FSP2424 | 3/8 X 1 1/2  | 0.395          | 50               |
| FSP2428 | 3/8 X 1 3/4  | 0.395          | 50               |
| FSP2432 | 3/8 X 2      | 0.395          | 50               |
| FSP2436 | 3/8 X 2 1/4  | 0.395          | 25               |
| FSP2440 | 3/8 X 2 1/2  | 0.395          | 25               |
| FSP2448 | 3/8 X 3      | 0.395          | 25               |
| FSP2456 | 3/8 X 3 1/2  | 0.395          | 25               |
| FSP2464 | 3/8 X 4      | 0.395          | 25               |
| FSP2824 | 7/16 X 1 1/2 | 0.459          | 25               |
| FSP2832 | 7/16 X 2     | 0.459          | 25               |
| FSP2840 | 7/16 X 2 1/2 | 0.459          | 25               |
| FSP2848 | 7/16 X 3     | 0.459          | 25               |
| FSP2856 | 7/16 X 3 1/2 | 0.459          | 25               |
| FSP2864 | 7/16 X 4     | 0.459          | 25               |
| FSP3228 | 1/2 X 1 3/4  | 0.524          | 25               |
| FSP3232 | 1/2 X 2      | 0.524          | 25               |
| FSP3236 | 1/2 X 2 1/4  | 0.524          | 25               |
| FSP3240 | 1/2 X 2 1/2  | 0.524          | 25               |
| FSP3248 | 1/2 X 3      | 0.524          | 25               |
| FSP3256 | 1/2 X 3 1/2  | 0.524          | 25               |

\*Plain Finish

## 420 STAINLESS STEEL • IMPORTED

| Part #    | Size        | Uninstalled OD | Package Quantity |
|-----------|-------------|----------------|------------------|
| FSSSP0412 | 1/16 X 3/4  | 0.069          | 100              |
| FSSSP1620 | 1/4 X 1 1/4 | 0.264          | 100              |



# SPIRAL SPRING PINS & CLEVIS PINS

## SPRIAL SPRING PINS

**PLAIN FINISH • MADE IN USA**



Spiral Spring Pins are also known as Coiled Spring Pins. They are used in the same manner as standard spring pins but are for more heavy duty applications.

| Part #   | Size         | Uninstalled OD | Package Quantity |
|----------|--------------|----------------|------------------|
| FSPS0405 | 1/16 X 5/16  | 0.072          | 100              |
| FSPS0620 | 3/32 X 1 1/4 | 0.105          | 100              |
| FSPS0812 | 1/8 X 3/4    | 0.138          | 100              |
| FSPS0820 | 1/8 X 1 1/4  | 0.138          | 100              |
| FSPS1012 | 5/32 X 3/4   | 0.171          | 100              |
| FSPS1020 | 5/32 X 1 1/4 | 0.171          | 100              |
| FSPS1024 | 5/32 X 1 1/2 | 0.171          | 100              |
| FSPS1216 | 3/16 X 1     | 0.205          | 100              |
| FSPS1220 | 3/16 X 1 1/4 | 0.205          | 100              |
| FSPS1224 | 3/16 X 1 1/2 | 0.205          | 100              |
| FSPS1232 | 3/16 X 2     | 0.205          | 100              |
| FSPS1414 | 7/32 X 7/8   | 0.238          | 100              |

| Part #   | Size         | Uninstalled OD | Package Quantity |
|----------|--------------|----------------|------------------|
| FSPS1424 | 7/32 X 1 1/2 | 0.238          | 100              |
| FSPS1432 | 7/32 X 2     | 0.238          | 100              |
| FSPS1620 | 1/4 X 1 1/4  | 0.271          | 100              |
| FSPS1624 | 1/4 X 1 1/2  | 0.271          | 100              |
| FSPS1632 | 1/4 X 2      | 0.271          | 100              |
| FSPS2016 | 5/16 X 1     | 0.337          | 50               |
| FSPS2020 | 5/16 X 1 1/4 | 0.337          | 50               |
| FSPS2024 | 5/16 X 1 1/2 | 0.337          | 50               |
| FSPS2032 | 5/16 X 2     | 0.337          | 50               |
| FSPS2040 | 5/16 X 2 1/2 | 0.337          | 50               |
| FSPS2424 | 3/8 X 1 1/2  | 0.403          | 50               |

## CLEVIS PINS

### TECHNICAL INFORMATION

#### Dimensions

| Size | Head OD   | Head Height | Hole Size |
|------|-----------|-------------|-----------|
| 3/16 | .32/.30   | .07/.05     | 3/32      |
| 1/4  | .38/.36   | .10/.08     | 3/32      |
| 5/16 | .44/.42   | .10/.08     | 9/64      |
| 3/8  | .51/.49   | .13/.11     | 5/32      |
| 7/16 | .57/.55   | .16/.14     | 5/32      |
| 1/2  | .63/.61   | .16/.14     | 5/32      |
| 9/16 | .82/.80   | .21/.19     | 5/32      |
| 5/8  | .82/.80   | .21/.19     | 5/32      |
| 3/4  | .94/.92   | .26/.24     | 5/32      |
| 7/8  | 1.04/1.02 | .32/.30     | 3/16      |
| 1    | 1.19/1.17 | .35/.33     | 3/16      |

# CLEVIS PINS

## ZINC PLATED • MADE IN USA



Clevis Pins are a versatile and economical fastener. They are manufactured from low carbon steel.

| Part #  | Size         | Effective Length | Package Quantity |
|---------|--------------|------------------|------------------|
| FCL0312 | 3/16 X 1 1/2 | 1 23/64          | 25               |
| FCL0406 | 1/4 X 3/4    | 39/64            | 25               |
| FCL0408 | 1/4 X 1      | 55/64            | 25               |
| FCL0409 | 1/4 X 1 1/8  | 63/64            | 25               |
| FCL0410 | 1/4 X 1 1/4  | 1 7/64           | 25               |
| FCL0412 | 1/4 X 1 1/2  | 1 23/64          | 25               |
| FCL0414 | 1/4 X 1 3/4  | 1 39/64          | 25               |
| FCL0416 | 1/4 X 2      | 1 55/64          | 25               |
| FCL0418 | 1/4 X 2 1/4  | 2 7/64           | 25               |
| FCL0420 | 1/4 X 2 1/2  | 2 23/64          | 25               |
| FCL0507 | 5/16 X 7/8   | 21/32            | 25               |
| FCL0508 | 5/16 X 1     | 25/32            | 25               |
| FCL0510 | 5/16 X 1 1/4 | 1 1/32           | 25               |
| FCL0512 | 5/16 X 1 1/2 | 1 9/32           | 25               |
| FCL0514 | 5/16 X 1 3/4 | 1 17/32          | 25               |
| FCL0516 | 5/16 X 2     | 1 25/32          | 25               |
| FCL0520 | 5/16 X 2 1/2 | 2 9/32           | 25               |
| FCL0606 | 3/8 X 3/4    | 33/64            | 25               |
| FCL0608 | 3/8 X 1      | 49/64            | 25               |
| FCL0609 | 3/8 X 1 1/8  | 57/64            | 25               |
| FCL0610 | 3/8 X 1 1/4  | 1 1/64           | 25               |
| FCL0612 | 3/8 X 1 1/2  | 1 17/64          | 25               |
| FCL0614 | 3/8 X 1 3/4  | 1 33/64          | 25               |
| FCL0616 | 3/8 X 2      | 1 49/64          | 25               |

| Part #  | Size         | Effective Length | Package Quantity |
|---------|--------------|------------------|------------------|
| FCL0620 | 3/8 X 2 1/2  | 2 17/64          | 25               |
| FCL0624 | 3/8 X 3      | 2 49/64          | 25               |
| FCL0628 | 3/8 X 3 1/2  | 3 17/64          | 25               |
| FCL0708 | 7/16 X 1     | 49/64            | 25               |
| FCL0712 | 7/16 X 1 1/2 | 1 17/64          | 25               |
| FCL0716 | 7/16 X 2     | 1 49/64          | 25               |
| FCL0720 | 7/16 X 2 1/2 | 2 17/64          | 25               |
| FCL0808 | 1/2 X 1      | 49/64            | 25               |
| FCL0810 | 1/2 X 1 1/4  | 1 1/64           | 25               |
| FCL0812 | 1/2 X 1 1/2  | 1 17/64          | 25               |
| FCL0814 | 1/2 X 1 3/4  | 1 33/64          | 25               |
| FCL0816 | 1/2 X 2      | 1 49/64          | 25               |
| FCL0820 | 1/2 X 2 1/2  | 2 17/64          | 25               |
| FCL0824 | 1/2 X 3      | 2 49/64          | 25               |
| FCL0828 | 1/2 X 3 1/2  | 3 17/64          | 25               |
| FCL1010 | 5/8 X 1 1/4  | 1 1/64           | 10               |
| FCL1012 | 5/8 X 1 1/2  | 1 17/64          | 10               |
| FCL1016 | 5/8 X 2      | 1 49/64          | 10               |
| FCL1020 | 5/8 X 2 1/2  | 2 17/64          | 10               |
| FCL1024 | 5/8 X 3      | 2 49/64          | 10               |
| FCL1028 | 5/8 X 3 1/2  | 3 17/64          | 10               |
| FCL1224 | 3/4 X 3      | 2 49/64          | 10               |
| FCL1236 | 3/4 X 4 1/2  | 3 17/64          | 10               |

## PLAIN FINISH • MADE IN USA

| Part #   | Size         | Effective Length | Package Quantity |
|----------|--------------|------------------|------------------|
| FCLP0404 | 1/4 X 1/2    | 23/64            | 25               |
| FCLP0408 | 1/4 X 1      | 55/64            | 25               |
| FCLP0508 | 5/16 X 1     | 25/32            | 25               |
| FCLP0516 | 5/16 X 2     | 1 25/32          | 25               |
| FCLP0520 | 5/16 X 2 1/2 | 2 9/32           | 25               |
| FCLP0521 | 5/16 X 2 5/8 | 2 13/32          | 25               |
| FCLP0610 | 3/8 X 1 1/4  | 1 1/64           | 25               |
| FCLP0612 | 3/8 X 1 1/2  | 1 17/64          | 25               |
| FCLP0710 | 7/16 X 1 1/4 | 1 1/64           | 25               |

| Part #   | Size        | Effective Length | Package Quantity |
|----------|-------------|------------------|------------------|
| FCLP0810 | 1/2 X 1 1/4 | 1 1/64           | 25               |
| FCLP0812 | 1/2 X 1 1/2 | 1 17/64          | 25               |
| FCLP0814 | 1/2 X 1 3/4 | 1 33/64          | 25               |
| FCLP0816 | 1/2 X 2     | 1 49/64          | 25               |
| FCLP1028 | 5/8 X 3 1/2 | 3 17/64          | 10               |
| FCLP1216 | 3/4 X 2     | 1 49/64          | 10               |
| FCLP1240 | 3/4 X 5     | 4 49/64          | 10               |
| FCLP1428 | 7/8 X 3 1/2 | 3 13/64          | 10               |

# CLEVIS PINS & BRIDGE PINS

## CLEVIS PINS \*CONTINUED FROM PREVIOUS PAGE

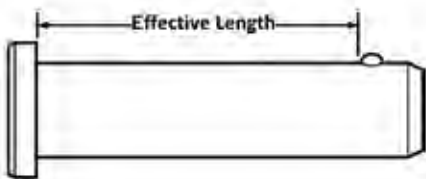
### UNIVERSAL • ZINC PLATED • MADE IN USA

| Part #   | Size     | Package Quantity |
|----------|----------|------------------|
| FCLU0416 | 1/4 X 2  | 25               |
| FCLU0516 | 5/16 X 2 | 25               |
| FCLU0616 | 3/8 X 2  | 25               |
| FCLU0716 | 7/16 X 2 | 25               |
| FCLU0816 | 1/2 X 2  | 25               |



Universal Clevis Pins have a series of holes making them adaptable to varying lengths.

### COTTERLESS • ZINC PLATED • MADE IN USA



Cotterless Clevis Pins are quick disconnect pin that features a ball locking mechanism instead of a cotter pin or other fastener.

| Part #   | Size    | Effective Length | Package Quantity |
|----------|---------|------------------|------------------|
| FCLC0408 | 1/4 X 1 | 3/4              | 25               |

## BRIDGE PINS

### ZINC PLATED • MADE IN USA



Bridge Pins are reusable and ideal for quick assembly and disassembly. Size is measured as wire diameter by overall length. They are manufactured from spring steel.

| Part #    | Description | Size           | Use on Shaft Size | Package Quantity | Bulk Quantity |
|-----------|-------------|----------------|-------------------|------------------|---------------|
| FBP21-01  | 21-01       | .030 X 19/32   | 1/8               | 25               | -             |
| FBP1      | #1          | .059 X 1 1/8   | 1/4-5/16          | 25               | -             |
| FBP2      | #2          | .073 X 1 7/16  | 5/16-3/8          | 25               | 5000          |
| FBP3      | #3          | .092 X 1 7/8   | 3/8-7/16          | 25               | 2500          |
| FBP4      | #4          | .120 X 2 3/8   | 1/2-5/8           | 25               | 1000          |
| FBP5      | #5          | .148 X 2 11/16 | 5/8-3/4           | 25               | 1000          |
| FBP6      | #6          | .178 X 3 3/4   | 7/8-1             | 25               | 250           |
| FBP21-09  | 21-09       | .243 X 5       | 1 1/8-1 1/2       | 25               | 100           |
| FBP21-041 | 21-041      | .120 X 1 29/32 | 3/8               | 25               | 1000          |

# BOW TIE LOCKING COTTERS & LYNCH PINS

## BOW TIE LOCKING COTTERS

**ZINC PLATED • MADE IN USA**



Bow Tie Locking Cotters work like Bridge Pins but lock themselves in place.

| Part #   | Description | Size          | Use on Shaft Size | Package Quantity |
|----------|-------------|---------------|-------------------|------------------|
| FBT72    | #72         | .072 X 1 3/8  | 1/4-3/8           | 25               |
| FBT91    | #91         | .091 X 1 7/8  | 5/16-3/8          | 25               |
| FBT120   | #120        | .120 X 2 3/4  | 7/16-1/2          | 25               |
| FBT14810 | #148-10     | .148 X 3 9/16 | 5/8               | 25               |
| FBT14812 | #148-12     | .148 X 3 9/16 | 3/4               | 25               |

## LYNCH PINS

### TECHNICAL INFORMATION

#### Dimensions

| Diameter | Length Under Head | Effective Length | Ring ID |
|----------|-------------------|------------------|---------|
| 3/16     | 1 9/16            | 1 1/4            | 1 13/32 |
| 1/4      | 1 9/16            | 1 1/4            | 1 13/32 |
| 5/16     | 1 9/16            | 1 1/4            | 1 13/32 |
| 7/16     | 1 9/16            | 1 11/32          | 1 17/32 |



### YELLOW ZINC PLATED • IMPORTED

Lynch Pins are an excellent quick disconnect fastener. The ring holds the pin securely in place and gives an easy grip when removing the pin.

| Part # | Size          | Discount Quantity |
|--------|---------------|-------------------|
| FLPC3  | 3/16 X 1 9/16 | 100               |
| FLPC4  | 1/4 X 1 9/16  | 100               |
| FLPC5  | 5/16 X 1 9/16 | 100               |
| FLPC7  | 7/16 X 1 9/16 | 100               |

# LOCK PINS

## TECHNICAL INFORMATION

### Dimensions

| Diameter | Effective Length | Length Under Head | Wire Clearance |
|----------|------------------|-------------------|----------------|
| 1/4      | 1 3/4            | 2                 | 1 5/8          |
| 1/4      | 2 1/2            | 2 3/4             | 1 5/8          |
| 5/16     | 1 3/8            | 1 5/8             | 1 1/2          |
| 5/16     | 1 3/4            | 2                 | 1 1/2          |
| 5/16     | 2 1/2            | 2 3/4             | 1 1/2          |
| 3/8      | 1 3/4            | 2                 | 1 1/2          |
| 3/8      | 2 1/2            | 2 3/4             | 1 1/2          |
| 3/8      | 3                | 3 1/4             | 1 1/2          |

Lock Pins are a popular quick disconnect pin that find uses in many places. The retainer wire is made of tempered spring wire and the pin is made of low carbon steel.

### SINGLE WIRE • ZINC PLATED • MADE IN USA

| Part #  | Size         | Wire Configuration | Discount Quantity |
|---------|--------------|--------------------|-------------------|
| FLPSW4S | 1/4 X 1 3/4  | ROUND              | 100               |
| FLPSW4L | 1/4 X 2 1/2  | SQUARE             | 100               |
| FLPSW5S | 5/16 X 1 3/4 | ROUND              | 100               |
| FLPSW5  | 5/16 X 2 1/2 | SQUARE             | 100               |
| FLPSW6S | 3/8 X 1 3/4  | ROUND              | 100               |
| FLPSW6  | 3/8 X 2 1/2  | SQUARE             | 100               |
| FLPSW6L | 3/8 X 3*     | SQUARE             | 100               |

\*This size is imported.



### DOUBLE WIRE • ZINC PLATED • MADE IN USA OR IMPORTED

| Part # | Size         | Wire Configuration | Discount Quantity |
|--------|--------------|--------------------|-------------------|
| FLP4   | 1/4 X 1 3/4  | ROUND              | 100               |
| FLP4LR | 1/4 X 2 1/2  | ROUND              | 100               |
| FLP511 | 5/16 X 1 3/8 | ROUND              | 100               |
| FLP5L  | 5/16 X 2 1/2 | SQUARE             | 100               |
| FLP6S  | 3/8 X 1 3/4  | ROUND              | 100               |
| FLP6L  | 3/8 X 2 1/2  | SQUARE             | 100               |



# COIL TENSION LOCK PINS & HITCH PINS

## COIL TENSION LOCK PINS

### TECHNICAL INFORMATION

#### Dimensions

| Diameter | Effective Length | Wire Clearance | Length Under Head |
|----------|------------------|----------------|-------------------|
| 1/4      | 3                | 1 5/8          | 3 7/16            |
| 5/16     | 3                | 1 9/16         | 3 7/16            |
| 5/16     | 4                | 2              | 4 7/16            |
| 3/8      | 3                | 1 1/2          | 3 7/16            |
| 3/8      | 3 1/2            | 1 3/4          | 3 15/16           |
| 3/8      | 4                | 2              | 4 7/16            |
| 1/2      | 3 1/2            | 2 3/4          | 4 1/8             |
| 1/2      | 4 1/2            | 3              | 5 1/8             |



### ZINC PLATED • IMPORTED

| Part #  | Size         | Discount Quantity |
|---------|--------------|-------------------|
| FLP424  | 1/4 X 3      | 100               |
| FLP524  | 5/16 X 3     | 100               |
| FLP532  | 5/16 X 4     | 100               |
| FLP624  | 3/8 X 3      | 100               |
| FLP628  | 3/8 X 3 1/2  | 100               |
| FLP632  | 3/8 X 4      | 100               |
| FLP828  | 1/2 X 3 1/2  | 100               |
| FLPU828 | 1/2 X 3 1/2* | 100               |
| FLP836  | 1/2 X 4 1/2  | 100               |

\*This item is made in USA.

## HITCH PINS

### YELLOW ZINC PLATED • MADE IN USA



Hitch Pins feature a large easy to grip pull ring. They are hardened to a core Rockwell hardness of C25-C34 for sizes up to 1" and C19-C30 for sizes larger than 1". Size is measured as diameter by length under the head to the end of the pin.

| Part #  | Size        | Effective Length |
|---------|-------------|------------------|
| FHP0635 | 3/8 X 4 3/8 | 4                |
| FHP0838 | 1/2 X 4 3/4 | 4                |
| FHP0852 | 1/2 X 6 1/2 | 5 3/4            |
| FHP1038 | 5/8 X 4 3/4 | 4                |
| FHP1046 | 5/8 X 5 3/4 | 5                |
| FHP1054 | 5/8 X 6 3/4 | 6                |
| FHP1238 | 3/4 X 4 3/4 | 4                |
| FHP1248 | 3/4 X 6     | 5 1/4            |

| Part #  | Size          | Effective Length |
|---------|---------------|------------------|
| FHP1256 | 3/4 X 7       | 6 1/4            |
| FHP1442 | 7/8 X 5 1/4   | 4 1/4            |
| FHP1460 | 7/8 X 7 1/2   | 6 1/2            |
| FHP1646 | 1 X 5 3/4     | 4 3/4            |
| FHP1662 | 1 X 7 3/4     | 6 3/4            |
| FHP1862 | 1 1/8 X 7 3/4 | 7                |
| FHP2062 | 1 1/4 X 7 3/4 | 7                |
| FHP2272 | 1 3/8 X 9     | 8                |

# RED HANDLED HITCH, COTTERLESS HITCH & BENT PINS

## RED HANDLED HITCH PINS

### RED PLASTISOL COATED HEAD • MADE IN USA

| Part #    | Size          |
|-----------|---------------|
| FHPRH0834 | 1/2 X 3 5/8   |
| FHPRH1032 | 5/8 X 4       |
| FHPRH1044 | 5/8 X 5 1/2   |
| FHPRH1232 | 3/4 X 4       |
| FHPRH1252 | 3/4 X 6 1/2   |
| FHPRH1432 | 7/8 X 4       |
| FHPRH1452 | 7/8 X 6 1/2   |
| FHPRH1636 | 1 X 4 1/2     |
| FHPRH1660 | 1 X 7 1/2     |
| FHPRH1868 | 1 1/8 X 8 1/2 |
| FHPRH2068 | 1 1/4 X 8 1/2 |
| FHPRH2468 | 1 1/2 X 8 1/2 |
| FHPRH2868 | 1 3/4 X 8 1/2 |

Hitch Pins feature a large easy to grip handle for their head. The red plastisol coated handle makes them easier to find and gives them a more comfortable grip. They are manufactured from high tensile steel and heat treated. Size is measured as diameter by effective length. Effective length is measured under the head to the nearest edge of the hole for the hairpin clip.

## COTTERLESS HITCH PINS

### ZINC PLATED • MADE IN USA



Cotterless Hitch Pins are a quick disconnect pin that features a ball locking mechanism in place of cotter pin or other fastener. They are manufactured of low carbon steel. Size is measured as diameter by length under the ring to the end of the pin.

| Part #   | Size          | Effective Length | Discount Quantity |
|----------|---------------|------------------|-------------------|
| FHPC0313 | 3/16 X 1-9/16 | 1 5/16           | 100               |
| FHPC0410 | 1/4 X 1-1/4   | 1                | 100               |
| FHPC0414 | 1/4 X 1-3/4   | 1 1/2            | 100               |
| FHPC0416 | 1/4 X 2 1/4   | 2                | 100               |

| Part #   | Size        | Effective Length | Discount Quantity |
|----------|-------------|------------------|-------------------|
| FHPC0418 | 1/4 X 2-1/2 | 2 1/4            | 100               |
| FHPC0606 | 3/8 X 1 1/8 | 7/8              | 100               |
| FHPC0620 | 3/8 X 2-1/8 | 1 7/8            | 100               |
| FHPC0824 | 1/2 X 3     | 2 3/4            | 100               |

## BENT PINS

### ZINC PLATED • MADE IN USA OR IMPORTED



Bent Pins are widely used as a quick disconnect for trailer hitches. They are manufactured from carbon steel and come with the matching bridge pin. Size is measured as diameter by length under the handle to the edge of the hole.

| Part #   | Size        | Discount Quantity |
|----------|-------------|-------------------|
| FBEP0820 | 1/2 X 2 1/2 | 100               |
| FBEP0824 | 1/2 X 3     | 100               |
| FBEP1024 | 5/8 X 3     | 100               |
| FBEP1032 | 5/8 X 4     | 100               |

# DOWEL PINS & LANYARDS

## DOWEL PINS

**PLAIN FINISH • MADE IN USA**



Dowel Pins are manufactured from alloy steel and hardened to Rockwell C60 Min. Their diameter is 0.0002 oversized.

| Part #   | Size         | Package Quantity | Bulk Quantity |
|----------|--------------|------------------|---------------|
| FDPP0206 | 1/8 X 3/4    | 100              | 2000          |
| FDPP0306 | 3/16 X 3/4   | 100              | 2000          |
| FDPP0308 | 3/16 X 1     | 100              | 2000          |
| FDPP0310 | 3/16 X 1 1/4 | 100              | 2000          |
| FDPP0320 | 3/16 X 2 1/2 | 100              | 1500          |
| FDPP0404 | 1/4 X 1/2    | 100              | 1000          |
| FDPP0406 | 1/4 X 3/4    | 100              | 1000          |
| FDPP0408 | 1/4 X 1      | 100              | 1000          |
| FDPP0410 | 1/4 X 1 1/4  | 100              | 1000          |
| FDPP0412 | 1/4 X 1 1/2  | 100              | 1000          |
| FDPP0420 | 1/4 X 2-1/2  | 100              | 650           |
| FDPP0508 | 5/16 X 1     | 100              | 1000          |
| FDPP0512 | 5/16 X 1 1/2 | 100              | 1000          |

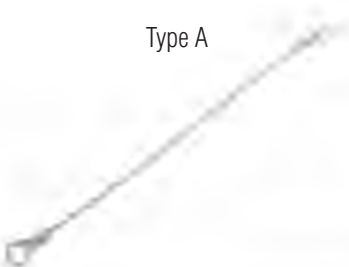
| Part #   | Size        | Package Quantity | Bulk Quantity |
|----------|-------------|------------------|---------------|
| FDPP0516 | 5/16 X 2    | 100              | 500           |
| FDPP0608 | 3/8 X 1     | 100              | 1000          |
| FDPP0612 | 3/8 X 1 1/2 | 100              | 600           |
| FDPP0616 | 3/8 X 2     | 100              | 500           |
| FDPP0620 | 3/8 X 2 1/2 | 100              | 400           |
| FDPP0808 | 1/2 X 1     | 20               | 450           |
| FDPP0810 | 1/2 X 1 1/4 | 20               | 450           |
| FDPP0812 | 1/2 X 1 1/2 | 20               | 300           |
| FDPP0816 | 1/2 X 2     | 20               | 300           |
| FDPP0820 | 1/2 X 2 1/2 | 20               | 225           |
| FDPP0824 | 1/2 X 3     | 20               | 200           |
| FDPP1220 | 3/4 X 2 1/2 | 10               | 90            |

Don't see the size you're looking for? Call us for availability!

## LANYARDS

**NYLON COATED GALVANIZED STEEL • MADE IN USA**

Type A



Type D



Lanyards are an excellent way to attach your pins so they don't get lost. Size is given as cable size by length. Length is measured from the inside of the eye to the inside of the eye for the type A and overall length for the type D.

| Part #  | Size       | Type | Package Quantity |
|---------|------------|------|------------------|
| FL036A  | 3/64 X 6"  | A    | 100              |
| FL0312D | 3/64 X 12" | D    | 100              |

We have other styles and sizes of lanyards available in 3-4 days. Please call us for pricing!



# OPEN END BLIND RIVETS

## TECHNICAL INFORMATION

### Shear and Tensile Strength

| Rivet Material | Body Material | Rivet Diameter | Shear Strength | Tensile Strength |
|----------------|---------------|----------------|----------------|------------------|
| Aluminum       | Aluminum      | 1/8            | 155            | 240              |
|                |               | 5/32           | 230            | 340              |
|                |               | 3/16           | 330            | 515              |
|                |               | 1/4            | 600            | 800              |
| Aluminum       | Steel         | 1/8            | 225            | 315              |
|                |               | 3/16           | 465            | 700              |
|                |               | 1/4            | 990            | 1195             |
| Steel          | Steel         | 1/8            | 305            | 410              |
|                |               | 3/16           | 610            | 870              |
|                |               | 1/4            | 1270           | 1550             |

## Dimensions

| Rivet Size        | Body Diameter |        | Recommended Hole Size |        | Drill Size | Head Diameter |        | Head Height<br>Max | Mandrel Diameter<br>Nominal |
|-------------------|---------------|--------|-----------------------|--------|------------|---------------|--------|--------------------|-----------------------------|
|                   | Min           | Max    | Min                   | Max    |            | Min           | Max    |                    |                             |
| 1/8 DOME HEAD     | 0.1225        | 0.1275 | 0.1290                | 0.1330 | #30        | 0.2380        | 0.2620 | 0.0500             | 0.0760                      |
| 1/8 LARGE FLANGE  | 0.1225        | 0.1275 | 0.1290                | 0.1330 | #30        | 0.3630        | 0.3870 | 0.0620             | 0.0760                      |
| 5/32 DOME HEAD    | 0.1530        | 0.1590 | 0.1600                | 0.1640 | #20        | 0.2970        | 0.3270 | 0.0560             | 0.0955                      |
| 3/16 DOME HEAD    | 0.1845        | 0.1905 | 0.1920                | 0.1960 | #11        | 0.3560        | 0.3940 | 0.0620             | 0.1140                      |
| 3/16 LARGE FLANGE | 0.1845        | 0.1905 | 0.1920                | 0.1960 | #11        | 0.6060        | 0.6440 | 0.1080             | 0.1140                      |
| 1/4 DOME HEAD     | 0.2470        | 0.2530 | 0.2570                | 0.2610 | F          | 0.4750        | 0.5250 | 0.0930             | 0.1490                      |

Open End Blind Rivets are especially designed to fasten things where there is access to only one side. They are an economical means of fastening anywhere when easy disassembly is not required. Large Flange rivets are especially suitable when fastening a softer material such as wood or plastic to metal. Size is given as rivet diameter by grip range (thickness of material to be fastened).



**NOW STOCKING & SERVICING  
RIVETING TOOLS  
SEE PAGES 388-389**

**CALL US WITH YOUR RIVETING NEEDS.  
WE HAVE NEARLY ANY RIVET AVAILABLE INCLUDING THE ENTIRE HUCK LINE.**

# OPEN END BLIND RIVETS

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

| Part #   | Size               | Package Quantity | Bulk Quantity |
|----------|--------------------|------------------|---------------|
| FPPA0402 | 1/8 X 0.063-0.125  | 100              | 10000         |
| FPPA0403 | 1/8 X 0.126-0.187  | 100              | 10000         |
| FPPA0404 | 1/8 X 0.126-0.250  | 100              | 10000         |
| FPPA0406 | 1/8 X 0.251-0.375  | 100              | 10000         |
| FPPA0408 | 1/8 X 0.376-0.500  | 100              | 10000         |
| FPPA0502 | 5/32 X 0.062-0.125 | 100              | 8000          |
| FPPA0504 | 5/32 X 0.126-0.250 | 100              | 8000          |
| FPPA0506 | 5/32 X 0.251-0.375 | 100              | 6000          |
| FPPA0602 | 3/16 X 0.063-0.125 | 100              | 5000          |
| FPPA0604 | 3/16 X 0.126-0.250 | 100              | 5000          |
| FPPA0606 | 3/16 X 0.251-0.375 | 100              | 5000          |
| FPPA0608 | 3/16 X 0.376-0.500 | 100              | 4000          |
| FPPA0610 | 3/16 X 0.501-0.625 | 100              | 4000          |



| Part #   | Size               | Package Quantity | Bulk Quantity |
|----------|--------------------|------------------|---------------|
| FPPA0612 | 3/16 X 0.626-0.750 | 100              | 4000          |
| FPPA0616 | 3/16 X 0.876-1.000 | 100              | 3000          |
| FPPA0804 | 1/4 X 0.126-0.250  | 100              | 2000          |
| FPPA0806 | 1/4 X 0.251-0.375  | 100              | 2000          |
| FPPA0808 | 1/4 X 0.376-0.500  | 100              | 2000          |
| FPPA0812 | 1/4 X 0.626-0.750  | 100              | 2000          |

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • BLACK ANODIZED • IMPORTED

| Part #    | Size               | Package Quantity | Bulk Quantity |
|-----------|--------------------|------------------|---------------|
| FPRAB0404 | 1/8 X 0.126-0.250  | 100              | 10000         |
| FPRAB0604 | 3/16 X 0.126-0.250 | 100              | 5000          |
| FPRAB0606 | 3/16 X 0.251-0.375 | 100              | 5000          |
| FPRAB0608 | 3/16 X 0.376-0.500 | 100              | 4000          |
| FPRAB0610 | 3/16 X 0.501-0.625 | 100              | 4000          |

## DOME HEAD • ALUMINUM RIVET ALUMINUM MANDREL • WHITE • IMPORTED

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FPPAW0402 | 1/8 X .063-.125 | 100              | 10000         |
| FPPAW0404 | 1/8 X .188-.250 | 100              | 10000         |

## LARGE FLANGE • ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA OR IMPORTED

| Part #     | Size               | Package Quantity | Bulk Quantity |
|------------|--------------------|------------------|---------------|
| FPRALF0404 | 1/8 X 0.126-0.250  | 100              | 10000         |
| FPRALF0606 | 3/16 X 0.251-0.375 | 100              | 5000          |
| FPRALF0608 | 3/16 X 0.376-0.500 | 100              | 5000          |

## DOME HEAD • STEEL RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #   | Size               | Package Quantity | Bulk Quantity |
|----------|--------------------|------------------|---------------|
| FPRS0402 | 1/8 X 0.063-0.125  | 100              | 10000         |
| FPRS0403 | 1/8 X 0.126-0.187  | 100              | 10000         |
| FPRS0404 | 1/8 X 0.188-0.250  | 100              | 10000         |
| FPRS0406 | 1/8 X 0.251-0.375  | 100              | 10000         |
| FPRS0408 | 1/8 X 0.376-0.500  | 100              | 10000         |
| FPRS0410 | 1/8 X 0.501-0.625  | 100              | 10000         |
| FPRS0602 | 3/16 X 0.063-0.125 | 100              | 5000          |
| FPRS0604 | 3/16 X 0.126-0.250 | 100              | 5000          |

| Part #   | Size               | Package Quantity | Bulk Quantity |
|----------|--------------------|------------------|---------------|
| FPRS0606 | 3/16 X 0.251-0.375 | 100              | 5000          |
| FPRS0608 | 3/16 X 0.376-0.500 | 100              | 4000          |
| FPRS0610 | 3/16 X 0.501-0.625 | 100              | 4000          |
| FPRS0806 | 1/4 X 0.251-0.375  | 100              | 2000          |
| FPRS0808 | 1/4 X 0.376-0.500  | 100              | 2000          |
| FPRS0810 | 1/4 X 0.501-0.625  | 100              | 2000          |
| FPRS0812 | 1/4 X 0.626-0.750  | 100              | 2000          |

# OPEN END BLIND RIVETS

## LARGE FLANGE • STEEL RIVET STEEL MANDREL • IMPORTED

| Part #     | Size               | Package Quantity | Bulk Quantity |
|------------|--------------------|------------------|---------------|
| FPRSLF0606 | 3/16 X 0.313-0.375 | 100              | 3000          |
| FPRSLF0608 | 3/16 X 0.376-0.500 | 100              | 3000          |

| Part #     | Size               | Package Quantity | Bulk Quantity |
|------------|--------------------|------------------|---------------|
| FPRSLF0610 | 3/16 X 0.501-0.625 | 100              | 2000          |
| FPRSLF0810 | 1/4 X 0.500-0.625  | 100              | 1000          |

## DOME HEAD • ALUMINUM RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #    | Size               | Package Quantity | Bulk Quantity |
|-----------|--------------------|------------------|---------------|
| FPRSA0402 | 1/8 X 0.032-0.125  | 100              | 10000         |
| FPRSA0403 | 1/8 X 0.126-0.187  | 100              | 10000         |
| FPRSA0404 | 1/8 X 0.188-0.250  | 100              | 10000         |
| FPRSA0606 | 3/16 X 0.313-0.375 | 100              | 5000          |
| FPRSA0608 | 3/16 X 0.376-0.500 | 100              | 4000          |

| Part #    | Size               | Package Quantity | Bulk Quantity |
|-----------|--------------------|------------------|---------------|
| FPRSA0610 | 3/16 X 0.501-0.625 | 100              | 4000          |
| FPRSA0616 | 3/16 X 0.876-1.000 | 100              | 3000          |
| FPRSA0806 | 1/4 X 0.251-0.375  | 100              | 2000          |
| FPRSA0808 | 1/4 X 0.376-0.500  | 100              | 2000          |

## LARGE FLANGE • ALUMINUM RIVET STEEL MANDREL • IMPORTED

| Part #      | Size               | Package Quantity | Bulk Quantity |
|-------------|--------------------|------------------|---------------|
| FPRSALF0606 | 3/16 X 0.251-0.375 | 100              | 5000          |

## DOME HEAD • STAINLESS STEEL RIVET STAINLESS STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #  | Size               | Package Quantity | Bulk Quantity |
|---------|--------------------|------------------|---------------|
| FSSPR42 | 1/8 X 0.063-0.125  | 100              | 10000         |
| FSSPR44 | 1/8 X 0.126-0.250  | 100              | 10000         |
| FSSPR46 | 1/8 X 0.251-0.375  | 100              | 10000         |
| FSSPR48 | 1/8 X 0.376-0.500  | 100              | 10000         |
| FSSPR52 | 5/32 X 0.126-0.250 | 100              | 10000         |
| FSSPR62 | 3/16 X 0.063-0.125 | 100              | 5000          |
| FSSPR64 | 3/16 X 0.126-0.250 | 100              | 5000          |
| FSSPR66 | 3/16 X 0.251-0.375 | 100              | 4000          |
| FSSPR68 | 3/16 X 0.376-0.500 | 100              | 4000          |
| FSSPR86 | 1/4 X 0.251-0.375  | 100              | -             |
| FSSPR88 | 1/4 X 0.376-0.500  | 100              | -             |

## LARGE FLANGE • STAINLESS STEEL RIVET STAINLESS STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #    | Size               | Package Quantity | Bulk Quantity |
|-----------|--------------------|------------------|---------------|
| FSSPRLF66 | 3/16 X 0.251-0.375 | 100              | 3000          |

## MULTI GRIP • DOME HEAD • ALUMINUM RIVET STEEL MANDREL • MADE IN USA OR IMPORTED

| Part #       | Size                            | Package Quantity | Bulk Quantity |
|--------------|---------------------------------|------------------|---------------|
| FPRMGA0604   | 3/16 X 0.062-0.250              | 100              | 4000          |
| FPRMGA0607   | 3/16 X 0.187-0.437              | 100              | 4000          |
| FPRMGSAL0608 | 3/16 X 0.251-0.500 LARGE FLANGE | 100              | 3000          |

# TRIFOLD BLIND RIVETS & KLIK-LOK STRUCTURAL RIVETS

## TRIFOLD BLIND RIVETS

### ALUMINUM • IMPORTED

Trifold Blind Rivets are designed to be used with soft brittle or thin materials. The trifold formation on the blind side applies the rivets clamping force over an increased area.



| Part #   | Size             | Package Quantity | Bulk Quantity |
|----------|------------------|------------------|---------------|
| FPRB0619 | 3/16 X .039-.157 | 100              | 5000          |
| FPRB0630 | 3/16 X .157-.472 | 100              | 5000          |
| FPRB0640 | 3/16 X .157-.625 | 100              | 5000          |

## KLIK-LOK STRUCTURAL RIVETS

### STEEL RIVET STEEL MANDREL • MADE IN USA

#### Dimensions

| Size | Hole Size |       | Head OD | Head Height | Shear Strength | Tensile Strength |
|------|-----------|-------|---------|-------------|----------------|------------------|
|      | MIN       | MAX   | MAX     | MAX         |                |                  |
| 3/16 | 0.191     | 0.201 | 0.385   | 0.085       | 1450           | 1200             |
| 1/4  | 0.261     | 0.272 | 0.530   | 0.120       | 2750           | 2200             |

Klik-Lok Structural Rivets are a hole filling multigrip rivet and the rivet stem is mechanically locked into place. Since it is hole filling hole sizes do not have to be as exact and since it is multigrip it can fasten a wider range of material thicknesses.

| Part #  | Size             | Package Quantity |
|---------|------------------|------------------|
| FSRS64  | 3/16 X .062-.270 | 100              |
| FSRS67  | 3/16 X .062-.437 | 100              |
| FSRS810 | 1/4 X .080-.625  | 100              |
| FSRS86  | 1/4 X .080-.375  | 100              |

### ALUMINUM RIVET ALUMINUM MANDREL • MADE IN USA

#### Dimensions

| Size | Hole Size |       | Head OD | Head Height | Shear Strength | Tensile Strength |
|------|-----------|-------|---------|-------------|----------------|------------------|
|      | MIN       | MAX   | MAX     | MAX         |                |                  |
| 3/16 | 0.191     | 0.201 | 0.385   | 0.085       | 700            | 580              |
| 1/4  | 0.261     | 0.272 | 0.530   | 0.120       | 1300           | 950              |

Klik-Lok Structural Rivets are a hole filling multigrip rivet and the rivet stem is mechanically locked into place. Since it is hole filling hole sizes do not have to be as exact and since it is multigrip it can fasten a wider range of material thicknesses.

| Part #  | Size             | Package Quantity |
|---------|------------------|------------------|
| FSRS64  | 3/16 X .062-.270 | 100              |
| FSRS67  | 3/16 X .062-.437 | 100              |
| FSRS810 | 1/4 X .080-.625  | 100              |
| FSRS86  | 1/4 X .080-.375  | 100              |

# RIVET NUTS & SEMI TUBULAR RIVETS

## RIVET NUTS

### TECHNICAL INFORMATION

#### Dimensions

| Size | Drill Size | Head OD | Head Height | Body Diameter |
|------|------------|---------|-------------|---------------|
|      |            |         |             | MAX           |
| #10  | 19/64      | 0.415   | 0.030       | 0.296         |
| 1/4  | 25/64      | 0.500   | 0.030       | 0.390         |
| 5/16 | 17/32      | 0.685   | 0.035       | 0.530         |
| 3/8  | 17/32      | 0.685   | 0.035       | 0.530         |

### LOW CARBON STEEL • ZINC PLATED • IMPORTED

| Part #     | Size                  | Package Quantity | Bulk Quantity |
|------------|-----------------------|------------------|---------------|
| AV11312    | 10-24 X 0.020-0.130   | 50               | 2500          |
| AV12978    | 10-32 X 0.020-0.130   | 50               | 2500          |
| FRN1032225 | 10-32 X 0.130-0.225   | 100              | 5000          |
| FRN420165  | 1/4-20 X 0.027-0.165  | 100              | 5000          |
| FRN420260  | 1/4-20 X 0.165-0.260  | 100              | 4000          |
| AV11314    | 5/16-18 X 0.040-0.200 | 25               | 1250          |
| FRN518312  | 5/16-18 X 0.150-0.312 | 100              | 1000          |
| FRN616312  | 3/8-16 X 0.150-0.312  | 100              | 1000          |



Rivet Nuts are designed to install threads in sheet or plate metal where a drilled and tapped thread is not an option.

### 302 STAINLESS STEEL • IMPORTED

| Part #       | Size                  | Package Quantity | Bulk Quantity |
|--------------|-----------------------|------------------|---------------|
| FSSRN1032130 | 10-32 X 0.020-0.130   | 100              | 1000          |
| FSSRN420165  | 1/4-20 X 0.027-0.165  | 100              | 1000          |
| FSSRN420260  | 1/4-20 X 0.165-0.260  | 100              | 1000          |
| FSSRN518312  | 5/16-18 X 0.150-0.312 | 100              | 1000          |
| FSSRN616312  | 3/8-16 X 0.150-0.312  | 100              | 1000          |

## SEMI TUBULAR RIVETS

We have semi tubular rivets available. Please call us for pricing and availability.



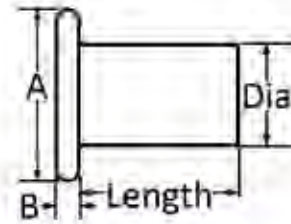
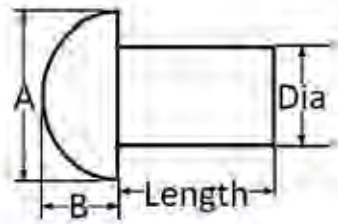
**NOW STOCKING & SERVICING  
RIVET NUT TOOLS  
SEE PAGES 390**



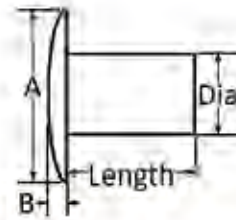
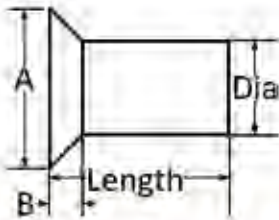
# SOLID RIVETS

## TECHNICAL INFORMATION

### Dimensions



| Rivet Size | Round (Button) Head |       |       |       | Flat Head |       |       |       |
|------------|---------------------|-------|-------|-------|-----------|-------|-------|-------|
|            | A                   |       | B     |       | A         |       | B     |       |
|            | MAX                 | MIN   | MAX   | MIN   | MAX       | MIN   | MAX   | MIN   |
| 3/16       | 0.348               | 0.322 | 0.147 | 0.133 | 0.387     | 0.361 | 0.069 | 0.055 |
| 7/32       | 0.405               | 0.379 | 0.172 | 0.158 | 0.453     | 0.427 | 0.080 | 0.065 |
| 1/4        | 0.460               | 0.430 | 0.196 | 0.180 | 0.515     | 0.485 | 0.091 | 0.075 |
| 5/16       | 0.572               | 0.538 | 0.243 | 0.225 | 0.641     | 0.607 | 0.113 | 0.095 |
| 3/8        | 0.684               | 0.646 | 0.291 | 0.271 | 0.769     | 0.731 | 0.135 | 0.115 |
| 1/2        | 0.844               | 0.938 | 0.375 | 0.406 | 0.844     | 0.938 | 0.281 | 0.250 |
| 9/16       | 0.954               | 1.044 | 0.422 | 0.453 | 0.954     | 1.044 | 0.313 | 0.281 |



| Rivet Size | Countersunk Head |       |           | Truss Head |       |       |       |
|------------|------------------|-------|-----------|------------|-------|-------|-------|
|            | A                |       | B         | A          |       | B     |       |
|            | MAX              | MIN   | REFERENCE | MAX        | MIN   | MAX   | MIN   |
| 1/8        | 0.235            | 0.217 | 0.053     | 0.297      | 0.277 | 0.048 | 0.036 |
| 3/16       | 0.351            | 0.326 | 0.079     | 0.442      | 0.422 | 0.069 | 0.055 |
| 1/4        | 0.469            | 0.437 | 0.106     | 0.590      | 0.560 | 0.091 | 0.075 |
| 5/16       | 0.588            | 0.547 | 0.133     | 0.732      | 0.702 | 0.113 | 0.095 |
| 3/8        | 0.704            | 0.656 | 0.159     | 0.878      | 0.848 | 0.135 | 0.115 |

# SOLID RIVETS

## ROUND (BUTTON) HEAD • PLAIN FINISH • MADE IN USA

| Part #   | Size         | Package Quantity |
|----------|--------------|------------------|
| FRBH308  | 3/16 X 1/2   | 100              |
| FRBH312  | 3/16 X 3/4   | 100              |
| FRBH320  | 3/16 X 1 1/4 | 100              |
| FRBH324  | 3/16 X 1 1/2 | 100              |
| FRBH1428 | 7/32 X 7/16  | 100              |
| FRBH408  | 1/4 X 1/2    | 100              |
| FRBH410  | 1/4 X 5/8    | 100              |
| FRBH412  | 1/4 X 3/4    | 100              |
| FRBH416  | 1/4 X 1      | 100              |
| FRBH424  | 1/4 X 1 1/2  | 100              |
| FRBH432  | 1/4 X 2      | 100              |

| Part #  | Size         | Package Quantity |
|---------|--------------|------------------|
| FRBH440 | 1/4 X 2 1/2  | 100              |
| FRBH456 | 1/4 X 3 1/2  | 100              |
| FRBH512 | 5/16 X 3/4   | 100              |
| FRBH516 | 5/16 X 1     | 100              |
| FRBH520 | 5/16 X 1 1/4 | 100              |
| FRBH612 | 3/8 X 3/4    | 100              |
| FRBH616 | 3/8 X 1      | 100              |
| FRBH624 | 3/8 X 1 1/2  | 100              |
| FRBH640 | 3/8 X 2 1/2  | 50               |
| FRBH648 | 3/8 X 3      | 50               |
| FRBH924 | 9/16 X 1 1/2 | 25               |

## FLAT HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size        | Package Quantity |
|---------|-------------|------------------|
| FRFH312 | 3/16 X 3/4  | 100              |
| FRFH406 | 1/4 X 3/8   | 100              |
| FRFH412 | 1/4 X 3/4   | 100              |
| FRFH416 | 1/4 X 1     | 100              |
| FRFH420 | 1/4 X 1 1/4 | 100              |
| FRFH432 | 1/4 X 2     | 100              |
| FRFH444 | 1/4 X 2 3/4 | 100              |
| FRFH508 | 5/16 X 1/2  | 100              |
| FRFH510 | 5/16 X 5/8  | 100              |
| FRFH512 | 5/16 X 3/4  | 100              |

| Part #  | Size         | Package Quantity |
|---------|--------------|------------------|
| FRFH520 | 5/16 X 1 1/4 | 100              |
| FRFH524 | 5/16 X 1 1/2 | 100              |
| FRFH606 | 3/8 X 3/8    | 100              |
| FRFH608 | 3/8 X 1/2    | 100              |
| FRFH612 | 3/8 X 3/4    | 100              |
| FRFH616 | 3/8 X 1      | 100              |
| FRFH620 | 3/8 X 1 1/4  | 100              |
| FRFH624 | 3/8 X 1 1/2  | 100              |
| FRFH632 | 3/8 X 2      | 100              |
| FRFH810 | 1/2 X 5/8    | 50               |

## COUNTERSUNK HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size      | Package Quantity |
|---------|-----------|------------------|
| FRCS410 | 1/4 X 5/8 | 100              |
| FRCS412 | 1/4 X 3/4 | 100              |
| FRCS416 | 1/4 X 1   | 100              |

| Part #  | Size        | Package Quantity |
|---------|-------------|------------------|
| FRCS612 | 3/8 X 3/4   | 100              |
| FRCS656 | 3/8 X 3 1/2 | 50               |

## TRUSS HEAD • PLAIN FINISH • MADE IN USA

| Part #  | Size        | Package Quantity |
|---------|-------------|------------------|
| FRTH204 | 1/8 X 1/4   | 100              |
| FRTH208 | 1/8 X 1/2   | 100              |
| FRTH306 | 3/16 X 3/8  | 100              |
| FRTH308 | 3/16 X 1/2  | 100              |
| FRTH312 | 3/16 X 3/4  | 100              |
| FRTH416 | 1/4 X 1     | 100              |
| FRTH432 | 1/4 X 2     | 100              |
| FRTH440 | 1/4 X 2 1/2 | 100              |

| Part #  | Size        | Package Quantity |
|---------|-------------|------------------|
| FRTH444 | 1/4 X 2 3/4 | 100              |
| FRTH448 | 1/4 X 3     | 100              |
| FRTH456 | 1/4 X 3 1/2 | 100              |
| FRTH512 | 5/16 X 3/4  | 100              |
| FRTH516 | 5/16 X 1    | 100              |
| FRTH618 | 3/8 X 1 1/8 | 100              |
| FRTH620 | 3/8 X 1 1/4 | 100              |

# SICKLE BAR RIVETS

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## ROUND (OVAL) HEAD • PLAIN FINISH • MADE IN USA

| Part #   | Size          | Package Quantity |
|----------|---------------|------------------|
| FROH0509 | 5 1/2 X 9/16  | 2#               |
| FROH0516 | 5 1/2 X 1     | 2#               |
| FROH0520 | 5 1/2 X 1 1/4 | 2#               |

## COUNTERSUNK HEAD • PLAIN FINISH • MADE IN USA

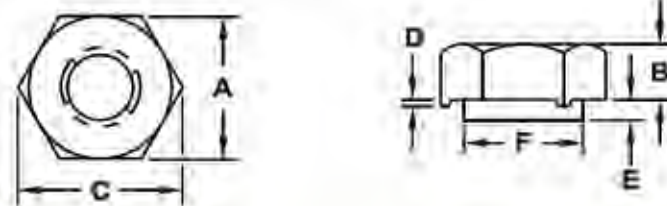
| Part #   | Size          | Package Quantity |
|----------|---------------|------------------|
| FRCS0508 | 5 1/2 X 1/2   | 2#               |
| FRCS0509 | 5 1/2 X 9/16  | 2#               |
| FRCS0514 | 5 1/2 X 7/8   | 2#               |
| FRCS0515 | 5 1/2 X 15/16 | 2#               |
| FRCS0516 | 5 1/2 X 1     | 2#               |



# HEX WELD NUTS

## TECHNICAL INFORMATION

### Dimensions



| Size | Pilot | A<br>Width Across<br>the Flats | B<br>Thickness |       | D<br>Projection<br>Height<br>+/- .003 | E<br>Pilot Height<br>+/- .005 | F<br>Pilot Diameter<br>+.000/- .012 |
|------|-------|--------------------------------|----------------|-------|---------------------------------------|-------------------------------|-------------------------------------|
|      |       |                                | MAX            | MIN   |                                       |                               |                                     |
| #10  | SHORT | 1/2                            | 0.197          | 0.177 | 0.025                                 | 0.040                         | 0.406                               |
| 1/4  | LONG  | 1/2                            | 0.197          | 0.177 | 0.040                                 | 0.085                         | 0.406                               |
| 5/16 | LONG  | 9/16                           | 0.229          | 0.209 | 0.040                                 | 0.085                         | 0.469                               |
| 3/8  | LONG  | 5/8                            | 0.260          | 0.240 | 0.040                                 | 0.085                         | 0.531                               |
| 7/16 | LONG  | 3/4                            | 0.322          | 0.302 | 0.040                                 | 0.085                         | 0.656                               |
| 1/2  | LONG  | 13/16                          | 0.385          | 0.365 | 0.040                                 | 0.085                         | 0.719                               |
| 5/8  | LONG  | 15/16                          | 0.448          | 0.428 | 0.040                                 | 0.085                         | 0.781                               |

## PLAIN FINISH • MADE IN USA OR CANADA

Hex Weld Nuts make it easy to weld a nut to the parent material. The three uniform projections give reliable contact with the surface and the pilot accurately locates the threads in the pilot hole.

| Part #   | Size    | Package Quantity | Bulk Quantity |
|----------|---------|------------------|---------------|
| FHWNF010 | 10-32   | 100              | 2000          |
| FHWNL04  | 1/4-20  | 100              | 2000          |
| FHWNL05  | 5/16-18 | 100              | 2000          |
| FHWNL06  | 3/8-16  | 100              | 2000          |
| FHWNL07  | 7/16-14 | 50               | 1000          |
| FHWNL08  | 1/2-13  | 50               | 1000          |
| FHWNL10  | 5/8-11  | 25               | 500           |

## STAINLESS STEEL • MADE IN USA

| Part #   | Size     | Package Quantity | Bulk Quantity |
|----------|----------|------------------|---------------|
| FSSHWN05 | 5/16-18* | 100              | 2000          |

\*Short Pilot. Pilot Height is 0.040 instead of 0.085.

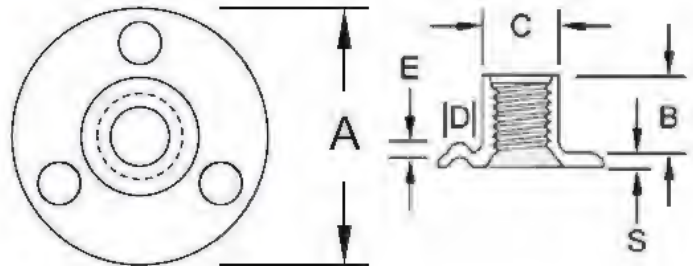
# ROUND T & DOUBLE TAB SPOT-WELD NUTS (NO PROJECTIONS)

## ROUND SPOT-WELD T NUTS (NO PROJECTIONS)

### TECHNICAL INFORMATION

#### Dimensions

| Size | A<br>Flange Diameter | S<br>Flange Thickness | B<br>Barrel Length | C<br>Barrel Diameter |
|------|----------------------|-----------------------|--------------------|----------------------|
|      | +/- .015             | +/- .015              | +/- .015           | +/- .015             |
| #10  | 0.750                | 0.040                 | 0.281              | 0.243                |
| 1/4  | 0.750                | 0.047                 | 0.312              | 0.305                |
| 5/16 | 0.875                | 0.060                 | 0.375              | 0.375                |
| 3/8  | 1.000                | 0.063                 | 0.438              | 0.440                |



### PLAIN FINISH • MADE IN USA

Round Spot-weld T Nuts are a versatile weld nut that can be used in FLush mount or through hole applications.

| Part #    | Size    | Package Quantity | Bulk Quantity |
|-----------|---------|------------------|---------------|
| FRSTN010* | 10-24   | 100              | -             |
| FRSTN04   | 1/4-20  | 100              | 2000          |
| FRSTN05   | 5/16-18 | 100              | 2000          |
| FRSTN06   | 3/8-16  | 100              | 1000          |

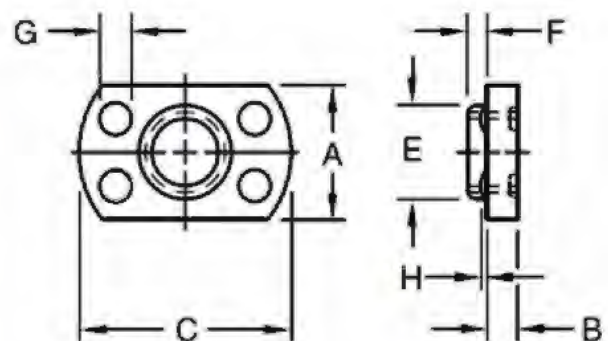
\*Zinc Plated

## DOUBLE TAB SPOT-WELD NUTS (NO PROJECTIONS)

### TECHNICAL INFORMATION

#### Dimensions

| Size | A<br>Width | B<br>Thick-ness | C<br>Length | E<br>Pilot Diameter | F<br>Pilot Height |
|------|------------|-----------------|-------------|---------------------|-------------------|
|      | +/- .015   | +/- .003        | +/- .015    | +/- .010            |                   |
| 1/4  | 0.443      | 0.094           | 1.000       | 0.297               | 0.050             |
| 5/16 | 0.635      | 0.142           | 1.500       | 0.359               | 0.080             |
| 3/8  | 0.635      | 0.142           | 1.500       | 0.438               | 0.090             |



### PLAIN FINISH • MADE IN USA OR CANADA

Double Tab Spot-weld Nuts are designed for applications requiring additional strength where there is tension against the weld. The pilot speeds location and they can be used to bridge corners or recessed areas.

| Part # | Size    | Package Quantity | Bulk Quantity |
|--------|---------|------------------|---------------|
| FTWN04 | 1/4-20  | 100              | 2000          |
| FTWN05 | 5/16-18 | 100              | 1000          |
| FTWN06 | 3/8-16  | 100              | 1000          |

# SQUARE WELD NUTS & HEX WELD LOCK NUTS

## SQUARE WELD NUTS

### TECHNICAL INFORMATION

#### Dimensions

| Size | Width Across Flats | Thickness | Pilot Height | Pilot Diameter |
|------|--------------------|-----------|--------------|----------------|
|      |                    | +/- .008  |              |                |
| 1/2  | 0.813              | 0.375     | 0.094        | 0.719          |
| 5/8  | 0.875              | 0.437     | 0.094        | 0.781          |



#### PLAIN FINISH • MADE IN USA

Square Weld Nuts were long a favorite weld nut. They feature four projections to ensure a strong reliable weld and a pilot for easy location.

| Part # | Size   | Package Quantity | Bulk Quantity |
|--------|--------|------------------|---------------|
| FSWN08 | 1/2-13 | 50               | 1000          |
| FSWN10 | 5/8-11 | 25               | 500           |

## HEX WELD LOCK NUTS

#### PLAIN FINISH • MADE IN USA

| Part # | Size    | Package Quantity | Bulk Quantity |
|--------|---------|------------------|---------------|
| FHWN04 | 1/4-20  | 100              | 2000          |
| FHWN05 | 5/16-18 | 100              | 2000          |
| FHWN06 | 3/8-16  | 100              | 2000          |
| FHWN08 | 1/2-13  | 50               | 1000          |
| FHWN10 | 5/8-11  | 25               | 500           |



Hex Weld Lock Nuts have the same features and dimensions as hex weld nuts with the added feature of a prevailing torque lock.

# THREE PROJECTION WELD SCREW

## THREE PROJECTION WELD SCREW

### TECHNICAL INFORMATION

#### Dimensions

| Size | A<br>Head Diameter | H<br>Head Height | P<br>Projection Diameter | F<br>Projection Height |
|------|--------------------|------------------|--------------------------|------------------------|
| 1/4  | .575/.550          | .083/.073        | .105/.095                | .042/.038              |
| 5/16 | .755/.725          | .099/.089        | .125/.115                | .047/.043              |
| 3/8  | .880/.850          | .114/.104        | .135/.125                | .052/.048              |
| 1/2  | 1.005/.975         | .146/.136        | .155/.145                | .062/.058              |

### PROJECTIONS UNDER HEAD • PLAIN FINISH • MADE IN USA

Three Projection Weld Screws with projections under the head are intended for through hole applications. The projections are of the exact size to ensure optimum welds and through-hole use allows self locating. Length is measured under the head to the end of the screw.

| Part #    | Size            | Package Quantity | Bulk Quantity |
|-----------|-----------------|------------------|---------------|
| FPWS30505 | 5/16-18 X 5/8   | 100              | 1000          |
| FPWS30506 | 5/16-18 X 3/4   | 100              | 1000          |
| FPWS0508  | 5/16-18 X 1*    | 100              | 1000          |
| FPWS30512 | 5/16-18 X 1 1/2 | 100              | 1000          |
| FPWS30608 | 3/8-16 X 1      | 100              | 1000          |
| FPWS30612 | 3/8-16 X 1 1/2  | 100              | 500           |
| FPWS30614 | 3/8-16 X 1 3/4  | 100              | 500           |
| FPWS30808 | 1/2-13 X 1      | 50               | 500           |
| FPWS30810 | 1/2-13 X 1 1/4  | 50               | 500           |
| FPWS30812 | 1/2-13 X 1 1/2  | 50               | 300           |

\*This size is stocked in ring projection weld screws. The ring projection is also under the head for through-hole applications and features some extra weld strength as well as sealing off the hole.

# EXTERNAL RETAINING RINGS

## PHOSPHATE COATED SPRING STEEL • MADE IN USA



External Retaining Rings are installed into a groove on a shaft to create a shoulder that retains an assembly on the shaft. The size is given as the shaft size the ring is used on. The free ID is the ring ID before it is installed.

| Part # | Size    | Free ID | Thickness | Discount Quantity |
|--------|---------|---------|-----------|-------------------|
| FRRE04 | 1/4     | 0.225   | .025      | 100               |
| FRRE05 | 5/16    | 0.281   | .025      | 100               |
| FRRE06 | 3/8     | 0.338   | .025      | 100               |
| FRRE07 | 7/16    | 0.395   | .025      | 100               |
| FRRE08 | 1/2     | 0.461   | .035      | 100               |
| FRRE09 | 9/16    | 0.521   | .035      | 100               |
| FRRE10 | 5/8     | 0.579   | .035      | 100               |
| FRRE11 | 11/16   | 0.635   | .042      | 100               |
| FRRE12 | 3/4     | 0.693   | .042      | 100               |
| FRRE13 | 13/16   | 0.751   | .042      | 100               |
| FRRE14 | 7/8     | 0.810   | .042      | 100               |
| FRRE15 | 15/16   | 0.867   | .042      | 100               |
| FRRE16 | 1       | 0.925   | .042      | 100               |
| FRRE17 | 1 1/16  | 0.982   | .050      | 100               |
| FRRE18 | 1 1/8   | 1.041   | .050      | 100               |
| FRRE19 | 1 3/16  | 1.098   | .050      | 100               |
| FRRE20 | 1 1/4   | 1.156   | .050      | 100               |
| FRRE21 | 1 5/16  | 1.214   | .050      | 100               |
| FRRE22 | 1 3/8   | 1.272   | .050      | 100               |
| FRRE23 | 1 7/16  | 1.333   | .050      | 100               |
| FRRE24 | 1 1/2   | 1.387   | .050      | 100               |
| FRRE25 | 1 9/16  | 1.446   | .062      | 100               |
| FRRE26 | 1 5/8   | 1.503   | .062      | 100               |
| FRRE27 | 1 11/16 | 1.560   | .062      | 100               |
| FRRE28 | 1 3/4   | 1.618   | .062      | 100               |
| FRRE29 | 1 13/16 | 1.637   | .062      | 100               |
| FRRE30 | 1 7/8   | 1.735   | .062      | 100               |
| FRRE32 | 2       | 1.850   | .062      | 100               |
| FRRE36 | 2 1/4   | 2.081   | .078      | 100               |
| FRRE38 | 2 3/8   | 2.197   | .078      | 100               |
| FRRE40 | 2 1/2   | 2.313   | .078      | 100               |
| FRRE44 | 2 3/4   | 2.543   | .093      | 100               |
| FRRE48 | 3       | 2.775   | .093      | 100               |

# INTERNAL RETAINING RINGS

## PHOSPHATE COATED SPRING STEEL • MADE IN USA



Internal Retaining Rings are installed into a groove in a housing to create a shoulder that retains an assembly in the housing. The size is given as the housing ID the ring is used on. The free OD is the ring OD before it is installed.

| Part # | Size    | Free OD | Thickness | Discount Quantity |
|--------|---------|---------|-----------|-------------------|
| FRR104 | 1/4     | 0.280   | .015      | 100               |
| FRR105 | 5/16    | 0.346   | .015      | 100               |
| FRR106 | 3/8     | 0.415   | .025      | 100               |
| FRR107 | 7/16    | 0.482   | .025      | 100               |
| FRR108 | 1/2     | 0.548   | .035      | 100               |
| FRR109 | 9/16    | 0.620   | .035      | 100               |
| FRR110 | 5/8     | 0.694   | .035      | 100               |
| FRR111 | 11/16   | 0.763   | .035      | 100               |
| FRR112 | 3/4     | 0.831   | .035      | 100               |
| FRR113 | 13/16   | 0.901   | .042      | 100               |
| FRR114 | 7/8     | 0.971   | .042      | 100               |
| FRR115 | 15/16   | 1.041   | .042      | 100               |
| FRR116 | 1       | 1.111   | .042      | 100               |
| FRR117 | 1 1/16  | 1.180   | .050      | 100               |
| FRR118 | 1 1/8   | 1.249   | .050      | 100               |
| FRR119 | 1 3/16  | 1.319   | .050      | 100               |
| FRR120 | 1 1/4   | 1.388   | .050      | 100               |
| FRR121 | 1 5/16  | 1.456   | .050      | 100               |
| FRR122 | 1 3/8   | 1.526   | .050      | 100               |
| FRR123 | 1 7/16  | 1.596   | .050      | 100               |
| FRR124 | 1 1/2   | 1.660   | .050      | 100               |
| FRR125 | 1 9/16  | 1.734   | .062      | 100               |
| FRR126 | 1 5/8   | 1.804   | .062      | 100               |
| FRR127 | 1 11/16 | 1.874   | .062      | 100               |
| FRR128 | 1 3/4   | 1.942   | .062      | 100               |
| FRR129 | 1 13/16 | 2.012   | .062      | 100               |
| FRR130 | 1 7/8   | 2.072   | .062      | 100               |
| FRR131 | 1 15/16 | 2.141   | .062      | 100               |
| FRR132 | 2       | 2.210   | .062      | 100               |
| FRR134 | 2 1/8   | 2.350   | .078      | 100               |
| FRR135 | 2 3/16  | 2.415   | .078      | 100               |
| FRR136 | 2 1/4   | 2.490   | .078      | 100               |
| FRR138 | 2 3/8   | 2.630   | .078      | 100               |
| FRR140 | 2 1/2   | 2.775   | .078      | 100               |
| FRR144 | 2 3/4   | 3.050   | .093      | 100               |
| FRR148 | 3       | 3.325   | .093      | 100               |
| FRR152 | 3 1/4   | 3.623   | .109      | 100               |

# E-CLIPS

**PHOSPHATE COATED • SPRING STEEL • MADE IN USA**



E-Clips are installed into a groove on a shaft to create a shoulder that retains an assembly on the shaft. The size is given as the shaft size the ring is used on. The free ID is the ring ID before it is installed.

| Part #  | Size  | Free ID | Thickness | Discount Quantity |
|---------|-------|---------|-----------|-------------------|
| FEC0175 | 7/64  | 0.076   | .015      | 100               |
| FEC0275 | 11/64 | 0.125   | .025      | 100               |
| FEC03   | 3/16  | 0.145   | .025      | 100               |
| FEC035  | 7/32  | 0.185   | .025      | 100               |
| FEC04   | 1/4   | 0.207   | .025      | 100               |
| FEC05   | 5/16  | 0.243   | .025      | 100               |
| FEC06   | 3/8   | 0.300   | .035      | 100               |
| FEC07   | 7/16  | 0.337   | .035      | 100               |
| FEC08   | 1/2   | 0.392   | .042      | 100               |
| FEC10   | 5/8   | 0.480   | .042      | 100               |
| FEC12   | 3/4   | 0.574   | .050      | 100               |
| FEC12S  | 3/4*  | 0.574   | .050      | 100               |
| FEC14   | 7/8   | 0.668   | .050      | 100               |
| FEC16   | 1     | 0.822   | .050      | 100               |
| FEC22   | 1 3/8 | 1.213   | .062      | 100               |

\*This ring has a smaller OD of 1" compared to 1 1/8 on the regular size.

# THREADED WOOD INSERTS, PUSHNUT RETAINERS, PUSH-ON RETAINERS & CAP TYPE PUSH-ON RETAINERS

## THREADED WOOD INSERTS

**FLANGED • ZINC • DIE CAST • IMPORTED**



Threaded wood inserts provide an easy way to put threads into wood. Simply drill a hole and drive the insert into the wood using its internal hex drive. They are manufactured from die cast zinc. Size is given as the internal thread by the over all length. The hole size that is given is the hole size you drill in the wood to place the insert.

| Part #    | Size           | Hole Size | Hex Drive | Package Quantity |
|-----------|----------------|-----------|-----------|------------------|
| FTIHF1011 | 10-24 X11MM    | 7MM       | M5        | 100              |
| FTIHF413  | 1/4-20 X 13MM  | 9MM       | M6        | 100              |
| FTIHF513  | 5/16-18 X 13MM | 11MM      | M8        | 100              |

## PUSHNUT RETAINERS

**ZINC OR PHOSPHATE & OIL COATED • MADE IN USA**

| Part #   | Size | OD    | Package Quantity |
|----------|------|-------|------------------|
| AV10085  | #8   | 3/8   | 100              |
| AV16852  | #10  | 7/16  | 100              |
| AV10086  | 1/4  | 1/2   | 100              |
| AV10087  | 5/16 | 5/8   | 100              |
| AV09297  | 3/8  | 25/32 | 100              |
| AV09299B | 1/2  | 15/16 | 100              |



Pushnut Retainers provide a quick, easy way to hold a threaded fastener in place.

## PUSH-ON RETAINERS

**ZINC PLATED • IMPORTED**

| Part #   | Size | OD  | Package Quantity |
|----------|------|-----|------------------|
| AV10374B | 3/8  | 3/4 | 100              |



Push-On Retainers are designed for non threaded applications.

## CAP TYPE PUSH-ON RETAINERS

**ZINC PLATED • MADE IN USA**

| Part #  | Size | Washer OD | Cap Height | Package Quantity |
|---------|------|-----------|------------|------------------|
| AV14170 | 1/4  | 1/2       | 0.205      | 100              |
| AV08719 | 3/8* | 11/16     | 0.419      | 100              |
| AV14174 | 5/8  | 1 3/16    | 0.693      | 50               |

\*Nickel Plated



Cap Type Push-On Retainers give a finished appearance to an assembly.



# ADJUSTABLE YOKE ENDS, SPRINGS, NYLON PUSH-IN RETAINERS & RUBBER GROMMETS

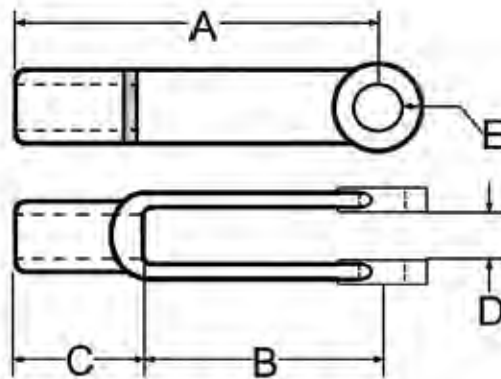
## ADJUSTABLE YOKE ENDS

**FINE THREAD • ZINC PLATED • MADE IN USA**

### Dimensions

| Size   | A     | B     | C     | D    | E   |
|--------|-------|-------|-------|------|-----|
| 3/8-24 | 2 1/2 | 1 5/8 | 7/8   | 7/16 | 3/8 |
| 1/2-20 | 3     | 1 7/8 | 1 1/8 | 9/16 | 1/2 |

| Part #         | Size   |
|----------------|--------|
| EQBPB27084AZ   | 3/8-24 |
| EQBPB27086ANFZ | 1/2-20 |



## SPRINGS



We have many types and sizes of springs available for larger quantity needs. Let us know what spring you need and we will be happy to quote you!

## NYLON PUSH-IN RETAINERS

**BLACK • MADE IN USA**

| Part #  | Stem Diameter | Stem Length | Head OD | Package Quantity |
|---------|---------------|-------------|---------|------------------|
| AV15414 | 5/16          | 13/16       | 11/16   | 100              |



## RUBBER GROMMETS

**SBR MATERIAL • DUROMETER HARDNESS 60 • MADE IN USA OR IMPORTED**



| Part #  | Bore | Groove Width | Groove OD | OD  | Thickness | Package Quantity |
|---------|------|--------------|-----------|-----|-----------|------------------|
| AV16454 | 1/4  | 1/16         | 3/8       | 1/2 | 3/16      | 25               |
| AV16458 | 1/2  | 1/8          | 3/4       | 1   | 1/2       | 25               |

# MILLIMETER EQUIVALENTS IN INCHES & METRIC HEX CAP SCREWS

## MILLIMETER EQUIVALENTS IN INCHES

| Metric Size | Inch Equivalents |
|-------------|------------------|
| M3          | 0.1181           |
| M3.5        | 0.1378           |
| M4          | 0.1575           |
| M5          | 0.1969           |
| M6          | 0.2362           |
| M7          | 0.2756           |
| M8          | 0.3150           |
| M10         | 0.3937           |
| M12         | 0.4724           |

| Metric Size | Inch Equivalents |
|-------------|------------------|
| M14         | 0.5512           |
| M16         | 0.6299           |
| M18         | 0.7087           |
| M20         | 0.7874           |
| M22         | 0.8661           |
| M24         | 0.9449           |
| M27         | 1.0630           |
| M30         | 1.1811           |

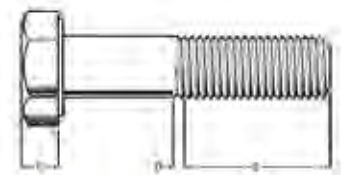
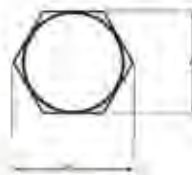
1 inch = 25.4 millimeters

## METRIC HEX CAP SCREWS TECHNICAL INFORMATION

### TECHNICAL INFORMATION

#### Rockwell Hardness

| Class      | Size            | Hardness Rockwell |
|------------|-----------------|-------------------|
| CLASS 8.8  | UP TO M16       | C22-C32           |
| CLASS 8.8  | LARGER THAN M16 | C23-C34           |
| CLASS 10.9 | ALL             | C32-C39           |



#### Dimensions

| Size | A                      | B                        | C           | D                          |                           |
|------|------------------------|--------------------------|-------------|----------------------------|---------------------------|
|      | Width Across the Flats | Width Across the Corners | Head Height | Thread Length up to 125 MM | Thread Length over 125 MM |
| M4   | 7                      | 7.66                     | 2.8         | 14                         | -                         |
| M5   | 8                      | 8.79                     | 3.5         | 16                         | -                         |
| M6   | 10                     | 11.05                    | 4.0         | 18                         | -                         |
| M7   | 11                     | 12.12                    | 4.8         | 20                         | -                         |
| M8   | 13                     | 14.38                    | 5.3         | 22                         | -                         |
| M10  | 16*                    | 17.77*                   | 6.4         | 26                         | -                         |
| M12  | 18*                    | 20.03*                   | 7.5         | 30                         | -                         |
| M14  | 21*                    | 23.36*                   | 8.8         | 34                         | 40                        |
| M16  | 24                     | 26.75                    | 10.0        | 38                         | 44                        |
| M18  | 27                     | 30.14                    | 11.5        | 42                         | 48                        |
| M20  | 30                     | 33.53                    | 12.5        | 46                         | 52                        |
| M24  | 36                     | 39.98                    | 15.0        | 54                         | 60                        |
| M30  | 46                     | 50.85                    | 18.7        | 72                         | 85                        |

#### Common Metric Thread Pitches

| Coarse    | Fine     | Extra Fine |
|-----------|----------|------------|
| M2-0.4    |          |            |
| M2.5-0.45 |          |            |
| M3-0.5    |          |            |
| M4-0.7    |          |            |
| M5-0.8    |          |            |
| M6-1.0    |          |            |
| M8-1.25   | M8-1.0   |            |
| M10-1.5   | M10-1.25 | M10-1.0    |
| M12-1.75  | M12-1.5  | M12-1.25   |
| M14-2.0   | M14-1.5  |            |
| M16-2.0   | M16-1.5  |            |
| M18-2.5   | M18-1.5  |            |
| M20-2.5   | M20-1.5  |            |
| M22-2.5   | M22-1.5  |            |
| M24-3.0   | M24-2.0  |            |

\*ANSI Specs. DIN Specs for these sizes are as follows:

| Size | Across Flats | Across Corners |
|------|--------------|----------------|
| M10  | 17           | 18.9           |
| M12  | 19           | 21.1           |
| M14  | 22           | 24.49          |

# METRIC HEX CAP SCREWS

## CLASS 8.8 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

Hex Cap Screws Class 8.8 are manufactured to ISO, DIN, or ANSI specs. They are basically an equivalent of grade 5 in inch sizes.

| Part #    | Size         | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|--------------------|--------------------|---------------|
| FMH804006 | M4-0.7 X 6   | 25                 | 100                | -             |
| FMH804010 | M4-0.7 X 10  | 25                 | 100                | 10000         |
| FMH804012 | M4-0.7 X 12  | 25                 | 100                | 10000         |
| FMH804016 | M4-0.7 X 16  | 25                 | 100                | 8000          |
| FMH804020 | M4-0.7 X 20  | 25                 | 100                | 7000          |
| FMH804025 | M4-0.7 X 25  | 25                 | 100                | 6000          |
| FMH804030 | M4-0.7 X 30  | 25                 | 100                | 5000          |
| FMH804035 | M4-0.7 X 35  | 25                 | 100                | -             |
| FMH804040 | M4-0.7 X 40  | 25                 | 100                | -             |
| FMH805008 | M5-0.8 X 8   | 25                 | 100                | -             |
| FMH805010 | M5-0.8 X 10  | 25                 | 100                | 7000          |
| FMH805012 | M5-0.8 X 12  | 25                 | 100                | 5000          |
| FMH805014 | M5-0.8 X 14  | 25                 | 100                | -             |
| FMH805016 | M5-0.8 X 16  | 25                 | 100                | 5400          |
| FMH805020 | M5-0.8 X 20  | 25                 | 100                | 4700          |
| FMH805025 | M5-0.8 X 25  | 25                 | 100                | 4800          |
| FMH805030 | M5-0.8 X 30  | 25                 | 100                | 3300          |
| FMH805035 | M5-0.8 X 35  | 25                 | 100                | 2900          |
| FMH805040 | M5-0.8 X 40  | 25                 | 100                | 3000          |
| FMH805045 | M5-0.8 X 45  | 25                 | 100                | -             |
| FMH805050 | M5-0.8 X 50  | 25                 | 100                | -             |
| FMH805055 | M5-0.8 X 55  | 25                 | 100                | -             |
| FMH805060 | M5-0.8 X 60  | 25                 | 100                | -             |
| FMH805065 | M5-0.8 X 65  | 25                 | 100                | -             |
| FMH805080 | M5-0.8 X 80  | 25                 | 100                | -             |
| FMH806008 | M6-1.0 X 8   | 25                 | 100                | -             |
| FMH806010 | M6-1.0 X 10  | 25                 | 100                | 4000          |
| FMH806012 | M6-1.0 X 12  | 25                 | 100                | 3500          |
| FMH806016 | M6-1.0 X 16  | 25                 | 100                | 3000          |
| FMH806018 | M6-1.0 X 18  | 25                 | 100                | -             |
| FMH806020 | M6-1.0 X 20  | 25                 | 100                | 3000          |
| FMH806025 | M6-1.0 X 25  | 25                 | 100                | 2500          |
| FMH806030 | M6-1.0 X 30  | 25                 | 100                | 2200          |
| FMH806035 | M6-1.0 X 35  | 25                 | 100                | 1900          |
| FMH806040 | M6-1.0 X 40  | 25                 | 100                | 1750          |
| FMH806045 | M6-1.0 X 45  | 25                 | 100                | 1600          |
| FMH806050 | M6-1.0 X 50  | 25                 | 100                | 1400          |
| FMH806055 | M6-1.0 X 55  | 25                 | 100                | 1300          |
| FMH806060 | M6-1.0 X 60  | 25                 | 100                | 1000          |
| FMH806085 | M6-1.0 X 85  | 25                 | 100                | 750           |
| FMH806100 | M6-1.0 X 100 | 25                 | 100                | 600           |
| FMH807012 | M7-1.0 X 12  | 25                 | 100                | -             |

| Part #    | Size          | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|---------------|--------------------|--------------------|---------------|
| FMH807016 | M7-1.0 X 16   | 25                 | 100                | -             |
| FMH807020 | M7-1.0 X 20   | 25                 | 100                | -             |
| FMH807030 | M7-1.0 X 30   | 25                 | 100                | -             |
| FMH807040 | M7-1.0 X 40   | 25                 | 100                | -             |
| FMH807055 | M7-1.0 X 55   | 25                 | 100                | -             |
| FMH807060 | M7-1.0 X 60   | 25                 | 100                | -             |
| FMH808010 | M8-1.25 X 10  | 25                 | 100                | -             |
| FMH808012 | M8-1.25 X 12  | 25                 | 100                | -             |
| FMH808016 | M8-1.25 X 16  | 25                 | 100                | 1700          |
| FMH808020 | M8-1.25 X 20  | 25                 | 100                | 1500          |
| FMH808025 | M8-1.25 X 25  | 25                 | 100                | 1350          |
| FMH808030 | M8-1.25 X 30  | 25                 | 100                | 1150          |
| FMH808035 | M8-1.25 X 35  | 25                 | 100                | 1000          |
| FMH808040 | M8-1.25 X 40  | 25                 | 100                | 925           |
| FMH808045 | M8-1.25 X 45  | 25                 | 100                | 850           |
| FMH808050 | M8-1.25 X 50  | 15                 | 50                 | 750           |
| FMH808055 | M8-1.25 X 55  | 15                 | 50                 | 700           |
| FMH808060 | M8-1.25 X 60  | 15                 | 50                 | 650           |
| FMH808065 | M8-1.25 X 65  | 15                 | 50                 | 600           |
| FMH808070 | M8-1.25 X 70  | 15                 | 50                 | 550           |
| FMH808075 | M8-1.25 X 75  | 15                 | 50                 | 550           |
| FMH808090 | M8-1.25 X 90  | 15                 | 50                 | 450           |
| FMH808100 | M8-1.25 X 100 | 15                 | 50                 | 400           |
| FMH808120 | M8-1.25 X 120 | 15                 | 50                 | 350           |
| FMH808140 | M8-1.25 X 140 | 15                 | 50                 | 300           |
| FMH810010 | M10-1.5 X 10  | 15                 | 50                 | -             |
| FMH810012 | M10-1.5 X 12  | 15                 | 50                 | 1000          |
| FMH810016 | M10-1.5 X 16  | 15                 | 50                 | 950           |
| FMH810020 | M10-1.5 X 20  | 15                 | 50                 | 850           |
| FMH810025 | M10-1.5 X 25  | 15                 | 50                 | 750           |
| FMH810030 | M10-1.5 X 30  | 15                 | 50                 | 700           |
| FMH810035 | M10-1.5 X 35  | 15                 | 50                 | 600           |
| FMH810040 | M10-1.5 X 40  | 15                 | 50                 | 550           |
| FMH810045 | M10-1.5 X 45  | 15                 | 50                 | 500           |
| FMH810050 | M10-1.5 X 50  | 15                 | 50                 | 450           |
| FMH810055 | M10-1.5 X 55  | 15                 | 50                 | 450           |
| FMH810060 | M10-1.5 X 60  | 15                 | 50                 | 400           |
| FMH810065 | M10-1.5 X 65  | 15                 | 50                 | 350           |
| FMH810070 | M10-1.5 X 70  | 15                 | 50                 | 350           |
| FMH810075 | M10-1.5 X 75  | 15                 | 50                 | 300           |
| FMH810080 | M10-1.5 X 80  | 10                 | 25                 | 300           |
| FMH810090 | M10-1.5 X 90  | 10                 | 25                 | 250           |

# METRIC HEX CAP SCREWS

## CLASS 8.8 • COARSE THREAD • ZINC PLATED • MADE IN CANADA OR IMPORTED

\*CONTINUED FROM PREVIOUS PAGE

| Part #    | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|----------------|--------------------|--------------------|---------------|
| FMH810100 | M10-1.5 X 100  | 10                 | 25                 | 250           |
| FMH810120 | M10-1.5 X 120  | 10                 | 25                 | 200           |
| FMH810130 | M10-1.5 X 130  | 10                 | 25                 | 175           |
| FMH812020 | M12-1.75 X 20  | 15                 | 50                 | 600           |
| FMH812025 | M12-1.75 X 25  | 15                 | 50                 | 500           |
| FMH812030 | M12-1.75 X 30  | 15                 | 50                 | 450           |
| FMH812035 | M12-1.75 X 35  | 15                 | 50                 | 400           |
| FMH812040 | M12-1.75 X 40  | 15                 | 50                 | 370           |
| FMH812045 | M12-1.75 X 45  | 15                 | 50                 | 325           |
| FMH812050 | M12-1.75 X 50  | 15                 | 50                 | 300           |
| FMH812060 | M12-1.75 X 60  | 15                 | 50                 | 260           |
| FMH812065 | M12-1.75 X 65  | 15                 | 50                 | 250           |
| FMH812070 | M12-1.75 X 70  | 15                 | 50                 | 225           |
| FMH812075 | M12-1.75 X 75  | 15                 | 50                 | 225           |
| FMH812080 | M12-1.75 X 80  | 10                 | 25                 | 200           |
| FMH812090 | M12-1.75 X 90  | 10                 | 25                 | 175           |
| FMH812100 | M12-1.75 X 100 | 10                 | 25                 | 175           |
| FMH812110 | M12-1.75 X 110 | 10                 | 25                 | 150           |
| FMH812120 | M12-1.75 X 120 | 10                 | 25                 | 150           |
| FMH812130 | M12-1.75 X 130 | 10                 | 25                 | 125           |
| FMH812150 | M12-1.75 X 150 | 10                 | 25                 | 125           |
| FMH812200 | M12-1.75 X 200 | 10                 | 25                 | 90            |
| FMH814020 | M14-2.0 X 20   | 10                 | 25                 | -             |
| FMH814025 | M14-2.0 X 25   | 10                 | 25                 | 350           |
| FMH814030 | M14-2.0 X 30   | 10                 | 25                 | 325           |
| FMH814040 | M14-2.0 X 40   | 10                 | 25                 | 275           |

| Part #    | Size          | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|---------------|--------------------|--------------------|---------------|
| FMH814045 | M14-2.0 X 45  | 10                 | 25                 | 250           |
| FMH814050 | M14-2.0 X 50  | 10                 | 25                 | 230           |
| FMH814060 | M14-2.0 X 60  | 10                 | 25                 | 200           |
| FMH814070 | M14-2.0 X 70  | 10                 | 25                 | 175           |
| FMH814075 | M14-2.0 X 75  | 10                 | 25                 | 150           |
| FMH814080 | M14-2.0 X 80  | 10                 | 25                 | 150           |
| FMH814100 | M14-2.0 X 100 | 10                 | 25                 | 125           |
| FMH816025 | M16-2.0 X 25  | 10                 | 25                 | 250           |
| FMH816030 | M16-2.0 X 30  | 10                 | 25                 | 225           |
| FMH816040 | M16-2.0 X 40  | 10                 | 25                 | 200           |
| FMH816045 | M16-2.0 X 45  | 10                 | 25                 | 175           |
| FMH816050 | M16-2.0 X 50  | 10                 | 25                 | 165           |
| FMH816060 | M16-2.0 X 60  | 10                 | 25                 | 150           |
| FMH816070 | M16-2.0 X 70  | 10                 | 25                 | 125           |
| FMH816080 | M16-2.0 X 80  | 5                  | 20                 | 110           |
| FMH816090 | M16-2.0 X 90  | 5                  | 20                 | 100           |
| FMH816100 | M16-2.0 X 100 | 5                  | 20                 | 95            |
| FMH816150 | M16-2.0 X 150 | 5                  | 20                 | 70            |
| FMH818060 | M18-2.5 X 60  | 5                  | 20                 | -             |
| FMH820040 | M20-2.5 X 40  | 5                  | 20                 | 110           |
| FMH820050 | M20-2.5 X 50  | 5                  | 20                 | 100           |
| FMH820060 | M20-2.5 X 60  | 5                  | 20                 | 90            |
| FMH820070 | M20-2.5 X 70  | 5                  | 20                 | 80            |
| FMH820080 | M20-2.5 X 80  | 5                  | 20                 | 70            |
| FMH820090 | M20-2.5 X 90  | 5                  | 20                 | 65            |
| FMH820100 | M20-2.5 X 100 | 5                  | 20                 | 60            |

## CLASS 8.8 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FMH8F08016 | M8-1.0 X 16   | 25                 | 100                |
| FMH8F08020 | M8-1.0 X 20   | 25                 | 100                |
| FMH8F08025 | M8-1.0 X 25   | 25                 | 100                |
| FMH8F08030 | M8-1.0 X 30   | 25                 | 100                |
| FMH8F08035 | M8-1.0 X 35   | 25                 | 100                |
| FMH8F08040 | M8-1.0 X 40   | 25                 | 100                |
| FMH8F08050 | M8-1.0 X 50   | 25                 | 100                |
| FMH8F08060 | M8-1.0 X 60   | 15                 | 50                 |
| FMH8F08065 | M8-1.0 X 65   | 15                 | 50                 |
| FMH8F08070 | M8-1.0 X 70   | 15                 | 50                 |
| FMH8F10016 | M10-1.25 X 16 | 15                 | 50                 |

| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FMH8F10020 | M10-1.25 X 20 | 15                 | 50                 |
| FMH8F10025 | M10-1.25 X 25 | 15                 | 50                 |
| FMH8F10030 | M10-1.25 X 30 | 15                 | 50                 |
| FMH8F10035 | M10-1.25 X 35 | 15                 | 50                 |
| FMH8F10040 | M10-1.25 X 40 | 15                 | 50                 |
| FMH8F10045 | M10-1.25 X 45 | 15                 | 50                 |
| FMH8F10050 | M10-1.25 X 50 | 15                 | 50                 |
| FMH8F10060 | M10-1.25 X 60 | 15                 | 50                 |
| FMH8F10070 | M10-1.25 X 70 | 15                 | 50                 |
| FMH8F12020 | M12-1.5 X 20  | 15                 | 50                 |
| FMH8F12025 | M12-1.5 X 25  | 15                 | 50                 |

# METRIC HEX CAP SCREWS

## CLASS 8.8 • FINE THREAD • ZINC PLATED • IMPORTED \*CONTINUED FROM PREVIOUS PAGE

| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FMH8F12030 | M12-1.5 X 30  | 15                 | 50                 |
| FMH8F12035 | M12-1.5 X 35  | 15                 | 50                 |
| FMH8F12040 | M12-1.5 X 40  | 15                 | 50                 |
| FMH8F12050 | M12-1.5 X 50  | 15                 | 50                 |
| FMH8F12055 | M12-1.5 X 55  | 15                 | 50                 |
| FMH8F12060 | M12-1.5 X 60  | 15                 | 50                 |
| FMH8F12070 | M12-1.5 X 70  | 15                 | 50                 |
| FMH8F12150 | M12-1.5 X 150 | 10                 | 25                 |
| FMH8F14030 | M14-1.5 X 30  | 10                 | 25                 |
| FMH8F14035 | M14-1.5 X 35  | 10                 | 25                 |
| FMH8F14040 | M14-1.5 X 40  | 10                 | 25                 |
| FMH8F14050 | M14-1.5 X 50  | 10                 | 25                 |
| FMH8F14060 | M14-1.5 X 60  | 10                 | 25                 |
| FMH8F14065 | M14-1.5 X 65  | 10                 | 25                 |

| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FMH8F14070 | M14-1.5 X 70  | 10                 | 25                 |
| FMH8F14075 | M14-1.5 X 75  | 10                 | 25                 |
| FMH8F14080 | M14-1.5 X 80  | 10                 | 25                 |
| FMH8F14130 | M14-1.5 X 130 | 10                 | 25                 |
| FMH8F16030 | M16-1.5 X 30  | 10                 | 25                 |
| FMH8F16035 | M16-1.5 X 35  | 10                 | 25                 |
| FMH8F16040 | M16-1.5 X 40  | 10                 | 25                 |
| FMH8F16050 | M16-1.5 X 50  | 10                 | 25                 |
| FMH8F16060 | M16-1.5 X 60  | 10                 | 25                 |
| FMH8F16070 | M16-1.5 X 70  | 10                 | 25                 |
| FMH8F16100 | M16-1.5 X 100 | 10                 | 25                 |
| FMH8F16160 | M16-1.5 X 160 | -                  | 1                  |
| FMH8F20050 | M20-1.5 X 50  | 5                  | 20                 |

## CLASS 8.8 • EXTRA FINE THREAD • ZINC PLATED • IMPORTED

| Part #      | Size          | Farm Pack Quantity | Shop Pack Quantity |
|-------------|---------------|--------------------|--------------------|
| FMH8EF10020 | M10-1.0 X 20  | 15                 | 50                 |
| FMH8EF10030 | M10-1.0 X 30  | 15                 | 50                 |
| FMH8EF10035 | M10-1.0 X 35  | 15                 | 50                 |
| FMH8EF10040 | M10-1.0 X 40  | 15                 | 50                 |
| FMH8EF10050 | M10-1.0 X 50  | 15                 | 50                 |
| FMH8EF10060 | M10-1.0 X 60  | 15                 | 50                 |
| FMH8EF10065 | M10-1.0 X 65  | 15                 | 50                 |
| FMH8EF10070 | M10-1.0 X 70  | 15                 | 50                 |
| FMH8EF12020 | M12-1.25 X 20 | 15                 | 50                 |

| Part #      | Size          | Farm Pack Quantity | Shop Pack Quantity |
|-------------|---------------|--------------------|--------------------|
| FMH8EF12025 | M12-1.25 X 25 | 15                 | 50                 |
| FMH8EF12030 | M12-1.25 X 30 | 15                 | 50                 |
| FMH8EF12035 | M12-1.25 X 35 | 15                 | 50                 |
| FMH8EF12040 | M12-1.25 X 40 | 15                 | 50                 |
| FMH8EF12050 | M12-1.25 X 50 | 15                 | 50                 |
| FMH8EF12055 | M12-1.25 X 55 | 15                 | 50                 |
| FMH8EF12060 | M12-1.25 X 60 | 15                 | 50                 |
| FMH8EF12070 | M12-1.25 X 70 | 15                 | 50                 |
| FMH8EF12090 | M12-1.25 X 90 | 10                 | 25                 |

Class 8.8 fine thread and extra fine thread sizes will not be replaced as we run out of stock. We will be stocking Class 10.9 instead.

## CLASS 10.9 • COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED

Hex Cap Screws Class 10.9 are manufactured to ISO, DIN, or ANSI specs. They are basically an equivalent of grade 8 in strength.

| Part #    | Size        | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|-------------|--------------------|--------------------|---------------|
| FMH006010 | M6-1.0 X 10 | 25                 | 100                | 5000          |
| FMH006012 | M6-1.0 X 12 | 25                 | 100                | 3500          |
| FMH006016 | M6-1.0 X 16 | 25                 | 100                | 4000          |
| FMH006020 | M6-1.0 X 20 | 25                 | 100                | 3000          |
| FMH006025 | M6-1.0 X 25 | 25                 | 100                | 2500          |
| FMH006030 | M6-1.0 X 30 | 25                 | 100                | 2200          |
| FMH006035 | M6-1.0 X 35 | 25                 | 100                | 1900          |
| FMH006040 | M6-1.0 X 40 | 25                 | 100                | 1750          |
| FMH006050 | M6-1.0 X 50 | 25                 | 100                | 1400          |

| Part #    | Size         | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|--------------|--------------------|--------------------|---------------|
| FMH006060 | M6-1.0 X 60  | 25                 | 100                | 1200          |
| FMH006070 | M6-1.0 X 70  | 25                 | 100                | 900           |
| FMH006080 | M6-1.0 X 80  | 25                 | 100                | 800           |
| FMH006120 | M6-1.0 X 120 | 25                 | 100                | 350           |
| FMH008016 | M8-1.25 X 16 | 25                 | 100                | 1700          |
| FMH008020 | M8-1.25 X 20 | 25                 | 100                | 1500          |
| FMH008025 | M8-1.25 X 25 | 25                 | 100                | 1350          |
| FMH008030 | M8-1.25 X 30 | 25                 | 100                | 1150          |
| FMH008035 | M8-1.25 X 35 | 25                 | 100                | 1000          |

# METRIC HEX CAP SCREWS

## CLASS 10.9 • COARSE THREAD • ZINC PLATED • MADE IN USA OR IMPORTED

\*CONTINUED FROM PREVIOUS PAGE

| Part #    | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|----------------|--------------------|--------------------|---------------|
| FMH008040 | M8-1.25 X 40   | 25                 | 100                | 925           |
| FMH008045 | M8-1.25 X 45   | 25                 | 100                | 850           |
| FMH008050 | M8-1.25 X 50   | 25                 | 100                | 750           |
| FMH008060 | M8-1.25 X 60   | 15                 | 50                 | 650           |
| FMH008070 | M8-1.25 X 70   | 15                 | 50                 | 550           |
| FMH008080 | M8-1.25 X 80   | 15                 | 50                 | 550           |
| FMH008085 | M8-1.25 X 85   | 15                 | 50                 | -             |
| FMH008090 | M8-1.25 X 90   | 15                 | 50                 | 450           |
| FMH008100 | M8-1.25 X 100  | 15                 | 50                 | 400           |
| FMH010020 | M10-1.50 X 20  | 15                 | 50                 | 850           |
| FMH010025 | M10-1.50 X 25  | 15                 | 50                 | 750           |
| FMH010030 | M10-1.50 X 30  | 15                 | 50                 | 700           |
| FMH010035 | M10-1.50 X 35  | 15                 | 50                 | 600           |
| FMH010040 | M10-1.50 X 40  | 15                 | 50                 | 550           |
| FMH010045 | M10-1.50 X 45  | 15                 | 50                 | 500           |
| FMH010050 | M10-1.50 X 50  | 15                 | 50                 | 450           |
| FMH010055 | M10-1.50 X 55  | 15                 | 50                 | 450           |
| FMH010060 | M10-1.50 X 60  | 15                 | 50                 | 400           |
| FMH010065 | M10-1.50 X 65  | 15                 | 50                 | 350           |
| FMH010070 | M10-1.50 X 70  | 15                 | 50                 | 350           |
| FMH010080 | M10-1.50 X 80  | 15                 | 50                 | 300           |
| FMH010090 | M10-1.50 X 90  | 10                 | 25                 | 250           |
| FMH010100 | M10-1.50 X 100 | 10                 | 25                 | 250           |
| FMH010130 | M10-1.50 X 130 | 10                 | 25                 | 200           |
| FMH010160 | M10-1.50 X 160 | 10                 | 25                 | -             |
| FMH012020 | M12-1.75 X 20  | 15                 | 50                 | 600           |
| FMH012025 | M12-1.75 X 25  | 15                 | 50                 | 500           |
| FMH012030 | M12-1.75 X 30  | 15                 | 50                 | 450           |
| FMH012035 | M12-1.75 X 35  | 15                 | 50                 | 400           |
| FMH012040 | M12-1.75 X 40  | 15                 | 50                 | 370           |
| FMH012050 | M12-1.75 X 50  | 15                 | 50                 | 300           |
| FMH012060 | M12-1.75 X 60  | 15                 | 50                 | 260           |
| FMH012065 | M12-1.75 X 65  | 15                 | 50                 | 250           |
| FMH012070 | M12-1.75 X 70  | 15                 | 50                 | 225           |
| FMH012080 | M12-1.75 X 80  | 15                 | 50                 | 200           |
| FMH012090 | M12-1.75 X 90  | 10                 | 25                 | 175           |
| FMH012100 | M12-1.75 X 100 | 10                 | 25                 | 175           |
| FMH012110 | M12-1.75 X 110 | 10                 | 25                 | 150           |
| FMH012140 | M12-1.75 X 140 | 10                 | 25                 | 125           |
| FMH014030 | M14-2.0 X 30   | 10                 | 25                 | 300           |
| FMH014040 | M14-2.0 X 40   | 10                 | 25                 | 300           |
| FMH014050 | M14-2.0 X 50   | 10                 | 25                 | 250           |
| FMH014060 | M14-2.0 X 60   | 10                 | 25                 | 200           |

| Part #    | Size           | Farm Pack Quantity | Shop Pack Quantity | Bulk Quantity |
|-----------|----------------|--------------------|--------------------|---------------|
| FMH014070 | M14-2.0 X 70   | 10                 | 25                 | 200           |
| FMH014080 | M14-2.0 X 80   | 10                 | 25                 | 150           |
| FMH014090 | M14-2.0 X 90   | 10                 | 25                 | 150           |
| FMH014100 | M14-2.0 X 100  | 10                 | 25                 | 125           |
| FMH014120 | M14-2.0 X 120  | 10                 | 25                 | 100           |
| FMH014150 | M14-2.0 X 150  | 10                 | 25                 | -             |
| FMH016030 | M16-2.0 X 30   | 10                 | 25                 | 225           |
| FMH016040 | M16-2.0 X 40   | 10                 | 25                 | 200           |
| FMH016050 | M16-2.0 X 50   | 10                 | 25                 | 165           |
| FMH016060 | M16-2.0 X 60   | 10                 | 25                 | 150           |
| FMH016070 | M16-2.0 X 70   | 10                 | 25                 | 125           |
| FMH016080 | M16-2.0 X 80   | 10                 | 25                 | 110           |
| FMH016090 | M16-2.0 X 90   | 10                 | 25                 | 100           |
| FMH016100 | M16-2.0 X 100  | 10                 | 25                 | 95            |
| FMH016110 | M16-2.0 X 110  | 10                 | 25                 | 90            |
| FMH016120 | M16-2.0 X 120  | 10                 | 25                 | 80            |
| FMH016130 | M16-2.0 X 130  | 10                 | 25                 | 75            |
| FMH018040 | M18-2.5 X 40   | 5                  | 20                 | 150           |
| FMH018050 | M18-2.5 X 50   | 5                  | 20                 | 125           |
| FMH018060 | M18-2.5 X 60   | 5                  | 20                 | 100           |
| FMH018070 | M18-2.5 X 70   | 5                  | 20                 | 100           |
| FMH018080 | M18-2.5 X 80   | 5                  | 20                 | 75            |
| FMH018090 | M18-2.5 X 90   | 5                  | 20                 | 75            |
| FMH018100 | M18-2.5 X 100  | 5                  | 20                 | 75            |
| FMH018120 | M18-2.5 X 120  | 5                  | 20                 | 60            |
| FMH020040 | M20-2.50 X 40  | 5                  | 20                 | 110           |
| FMH020045 | M20-2.50 X 45  | 5                  | 20                 | 100           |
| FMH020050 | M20-2.50 X 50  | 5                  | 20                 | 100           |
| FMH020060 | M20-2.50 X 60  | 5                  | 20                 | 90            |
| FMH020070 | M20-2.50 X 70  | 5                  | 20                 | 80            |
| FMH020080 | M20-2.50 X 80  | 5                  | 20                 | 70            |
| FMH020090 | M20-2.50 X 90  | 5                  | 20                 | 65            |
| FMH020100 | M20-2.50 X 100 | 5                  | 20                 | 60            |
| FMH020110 | M20-2.50 X 110 | 3                  | 10                 | 55            |
| FMH020120 | M20-2.50 X 120 | 3                  | 10                 | 50            |
| FMH020140 | M20-2.50 X 140 | 3                  | 10                 | 45            |
| FMH020190 | M20-2.50 X 190 | -                  | 1                  | 35            |
| FMH024065 | M24-3.0 X 65   | -                  | 1                  | -             |
| FMH024130 | M24-3.0 X 130  | -                  | 1                  | 30            |
| FMH024150 | M24-3.0 X 150  | -                  | 1                  | 25            |
| FMH024180 | M24-3.0 X 180  | -                  | 1                  | 25            |
| FMH030100 | M30-3.5 X 100  | -                  | 1                  | -             |

# METRIC HEX CAP SCREWS

## CLASS 10.9 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FMH0F08016 | M8-1.0 X 16   | 25                 | 100                |
| FMH0F08020 | M8-1.0 X 20   | 25                 | 100                |
| FMH0F08025 | M8-1.0 X 25   | 25                 | 100                |
| FMH0F08030 | M8-1.0 X 30   | 25                 | 100                |
| FMH0F08035 | M8-1.0 X 35   | 25                 | 100                |
| FMH0F08040 | M8-1.0 X 40   | 25                 | 100                |
| FMH0F08045 | M8-1.0 X 45   | 25                 | 100                |
| FMH0F08050 | M8-1.0 X 50   | 25                 | 100                |
| FMH0F08060 | M8-1.0 X 60   | 15                 | 50                 |
| FMH0F08070 | M8-1.0 X 70   | 15                 | 50                 |
| FMH0F08080 | M8-1.0 X 80   | 15                 | 50                 |
| FMH0F10016 | M10-1.25 X 16 | 15                 | 50                 |
| FMH0F10020 | M10-1.25 X 20 | 15                 | 50                 |
| FMH0F10025 | M10-1.25 X 25 | 15                 | 50                 |
| FMH0F10030 | M10-1.25 X 30 | 15                 | 50                 |
| FMH0F10035 | M10-1.25 X 35 | 15                 | 50                 |
| FMH0F10040 | M10-1.25 X 40 | 15                 | 50                 |
| FMH0F10045 | M10-1.25 X 45 | 15                 | 50                 |

| Part #     | Size           | Farm Pack Quantity | Shop Pack Quantity |
|------------|----------------|--------------------|--------------------|
| FMH0F10050 | M10-1.25 X 50  | 15                 | 50                 |
| FMH0F10055 | M10-1.25 X 55  | 15                 | 50                 |
| FMH0F10060 | M10-1.25 X 60  | 15                 | 50                 |
| FMH0F10065 | M10-1.25 X 65  | 15                 | 50                 |
| FMH0F10070 | M10-1.25 X 70  | 15                 | 50                 |
| FMH0F10080 | M10-1.25 X 80  | 15                 | 50                 |
| FMH0F10110 | M10-1.25 X 110 | 10                 | 25                 |
| FMH0F12020 | M12-1.5 X 20   | 15                 | 50                 |
| FMH0F12025 | M12-1.5 X 25   | 15                 | 50                 |
| FMH0F12030 | M12-1.5 X 30   | 15                 | 50                 |
| FMH0F12035 | M12-1.5 X 35   | 15                 | 50                 |
| FMH0F12040 | M12-1.5 X 40   | 15                 | 50                 |
| FMH0F12050 | M12-1.5 X 50   | 15                 | 50                 |
| FMH0F12060 | M12-1.5 X 60   | 15                 | 50                 |
| FMH0F12065 | M12-1.5 X 65   | 15                 | 50                 |
| FMH0F12070 | M12-1.5 X 70   | 15                 | 50                 |
| FMH0F12080 | M12-1.5 X 80   | 15                 | 50                 |
| FMH0F14080 | M14-1.5 X 80   | 10                 | 25                 |

## CLASS 10.9 • EXTRA FINE THREAD • ZINC PLATED • IMPORTED

| Part #      | Size          | Farm Pack Quantity | Shop Pack Quantity |
|-------------|---------------|--------------------|--------------------|
| FMH0EF10020 | M10-1.0 X 20  | 15                 | 50                 |
| FMH0EF10030 | M10-1.0 X 30  | 15                 | 50                 |
| FMH0EF10040 | M10-1.0 X 40  | 15                 | 50                 |
| FMH0EF10050 | M10-1.0 X 50  | 15                 | 50                 |
| FMH0EF10060 | M10-1.0 X 60  | 15                 | 50                 |
| FMH0EF12020 | M12-1.25 X 20 | 15                 | 50                 |
| FMH0EF12025 | M12-1.25 X 25 | 15                 | 50                 |
| FMH0EF12030 | M12-1.25 X 30 | 15                 | 50                 |
| FMH0EF12040 | M12-1.25 X 40 | 15                 | 50                 |
| FMH0EF12050 | M12-1.25 X 50 | 15                 | 50                 |
| FMH0EF12070 | M12-1.25 X 70 | 15                 | 50                 |

# METRIC HEX CAP SCREWS

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

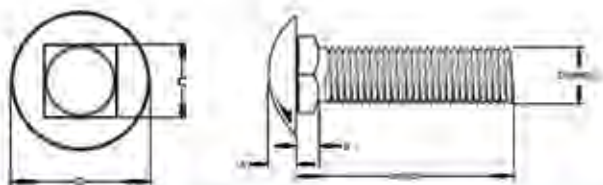
| Part #     | Size          | Farm Pack Quantity | Shop Pack Quantity |
|------------|---------------|--------------------|--------------------|
| FSSMH06010 | M6-1.0 X 10   | 25                 | 100                |
| FSSMH06016 | M6-1.0 X 16   | 25                 | 100                |
| FSSMH06020 | M6-1.0 X 20   | 25                 | 100                |
| FSSMH06025 | M6-1.0 X 25   | 25                 | 100                |
| FSSMH06030 | M6-1.0 X 30   | 25                 | 100                |
| FSSMH06040 | M6-1.0 X 40   | 25                 | 100                |
| FSSMH08016 | M8-1.25 X 16  | 25                 | 100                |
| FSSMH08020 | M8-1.25 X 20  | 25                 | 100                |
| FSSMH08025 | M8-1.25 X 25  | 25                 | 100                |
| FSSMH08030 | M8-1.25 X 30  | 25                 | 100                |
| FSSMH08040 | M8-1.25 X 40  | 25                 | 100                |
| FSSMH08050 | M8-1.25 X 50  | 15                 | 50                 |
| FSSMH08060 | M8-1.25 X 60  | 15                 | 50                 |
| FSSMH10020 | M10-1.5 X 20  | 15                 | 50                 |
| FSSMH10025 | M10-1.5 X 25  | 15                 | 50                 |
| FSSMH10030 | M10-1.5 X 30  | 15                 | 50                 |
| FSSMH10035 | M10-1.5 X 35  | 15                 | 50                 |
| FSSMH10040 | M10-1.5 X 40  | 15                 | 50                 |
| FSSMH10045 | M10-1.5 X 45  | 15                 | 50                 |
| FSSMH10050 | M10-1.5 X 50  | 15                 | 50                 |
| FSSMH10060 | M10-1.5 X 60  | 15                 | 50                 |
| FSSMH10070 | M10-1.5 X 70  | 15                 | 50                 |
| FSSMH10080 | M10-1.5 X 80  | 10                 | 25                 |
| FSSMH12025 | M12-1.75 X 25 | 15                 | 50                 |
| FSSMH12030 | M12-1.75 X 30 | 15                 | 50                 |
| FSSMH12040 | M12-1.75 X 40 | 15                 | 50                 |
| FSSMH12050 | M12-1.75 X 50 | 15                 | 50                 |
| FSSMH12060 | M12-1.75 X 60 | 15                 | 50                 |
| FSSMH12070 | M12-1.75 X 70 | 15                 | 50                 |
| FSSMH12080 | M12-1.75 X 80 | 10                 | 25                 |



# METRIC CARRIAGE BOLTS & METRIC FLANGE SCREWS

## METRIC CARRIAGE BOLTS

### Dimensions



Metric Carriage Bolts typically come in a class 4.6 which is basically equivalent to A307.

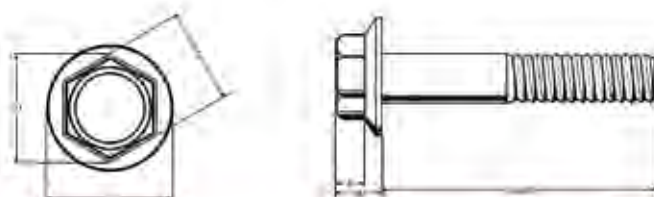
| Size | A<br>+/-0.4 | B<br>+/-0.6 | C<br>+/-0.58 | D<br>+/-0.65 |
|------|-------------|-------------|--------------|--------------|
| M8   | 4.4         | 5           | 8            | 19.35        |
| M10  | 5.4         | 6           | 10           | 23.35        |

| Part #   | Size         | Shop Pack Quantity |
|----------|--------------|--------------------|
| FMC08020 | M8-1.25 X 20 | 100                |
| FMC08035 | M8-1.25 X 35 | 100                |
| FMC10035 | M10-1.5 X 35 | 50                 |

## METRIC FLANGE SCREWS

### TECHNICAL INFORMATION

### Dimensions



| Size | A    | B     | C     | D     | E     | Thread Length |
|------|------|-------|-------|-------|-------|---------------|
|      | Min  | Max   | Max   | Min   | Max   | Min           |
| M6   | 2.50 | 6.60  | 14.20 | 10.95 | 10.00 | 20.00         |
| M8   | 3.20 | 8.10  | 18.00 | 14.26 | 13.00 | 30.00         |
| M10  | 3.60 | 9.20  | 22.30 | 16.50 | 15.00 | 35.00         |
| M12  | 4.60 | 11.50 | 26.60 | 17.62 | 16.00 | 40.00         |
| M16  | 5.80 | 14.40 | 35.00 | 23.15 | 21.00 | 50.00         |

### SERRATED • CLASS 8.8 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size         | Shop Pack Quantity |
|------------|--------------|--------------------|
| FMFS805012 | M5-0.8 X 12  | 100                |
| FMFS805016 | M5-0.8 X 16  | 100                |
| FMFS806025 | M6-1.0 X 25  | 100                |
| FMFS806035 | M6-1.0 X 35  | 100                |
| FMFS808020 | M8-1.25 X 20 | 100                |

# METRIC FLANGE SCREWS

## CLASS 10.9 • COARSE THREAD • YELLOW ZINC • IMPORTED

| Part #     | Size          | Shop Pack Quantity |
|------------|---------------|--------------------|
| FMFS006012 | M6-1.00 X 12  | 100                |
| FMFS006016 | M6-1.00 X 16  | 100                |
| FMFS006020 | M6-1.00 X 20  | 100                |
| FMFS006025 | M6-1.00 X 25  | 100                |
| FMFS008012 | M8-1.25 X 12  | 100                |
| FMFS008020 | M8-1.25 X 20  | 100                |
| FMFS008025 | M8-1.25 X 25  | 100                |
| FMFS008030 | M8-1.25 X 30  | 100                |
| FMFS008035 | M8-1.25 X 35  | 100                |
| FMFS008040 | M8-1.25 X 40  | 100                |
| FMFS008045 | M8-1.25 X 45  | 100                |
| FMFS008050 | M8-1.25 X 50  | 100                |
| FMFS008060 | M8-1.25 X 60  | 50                 |
| FMFS010016 | M10-1.5 X 16  | 50                 |
| FMFS010020 | M10-1.5 X 20  | 50                 |
| FMFS010025 | M10-1.5 X 25  | 50                 |
| FMFS010030 | M10-1.5 X 30  | 50                 |
| FMFS010035 | M10-1.5 X 35  | 50                 |
| FMFS010040 | M10-1.5 X 40  | 50                 |
| FMFS010050 | M10-1.5 X 50  | 50                 |
| FMFS010060 | M10-1.5 X 60  | 25                 |
| FMFS010070 | M10-1.5 X 70  | 25                 |
| FMFS012020 | M12-1.75 X 20 | 50                 |
| FMFS012025 | M12-1.75 X 25 | 50                 |
| FMFS012030 | M12-1.75 X 30 | 50                 |
| FMFS012035 | M12-1.75 X 35 | 50                 |
| FMFS012040 | M12-1.75 X 40 | 50                 |
| FMFS012050 | M12-1.75 X 50 | 50                 |
| FMFS012060 | M12-1.75 X 60 | 50                 |
| FMFS012080 | M12-1.75 X 80 | 50                 |
| FMFS014050 | M14-2.0 X 50  | 25                 |
| FMFS016035 | M16-2.0 X 35  | 25                 |
| FMFS016040 | M16-2.0 X 40  | 25                 |
| FMFS016045 | M16-2.0 X 45  | 25                 |

Don't see the size you're looking for? Call us for availability!

## CLASS 10.9 • FINE THREAD • YELLOW ZINC • IMPORTED

| Part #      | Size          | Package Quantity |
|-------------|---------------|------------------|
| FMFS0F10025 | M10-1.25 X 25 | 50               |
| FMFS0F10030 | M10-1.25 X 30 | 50               |
| FMFS0F10040 | M10-1.25 X 40 | 50               |
| FMFS0F10050 | M10-1.25 X 50 | 50               |

# METRIC HEX CAP SCREWS DIN 933 (TAP BOLTS) & METRIC HEX NUTS

## METRIC HEX CAP SCREWS DIN 933 (TAP BOLTS)

**CLASS 8.8 • COARSE THREAD • ZINC PLATED • IMPORTED**



Metric Hex Cap Screws DIN 933 are fully threaded like a tap bolt. Their dimensions except for thread length are equivalent to other metric hex cap screws.

| Part #      | Size         | Shop Pack Quantity | Bulk Quantity |
|-------------|--------------|--------------------|---------------|
| FMHTB805050 | M5-0.8 X 50  | 100                | 2500          |
| FMHTB808070 | M8-1.25 X 70 | 50                 | 700           |

## METRIC HEX NUTS

### TECHNICAL INFORMATION

#### Dimensions



| Size | A   | B     | C    |
|------|-----|-------|------|
|      | Max | Ref   | Min  |
| M3   | 5.5 | 6.01  | 2.15 |
| M4   | 7   | 7.66  | 2.90 |
| M5   | 8   | 8.79  | 3.70 |
| M6   | 10  | 11.05 | 4.70 |
| M7   | 11  | 12.12 | 5.20 |
| M8   | 13  | 14.38 | 6.14 |
| M10  | 17  | 17.77 | 7.64 |

| Size | A   | B     | C     |
|------|-----|-------|-------|
|      | Max | Ref   | Min   |
| M12  | 19  | 20.03 | 9.64  |
| M14  | 22  | 23.35 | 10.30 |
| M16  | 24  | 26.75 | 12.30 |
| M18  | 27  | 29.56 | 14.30 |
| M20  | 30  | 32.95 | 14.90 |
| M24  | 36  | 39.55 | 17.70 |
| M30  | 46  | 50.85 | 22.70 |

Metric Hex Nuts are manufactured to DIN 934 specs.

**CLASS 8 • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part # | Size     | Shop Pack Quantity | Bulk Quantity |
|--------|----------|--------------------|---------------|
| FMHN04 | M4-0.7   | 100                | 20000         |
| FMHN05 | M5-0.8   | 100                | 15000         |
| FMHN06 | M6-1.0   | 100                | 8000          |
| FMHN07 | M7-1.0   | 100                | -             |
| FMHN08 | M8-1.25  | 100                | 3500          |
| FMHN10 | M10-1.5  | 50                 | 1500          |
| FMHN12 | M12-1.75 | 50                 | 1000          |
| FMHN14 | M14-2.0  | 25                 | 750           |
| FMHN16 | M16-2.0  | 25                 | 500           |
| FMHN18 | M18-2.5  | 25                 | -             |
| FMHN20 | M20-2.5  | 25                 | 300           |
| FMHN30 | M30-3.5  | 10                 | -             |

# METRIC HEX NUTS \*CONTINUED FROM PREVIOUS PAGE

## CLASS 8 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size     | Shop Pack Quantity | Part #  | Size    | Shop Pack Quantity |
|---------|----------|--------------------|---------|---------|--------------------|
| FMHNF08 | M8-1.0   | 100                | FMHNF16 | M16-1.5 | 25                 |
| FMHNF10 | M10-1.25 | 50                 | FMHNF18 | M18-1.5 | 25                 |
| FMHNF12 | M12-1.5  | 50                 | FMHNF20 | M20-1.5 | 25                 |
| FMHNF14 | M14-1.5  | 25                 |         |         |                    |

## CLASS 8 • EXTRA FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Quantity |
|----------|----------|--------------------|
| FMHNEF10 | M10-1.0  | 50                 |
| FMHNEF12 | M12-1.25 | 50                 |

## CLASS 8 • EXTRA EXTRA FINE THREAD • ZINC PLATED • IMPORTED

| Part #    | Size    | Shop Pack Quantity |
|-----------|---------|--------------------|
| FMHNEEF12 | M12-1.0 | 50                 |

## CLASS 10 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size     | Shop Pack Quantity | Bulk Quantity | Part #  | Size    | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|---------|---------|--------------------|---------------|
| FMHN006 | M6-1.0   | 100                | 8000          | FMHN016 | M16-2.0 | 25                 | 500           |
| FMHN008 | M8-1.25  | 100                | 3500          | FMHN018 | M18-2.5 | 25                 | 200           |
| FMHN010 | M10-1.5  | 50                 | 2500          | FMHN020 | M20-2.5 | 25                 | 300           |
| FMHN012 | M12-1.75 | 50                 | 1000          | FMHN024 | M24-3.0 | 10                 | 150           |
| FMHN014 | M14-2.0  | 25                 | 750           | FMHN030 | M30-3.5 | 10                 | -             |

## CLASS 10 • FINE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Quantity |
|----------|----------|--------------------|
| FMHNOF08 | M8-1.0   | 100                |
| FMHNOF10 | M10-1.25 | 50                 |
| FMHNOF12 | M12-1.5  | 50                 |

## CLASS 10 • EXTRA FINE THREAD • ZINC PLATED • IMPORTED

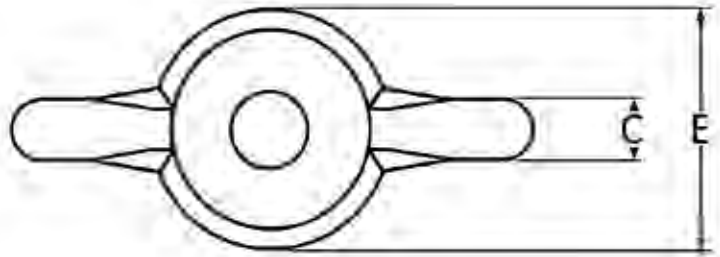
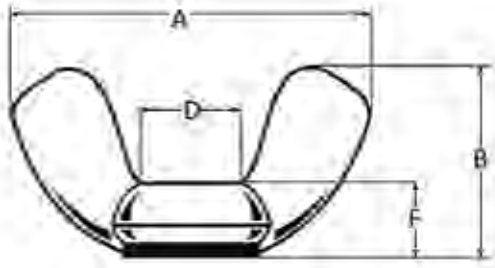
| Part #    | Size     | Shop Pack Quantity |
|-----------|----------|--------------------|
| FMHNOEF10 | M10-1.0  | 50                 |
| FMHNOEF12 | M12-1.25 | 50                 |

## 18-8 STAINLESS STEEL • COARSE THREAD • IMPORTED

| Part #   | Size     | Package Quantity |
|----------|----------|------------------|
| FSSMHN05 | M5-0.8   | 100              |
| FSSMHN06 | M6-1.0   | 100              |
| FSSMHN08 | M8-1.25  | 100              |
| FSSMHN10 | M10-1.5  | 50               |
| FSSMHN12 | M12-1.75 | 50               |

# METRIC WING NUTS

## METRIC WING NUTS



## TECHNICAL INFORMATION

### Dimensions

| Size | A<br>Ref | B<br>Ref | C<br>Min | E<br>Ref |
|------|----------|----------|----------|----------|
| M6   | 30.5     | 15       | 1.5      | 12.5     |
| M8   | 36.5     | 18       | 2.0      | 14.5     |

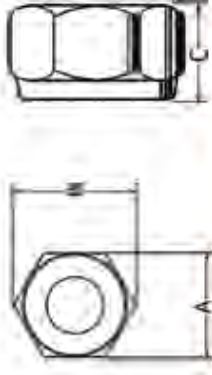
## COARSE THREAD • ZINC PLATED • IMPORTED

| Part # | Size    | Shop Pack Quantity |
|--------|---------|--------------------|
| FMWN06 | M6-1.0  | 100                |
| FMWN08 | M8-1.25 | 100                |

# METRIC NYLON INSERT LOCK NUTS

## TECHNICAL INFORMATION

### Dimensions



| Size | A   |       | B     |     | C   |     |
|------|-----|-------|-------|-----|-----|-----|
|      | Max | Min   | Min   | Max | Min | Max |
| M4   | 7   | 7.66  | 7.66  | 5   | 5   | 5   |
| M5   | 8   | 8.79  | 8.79  | 5   | 5   | 5   |
| M6   | 10  | 11.05 | 11.05 | 6   | 6   | 6   |
| M7   | 11  | 12.12 | 12.12 | 7.5 | 7.5 | 7.5 |
| M8   | 13  | 14.38 | 14.38 | 8   | 8   | 8   |
| M10  | 17  | 18.9  | 18.9  | 10  | 10  | 10  |
| M12  | 19  | 21.1  | 21.1  | 12  | 12  | 12  |
| M16  | 24  | 26.75 | 26.75 | 16  | 16  | 16  |
| M20  | 30  | 32.95 | 32.95 | 20  | 20  | 20  |

Metric Nylon Insert Lock Nuts are manufactured to DIN 985 specs.

### CLASS 8 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size     | Shop Pack Quantity | Bulk Quantity |
|---------|----------|--------------------|---------------|
| FMLNN04 | M4-0.7   | 100                | 5000          |
| FMLNN05 | M5-0.8   | 100                | 5000          |
| FMLNN06 | M6-1.0   | 100                | 3500          |
| FMLNN07 | M7-1.0   | 100                | -             |
| FMLNN08 | M8-1.25  | 100                | 3000          |
| FMLNN10 | M10-1.5  | 50                 | 2500          |
| FMLNN12 | M12-1.75 | 50                 | 1000          |
| FMLNN16 | M16-2.0  | 25                 | 500           |
| FMLNN20 | M20-2.5  | 25                 | 400           |

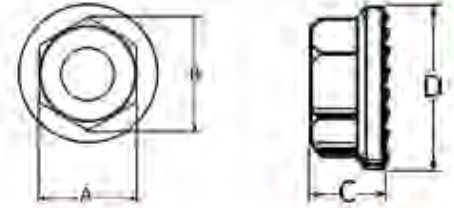
### CLASS 10 • COARSE THREAD • YELLOW ZINC PLATED • IMPORTED

| Part #   | Size     | Shop Pack Quantity |
|----------|----------|--------------------|
| FMLNN008 | M8-1.25  | 100                |
| FMLNN010 | M10-1.5  | 50                 |
| FMLNN012 | M12-1.75 | 50                 |

# METRIC FLANGE NUTS

## TECHNICAL INFORMATION

### Dimensions



| Size | A<br>Max | B<br>Min | C<br>Max | D<br>Max |
|------|----------|----------|----------|----------|
| M5   | 8        | 8.79     | 5        | 11.8     |
| M6   | 10       | 11.05    | 6        | 14.2     |
| M8   | 13       | 14.38    | 8        | 17.9     |
| M10  | 15       | 16.64    | 10       | 21.8     |
| M12  | 18       | 20.03    | 12       | 26       |
| M16  | 24       | 26.75    | 16       | 34.5     |

Metric Flange Nuts are manufactured to DIN 6923 specs.

### SERRATED • CLASS 8 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #   | Size      | Shop Pack Quantity |
|----------|-----------|--------------------|
| FMFNS05  | M5-0.8    | 100                |
| FMFNS06  | M6-1.0    | 100                |
| FMFNS08  | M8-1.25   | 100                |
| FMFNS010 | M10-1.5*  | 50                 |
| FMFNS012 | M12-1.75* | 50                 |

\*Class 10

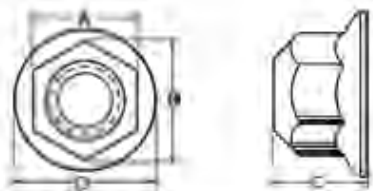
### NON SERRATED • CLASS 10 • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #  | Size     | Shop Pack Quantity |
|---------|----------|--------------------|
| FMFN006 | M6-1.0   | 100                |
| FMFN008 | M8-1.25  | 100                |
| FMFN010 | M10-1.5  | 50                 |
| FMFN012 | M12-1.75 | 50                 |

# METRIC FLANGE TOP LOCK NUTS & METRIC ALL METAL TOP LOCK NUTS

## METRIC FLANGE TOP LOCK NUTS

**CLASS 10 • COARSE THREAD • PHOSPHATE & OIL COATED • IMPORTED**



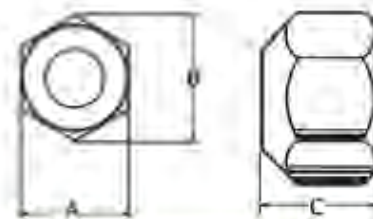
Metric Flange Top Lock Nuts are manufactured to DIN 6927 specs. Their dimensions are equal to DIN 6923 Flange Nuts except the nut height.

| Part #   | Size    | (C) Height | Shop Pack Quantity |
|----------|---------|------------|--------------------|
| FMFLN016 | M16-2.0 | 16.80      | 25                 |

## METRIC ALL METAL TOP LOCK NUTS

### TECHNICAL INFORMATION

#### Dimensions



| Size | A<br>Max | B<br>Min | C<br>Max |
|------|----------|----------|----------|
| M5   | 8        | 8.79     | 5.1      |
| M6   | 10       | 11.05    | 6        |
| M8   | 13       | 14.38    | 8        |
| M10  | 17       | 18.9     | 10       |
| M12  | 19       | 21.1     | 12       |
| M14  | 22       | 24.49    | 14       |
| M16  | 24       | 26.75    | 16       |
| M18  | 27       | 29.56    | 18.5     |
| M20  | 30       | 32.95    | 20       |

Metric All Metal Top Lock Nuts are manufactured to DIN 980 specs.

**CLASS 10 • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part #  | Size     | Shop Pack Quantity |
|---------|----------|--------------------|
| FMLN005 | M5-0.8   | 100                |
| FMLN006 | M6-1.0   | 100                |
| FMLN008 | M8-1.25  | 100                |
| FMLN010 | M10-1.5  | 50                 |
| FMLN012 | M12-1.75 | 50                 |
| FMLN014 | M14-2.0  | 25                 |
| FMLN016 | M16-2.0  | 25                 |
| FMLN018 | M18-2.5  | 25                 |
| FMLN020 | M20-2.5  | 25                 |

Don't see the size you're looking for? Call us for availability!



# METRIC FLAT WASHERS

## TECHNICAL INFORMATION

### Dimensions

| Size | ID      | OD      | Thickness |
|------|---------|---------|-----------|
|      | Nominal | Nominal | Nominal   |
| M3   | 3.2     | 7       | 0.5       |
| M4   | 4.3     | 9       | 0.8       |
| M5   | 5.3     | 10      | 1         |
| M6   | 6.4     | 12      | 1.6       |
| M7   | 7.4     | 14      | 1.6       |
| M8   | 8.4     | 16      | 1.6       |
| M10  | 10.5    | 20      | 2         |
| M12  | 13      | 24      | 2.5       |
| M14  | 15      | 28      | 2.5       |
| M16  | 17      | 30      | 3         |
| M18  | 19      | 34      | 3         |
| M20  | 21      | 37      | 3         |
| M24  | 25      | 44      | 4         |
| M30  | 31      | 56      | 4         |

### ZINC PLATED • IMPORTED

Metric Flat Washers are manufactured to DIN 125 specs.

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FMFW04 | M4   | 100                | 15000         |
| FMFW05 | M5   | 100                | 15000         |
| FMFW06 | M6   | 100                | 15000         |
| FMFW07 | M7   | 100                | -             |
| FMFW08 | M8   | 100                | 10000         |

| Part # | Size | Shop Pack Quantity | Bulk Quantity |
|--------|------|--------------------|---------------|
| FMFW10 | M10  | 100                | 5000          |
| FMFW12 | M12  | 100                | 2800          |
| FMFW14 | M14  | 50                 | 2000          |
| FMFW16 | M16  | 50                 | 1600          |
| FMFW20 | M20  | 25                 | 1000          |

### CLASS 10 • YELLOW ZINC PLATED • IMPORTED

| Part #  | Size | Shop Pack Quantity |
|---------|------|--------------------|
| FMFW006 | M6   | 100                |
| FMFW008 | M8   | 100                |
| FMFW010 | M10  | 100                |
| FMFW012 | M12  | 100                |
| FMFW014 | M14  | 50                 |

| Part #  | Size | Shop Pack Quantity |
|---------|------|--------------------|
| FMFW016 | M16  | 50                 |
| FMFW018 | M18  | 25                 |
| FMFW020 | M20  | 25                 |
| FMFW024 | M24  | 25                 |
| FMFW030 | M30  | 25                 |

### 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Package Quantity |
|----------|------|------------------|
| FSSMFW05 | M5   | 100              |
| FSSMFW06 | M6   | 100              |
| FSSMFW08 | M8   | 100              |
| FSSMFW10 | M10  | 50               |
| FSSMFW12 | M12  | 50               |

# METRIC SPLIT LOCK WASHERS

## TECHNICAL INFORMATION

### Dimensions

| Size | ID   |     | OD   |     |
|------|------|-----|------|-----|
|      | Min  | Max | Min  | Max |
| M3   | 3.1  |     | 6.2  |     |
| M4   | 4.1  |     | 7.6  |     |
| M5   | 5.1  |     | 9.2  |     |
| M6   | 6.1  |     | 11.8 |     |
| M7   | 7.1  |     | 12.8 |     |
| M8   | 8.1  |     | 14.8 |     |
| M10  | 10.2 |     | 18.1 |     |

| Size | ID   |     | OD   |     |
|------|------|-----|------|-----|
|      | Min  | Max | Min  | Max |
| M12  | 12.2 |     | 21.1 |     |
| M14  | 14.2 |     | 24.1 |     |
| M16  | 16.2 |     | 27.4 |     |
| M18  | 18.2 |     | 29.4 |     |
| M20  | 20.2 |     | 33.6 |     |
| M24  | 24.5 |     | 40   |     |
| M30  | 30.5 |     | 48.2 |     |

Metric Split Lock Washers are manufactured to DIN 127 specs. They are manufactured from spring steel and have a Rockwell Hardness of C44-C51.

### ZINC PLATED • IMPORTED

| Part # | Size | Shop Pack Quantity |
|--------|------|--------------------|
| FMLW04 | M4   | 100                |
| FMLW05 | M5   | 100                |
| FMLW06 | M6   | 100                |
| FMLW07 | M7   | 100                |
| FMLW08 | M8   | 100                |
| FMLW10 | M10  | 100                |
| FMLW12 | M12  | 100                |
| FMLW14 | M14  | 50                 |
| FMLW16 | M16  | 50                 |
| FMLW20 | M20  | 25                 |
| FMLW24 | M24  | 25                 |

### YELLOW ZINC PLATED • IMPORTED

| Part #  | Size | Shop Pack Quantity |
|---------|------|--------------------|
| FMLW006 | M6   | 100                |
| FMLW008 | M8   | 100                |
| FMLW010 | M10  | 100                |
| FMLW012 | M12  | 100                |
| FMLW014 | M14  | 50                 |
| FMLW016 | M16  | 50                 |
| FMLW018 | M18  | 25                 |
| FMLW020 | M20  | 25                 |

### 18-8 STAINLESS STEEL • IMPORTED

| Part #   | Size | Package Quantity |
|----------|------|------------------|
| FSSMLW05 | M5   | 100              |
| FSSMLW06 | M6   | 100              |
| FSSMLW08 | M8   | 100              |
| FSSMLW10 | M10  | 50               |
| FSSMLW12 | M12  | 50               |

# METRIC EXTERNAL TOOTH LOCK WASHERS & METRIC MACHINE SCREWS

## METRIC EXTERNAL TOOTH LOCK WASHERS ZINC PLATED • IMPORTED



Metric External Tooth Lock Washers are manufactured from spring steel to DIN 6797 specs. They have a Rockwell Hardness of C36-C43.

| Part #   | Size | OD | Thickness | Shop Pack Quantity |
|----------|------|----|-----------|--------------------|
| FMLWEX08 | M8   | 15 | 0.8       | 100                |

## METRIC MACHINE SCREWS

### PHILLIPS PAN HEAD • COARSE THREAD • ZINC PLATED • IMPORTED

#### TECHNICAL INFORMATION

#### Dimensions



| Size | Head OD |       | Head Height |      |
|------|---------|-------|-------------|------|
|      | Min     | Max   | Min         | Max  |
| M3.5 | 6.64    | 7.00  | 2.58        | 2.82 |
| M4   | 7.64    | 8.00  | 2.95        | 3.25 |
| M5   | 9.64    | 10.00 | 3.65        | 3.95 |
| M6   | 11.57   | 12.00 | 4.45        | 4.75 |
| M8   | 15.57   | 16.00 | 5.85        | 6.15 |

Metric Phillips Pan Head Machine Screws are manufactured to DIN 7985 specs.

| Part #       | Size         | Shop Pack Quantity |
|--------------|--------------|--------------------|
| FMSPPM035005 | M3.5-0.6 X 5 | 100                |
| FMSPPM035008 | M3.5-0.6 X 8 | 100                |
| FMSPPM04006  | M4-0.7 X 6   | 100                |
| FMSPPM04008  | M4-0.7 X 8   | 100                |
| FMSPPM04012  | M4-0.7 X 12  | 100                |
| FMSPPM04016  | M4-0.7 X 16  | 100                |
| FMSPPM04020  | M4-0.7 X 20  | 100                |
| FMSPPM04040  | M4-0.7 X 40  | 100                |
| FMSPPM05008  | M5-0.8 X 8   | 100                |
| FMSPPM05010  | M5-0.8 X 10  | 100                |
| FMSPPM05016  | M5-0.8 X 16  | 100                |
| FMSPPM05020  | M5-0.8 X 20  | 100                |

| Part #      | Size         | Shop Pack Quantity |
|-------------|--------------|--------------------|
| FMSPPM05025 | M5-0.8 X 25  | 100                |
| FMSPPM06010 | M6-1.0 X 10  | 100                |
| FMSPPM06012 | M6-1.0 X 12  | 100                |
| FMSPPM06016 | M6-1.0 X 16  | 100                |
| FMSPPM06020 | M6-1.0 X 20  | 100                |
| FMSPPM06025 | M6-1.0 X 25  | 100                |
| FMSPPM08010 | M8-1.25 X 10 | 100                |
| FMSPPM08016 | M8-1.25 X 16 | 100                |
| FMSPPM08020 | M8-1.25 X 20 | 100                |
| FMSPPM08025 | M8-1.25 X 25 | 100                |
| FMSPPM08040 | M8-1.25 X 40 | 100                |

### PHILLIPS FLAT HEAD • COARSE THREAD • ZINC PLATED • IMPORTED

| Part #     | Size         | Shop Pack Quantity |
|------------|--------------|--------------------|
| FMSPF08050 | M8-1.25 X 50 | 100                |

Don't see the size you're looking for? Call us for availability!



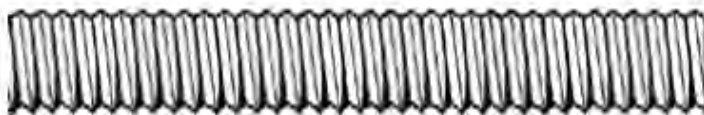
Metric Phillips Flat Head Machine Screws are manufactured to DIN 965 specs.

# METRIC THREADED ROD & METRIC SOCKET HEAD CAP SCREWS

## METRIC THREADED ROD

**LOW CARBON STEEL • COARSE THREAD • ZINC PLATED • IMPORTED**

| Part #   | Size          |
|----------|---------------|
| FMTR2061 | M6-1.0 X 1M   |
| FMTR2081 | M8-1.25 X 1M  |
| FMTR2101 | M10-1.5 X 1M  |
| FMTR2121 | M12-1.75 X 1M |



**GRADE B7 • COARSE THREAD • PLAIN FINISH • IMPORTED**

| Part #    | Size          |
|-----------|---------------|
| FMTRB7081 | M8-1.25 X 1M  |
| FMTRB7101 | M10-1.5 X 1M  |
| FMTRB7121 | M12-1.75 X 1M |
| FMTRB7141 | M14-2.0 X 1M  |

| Part #    | Size         |
|-----------|--------------|
| FMTRB7161 | M16-2.0 X 1M |
| FMTRB7201 | M20-2.5 X 1M |
| FMTRB7221 | M22-2.5 X 1M |

## METRIC SOCKET HEAD CAP SCREWS

### TECHNICAL INFORMATION

#### Dimensions



| Size | Allen Wrench Size | A     |       | B     |       |
|------|-------------------|-------|-------|-------|-------|
|      |                   | Max   | Min   | Max   | Min   |
| M4   | 3                 | 7.22  | 6.78  | 4.00  | 3.82  |
| M5   | 4                 | 8.72  | 8.28  | 5.00  | 4.82  |
| M6   | 5                 | 10.22 | 9.78  | 6.00  | 5.70  |
| M8   | 6                 | 13.27 | 12.73 | 8.00  | 7.64  |
| M10  | 8                 | 16.27 | 15.73 | 10.00 | 9.64  |
| M12  | 10                | 18.27 | 17.73 | 12.00 | 11.57 |
| M14  | 12                | 21.33 | 20.67 | 14.00 | 13.57 |
| M16  | 14                | 24.33 | 23.67 | 16.00 | 15.57 |

**CLASS 12.9 • COARSE THREAD • PLAIN FINISH • IMPORTED**

Metric Socket Head Cap Screws are manufactured to DIN 912 specs. We stock class 12.9 which are basically equivalent to a grade 9 in strength and hardness.

| Part #      | Size        | Shop Pack Quantity |
|-------------|-------------|--------------------|
| FMSHCS04010 | M4-0.7 X 10 | 100                |
| FMSHCS04012 | M4-0.7 X 12 | 100                |
| FMSHCS04016 | M4-0.7 X 16 | 100                |
| FMSHCS04020 | M4-0.7 X 20 | 100                |
| FMSHCS04025 | M4-0.7 X 25 | 100                |

| Part #      | Size        | Shop Pack Quantity |
|-------------|-------------|--------------------|
| FMSHCS04030 | M4-0.7 X 30 | 100                |
| FMSHCS04035 | M4-0.7 X 35 | 100                |
| FMSHCS04040 | M4-0.7 X 40 | 100                |
| FMSHCS04045 | M4-0.7 X 45 | 100                |
| FMSHCS04050 | M4-0.7 X 50 | 100                |

# METRIC SOCKET HEAD CAP SCREWS

## CLASS 12.9 • COARSE THREAD • PLAIN FINISH • IMPORTED \*CONTINUED FROM PREVIOUS PAGE

| Part #      | Size         | Shop Pack Quantity |
|-------------|--------------|--------------------|
| FMSHCS05008 | M5-0.8 X 8   | 100                |
| FMSHCS05010 | M5-0.8 X 10  | 100                |
| FMSHCS05012 | M5-0.8 X 12  | 100                |
| FMSHCS05016 | M5-0.8 X 16  | 100                |
| FMSHCS05020 | M5-0.8 X 20  | 100                |
| FMSHCS05025 | M5-0.8 X 25  | 100                |
| FMSHCS05030 | M5-0.8 X 30  | 100                |
| FMSHCS05035 | M5-0.8 X 35  | 100                |
| FMSHCS05040 | M5-0.8 X 40  | 100                |
| FMSHCS05045 | M5-0.8 X 45  | 100                |
| FMSHCS05050 | M5-0.8 X 50  | 100                |
| FMSHCS05055 | M5-0.8 X 55  | 100                |
| FMSHCS05060 | M5-0.8 X 60  | 100                |
| FMSHCS05065 | M5-0.8 X 65  | 100                |
| FMSHCS05080 | M5-0.8 X 80  | 100                |
| FMSHCS05100 | M5-0.8 X 100 | 100                |
| FMSHCS06012 | M6-1.0 X 12  | 100                |
| FMSHCS06016 | M6-1.0 X 16  | 100                |
| FMSHCS06020 | M6-1.0 X 20  | 100                |
| FMSHCS06025 | M6-1.0 X 25  | 100                |
| FMSHCS06030 | M6-1.0 X 30  | 100                |
| FMSHCS06035 | M6-1.0 X 35  | 100                |
| FMSHCS06040 | M6-1.0 X 40  | 100                |
| FMSHCS06045 | M6-1.0 X 45  | 100                |
| FMSHCS06050 | M6-1.0 X 50  | 100                |
| FMSHCS06055 | M6-1.0 X 55  | 100                |
| FMSHCS06060 | M6-1.0 X 60  | 100                |
| FMSHCS06070 | M6-1.0 X 70  | 100                |
| FMSHCS06080 | M6-1.0 X 80  | 100                |
| FMSHCS06100 | M6-1.0 X 100 | 100                |
| FMSHCS08012 | M8-1.25 X 12 | 100                |
| FMSHCS08016 | M8-1.25 X 16 | 100                |
| FMSHCS08020 | M8-1.25 X 20 | 100                |
| FMSHCS08025 | M8-1.25 X 25 | 100                |
| FMSHCS08030 | M8-1.25 X 30 | 100                |
| FMSHCS08035 | M8-1.25 X 35 | 100                |
| FMSHCS08040 | M8-1.25 X 40 | 100                |
| FMSHCS08045 | M8-1.25 X 45 | 100                |
| FMSHCS08050 | M8-1.25 X 50 | 50                 |
| FMSHCS08060 | M8-1.25 X 60 | 50                 |

| Part #      | Size           | Shop Pack Quantity |
|-------------|----------------|--------------------|
| FMSHCS08070 | M8-1.25 X 70   | 50                 |
| FMSHCS10020 | M10-1.5 X 20   | 50                 |
| FMSHCS10025 | M10-1.5 X 25   | 50                 |
| FMSHCS10030 | M10-1.5 X 30   | 50                 |
| FMSHCS10035 | M10-1.5 X 35   | 50                 |
| FMSHCS10040 | M10-1.5 X 40   | 50                 |
| FMSHCS10050 | M10-1.5 X 50   | 50                 |
| FMSHCS10060 | M10-1.5 X 60   | 50                 |
| FMSHCS10070 | M10-1.5 X 70   | 50                 |
| FMSHCS10080 | M10-1.5 X 80   | 25                 |
| FMSHCS10090 | M10-1.5 X 90   | 25                 |
| FMSHCS10120 | M10-1.5 X 120  | 25                 |
| FMSHCS12025 | M12-1.75 X 25  | 50                 |
| FMSHCS12030 | M12-1.75 X 30  | 50                 |
| FMSHCS12035 | M12-1.75 X 35  | 50                 |
| FMSHCS12040 | M12-1.75 X 40  | 50                 |
| FMSHCS12050 | M12-1.75 X 50  | 50                 |
| FMSHCS12060 | M12-1.75 X 60  | 50                 |
| FMSHCS12070 | M12-1.75 X 70  | 50                 |
| FMSHCS12080 | M12-1.75 X 80  | 25                 |
| FMSHCS12100 | M12-1.75 X 100 | 25                 |
| FMSHCS12110 | M12-1.75 X 110 | 25                 |
| FMSHCS14020 | M14-2.0 X 20   | 25                 |
| FMSHCS14025 | M14-2.0 X 25   | 25                 |
| FMSHCS14030 | M14-2.0 X 30   | 25                 |
| FMSHCS14040 | M14-2.0 X 40   | 25                 |
| FMSHCS14050 | M14-2.0 X 50   | 25                 |
| FMSHCS14060 | M14-2.0 X 60   | 25                 |
| FMSHCS14140 | M14-2.0 X 140  | 25                 |
| FMSHCS16025 | M16-2.0 X 25   | 25                 |
| FMSHCS16030 | M16-2.0 X 30   | 25                 |
| FMSHCS16035 | M16-2.0 X 35   | 25                 |
| FMSHCS16040 | M16-2.0 X 40   | 25                 |
| FMSHCS16045 | M16-2.0 X 45   | 25                 |
| FMSHCS16050 | M16-2.0 X 50   | 25                 |
| FMSHCS16060 | M16-2.0 X 60   | 25                 |
| FMSHCS16070 | M16-2.0 X 70   | 25                 |
| FMSHCS16080 | M16-2.0 X 80   | 20                 |
| FMSHCS16100 | M16-2.0 X 100  | 20                 |

# METRIC SOCKET HEAD CAP SCREWS & METRIC SOCKET FLAT HEAD CAP SCREWS

## METRIC SOCKET HEAD CAP SCREWS

### CLASS 12.9 • FINE THREAD • PLAIN FINISH • IMPORTED

| Part #       | Size          | Shop Pack Quantity |
|--------------|---------------|--------------------|
| FMSHCSF10020 | M10-1.25 X 20 | 50                 |

### LOW HEAD • CLASS 10.9 • COARSE THREAD • PLAIN FINISH • IMPORTED

Low Head Socket Head Cap Screws are manufactured to DIN 7984 Specs. They are used where low clearance doesn't allow for standard head height.

| Part #        | Size         | Key Size | Head Height | Shop Pack Quantity |
|---------------|--------------|----------|-------------|--------------------|
| FMSHCSLH08040 | M8-1.25 X 40 | 5        | 5           | 100                |

## METRIC SOCKET FLAT HEAD CAP SCREWS

### TECHNICAL INFORMATION

#### Dimensions



| Size | Allen Wrench Size | Head OD |       |
|------|-------------------|---------|-------|
|      |                   | Max     | Min   |
| M4   | 2.5               | 8       | 7.64  |
| M6   | 4                 | 12      | 11.57 |
| M8   | 5                 | 16      | 15.57 |
| M10  | 6                 | 20      | 19.48 |
| M12  | 8                 | 24      | 23.48 |
| M16  | 10                | 30      | 29.48 |

### CLASS 10.9 • COARSE THREAD • PLAIN FINISH • IMPORTED

Metric Socket Flat Head Cap Screws are manufactured to DIN 7991 specs.

| Part #      | Size        | Shop Pack Quantity |
|-------------|-------------|--------------------|
| FMSFCS04008 | M4-0.7 X 8  | 100                |
| FMSFCS04010 | M4-0.7 X 10 | 100                |
| FMSFCS04012 | M4-0.7 X 12 | 100                |
| FMSFCS04016 | M4-0.7 X 16 | 100                |
| FMSFCS04020 | M4-0.7 X 20 | 100                |
| FMSFCS04025 | M4-0.7 X 25 | 100                |
| FMSFCS04030 | M4-0.7 X 30 | 100                |
| FMSFCS04035 | M4-0.7 X 35 | 100                |
| FMSFCS05010 | M5-0.8 X 10 | 100                |
| FMSFCS05012 | M5-0.8 X 12 | 100                |
| FMSFCS05016 | M5-0.8 X 16 | 100                |
| FMSFCS05020 | M5-0.8 X 20 | 100                |
| FMSFCS05025 | M5-0.8 X 25 | 100                |
| FMSFCS05030 | M5-0.8 X 30 | 100                |
| FMSFCS05035 | M5-0.8 X 35 | 100                |

| Part #      | Size         | Shop Pack Quantity |
|-------------|--------------|--------------------|
| FMSFCS06012 | M6-1.0 X 12  | 100                |
| FMSFCS06016 | M6-1.0 X 16  | 100                |
| FMSFCS06020 | M6-1.0 X 20  | 100                |
| FMSFCS06025 | M6-1.0 X 25  | 100                |
| FMSFCS06030 | M6-1.0 X 30  | 100                |
| FMSFCS06035 | M6-1.0 X 35  | 100                |
| FMSFCS06040 | M6-1.0 X 40  | 100                |
| FMSFCS08012 | M8-1.25 X 12 | 100                |
| FMSFCS08016 | M8-1.25 X 16 | 100                |
| FMSFCS08020 | M8-1.25 X 20 | 100                |
| FMSFCS08025 | M8-1.25 X 25 | 100                |
| FMSFCS08030 | M8-1.25 X 30 | 100                |
| FMSFCS08035 | M8-1.25 X 35 | 100                |
| FMSFCS08040 | M8-1.25 X 40 | 100                |
| FMSFCS10020 | M10-1.5 X 20 | 50                 |

Don't see the size you're looking for? Call us for availability!

# METRIC SOCKET FLAT HEAD CAP SCREWS & METRIC SOCKET BUTTON HEAD CAP SCREW

## METRIC SOCKET FLAT HEAD CAP SCREWS

**CLASS 10.9 • COARSE THREAD • PLAIN FINISH • IMPORTED**

| Part #      | Size          | Shop Pack Quantity |
|-------------|---------------|--------------------|
| FMSFCS10025 | M10-1.5 X 25  | 50                 |
| FMSFCS10030 | M10-1.5 X 30  | 50                 |
| FMSFCS10040 | M10-1.5 X 40  | 50                 |
| FMSFCS10050 | M10-1.5 X 50  | 50                 |
| FMSFCS12020 | M12-1.75 X 20 | 50                 |
| FMSFCS12030 | M12-1.75 X 30 | 50                 |
| FMSFCS12035 | M12-1.75 X 35 | 50                 |

| Part #      | Size          | Shop Pack Quantity |
|-------------|---------------|--------------------|
| FMSFCS12040 | M12-1.75 X 40 | 50                 |
| FMSFCS12050 | M12-1.75 X 50 | 50                 |
| FMSFCS12060 | M12-1.75 X 60 | 50                 |
| FMSFCS16040 | M16-2.0 X 40  | 25                 |
| FMSFCS16050 | M16-2.0 X 50  | 25                 |
| FMSFCS16120 | M16-2.0 X 120 | 25                 |

## METRIC SOCKET BUTTON HEAD CAP SCREW

### TECHNICAL INFORMATION



| Size | Allen Wrench Size | Head Height | Head Diameter |
|------|-------------------|-------------|---------------|
| M3   | M2                | 1.53        | 5.55          |
| M4   | M2.5              | 2.08        | 7.42          |
| M5   | M3                | 2.63        | 9.32          |
| M6   | M4                | 3.15        | 10.29         |
| M8   | M5                | 4.25        | 13.79         |
| M10  | M6                | 5.35        | 17.29         |
| M12  | M8                | 6.42        | 20.74         |
| M16  | M10               | 8.62        | 27.74         |

| Part #       | Size        | Package Quantity |
|--------------|-------------|------------------|
| FMSBCS04020  | M4-.70 X 20 | 100              |
| FMSBCS04025  | M4-.7 X 25  | 100              |
| FMSBCS04030  | M4-.70 X 30 | 100              |
| FMSBCS05010  | M5-.8 X 10  | 100              |
| FMSBCS05012  | M5-.8 X 12  | 100              |
| FMSBCS05016  | M5-.8 X 16  | 100              |
| FMSBCS05020  | M5-.8 X 20  | 100              |
| FMSBCS05025  | M5-.8 X 25  | 100              |
| FMSBCS05030  | M5-.8 X 30  | 100              |
| FMSBCS06012  | M6-1.0 X 12 | 100              |
| FMSBCS06016  | M6-1.0 X 16 | 100              |
| FMSBCS06020  | M6-1.0 X 20 | 100              |
| FMSBCS06025  | M6-1.0 X 25 | 100              |
| FMSBCS06025Z | M6-1.0 X 25 | 100              |
| FMSBCS06030  | M6-1.0 X 30 | 100              |
| FMSBCS06045  | M6-1.0 X 45 | 100              |

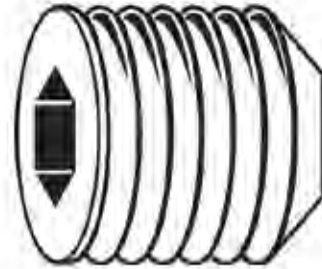
| Part #      | Size         | Package Quantity |
|-------------|--------------|------------------|
| FMSBCS08020 | M8-1.25 X 20 | 100              |
| FMSBCS08025 | M8-1.25 X 25 | 100              |
| FMSBCS08030 | M8-1.25 X 30 | 100              |
| FMSBCS08035 | M8-1.25 X 35 | 100              |
| FMSBCS08040 | M8-1.25 X 40 | 100              |
| FMSBCS10016 | M10-1.5 X 16 | 100              |
| FMSBCS10020 | M10-1.5 X 20 | 100              |
| FMSBCS10025 | M10-1.5 X 25 | 100              |
| FMSBCS10030 | M10-1.5 X 30 | 100              |
| FMSBCS10035 | M10-1.5 X 35 | 100              |
| FMSBCS10040 | M10-1.5 X 40 | 100              |
| FMSBCS12025 | M12-1.5 X 25 | 100              |
| FMSBCS12030 | M12-1.5 X 30 | 100              |
| FMSBCS12035 | M12-1.5 X 35 | 100              |
| FMSBCS12040 | M12-1.5 X 40 | 100              |
| FMSBCS12050 | M12-1.5 X 50 | 100              |

# METRIC SOCKET SET SCREWS

## TECHNICAL INFORMATION

### Dimensions

| Size | Allen Wrench Size | Point Diameter |
|------|-------------------|----------------|
|      |                   | Max            |
| M3   | 1.5               | 1.4            |
| M4   | 2                 | 2.0            |
| M5   | 2.5               | 2.5            |
| M6   | 3                 | 3.0            |
| M8   | 4                 | 5.0            |
| M10  | 5                 | 6.0            |
| M12  | 6                 | 8.0            |



### CUP POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

Metric Socket Set Screws Cup Point are manufactured to DIN 916 specs.

| Part #     | Size        | Shop Pack Qty |
|------------|-------------|---------------|
| FMSSSO0303 | M3-0.5 X 3  | 100           |
| FMSSSO0403 | M4-0.7 X 3  | 100           |
| FMSSSO0404 | M4-0.7 X 4  | 100           |
| FMSSSO0408 | M4-0.7 X 8  | 100           |
| FMSSSO0412 | M4-0.7 X 12 | 100           |
| FMSSSO0506 | M5-0.8 X 6  | 100           |
| FMSSSO0508 | M5-.8 X 8   | 100           |
| FMSSSO0512 | M5-0.8 X 12 | 100           |
| FMSSSO0520 | M5-0.8 X 20 | 100           |
| FMSSSO0550 | M5-0.8 X 50 | 100           |
| FMSSSO0606 | M6-1.0 X 6  | 100           |
| FMSSSO0608 | M6-1.0 X 8  | 100           |
| FMSSSO0610 | M6-1.0 X 10 | 100           |
| FMSSSO0612 | M6-1.0 X 12 | 100           |
| FMSSSO0616 | M6-1.0 X 16 | 100           |
| FMSSSO0808 | M8-1.25 X 8 | 100           |

| Part #     | Size          | Shop Pack Qty |
|------------|---------------|---------------|
| FMSSSO0810 | M8-1.25 X 10  | 100           |
| FMSSSO0816 | M8-1.25 X 16  | 100           |
| FMSSSO0820 | M8-1.25 X 20  | 100           |
| FMSSSO0830 | M8-1.25 X 30  | 100           |
| FMSSSO1010 | M10-1.5 X 10  | 50            |
| FMSSSO1012 | M10-1.5 X 12  | 50            |
| FMSSSO1016 | M10-1.5 X 16  | 50            |
| FMSSSO1020 | M10-1.5 X 20  | 50            |
| FMSSSO1025 | M10-1.5 X 25  | 50            |
| FMSSSO1216 | M12-1.75 X 16 | 50            |
| FMSSSO1220 | M12-1.75 X 20 | 50            |
| FMSSSO1230 | M12-1.75 X 30 | 50            |
| FMSSSO1416 | M14-2.0 X 16  | 25            |
| FMSSSO1425 | M14-2.0 X 25  | 25            |
| FMSSSO1435 | M14-2.0 X 35  | 25            |
| FMSSSO1620 | M16-2.0 X 20  | 25            |

### FLAT POINT • COARSE THREAD • PLAIN FINISH • IMPORTED

Metric Socket Set Screws Flat Point are manufactured to DIN 913 specs.

| Part #      | Size       | Point OD | Shop Pack Qty |
|-------------|------------|----------|---------------|
| FMSSOFL0608 | M6-1.0 X 8 | 4        | 100           |



# METRIC SPRING PINS SOCKET SET SCREWS & METRIC HEX WELD NUTS

## METRIC SPRING PINS SOCKET SET SCREWS

| Part #      | Size      | Package Quantity |
|-------------|-----------|------------------|
| FMSPP015010 | M1.5 X 10 | 25               |
| FMSPP015016 | M1.5 X 16 | 25               |
| FMSPP020010 | M2 X 10   | 25               |
| FMSPP020020 | M2 X 20   | 25               |
| FMSPP025016 | M2.5 X 16 | 25               |
| FMSPP025026 | M2.5 X 26 | 25               |
| FMSPP030016 | M3 X 16   | 25               |
| FMSPP030026 | M3 X 26   | 25               |
| FMSPP030040 | M3 X 40   | 25               |
| FMSPP040024 | M4 X 24   | 25               |
| FMSPP040030 | M4 X 30   | 25               |
| FMSPP040040 | M4 X 40   | 25               |
| FMSPP050026 | M5 X 26   | 25               |
| FMSPP050036 | M5 X 36   | 25               |

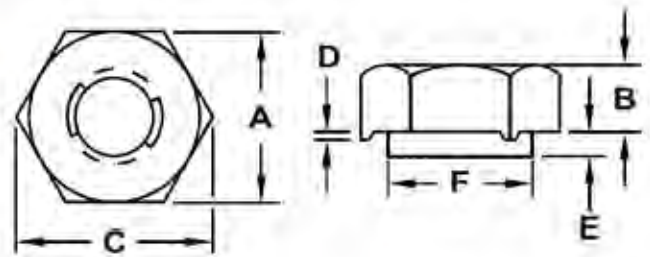


| Part #      | Size     | Package Quantity |
|-------------|----------|------------------|
| FMSPP050040 | M5 X 40  | 25               |
| FMSPP050050 | M5 X 50  | 25               |
| FMSPP060028 | M6 X 28  | 25               |
| FMSPP060040 | M6 X 40  | 25               |
| FMSPP060050 | M6 X 50  | 25               |
| FMSPP080030 | M8 X 30  | 25               |
| FMSPP080050 | M8 X 50  | 25               |
| FMSPP100030 | M10 X 30 | 10               |
| FMSPP100050 | M10 X 50 | 10               |
| FMSPP120060 | M12 X 60 | 10               |

## METRIC HEX WELD NUTS

### TECHNICAL INFORMATION

| Size    | A     | B    | D    | E    |
|---------|-------|------|------|------|
| M5-0.8  | 10.00 | 4.00 | 0.70 | 0.40 |
| M6-1.0  | 11.00 | 5.00 | 0.75 | 0.40 |
| M8-1.25 | 14.00 | 6.50 | 0.90 | 0.50 |
| M10-1.5 | 17.00 | 8.00 | 1.15 | 0.65 |
| M8      | 4     | 5.0  |      |      |
| M10     | 5     | 6.0  |      |      |
| M12     | 6     | 8.0  |      |      |



### PLAIN FINISH • MADE IN USA

| Part #   | Size    | Package Size |
|----------|---------|--------------|
| FMHWNL05 | M5-0.8  | 100          |
| FMHWNL06 | M6-1.0  | 100          |
| FMHWNL08 | M8-1.25 | 100          |
| FMHWNL10 | M10-1.5 | 50           |



### 18-8 STAINLESS STEEL • MADE IN USA

| Part #     | Size   | Package Size |
|------------|--------|--------------|
| FSSMHWNL05 | M5-0.8 | 100          |
| FSSMHWNL06 | M6-1.0 | 100          |

# THREAD REPAIR



## E-Z COIL™ INSERTS

E-Z Coil™ inserts – also known as wire or helical threaded inserts – quickly repair or reinforce tapped holes in soft metals. Made from 18-8 stainless steel wire, E-Z Coil™ inserts provide strong internal threads that are corrosion resistant and withstand temperatures to 800°F.

E-Z Coil™ inserts are made of 18-8 stainless steel wire. The wire is formed into a diamond pattern and then wound into a spring. Before being installed, the insert diameter is larger than the tapped hole. The insert diameter is reduced during installation, allowing the insert to thread into the hole. Once properly installed, the radial pressure of the released insert holds the insert firmly in place.



| Part #   | Size     | Length | Free OD |      | Drill Size |
|----------|----------|--------|---------|------|------------|
|          |          |        | MIN     | MAX  |            |
| FHC20615 | 10-24    | .285   | .240    | .248 | 13/64      |
| FHC20815 | 1/4-20   | .375   | .314    | .328 | 17/64      |
| FHC20915 | 5/16-18  | .469   | .384    | .392 | 21/64      |
| FHC21015 | 3/8-16   | .563   | .455    | .463 | 25/64      |
| FHC21115 | 7/16-14  | .656   | .530    | .538 | 29/64      |
| FHC21215 | 1/2-13   | .75    | .600    | .610 | 33/64      |
| FHC21415 | 5/8-11   | .938   | .742    | .752 | 21/32      |
| FHC21515 | 3/4-10   | 1.125  | .880    | .892 | 25/32      |
| FHC30615 | 10-32    | .285   | .233    | .241 | 13/64      |
| FHC30815 | 1/4-28   | .375   | .299    | .307 | 17/64      |
| FHC30915 | 5/16-24  | .469   | .370    | .378 | 21/64      |
| FHC31015 | 3/8-24   | .563   | .433    | .441 | 25/64      |
| FHC31115 | 7/16-20  | .656   | .507    | .515 | 29/64      |
| FHC31215 | 1/2-20   | .75    | .567    | .577 | 33/64      |
| FHC31415 | 5/8-18   | .938   | .694    | .706 | 41/64      |
| FHC31515 | 3/4-16   | 1.125  | .831    | .841 | 49/64      |
| FHC40415 | M4-0.7   | 6MM    | 4.8     | 4.9  | 4.1        |
| FHC40515 | M5-0.8   | 7.5MM  | 6.0     | 6.2  | 5.2        |
| FHC40615 | M6-1.0   | 9MM    | 7.3     | 7.4  | 6.2        |
| FHC40815 | M8-1.25  | 12MM   | 9.7     | 9.9  | 8.3        |
| FHC40915 | M10-1.5  | 15MM   | 11.9    | 12.1 | 10.3       |
| FHC41015 | M12-1.75 | 18MM   | 14.3    | 14.5 | 12.4       |
| FHC41215 | M16-2.0  | 24MM   | 18.6    | 18.9 | 16.5       |
| FHC50915 | M10-1.25 | 15MM   | 11.6    | 11.9 | 10.3       |
| FHC51015 | M12-1.5  | 18MM   | 13.9    | 14.3 | 12.4       |

# THREAD REPAIR



## E-Z LOK™ SOLID WALL INSERTS

E-Z LOK™ (Solid Wall) threaded inserts for metal are ideal for repairing or reinforcing threaded holes in soft metals like aluminum, magnesium, and cast iron. All E-Z LOK™ (Solid Wall) inserts install with standard tools. No special taps or installation tools needed. External threads are standard size and pitch to permit the use of standard drills and taps. E-Z LOK™ (Solid Wall) threaded inserts can be installed with a screwdriver, bolt/jam nut (except IC series), or optional power drive tool.

E-Z LOK™ (Solid Wall) threaded inserts will not back out or vibrate loose. Immediately upon installation, the pre-applied, microencapsulated adhesive begins to set and the new newly installed insert is fastener-ready in 3-5 minutes. The adhesive seals against liquids and gases to 6,000 psi when fully cured (72 hours).

E-Z LOK™ (Solid Wall) threaded inserts for metal are removable. Unlike inserts that are mechanically locked in place with keys or pins, which need to be drilled out, these inserts can be removed with a bolt extractor (overcoming the resistance to torque-out produced by the adhesive) or by heating the insert to a temperature above 300°F (149°C), at which point the adhesive will release.



| Part #     | Size    | External Thread | Length | Drill Size | Min Full Thread Depth |
|------------|---------|-----------------|--------|------------|-----------------------|
| FTI329-3   | 10-24   | 3/8-16          | .406   | 5/16       | 15/32                 |
| FTI329-4   | 1/4-20  | 7/16-14         | .437   | 23/64      | 1/2                   |
| FTI329-5   | 5/16-18 | 1/2-13          | .484   | 27/64      | 9/16                  |
| FTI329-6   | 3/8-16  | 9/16-12         | .515   | 31/64      | 19/32                 |
| FTI329-7   | 7/16-14 | 5/8-11          | .656   | 17/32      | 23/32                 |
| FTI329-8   | 1/2-13  | 3/4-10          | .656   | 21/32      | 3/4                   |
| FTI329-10  | 5/8-11  | 7/8-9           | .687   | 49/64      | 13/16                 |
| FTI329-12  | 3/4-10  | 1-8             | .781   | 7/8        | 7/8                   |
| FTI329-332 | 10-32   | 3/8-16          | .406   | 5/16       | 15/32                 |
| FTI329-428 | 1/4-28  | 7/16-14         | .437   | 23/64      | 1/2                   |
| FTI329-524 | 5/16-24 | 1/2-13          | .484   | 27/64      | 9/16                  |
| FTI329-624 | 3/8-24  | 9/16-12         | .515   | 31/64      | 19/32                 |
| FTI329-720 | 7/16-20 | 5/8-11          | .656   | 17/32      | 23/32                 |

| Part #      | Size     | External Thread | Length | Drill Size | Min Full Thread Depth |
|-------------|----------|-----------------|--------|------------|-----------------------|
| FTI329-820  | 1/2-20   | 3/4-10          | .656   | 21/32      | 3/4                   |
| FTI329-10F  | 5/8-18   | 7/8-9           | .687   | 49/64      | 13/16                 |
| FTI329-1216 | 3/4-16   | 1-8             | .781   | 7/8        | 7/8                   |
| FTI450-4    | M4-0.7   | M8-1.25         | .295   | 6.9MM      | 9MM                   |
| FTI450-5    | M5-0.8   | M8-1.25         | .295   | 6.9MM      | 9MM                   |
| FTI650-6    | M6-1.0   | 3/8-16          | .406   | 5/16       | 15/32                 |
| FTI650-8    | M8-1.25  | 1/2-13          | .484   | 27/64      | 9/16                  |
| FTI650-10   | M10-1.5  | 9/16-12         | .515   | 31/64      | 19/32                 |
| FTI650-12   | M12-1.75 | 3/4-10          | .656   | 21/32      | 3/4                   |
| FTI650-14   | M14-2.0  | 7/8-9           | .687   | 49/64      | 13/16                 |
| FTI650-16   | M16-2.0  | 1-8             | .781   | 7/8        | 7/8                   |
| FTI650-10F  | M10-1.25 | 9/16-12         | .515   | 31/64      | 19/32                 |



Power drive tools are available for high volume E-Z Lok™ Solid Wall Insert installation

# ASSORTMENTS

**WE HAVE ASSORTMENTS FOR MANY SMALL PARTS. ALL ASSORTMENTS ARE COMPLETELY CUSTOMIZABLE IF THEY DON'T FIT YOUR NEEDS PERFECTLY.**



**Let our assortments save you money by:**

1. Keeping things organized. Having everything you need in neat well organized drawers means you don't have to go searching when you need it.
2. Saving trips to the store. When you spend half an hour to run for a few tiny parts it quickly eats into your day and puts you behind schedule.
3. Paying lower prices for the product. The prices you pay us are typically a significant savings over buying them retail when you run after them.

**CALL US AND WE WILL E-MAIL OR FAX YOU DETAILS ON ANY ASSORTMENT.**

| Drawer Assortments |   |
|--------------------|---|
| Part#              | Descriptions  |
| ABLFA              | BRAKE LINE FITTINGS ASSORTMENT 140 PC (6 SIZES)                     |
| ELA1650            | ELECTRICAL TERMINALS 1650 PC (32 SIZES)                             |
| ELA600             | ELECTRICAL TERMINALS 600 PC (12 SIZES)                              |
| ELFAATO            | FUSE ASSORTMENT ATO 120 PC (6 SIZES)                                |
| ELFAMAX            | FUSE ASSORTMENT MAXI 16 PC (6 SIZES)                                |
| ELFAMIN            | FUSE ASSORTMENT MIN 120 PC (6 SIZES)                                |
| ELFAMINMAX         | FUSE ASSORTMENT MIN/MAXI 132 PC (14 SIZES)                          |
| ELHSA300           | HEATSHRINK ELECTRICAL TERMINALS 300 PC (12 SIZES)                   |
| ELHSA700           | HEATSHRINK ELECTRICAL TERMINALS 700 PC (24 SIZES)                   |
| EQ407A             | KEYSTOCK ASSORTMENT UNDERSIZED 31PC (7 SIZES)                       |
| EQMORAS            | METRIC O-RING ASSORTMENT 419 PC (32 SIZES)                          |
| EQMZA75            | GREASE FITTING ASSORTMENT METRIC 75 PC (11 SIZES)                   |
| EQORAS             | O-RING ASSORTMENT 407 PC (32 SIZES)                                 |
| EQSCA68            | SHAFT COLLAR ASSORTMENT 68 PC (16 SIZES)                            |
| EQSCDA30           | DOUBLE SPLIT SHAFT COLLAR ASSORTMENT 28 PC (11 SIZES)               |
| EQZA164            | GREASE FITTING ASSORTMENT METRIC & STANDARD GOLD 164 PC (31 SIZES)  |
| EQZA55             | GREASE FITTING ASSORTMENT STANDARD 55 PC (6 SIZES)                  |
| EQZA89             | GREASE FITTING ASSORTMENT STANDARD 89 PC (17 SIZES)                 |
| EQZA99             | GREASE FITTING ASSORTMENT METRIC & STANDARD SILVER 99 PC (18 SIZES) |
| EQZDA30            | GREASE FITTING ASSORTMENT DRIVE ZERKS 30 PC (3 SIZES)               |
| FBPA95             | BRIDGE PIN ASSORTMENT 95 PC (6 SIZES)                               |
| FCLA38             | CLEVIS PIN ASSORTMENT 38 PC (12 SIZES)                              |
| FCPA1240           | COTTER PIN ASSORTMENT 24 SIZES (1240 PC)                            |
| FCPA50             | COTTER PIN ASSORTMENT LARGER SIZES 50 PC (6 SIZES)                  |
| FCPA725            | COTTER PIN ASSORTMENT 725 PC (12 SIZES)                             |
| FECA325            | E CLIP ASSORTMENT 325 PC (13 SIZES)                                 |
| FFEWA550           | FENDER WASHER ASSORTMENT 550 PC (22 SIZES)                          |
| FLPA48             | LOCK PIN ASSORTMENT 48 PC (11 SIZES)                                |
| FMBN0A86           | NARROW RIM MACHINERY BUSHING 10 GA ASSORTMENT 86 PC (12 SIZES)      |
| FMBN4A280          | NARROW RIM MACHINERY BUSHING 14 GA ASSORTMENT 280 PC (14 SIZES)     |
| FMBN8A85           | NARROW RIM MACHINERY BUSHING 18 GA ASSORTMENT 85 PC (12 SIZES)      |

| Drawer Assortments |  |
|--------------------|--|
| Part#              | Descriptions   |
| FMBNA488           | NARROW RIM MACHINERY BUSHING ASSORTMENT 488 PC (43 SIZES)                  |
| FMBWA105           | WIDE RIM MACHINERY BUSHING ASSORTMENT 105 PC (21 SIZES)                    |
| FMSPPA395          | METRIC SPRING PIN PLAIN ASSORTMENT (24 SIZES)                              |
| FMSSSOA275         | METRIC SOCKET SET SCREW CUP POINT ASSORTMENT 275 PC (12 SIZES)             |
| FPRA1850           | POP RIVET ASSORTMENT ALUMINUM & STEEL 1850 PC (24 SIZES)                   |
| FPRA270            | POP RIVET ASSORTMENT 270 PC (12 SIZES)                                     |
| FPRSSA1850         | POP RIVET ASSORTMENT ALUMINUM & STAINLESS STEEL 1850 PC (24 SIZES)         |
| FQRWA34            | QUICK REPAIR WASHER ASSORTMENT 34 PC (9 SIZES)                             |
| FRREA345           | EXTERNAL RETAINING RING ASSORTMENT 345 PC (25 SIZES)                       |
| FRRIA330           | INTERNAL RETAINING RING ASSORTMENT 330 PC (25 SIZES)                       |
| FSHCSA405          | SOCKET HEAD CAP SCREWS ASSORTMENT COARSE 405 PC (19 SIZES)                 |
| FSPA145            | SPRING PIN ASSORTMENT BRONZE 145 PC (12 SIZES)                             |
| FSPA480            | SPRING PIN ASSORTMENT GOLD 480 PC (24 SIZES)                               |
| FSPMA3150          | PHILLIPS PAN HEAD MACHINE SCREW SILVER ASSORTMENT 3150 PC (32 SIZES)       |
| FSPMA5500          | PHILLIPS PAN HEAD MACHINE SCREW GOLD ASSORTMENT 5500 PC (64 SIZES)         |
| FSPPSDA2300        | PHILLIPS PAN HEAD SELF DRILLING SCREW ASSORTMENT 2300 PC (23 SIZES)        |
| FSPSA480           | SPIRAL SPRING PIN ASSORTMENT GOLD 480 PC (24 SIZES)                        |
| FSSSOA200          | SOCKET SET SCREW ASSORTMENT CUP POINT COARSE & FINE 200PC (12 SIZES)       |
| FSSSOA390          | SOCKET SET SCREW ASSORTMENT CUP POINT COARSE & FINE 390PC (18 SIZES)       |
| FSSSOKPA390        | SOCKET SET SCREW ASSORT. KNURLED CUP POINT COARSE & FINE 390 PC (18 SIZES) |
| FSSSQ330           | SQUARE HEAD SET SCREW ASSORTMENT 330 PC (24 SIZES)                         |
| FTSA1935           | HEX WASHER HEAD SELF DRILLING SCREW ASSORTMENT 1935 PC (24 SIZES)          |
| FTSA430            | HEX WASHER HEAD SELF DRILLING SCREW ASSORTMENT 430 PC (12 SIZES)           |
| FWKA126            | WOODRUFF KEY ASSORTMENT 126 PC (32 SIZES)                                  |
| FWKA52             | WOODRUFF KEY ASSORTMENT 52 PC (16 SIZES)                                   |

# ASSORTMENTS

| Bin Assortments |   |
|-----------------|---|
| Order #         | Description   |
| SETUC2SF        | CARRIAGE BOLTS GRADE 2 SILVER FARM PACK ASSORTMENT 1,913 PC. (40 SIZES)         |
| SETUC2SS        | CARRIAGE BOLTS GRADE 2 SILVER SHOP PACK ASSORTMENT 4,742 PC. (40 SIZES)         |
| SETUC2GF        | CARRIAGE BOLTS GRADE 2 GOLD FARM PACK ASSORTMENT 2,802 PC. (72 SIZES)           |
| SETUC2GS        | CARRIAGE BOLTS GRADE 2 GOLD SHOP PACK ASSORTMENT 6,350 PC. (72 SIZES)           |
| SETUC5SF        | CARRIAGE BOLTS GRADE 5 SILVER FARM PACK ASSORTMENT 2,034 PC. (40 SIZES)         |
| SETUC5SS        | CARRIAGE BOLTS GRADE 5 SILVER SHOP PACK ASSORTMENT 4,730 PC. (40 SIZES)         |
| SETUC5GF        | CARRIAGE BOLTS GRADE 5 GOLD FARM PACK ASSORTMENT 2,686 PC. (72 SIZES)           |
| SETUC5GS        | CARRIAGE BOLTS GRADE 5 GOLD SHOP PACK ASSORTMENT 6,223 PC. (72 SIZES)           |
| SETUH5BF        | HEX CAP SCREWS GRADE 5 BRONZE FARM PACK ASSORTMENT 2,349 PC. (40 SIZES)         |
| SETUH5BS        | HEX CAP SCREWS GRADE 5 BRONZE SHOP PACK ASSORTMENT 5,010 PC. (40 SIZES)         |
| SETUH5SF        | HEX CAP SCREWS GRADE 5 SILVER FARM PACK ASSORTMENT 2,992 PC. (72 SIZES)         |
| SETUH5SS        | HEX CAP SCREWS GRADE 5 SILVER SHOP PACK ASSORTMENT 6,620 PC. (72 SIZES)         |
| SETUH5GF        | HEX CAP SCREWS GRADE 5 GOLD FARM PACK ASSORTMENT 3,764 PC. (112 SIZES)          |
| SETUH5GS        | HEX CAP SCREWS GRADE 5 GOLD SHOP PACK ASSORTMENT 7,754 PC. (112 SIZES)          |
| SETUH8BF        | HEX CAP SCREWS GRADE 8 BRONZE FARM PACK ASSORTMENT 1,720 PC. (40 SIZES)         |
| SETUH8BS        | HEX CAP SCREWS GRADE 8 BRONZE SHOP PACK ASSORTMENT 3,600 PC. (40 SIZES)         |
| SETUH8SF        | HEX CAP SCREWS GRADE 8 SILVER FARM PACK ASSORTMENT 2,475 PC. (72 SIZES)         |
| SETUH8SS        | HEX CAP SCREWS GRADE 8 SILVER SHOP PACK ASSORTMENT 5,065 PC. (72 SIZES)         |
| SETUH8GF        | HEX CAP SCREWS GRADE 8 GOLD FARM PACK ASSORTMENT 3,329 PC. (112 SIZES)          |
| SETUH8GS        | HEX CAP SCREWS GRADE 8 GOLD SHOP PACK ASSORTMENT 6,170 PC. (112 SIZES)          |
| SETUHSSF        | HEX CAP SCREWS STAINLESS STEEL SILVER FARM PACK ASSORTMENT 1,770 PC. (40 SIZES) |
| SETUHSSS        | HEX CAP SCREWS STAINLESS STEEL SILVER SHOP PACK ASSORTMENT 3,025 PC. (40 SIZES) |
| SETUHSGF        | HEX CAP SCREWS STAINLESS STEEL GOLD FARM PACK ASSORTMENT 2,614 PC. (72 SIZES)   |
| SETUM8BF        | METRIC HEX CAP SCREWS CLASS 8.8 BRONZE FARM PACK 1,600 PC. (40 SIZES)           |
| SETUM8BS        | METRIC HEX CAP SCREWS CLASS 8.8 BRONZE SHOP PACK 2,900 PC. (40 SIZES)           |
| SETUM8SF        | METRIC HEX CAP SCREWS CLASS 8.8 SILVER FARM PACK 2,125 PC. (72 SIZES)           |
| SETUM8SS        | METRIC HEX CAP SCREWS CLASS 8.8 SILVER SHOP PACK 4,000 PC. (72 SIZES)           |
| SETUM8GF        | METRIC HEX CAP SCREWS CLASS 8.8 GOLD FARM PACK 4,100 PC. (112 SIZES)            |
| SETUM8GS        | METRIC HEX CAP SCREWS CLASS 8.8 GOLD SHOP PACK 6,900 PC. (112 SIZES)            |
| SETUM0BF        | METRIC HEX CAP SCREWS CLASS 10.9 BRONZE FARM PACK 1,820 PC. (40 SIZES)          |
| SETUM0BS        | METRIC HEX CAP SCREWS CLASS 10.9 BRONZE SHOP PACK 2,900 PC. (40 SIZES)          |
| SETUM0SF        | METRIC HEX CAP SCREWS CLASS 10.9 SILVER FARM PACK 2,370 PC. (72 SIZES)          |
| SETUM0SS        | METRIC HEX CAP SCREWS CLASS 10.9 SILVER SHOP PACK 3,730 PC. (72 SIZES)          |
| SETUM0GF        | METRIC HEX CAP SCREWS CLASS 10.9 GOLD FARM PACK 2,800 PC. (112 SIZES)           |
| SETUM0GS        | METRIC HEX CAP SCREWS CLASS 10.9 GOLD SHOP PACK 4,681 PC. (112 SIZES)           |



PART# ELA1650



PART# FSPA480



PART# EQZA55



PART# FLPA48



PART# ELHSA300



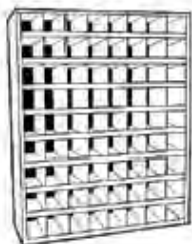
PART# FCPA725

# OPEN FRONT BINS, DRAWER BINS & ACCESSORIES

## OPEN FRONT BINS

Open Front Bins are constructed of heavy duty steel and all parts are interlocked. They come standard with a gray baked on enamel finish and have a one inch hemmed lip across the front of all bins.

### 72 HOLE OPEN FRONT BIN



| Part # | Dimensions         | Hole Configuration | Compartment Size |
|--------|--------------------|--------------------|------------------|
| EQBB42 | 35"W X 42"H X 12"D | 6 ACROSS X 7 HIGH  | 5 1/2"W X 6"H    |
| EQBB72 | 35"W X 42"H X 12"D | 8 ACROSS X 9 HIGH  | 4"W X 4 5/8"H    |

### 40 HOLE OPEN FRONT BIN



Part #: EQBB40  
 35"W X 21"H X 12"D  
 5 holes high  
 8 holes across  
 Compartment Size: 4"W X 4 1/8"H

## DRAWER BINS

Drawer Bins are constructed of heavy duty steel and come standard with a gray baked on enamel finish. They feature drawer stops so drawers are not removed accidentally. The drawers measure 5 3/8"W X 2 3/4"H X 11 1/4"D and have partition slots on one inch centers.

### 24 DRAWER BIN



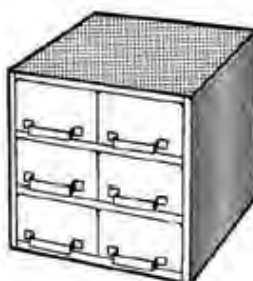
Part #: EQBB24D  
 34"W X 14 1/2"H X 11 1/2"D  
 4 drawers high  
 6 drawers across  
 Partitions Included: 48

### 18 DRAWER BIN



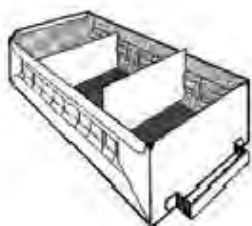
Part #: EQBB18D  
 34"W X 10 3/4"H X 11 1/2"D  
 3 drawers high  
 6 drawers across  
 Partitions Included: 36

### 6 DRAWER BIN



Part #: EQBB6D  
 12"W X 10 3/4"H X 11 1/2"D  
 3 drawers high  
 2 drawers across  
 Partitions Included: 6

## ACCESSORIES FOR BINS



| Part # | Description                           |
|--------|---------------------------------------|
| EQDR   | REPLACEMENT DRAWER FOR DRAWER BINS    |
| EQDRDM | METAL DIVIDERS FOR DRAWER BIN DRAWERS |
| EQLY   | YELLOW BIN LABELS WITH IMPERIAL SIZES |
| EQLYB  | BLANK YELLOW BIN LABELS               |

# SLIDE RACKS AND SCOOP TRAYS & ACCESSORIES

Slide Racks are constructed of heavy duty steel and come standard with a gray baked on enamel finish. The standard slide rack comes with triple track slides and the premium slide rack comes with ball bearing slides. The scoop trays come separately and are removable from the slide rack. The scoop trays are built with a metal shell and a plastic insert and come in varying configurations.

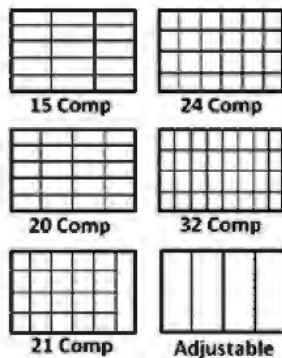
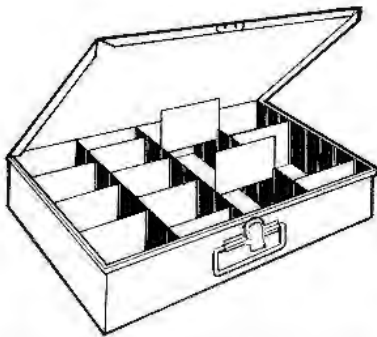
## SLIDE RACKS



Standard Slide Rack  
Part #:EQRK  
20 1/4"W X 14 3/4"H X 12 7/8"D  
Holds 4 scoop trays

Premium Slide Rack  
Part #:EQRKBB  
20 3/8"W X 15 1/2"H X 14 1/4"D  
Holds 4 scoop trays

## SCOOP TRAYS



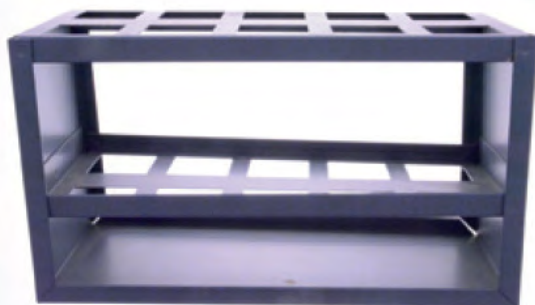
| Part # | Description                       |
|--------|-----------------------------------|
| EQDR15 | 15 COMPARTMENT SCOOP TRAY         |
| EQDR20 | 20 COMPARTMENT SCOOP TRAY         |
| EQDR21 | 21 COMPARTMENT SCOOP TRAY         |
| EQDR24 | 24 COMPARTMENT SCOOP TRAY         |
| EQDR32 | 32 COMPARTMENT SCOOP TRAY         |
| EQDRAD | ADJUSTABLE COMPARTMENT SCOOP TRAY |

Scoop trays are 18"W X 3"H X 12"D and are available in the six configurations shown.

## ACCESSORIES FOR SCOOP TRAYS

| Part # | Description                                     |
|--------|---|
| EQDRD  | DIVIDERS FOR ADJUSTABLE COMPARTMENT SCOOP TRAYS |
| EQL24  | LABEL FOR 24 COMPARTMENT SCOOP TRAYS            |
| EQL32  | LABEL FOR 32 COMPARTMENT SCOOP TRAYS            |
| EQLADJ | LABEL FOR ADJUSTABLE COMPARTMENT SCOOP TRAYS    |

## KEYSTOCK RACK



Part #: EQRKK  
10 1/2"W X 6"H X 4 1/8"D  
Hole Size: 1 1/2" X 1 1/2"





# SECTION 2 POWER TRANSMISSION PRODUCTS



# MOUNTED BEARINGS

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## MOUNTED BEARINGS

IPTCI Bearings offers a complete line of mounted bearings that combine excellent quality, innovation, and affordability. We stock a broad range of IPTCI bearings.

**Note:** The following pages give the technical information for the IPTCI bearings. The IPTCI bearings we stock are listed on the pages following the technical information. The bearings we do not have in stock are available in 2-3 days.

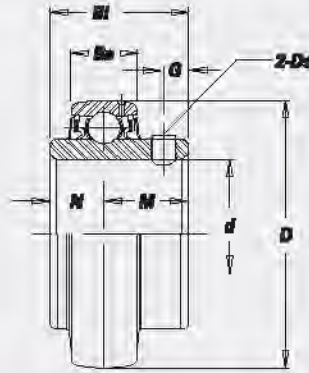


# UC & UCW Bearing Inserts



**Standard duty with set screw lock.**

- Wide inner race
- B-type or L3-type seals



| Bearing No. | Bore Dia. of Bearing |          | Dimensions (in.) (mm) |           |           |          |          |          |                 | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |      |
|-------------|----------------------|----------|-----------------------|-----------|-----------|----------|----------|----------|-----------------|--------------------------|---------------------------------|---------------|------|
|             | <i>d</i>             | <i>d</i> | <i>D</i>              | <i>Bi</i> | <i>Be</i> | <i>N</i> | <i>M</i> | <i>G</i> | <i>Ds</i> (in.) |                          |                                 |               |      |
| UCW 201     |                      | 12       |                       |           |           |          |          |          |                 |                          |                                 | 0.26          |      |
| 201-8       | 1/2                  |          |                       |           |           |          |          |          |                 |                          |                                 | 0.26          |      |
| 202         |                      | 15       | 1.5748                | 1.0236    | 0.5906    | 0.3937   | 0.6299   | 0.1575   |                 | 10-32UNF                 | 2,040                           | 1,020         | 0.24 |
| 202-10      | 5/8                  |          | 40.0                  | 26.0      | 15.0      | 10.0     | 16.0     | 4.0      |                 |                          |                                 |               | 0.24 |
| 203         |                      | 17       |                       |           |           |          |          |          |                 |                          |                                 |               | 0.22 |
| UC 201      |                      | 12       |                       |           |           |          |          |          |                 |                          |                                 |               | 0.46 |
| 201-8       | 1/2                  |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.46 |
| 202         |                      | 15       | 1.8504                | 1.2205    | 0.6299    | 0.5000   | 0.7205   | 0.1969   |                 | 1/4-28UNF                | 2,740                           | 1,600         | 0.42 |
| 202-10      | 5/8                  |          | 47.0                  | 31.0      | 16.0      | 12.7     | 18.3     | 5.0      |                 |                          |                                 |               | 0.42 |
| 203         |                      | 17       |                       |           |           |          |          |          |                 |                          |                                 |               | 0.40 |
| 204-12      | 3/4                  |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.35 |
| 204         |                      | 20       |                       |           |           |          |          |          |                 |                          |                                 |               | 0.35 |
| UC 205-14   | 7/8                  |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.51 |
| 205-15      | 15/16                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.46 |
| 205         |                      | 25       | 2.0472                | 1.3386    | 0.6693    | 0.5630   | 0.7756   | 0.2165   |                 | 1/4-28UNF                | 3,010                           | 1,750         | 0.44 |
| 205-16      | 1                    |          | 52.0                  | 34.0      | 17.0      | 14.3     | 19.7     | 5.5      |                 |                          |                                 |               | 0.44 |
| UC 206-17   | 1 1/16               |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.81 |
| 206-18      | 1 1/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.75 |
| 206         |                      | 30       | 2.4409                | 1.5000    | 0.7480    | 0.6260   | 0.8740   | 0.2362   |                 | 1/4-28UNF                | 4,200                           | 2,430         | 0.71 |
| 206-19      | 1 3/16               |          | 62.0                  | 38.1      | 19.0      | 15.9     | 22.2     | 6.0      |                 |                          |                                 |               | 0.71 |
| 206-20      | 1 1/4 S              |          |                       |           |           |          |          |          |                 |                          |                                 |               | 0.71 |
| UC 207-20   | 1 1/4                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.19 |
| 207-21      | 1 5/16               |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.12 |
| 207-22      | 1 3/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.06 |
| 207         |                      | 35       | 2.8346                | 1.6890    | 0.7874    | 0.6890   | 1.0000   | 0.2559   |                 | 5/16-24UNF               | 5,535                           | 3,340         | 1.06 |
| 207-23      | 1 7/16               |          | 72.0                  | 42.9      | 20.0      | 17.5     | 25.4     | 6.5      |                 |                          |                                 |               | 0.99 |
| UC 208-24   | 1 1/2                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.50 |
| 208-25      | 1 5/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.43 |
| 208         |                      | 40       | 3.1496                | 1.9370    | 0.8268    | 0.7480   | 1.1890   | 0.3150   |                 | 5/16-24UNF               | 6,375                           | 3,960         | 1.41 |
|             |                      |          | 80.0                  | 49.2      | 21.0      | 19.0     | 30.2     | 8.0      |                 |                          |                                 |               | 1.41 |
| UC 209-26   | 1 5/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.72 |
| 209-27      | 1 11/16              |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.63 |
| 209-28      | 1 3/4                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.54 |
| 209         |                      | 45       | 3.3465                | 1.9370    | 0.8661    | 0.7480   | 1.1890   | 0.3150   |                 | 5/16-24UNF               | 7,110                           | 4,460         | 1.50 |
|             |                      |          | 85.0                  | 49.2      | 22.0      | 19.0     | 30.2     | 8.0      |                 |                          |                                 |               | 1.50 |
| UC 210-30   | 1 7/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.92 |
| 210-31      | 1 15/16              |          |                       |           |           |          |          |          |                 |                          |                                 |               | 1.81 |
| 210         |                      | 50       | 3.5433                | 2.0315    | 0.9449    | 0.7480   | 1.2835   | 0.3543   |                 | 3/8-24UNF                | 7,400                           | 4,910         | 1.76 |
| 210-32      | 2 S                  |          | 90.0                  | 51.6      | 24.0      | 19.0     | 32.6     | 9.0      |                 |                          |                                 |               | 1.66 |
| UC 211-32   | 2                    |          |                       |           |           |          |          |          |                 |                          |                                 |               | 2.78 |
| 211-34      | 2 1/8                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 2.54 |
| 211         |                      | 55       | 3.9370                | 2.1890    | 0.9843    | 0.8740   | 1.3150   | 0.3543   |                 | 3/8-24UNF                | 9,490                           | 6,440         | 2.45 |
| 211-35      | 2 3/16               |          | 100.0                 | 55.6      | 25.0      | 22.2     | 33.4     | 9.0      |                 |                          |                                 |               | 2.40 |
| UC 212-36   | 2 1/4                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 3.68 |
| 212         |                      | 60       | 4.3307                | 2.5630    | 1.0630    | 1.0000   | 1.5630   | 0.4134   |                 | 3/8-24UNF                | 11,500                          | 7,940         | 3.40 |
| 212-38      | 2 5/8                |          | 110.0                 | 65.1      | 27.0      | 25.4     | 39.7     | 10.5     |                 |                          |                                 |               | 3.34 |
| 212-39      | 2 7/16               |          |                       |           |           |          |          |          |                 |                          |                                 |               | 3.20 |
| UC 213-40   | 2 1/2                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 4.28 |
| 213         |                      | 65       | 4.7244                | 2.5630    | 1.1024    | 1.0000   | 1.5630   | 0.4724   |                 | 1/2-20UNF                | 12,400                          | 8,760         | 4.10 |
|             |                      |          | 120.0                 | 65.1      | 28.0      | 25.4     | 39.7     | 12.0     |                 |                          |                                 |               | 4.10 |
| UC 214-43   | 2 11/16              |          |                       |           |           |          |          |          |                 |                          |                                 |               | 4.60 |
| 214-44      | 2 3/4                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 4.54 |
| 214         |                      | 70       | 4.9210                | 2.9370    | 1.1811    | 1.1890   | 1.7480   | 0.4724   |                 | 1/2-20UNF                | 13,530                          | 9,620         | 4.52 |
|             |                      |          | 125.0                 | 74.6      | 30.0      | 30.2     | 44.4     | 12.0     |                 |                          |                                 |               | 4.52 |
| UC 215-47   | 2 15/16              |          |                       |           |           |          |          |          |                 |                          |                                 |               | 5.02 |
| 215         |                      | 75       | 5.1181                | 3.0630    | 1.2598    | 1.3110   | 1.7520   | 0.4724   |                 | 1/2-20UNF                | 14,620                          | 10,540        | 4.87 |
| 215-48      | 3                    |          | 130.0                 | 77.8      | 32.0      | 33.3     | 44.5     | 12.0     |                 |                          |                                 |               | 4.67 |
| UC 216      |                      | 80       | 5.5118                | 3.2520    | 1.2992    | 1.3110   | 1.9410   | 0.5512   |                 | 1/2-20UNF                | 16,000                          | 11,700        | 6.15 |
|             |                      |          | 140                   | 82.6      | 33        | 33.3     | 49.3     | 14       |                 |                          |                                 |               | 6.15 |
| UC 218-56   | 3 1/2                |          |                       |           |           |          |          |          |                 |                          |                                 |               | 9.83 |
| 218         |                      | 90       | 6.2992                | 3.7795    | 1.4961    | 1.5630   | 2.2165   | 0.5906   |                 | 1/2-20UNF                | 21,120                          | 15,700        | 9.59 |
|             |                      |          | 160.0                 | 96.0      | 38.0      | 39.7     | 56.3     | 15.0     |                 |                          |                                 |               | 9.59 |

# NA & NAW Bearing Inserts



B-type Seal



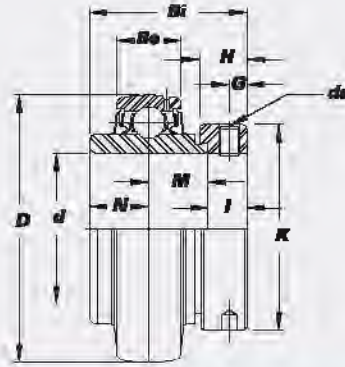
L3-type Seal

## Standard duty with eccentric locking collar.

- Wide inner race
- B-type or L3-type seals



POWER TOOLS, MACHINERY & PRODUCTS



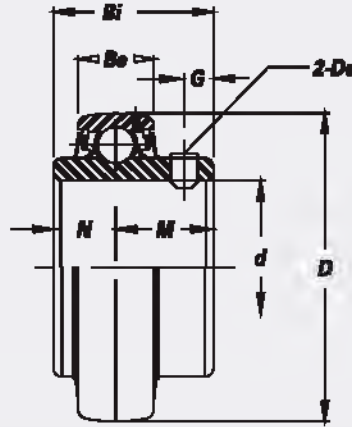
| Bearing No. | Bore Dia. of Bearing |      | Dimensions (in.) (mm) |        |        |        |        |        |        |        |        |            | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |      |
|-------------|----------------------|------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------------------------|---------------------------------|---------------|------|
|             | d                    |      | D                     | Bi     | Be     | N      | M      | I      | H      | G      | K      | Ds         |                          |                                 |               |      |
|             | (in.)                | (mm) |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               |      |
| NAW 201     |                      | 12   |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.35 |
| 201-8       | 1/2                  |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.35 |
| 202         |                      | 15   | 1.5748                | 1.4685 | 0.5906 | 0.5472 | 0.5472 | 0.3740 | 1.1260 | 0.5315 | 0.1890 | 1/4-28UNF  | 2,040                    | 1,020                           | 0.31          |      |
| 202-10      | 5/8                  |      | 40.0                  | 37.3   | 15.0   | 13.9   | 13.9   | 9.5    | 28.6   | 13.5   | 4.8    |            |                          |                                 | 0.31          |      |
| 203         |                      | 17   |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 0.29          |      |
| NA 201      |                      | 12   |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.64 |
| 201-8       | 1/2                  |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.62 |
| 202         |                      | 15   | 1.8504                | 1.7126 | 0.6299 | 0.6693 | 0.6693 | 0.3740 | 1.3110 | 0.5315 | 0.1890 | 1/4-28UNF  | 2,740                    | 1,600                           | 0.60          |      |
| 202-10      | 5/8                  |      | 47.0                  | 43.5   | 16.0   | 17.0   | 17.0   | 9.5    | 33.3   | 13.5   | 4.8    |            |                          |                                 | 0.57          |      |
| 203         |                      | 17   |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 0.55          |      |
| 204-12      | 3/4                  |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 0.51          |      |
| 204         |                      | 20   |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 0.49          |      |
| NA 205-14   | 7/8                  |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.64 |
| 205-15      | 15/16                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.60 |
| 205         |                      | 25   | 2.0472                | 1.7441 | 0.6693 | 0.6850 | 0.6850 | 0.3740 | 1.5000 | 0.5315 | 0.1890 | 1/4-28UNF  | 3,010                    | 1,750                           | 0.55          |      |
| 205-16      | 1                    |      | 52.0                  | 44.3   | 17.0   | 17.4   | 17.4   | 9.5    | 38.1   | 13.5   | 4.8    |            |                          |                                 | 0.55          |      |
| NA 206-17   | 1 1/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.99 |
| 206-18      | 1 1/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 0.95 |
| 206         |                      | 30   | 2.4409                | 1.9016 | 0.7480 | 0.7165 | 0.7165 | 0.4685 | 1.7520 | 0.6260 | 0.2362 | 5/16-24UNF | 4,200                    | 2,430                           | 0.90          |      |
| 206-19      | 1 3/16               |      | 62.0                  | 48.3   | 19.0   | 18.2   | 18.2   | 11.9   | 44.5   | 15.9   | 6.0    |            |                          |                                 | 0.90          |      |
| 206-20      | 1 7/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 0.84          |      |
| NA 207-20   | 1 1/4                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.50 |
| 207-21      | 1 5/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.43 |
| 207-22      | 1 3/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.34 |
| 207         |                      | 35   | 2.8346                | 2.0118 | 0.7874 | 0.7402 | 0.7402 | 0.5315 | 2.1890 | 0.6890 | 0.2677 | 5/16-24UNF | 5,535                    | 3,340                           | 1.34          |      |
| 207-23      | 1 7/16               |      | 72.0                  | 51.1   | 20.0   | 18.8   | 18.8   | 13.5   | 55.6   | 17.5   | 6.8    |            |                          |                                 | 1.28          |      |
| NA 208-24   | 1 1/2                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.83 |
| 208-25      | 1 9/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.77 |
| 208         |                      | 40   | 3.1496                | 2.2165 | 0.8268 | 0.8425 | 0.8425 | 0.5315 | 2.3740 | 0.7205 | 0.2677 | 5/16-24UNF | 6,375                    | 3,960                           | 1.72          |      |
|             |                      |      | 80.0                  | 56.3   | 21.0   | 21.4   | 21.4   | 13.5   | 60.3   | 18.3   | 6.8    |            |                          |                                 | 1.83          |      |
| NA 209-26   | 1 5/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 2.22 |
| 209-27      | 1 11/16              |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 2.01 |
| 209-28      | 1 3/4                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 1.92 |
| 209         |                      | 45   | 3.3465                | 2.2165 | 0.8661 | 0.8425 | 0.8425 | 0.5315 | 2.5000 | 0.7205 | 0.2677 | 5/16-24UNF | 7,110                    | 4,460                           | 1.87          |      |
|             |                      |      | 85.0                  | 56.3   | 22.0   | 21.4   | 21.4   | 13.5   | 63.5   | 18.3   | 6.8    |            |                          |                                 | 1.87          |      |
| NA 210-30   | 1 7/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 2.38 |
| 210-31      | 1 9/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 2.29 |
| 210         |                      | 50   | 3.5433                | 2.4685 | 0.9449 | 0.9685 | 0.9685 | 0.5315 | 2.7520 | 0.7205 | 0.2677 | 5/16-24UNF | 7,400                    | 4,910                           | 2.23          |      |
| 210-32      | 2S                   |      | 90.0                  | 62.7   | 24.0   | 24.6   | 24.6   | 13.5   | 69.9   | 18.3   | 6.8    |            |                          |                                 | 2.17          |      |
| NA 211-32   | 2                    |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 3.48 |
| 211-34      | 2 1/8                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 3.30 |
| 211         |                      | 55   | 3.9370                | 2.8110 | 0.9843 | 1.0906 | 1.0906 | 0.6299 | 3.0000 | 0.8189 | 0.3150 | 3/8-24UNF  | 9,490                    | 6,440                           | 3.06          |      |
| 211-35      | 2 3/16               |      | 100.0                 | 71.4   | 25.0   | 27.7   | 27.7   | 16.0   | 76.2   | 20.8   | 8.0    |            |                          |                                 | 3.00          |      |
| NA 212-36   | 2 1/4                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 4.48 |
| 212         |                      | 60   | 4.3307                | 3.0630 | 1.0630 | 1.2165 | 1.2165 | 0.6299 | 3.3150 | 0.8740 | 0.3150 | 3/8-24UNF  | 11,500                   | 7,490                           | 4.12          |      |
| 212-38      | 2 3/8                |      | 110.0                 | 77.8   | 27.0   | 30.9   | 30.9   | 16.0   | 84.2   | 22.2   | 8.0    |            |                          |                                 | 4.00          |      |
| 212-39      | 2 7/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 | 3.88          |      |
| NA 213-40   | 2 1/2                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 5.53 |
| 213         |                      | 65   | 4.7244                | 3.3740 | 1.1024 | 1.3425 | 1.3425 | 0.6890 | 3.3858 | 0.9252 | 0.3346 | 3/8-24UNF  | 12,400                   | 8,760                           | 5.31          |      |
|             |                      |      | 120.0                 | 85.7   | 28.0   | 34.1   | 34.1   | 17.5   | 86.0   | 23.5   | 8.5    |            |                          |                                 | 5.31          |      |
| NA 214-44   | 2 3/4                |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 5.80 |
| 214         |                      | 70   | 4.9213                | 3.3740 | 1.1811 | 1.3425 | 1.3425 | 0.6890 | 3.5433 | 0.9252 | 0.3346 | 3/8-24UNF  | 13,530                   | 9,620                           | 5.67          |      |
|             |                      |      | 125.0                 | 85.7   | 30.0   | 34.1   | 34.1   | 17.5   | 90.0   | 23.5   | 8.5    |            |                          |                                 | 5.67          |      |
| NA 215-47   | 2 5/16               |      |                       |        |        |        |        |        |        |        |        |            |                          |                                 |               | 6.26 |
| 215         |                      | 75   | 5.1181                | 3.6260 | 1.2598 | 1.4685 | 1.4685 | 0.6890 | 4.0157 | 0.9252 | 0.3346 | 3/8-24UNF  | 14,620                   | 10,540                          | 6.04          |      |
| 215-48      | 3                    |      | 130.0                 | 92.1   | 32.0   | 37.3   | 37.3   | 17.5   | 102.0  | 23.5   | 8.5    |            |                          |                                 | 5.84          |      |

# UCX Bearing Inserts



## Medium duty with set screw lock.

- Wide inner race with greater load carrying capacity than UC insert
- B-type seals  
L3-type seals available in some sizes



| Bearing No. | Bore Dia. of Bearing |          | Dimensions (in. (mm)) |           |          |          |          |           | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|----------|-----------------------|-----------|----------|----------|----------|-----------|--------------------------|---------------------------------|---------------|
|             | <i>d</i>             | <i>D</i> | <i>Bi</i>             | <i>Be</i> | <i>N</i> | <i>M</i> | <i>G</i> | <i>Ds</i> |                          |                                 |               |
| UC X05-14   | 7/8                  |          |                       |           |          |          |          |           |                          |                                 | 0.93          |
| X05-15      | 15/16                |          | 2.4409                | 1.5000    | 0.7480   | 0.6260   | 0.8740   | 0.2362    | 1/4-28UNF                | 4,200                           | 0.89          |
| X05         |                      | 25       | 62.0                  | 38.1      | 19.0     | 15.9     | 22.2     | 6.0       |                          |                                 | 0.86          |
| X05-16      | 1                    |          |                       |           |          |          |          |           |                          |                                 | 0.84          |
| UC X06-18   | 1 1/8                |          |                       |           |          |          |          |           |                          |                                 | 1.35          |
| X06         |                      | 30       | 2.8346                | 1.6890    | 0.7874   | 0.6890   | 1.0000   | 0.2559    | 5/16-24UNF               | 5,535                           | 1.28          |
| X06-19      | 1 3/16               |          | 72.0                  | 42.9      | 20.0     | 17.5     | 25.4     | 6.5       |                          |                                 | 1.28          |
| X06-20      | 1 1/4                |          |                       |           |          |          |          |           |                          |                                 | 1.21          |
| UC X07-22   | 1 3/8                |          |                       |           |          |          |          |           |                          |                                 | 1.65          |
| X07         |                      | 35       | 3.1496                | 1.9370    | 0.8268   | 0.7480   | 1.1890   | 0.3150    | 5/16-24UNF               | 6,375                           | 1.65          |
| X07-23      | 1 7/16               |          | 80.0                  | 49.2      | 21.0     | 19.0     | 30.2     | 8.0       |                          |                                 | 1.59          |
|             |                      |          |                       |           |          |          |          |           |                          |                                 |               |
| UC X08-24   | 1 1/2                |          |                       |           |          |          |          |           |                          |                                 | 1.92          |
| X08         |                      | 40       | 3.3465                | 1.9370    | 0.8661   | 0.7480   | 1.1890   | 0.3150    | 5/16-24UNF               | 7,110                           | 1.83          |
|             |                      |          | 85.0                  | 49.2      | 22.0     | 19.0     | 30.2     | 8.0       |                          |                                 | 1.92          |
|             |                      |          |                       |           |          |          |          |           |                          |                                 | 1.83          |
| UC X09-26   | 1 5/8                |          |                       |           |          |          |          |           |                          |                                 | 2.36          |
| X09-27      | 1 11/16              |          | 3.5433                | 2.0315    | 0.9449   | 0.7480   | 1.2835   | 0.3543    | 3/8-24UNF                | 7,400                           | 2.23          |
| X09-28      | 1 3/4                |          | 90.0                  | 51.6      | 24.0     | 19.0     | 32.6     | 9.0       |                          |                                 | 2.14          |
| X09         |                      | 45       |                       |           |          |          |          |           |                          |                                 | 2.09          |
| UC X10-30   | 1 7/8                |          |                       |           |          |          |          |           |                          |                                 | 3.00          |
| X10-31      | 1 15/16              |          | 3.9370                | 2.1890    | 0.9843   | 0.8740   | 1.3150   | 0.3543    | 3/8-24UNF                | 9,490                           | 2.91          |
| X10         |                      | 50       | 100.0                 | 55.6      | 25.0     | 22.2     | 33.4     | 9.0       |                          |                                 | 2.84          |
| X10-32      | 2                    |          |                       |           |          |          |          |           |                          |                                 | 2.78          |
| UC X11-34   | 2 1/8                |          |                       |           |          |          |          |           |                          |                                 | 4.12          |
| X11         |                      | 55       | 4.3307                | 2.5630    | 1.0630   | 1.0000   | 1.5630   | 0.4134    | 3/8-24UNF                | 11,500                          | 3.97          |
| X11-35      | 2 3/16               |          | 110.0                 | 65.1      | 27.0     | 25.4     | 39.7     | 10.5      |                          |                                 | 3.92          |
| X11-36      | 2 1/4                |          |                       |           |          |          |          |           |                          |                                 | 3.75          |
| UC X12      |                      | 60       | 4.7244                | 2.5630    | 1.1024   | 1.0000   | 1.5630   | 0.4724    | 1/2-20UNF                | 12,400                          | 4.52          |
| X12-38      | 2 3/8                |          | 120.0                 | 65.1      | 28.0     | 25.4     | 39.7     | 12.0      |                          |                                 | 4.48          |
| X12-39      | 2 7/16               |          |                       |           |          |          |          |           |                          |                                 | 4.30          |
| UC X13-40   | 2 1/2                |          |                       |           |          |          |          |           |                          |                                 | 4.75          |
| X13         |                      | 65       | 4.9213                | 2.9370    | 1.1811   | 1.1890   | 1.7480   | 0.4724    | 1/2-20UNF                | 13,530                          | 4.56          |
|             |                      |          | 125.0                 | 74.6      | 30.0     | 30.2     | 44.4     | 12.0      |                          |                                 | 4.75          |
|             |                      |          |                       |           |          |          |          |           |                          |                                 | 4.56          |
| UC X14-43   | 2 11/16              |          |                       |           |          |          |          |           |                          |                                 | 6.06          |
| X14         |                      | 70       | 5.1181                | 3.0630    | 1.2598   | 1.3110   | 1.7520   | 0.4724    | 1/2-20UNF                | 14,620                          | 6.04          |
|             |                      |          | 130.0                 | 77.8      | 32.0     | 33.3     | 44.5     | 12.0      |                          |                                 | 6.06          |
|             |                      |          |                       |           |          |          |          |           |                          |                                 | 6.04          |
| UC X15-47   | 2 15/16              |          |                       |           |          |          |          |           |                          |                                 | 7.77          |
| X15         |                      | 75       | 5.5118                | 3.2520    | 1.2992   | 1.3110   | 1.9410   | 0.5512    | 1/2-20UNF                | 16,000                          | 7.52          |
| X15-48      | 3                    |          | 140.0                 | 82.6      | 33.0     | 33.3     | 49.3     | 14.0      |                          |                                 | 7.32          |
|             |                      |          |                       |           |          |          |          |           |                          |                                 | 7.32          |
| UC X17      |                      | 85       | 6.2992                | 3.7795    | 1.4961   | 1.5630   | 2.2165   | 0.5906    | 1/2-20UNF                | 21,120                          | 11.1          |
| X17-55      | 3 7/16               |          | 160.0                 | 96.0      | 38.0     | 39.7     | 56.3     | 15.0      |                          |                                 | 10.7          |
| X17-56      | 3 1/2                |          |                       |           |          |          |          |           |                          |                                 | 10.4          |
| UC X20      |                      | 100      | 7.4803                | 4.6260    | 1.6929   | 1.9370   | 2.6890   | 0.7087    | 5/8-18UNF                | 29,300                          | 18.9          |
| X20-63      | 3 15/16              |          | 190.0                 | 117.5     | 43.0     | 49.2     | 68.3     | 18.0      |                          |                                 | 18.6          |
| X20-64      | 4                    |          |                       |           |          |          |          |           |                          |                                 | 18.4          |

STANDARD PRODUCTIONS

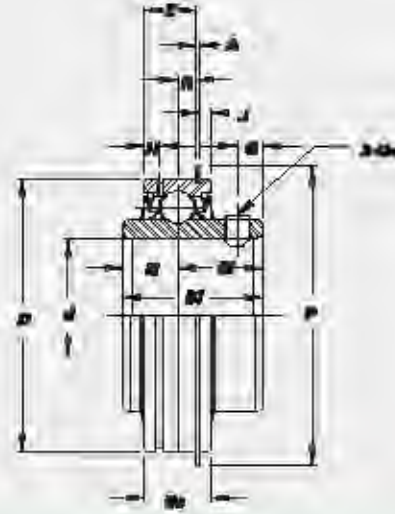
# ER Bearing Inserts



B-type Seal

## Standard duty with snap ring and set screw lock.

- Wide inner race
- B-type seals
- Black Oxide Finish



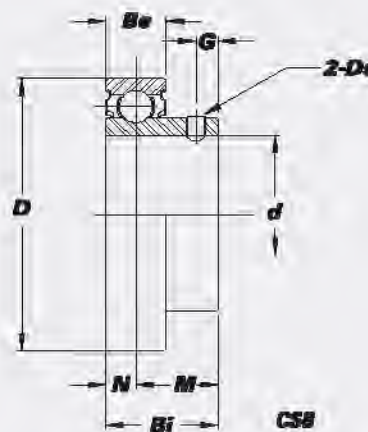
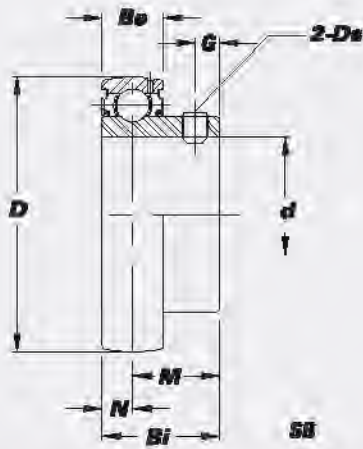
| Bearing No. | Bore Dia. of Bearing |      | Dimensions (in.) (mm) |        |        |        |        |        |        |        |        |        |        |        |          | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |      |
|-------------|----------------------|------|-----------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|--------------------------|---------------------------------|---------------|------|
|             | d                    |      | D                     | Bi     | Be     | N      | M      | E      | A      | H      | R      | J      | P      | G      | Ds (in.) |                          |                                 |               |      |
|             | (in.)                | (mm) |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 201      |                      | 12   |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 201-8       | 1/2                  |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 202         |                      | 15   | 1.8504                | 1.2188 | 0.6250 | 0.4063 | 0.8125 | 0.4844 | 0.0469 | 0.1719 | 0.1719 | 0.0938 | 2.0625 | 0.1875 |          | 1/4-28UNF                | 2,740                           | 1,600         | 0.49 |
| 202-10      | 5/8                  |      | 47.0                  | 31.0   | 15.9   | 10.3   | 20.6   | 12.30  | 1.19   | 4.4    | 4.37   | 2.38   | 52.4   | 4.8    |          |                          |                                 |               |      |
| 203         |                      | 17   |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 204-12      | 3/4                  |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 204         |                      | 20   |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 205-14   | 7/8                  |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 205-15      | 15/16                |      | 2.0472                | 1.3750 | 0.7500 | 0.5156 | 0.8594 | 0.6094 | 0.0469 | 0.2031 | 0.2344 | 0.0938 | 2.2656 | 0.2188 |          | 1/4-28UNF                | 3,010                           | 1,750         | 0.60 |
| 205         |                      | 25   | 52.0                  | 34.9   | 19.1   | 13.1   | 21.8   | 15.48  | 1.19   | 5.2    | 5.95   | 2.38   | 57.5   | 5.6    |          |                          |                                 |               |      |
| 205-16      | 1                    |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 206-17   | 1 1/16               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 206-18      | 1 1/8                |      | 2.4409                | 1.5000 | 0.8661 | 0.6260 | 0.8740 | 0.6760 | 0.6550 | 0.2165 | 0.2421 | 0.1252 | 2.6575 | 0.2362 |          | 1/4-28UNF                | 4,200                           | 2,430         | 0.86 |
| 206         |                      | 30   | 62.0                  | 38.1   | 22.0   | 15.9   | 22.2   | 17.17  | 1.65   | 5.5    | 6.15   | 3.18   | 67.5   | 6.0    |          |                          |                                 |               |      |
| 206-19      | 1 3/16               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 206-20      | 1 1/4S               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 207-20   | 1 1/4                |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 207-21      | 1 5/16               |      | 2.8346                | 1.6890 | 0.9449 | 0.6890 | 1.0000 | 0.7547 | 0.0650 | 0.2165 | 0.2815 | 0.1252 | 3.0906 | 0.2559 |          | 5/16-24UNF               | 5,535                           | 3,340         | 1.39 |
| 207-22      | 1 3/8                |      | 72.0                  | 42.9   | 24.0   | 17.5   | 25.4   | 19.17  | 1.65   | 5.5    | 7.15   | 3.18   | 78.4   | 6.5    |          |                          |                                 |               |      |
| 207         |                      | 35   |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 207-23      | 1 7/16               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 208-24   | 1 1/2                |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 208-25      | 1 3/16               |      | 3.1496                | 1.9370 | 1.1024 | 0.7480 | 1.1890 | 0.9122 | 0.0650 | 0.2362 | 0.3602 | 0.1252 | 3.4016 | 0.3150 |          | 5/16-24UNF               | 6,375                           | 3,960         | 1.79 |
| 208         |                      | 40   | 80.0                  | 49.2   | 28.0   | 19.0   | 30.2   | 23.17  | 1.65   | 6.0    | 9.15   | 3.18   | 86.4   | 8.0    |          |                          |                                 |               |      |
| ER 209-26   | 1 5/8                |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 209-27      | 1 11/16              |      | 3.3465                | 1.9370 | 1.1024 | 0.7480 | 1.1890 | 0.9122 | 0.0650 | 0.2362 | 0.3602 | 0.1252 | 3.5984 | 0.3150 |          | 5/16-24UNF               | 7,110                           | 4,460         | 1.98 |
| 209-28      | 1 3/4                |      | 85.0                  | 49.2   | 28.0   | 19.0   | 30.2   | 23.17  | 1.65   | 6.0    | 9.15   | 3.18   | 91.4   | 8.0    |          |                          |                                 |               |      |
| 209         |                      | 45   |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 210-30   | 1 7/8                |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 210-31      | 1 15/16              |      | 3.5433                | 2.0315 | 1.1024 | 0.7480 | 1.2835 | 0.8823 | 0.0949 | 0.2953 | 0.3303 | 0.1252 | 3.7913 | 0.3543 |          | 3/8-24UNF                | 7,400                           | 4,910         | 2.16 |
| 210         |                      | 50   | 90.0                  | 51.6   | 28.0   | 19.0   | 32.6   | 22.41  | 2.41   | 7.5    | 8.39   | 3.18   | 96.3   | 9.0    |          |                          |                                 |               |      |
| 210-32      | 2S                   |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 211-32   | 2                    |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 211-34      | 2 1/8                |      | 3.9370                | 2.1890 | 1.1811 | 0.8740 | 1.3150 | 0.9610 | 0.0949 | 0.2953 | 0.3697 | 0.1252 | 4.1850 | 0.3543 |          | 3/8-24UNF                | 9,490                           | 6,440         | 3.11 |
| 211         |                      | 55   | 100.0                 | 55.6   | 30.0   | 22.2   | 33.4   | 24.41  | 2.41   | 7.5    | 9.39   | 3.18   | 106.3  | 9.0    |          |                          |                                 |               |      |
| 211-35      | 2 9/16               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 212-36   | 2 1/4                |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 212         |                      | 60   | 4.3307                | 2.5630 | 1.2598 | 1.0000 | 1.5630 | 1.0398 | 0.0949 | 0.2953 | 0.4091 | 0.1252 | 4.5827 | 0.4134 |          | 3/8-24UNF                | 11,500                          | 7,940         | 4.17 |
| 212-38      | 2 3/8                |      | 110.0                 | 65.1   | 32.0   | 25.4   | 39.7   | 26.41  | 2.41   | 7.5    | 10.39  | 3.18   | 116.4  | 10.5   |          |                          |                                 |               |      |
| 212-39      | 2 7/16               |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| ER 215-47   | 2 15/16              |      |                       |        |        |        |        |        |        |        |        |        |        |        |          |                          |                                 |               |      |
| 215         |                      | 75   | 5.1181                | 3.0625 | 1.5000 | 1.3125 | 1.7500 | 1.2344 | 0.1130 | 0.3750 | 0.4844 | 0.1563 | 5.5000 | 0.4375 |          | 1/2-20UNF                | 14,620                          | 10,540        | 6.30 |
| 215-48      | 3                    |      | 130.0                 | 77.8   | 38.1   | 33.3   | 44.5   | 31.35  | 2.87   | 9.53   | 12.30  | 3.97   | 139.7  | 11.1   |          |                          |                                 |               |      |

# SB & CSB Bearing Inserts



- Set screw lock
- Available relubricatable or non-relubricatable
- Narrow inner race

- K-type seals
- Spherical (SB) and cylindrical (CSB)



| Bearing No. | Bore Dia. of Bearing |        | Dimensions (in. (mm)) |   |    |   |   |   |    | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|-------------|----------------------|--------|-----------------------|---|----|---|---|---|----|--------------------------|---------------------------------|---------------|
|             | d (in.)              | d (mm) | Be                    | D | Bi | N | M | G | Ds |                          |                                 |               |

## SB<sub>G</sub> Relubricatable Inserts

|            |        |    |        |        |        |        |        |        |            |       |       |      |
|------------|--------|----|--------|--------|--------|--------|--------|--------|------------|-------|-------|------|
| SB 201G    |        | 12 |        |        |        |        |        |        |            |       |       |      |
| 201-8G     | 1/2    | 12 | 0.4724 | 1.5748 | 0.8661 | 0.2362 | 0.6299 | 0.1575 |            |       |       |      |
| 202G       |        | 15 | 12.0   | 40.0   | 22.0   | 6.0    | 16.0   | 4.0    | 10-32UNF   | 2,040 | 1,020 | 0.22 |
| 202-10G    | 5/8    | 17 |        |        |        |        |        |        |            |       |       |      |
| 203G       |        | 17 |        |        |        |        |        |        |            |       |       |      |
| SB 204-12G | 3/4    | 20 | 0.5512 | 1.8504 | 0.9843 | 0.2756 | 0.7087 | 0.1969 | 1/4-28UNF  | 2,740 | 1,600 | 0.33 |
| 204G       |        | 20 | 14.0   | 47.0   | 25.0   | 7.0    | 18.0   | 5.0    |            |       |       |      |
| SB 205-14G | 7/8    | 25 | 0.5906 | 2.0472 | 1.0630 | 0.2953 | 0.7677 | 0.2165 | 1/4-28UNF  | 3,010 | 1,750 | 0.40 |
| 205-15G    | 15/16  | 25 | 15.0   | 52.0   | 27.0   | 7.5    | 19.5   | 5.5    |            |       |       |      |
| 205G       |        | 25 |        |        |        |        |        |        |            |       |       |      |
| 205-16G    | 1      | 30 |        |        |        |        |        |        |            |       |       |      |
| SB 206-17G | 1 1/16 | 30 | 0.7087 | 2.4409 | 1.1811 | 0.3150 | 0.8661 | 0.2362 | 1/4-28UNF  | 4,200 | 2,430 | 0.68 |
| 206-18G    | 1 1/8  | 30 | 18.0   | 62.0   | 30.0   | 8.0    | 22.0   | 6.0    |            |       |       |      |
| 206G       |        | 30 |        |        |        |        |        |        |            |       |       |      |
| 206-19G    | 1 3/16 | 35 |        |        |        |        |        |        |            |       |       |      |
| 206-20G    | 1 1/4S | 35 |        |        |        |        |        |        |            |       |       |      |
| SB 207-20G | 1 1/4  | 35 | 0.7480 | 2.8346 | 1.2992 | 0.3740 | 0.9252 | 0.2362 | 5/16-24UNF | 5,535 | 3,340 | 1.06 |
| 207-21G    | 1 5/16 | 35 | 19.0   | 72.0   | 33.0   | 9.5    | 23.5   | 6.0    |            |       |       |      |
| 207-22G    | 1 3/8  | 35 |        |        |        |        |        |        |            |       |       |      |
| 207G       |        | 35 |        |        |        |        |        |        |            |       |       |      |
| 207-23G    | 1 7/16 | 40 |        |        |        |        |        |        |            |       |       |      |
| SB 208-24G | 1 1/2  | 40 | 0.8661 | 3.1496 | 1.4173 | 0.4331 | 0.9843 | 0.3150 | 5/16-24UNF | 6,375 | 3,960 | 1.51 |
| 208-25G    | 1 3/8  | 40 | 22.0   | 80.0   | 36.0   | 11.0   | 25.0   | 8.0    |            |       |       |      |
| 208G       |        | 40 |        |        |        |        |        |        |            |       |       |      |

## SB<sub>N</sub> and CSB Non-Relubricatable Inserts

|            |        |    |        |        |        |        |        |        |            |       |       |      |
|------------|--------|----|--------|--------|--------|--------|--------|--------|------------|-------|-------|------|
| SB 201N    |        | 12 |        |        |        |        |        |        |            |       |       |      |
| 201-8N     | 1/2    | 12 | 0.4724 | 1.5748 | 0.8661 | 0.2362 | 0.6299 | 0.1575 |            |       |       |      |
| 202N       |        | 15 | 12.0   | 40.0   | 22.0   | 6.0    | 16.0   | 4.0    | 10-32UNF   | 2,040 | 1,020 | 0.22 |
| 202-10N    | 5/8    | 17 |        |        |        |        |        |        |            |       |       |      |
| 203N       |        | 17 |        |        |        |        |        |        |            |       |       |      |
| SB 204-12N | 3/4    | 20 | 0.5512 | 1.8504 | 0.9843 | 0.2756 | 0.7087 | 0.1969 | 1/4-28UNF  | 2,740 | 1,600 | 0.33 |
| 204N       |        | 20 | 14.0   | 47.0   | 25.0   | 7.0    | 18.0   | 5.0    |            |       |       |      |
| SB 205-14N | 7/8    | 25 | 0.5906 | 2.0472 | 1.0630 | 0.2953 | 0.7677 | 0.2165 | 1/4-28UNF  | 3,010 | 1,750 | 0.40 |
| 205-15N    | 15/16  | 25 | 15.0   | 52.0   | 27.0   | 7.5    | 19.5   | 5.5    |            |       |       |      |
| 205N       |        | 25 |        |        |        |        |        |        |            |       |       |      |
| 205-16N    | 1      | 30 |        |        |        |        |        |        |            |       |       |      |
| SB 206-17N | 1 1/16 | 30 | 0.6299 | 2.4409 | 1.1417 | 0.3150 | 0.8267 | 0.2362 | 1/4-28UNF  | 4,200 | 2,430 | 0.60 |
| 206-18N    | 1 1/8  | 30 | 16.0   | 62.0   | 29.0   | 8.0    | 21.0   | 6.0    |            |       |       |      |
| 206N       |        | 30 |        |        |        |        |        |        |            |       |       |      |
| 206-19N    | 1 3/16 | 35 |        |        |        |        |        |        |            |       |       |      |
| 206-20N    | 1 1/4S | 35 |        |        |        |        |        |        |            |       |       |      |
| SB 207-20N | 1 1/4  | 35 | 0.6693 | 2.8346 | 1.2598 | 0.3346 | 0.9252 | 0.2362 | 5/16-24UNF | 5,535 | 3,340 | 0.93 |
| 207-21N    | 1 5/16 | 35 | 17.0   | 72.0   | 32.0   | 8.5    | 23.5   | 6.0    |            |       |       |      |
| 207-22N    | 1 3/8  | 35 |        |        |        |        |        |        |            |       |       |      |
| 207N       |        | 35 |        |        |        |        |        |        |            |       |       |      |
| 207-23N    | 1 7/16 | 40 |        |        |        |        |        |        |            |       |       |      |
| SB 208-24N | 1 1/2  | 40 | 0.7087 | 3.1496 | 1.3386 | 0.3543 | 0.9843 | 0.3150 | 5/16-24UNF | 6,375 | 3,960 | 1.32 |
| 208N       |        | 40 | 18.0   | 80.0   | 34.0   | 9.0    | 25.0   | 8.0    |            |       |       |      |



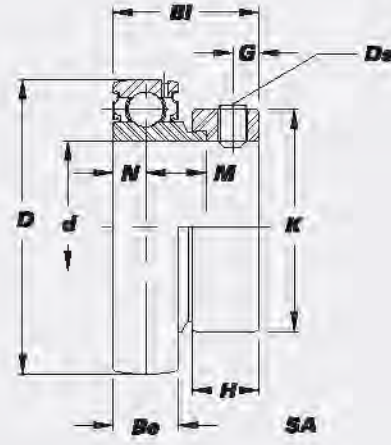
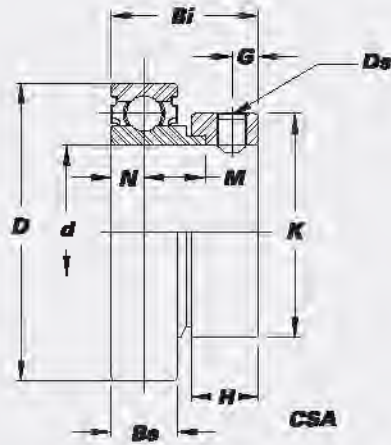
# SA & CSA Bearing Inserts



K-type Seal

- Eccentric locking collar
- Narrow inner race
- K-type seals

- Available relubricatable (G) or non-relubricatable (N)
- Spherical (SA) and cylindrical (CSA)



| Bearing No. | Bore Dia. of Bearing |        | Dimensions (in. (mm)) |        |        |        |        |        |            |        | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |      |
|-------------|----------------------|--------|-----------------------|--------|--------|--------|--------|--------|------------|--------|--------------------------|---------------------------------|---------------|------|
|             | d (in.)              | d (mm) | Be                    | D      | Bi     | N      | M      | G      | Ds         | K      |                          |                                 |               | H    |
| SA201       |                      | 12     |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 201-8       | 1/2                  | 15     | 0.5118                | 1.5748 | 1.1260 | 0.2559 | 0.4960 | 0.1890 |            |        |                          |                                 |               |      |
| 202         |                      |        | 13.0                  | 40.0   | 28.6   | 6.5    | 12.6   | 4.8    | 1/4-28UNF  | 1.1260 | 0.5315                   | 2,040                           | 1,020         | 0.29 |
| 202-10      | 5/8                  | 17     |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 203         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA204-12    | 3/4                  | 20     | 0.5906                | 1.8504 | 1.2205 | 0.2953 | 0.5512 | 0.1890 |            |        |                          |                                 |               |      |
| 204         |                      |        | 15.0                  | 47.0   | 31.0   | 7.5    | 14.0   | 4.8    | 1/4-28UNF  | 1.3110 | 0.5315                   | 2,740                           | 1,600         | 0.43 |
| SA205-14    | 7/8                  | 25     | 0.5906                | 2.0472 | 1.2205 | 0.2953 | 0.5513 | 0.1890 |            |        |                          |                                 |               |      |
| 205-15      | 15/16                |        | 15.0                  | 52.0   | 31.0   | 7.5    | 14.0   | 4.8    | 1/4-28UNF  | 1.5000 | 0.5315                   | 3,010                           | 1,750         | 0.51 |
| 205         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 205-16      | 1                    | 30     | 0.7087                | 2.4409 | 1.4055 | 0.3543 | 0.5827 | 0.2362 |            |        |                          |                                 |               |      |
| SA206-17    | 1 1/16               |        | 18.0                  | 62.0   | 35.7   | 9.0    | 14.8   | 6.0    | 5/16-24UNF | 1.7520 | 0.6260                   | 4,200                           | 2,430         | 0.75 |
| 206-18      | 1 1/8                |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 206         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 206-19      | 1 3/16               |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 206-20      | 1 1/4S               |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA207-20    | 1 1/4                | 35     | 0.7480                | 2.8346 | 1.5315 | 0.3740 | 0.6260 | 0.2677 |            |        |                          |                                 |               |      |
| 207-21      | 1 5/16               |        | 19.0                  | 72.0   | 38.9   | 9.5    | 15.9   | 6.8    | 5/16-24UNF | 2.1890 | 0.6890                   | 5,535                           | 3,340         | 1.26 |
| 207-22      | 1 3/8                |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 207         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 207-23      | 1 7/16               |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA208-24    | 1 1/2                | 40     | 0.8661                | 3.1496 | 1.7205 | 0.4331 | 0.7559 | 0.2677 |            |        |                          |                                 |               |      |
| 208-25      | 1 9/16               |        | 22.0                  | 80.0   | 43.7   | 11.0   | 19.2   | 6.8    | 5/16-24UNF | 2.3740 | 0.7205                   | 6,375                           | 3,960         | 1.65 |
| 208         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA209-26    | 1 5/8                | 45     | 0.8661                | 3.3465 | 1.7205 | 0.4331 | 0.7559 | 0.2677 |            |        |                          |                                 |               |      |
| 209-27      | 1 11/16              |        | 22.0                  | 85.0   | 43.7   | 11.0   | 19.2   | 6.8    | 5/16-24UNF | 2.5000 | 0.7205                   | 7,110                           | 4,460         | 1.81 |
| 209-28      | 1 3/4                |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 209         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA210-30    | 1 7/8                | 50     | 0.8661                | 3.5433 | 1.7205 | 0.4331 | 0.7559 | 0.2677 |            |        |                          |                                 |               |      |
| 210-31      | 1 15/16              |        | 22.0                  | 90.0   | 43.7   | 11.0   | 19.2   | 6.8    | 5/16-24UNF | 2.7520 | 0.7205                   | 7,400                           | 4,910         | 1.87 |
| 210         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 210-32      | 2S                   |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| SA211-32    | 2                    | 55     | 0.9449                | 3.9370 | 1.9055 | 0.4724 | 0.8031 | 0.3150 |            |        |                          |                                 |               |      |
| 211-34      | 2 1/8                |        | 24.0                  | 100.0  | 48.4   | 12.0   | 20.4   | 8.0    | 3/8-24UNF  | 3.0000 | 0.8189                   | 9,490                           | 6,440         | 2.65 |
| 211         |                      |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |
| 211-35      | 2 3/16               |        |                       |        |        |        |        |        |            |        |                          |                                 |               |      |

POWER TRAINS STANDARD PRODUCTS

# UCP Pillow Blocks



Standard duty. High shaft height with set screw lock.

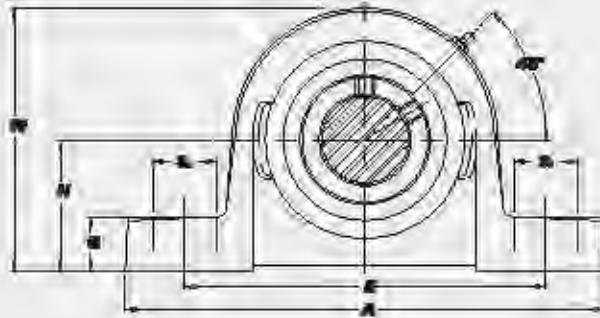
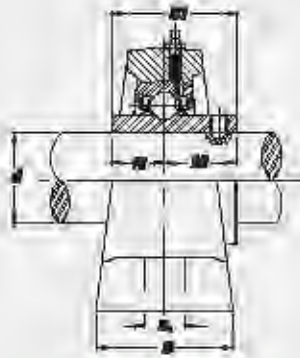
- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals
- Available with high temp. bearings - See page 46



B-type Seal



L3-type Seal



STANDARD PRODUCTIONS

| Unit No.   | Shaft Dia. |        | Dimensions (in.) (mm) |          |         |         |                |                |        |         |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |           |
|------------|------------|--------|-----------------------|----------|---------|---------|----------------|----------------|--------|---------|--------|--------|--------|-----------------|-------------|-------------|---------------|-----------|
|            | d (in.)    | d (mm) | H                     | A        | E       | B       | S <sub>2</sub> | S <sub>1</sub> | G      | W       | Bi     | N      | M      |                 |             |             |               |           |
| UCP 201    |            | 12     |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UCW 201   |
| 201-8      | 1/2        |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 201-8     |
| 202        |            | 15     | 1 3/16                | 4 7/8    | 3 5/8   | 1 7/16  | 3/4            | 7/16           | 17/32  | 2 23/64 | 1.0236 | 0.3937 | 0.6299 | 3/8             |             |             |               | 202       |
| 202-10     | 5/8        |        | 30.2                  | 124      | 92      | 37      | 19             | 11             | 13     | 60      | 26.0   | 10.0   | 16.0   |                 |             |             |               | 202-10    |
| 203        |            | 17     |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 203       |
| UCP 204-12 | 3/4        |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 204-12 |
| 204        |            | 20     | 1 5/16                | 5        | 3 3/4   | 1 1/2   | 11/16          | 7/16           | 9/16   | 2 19/32 | 1.2205 | 0.5000 | 0.7205 | 3/8             |             |             |               | 204       |
|            |            |        | 33.3                  | 127      | 95      | 38      | 17             | 11             | 14     | 66      | 31.0   | 12.7   | 18.3   |                 |             |             |               | P 204     |
| UCP 205-14 | 7/8        |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 205-14 |
| 205-15     | 15/16      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 205-15    |
| 205        |            | 25     | 1 7/16                | 5 1/2    | 4 1/8   | 1 1/2   | 11/16          | 1/2            | 5/8    | 2 27/32 | 1.3386 | 0.5630 | 0.7756 | 3/8             |             |             |               | 205       |
| 205-16     | 1          |        | 36.5                  | 140      | 105     | 38      | 17             | 13             | 16     | 72      | 34.0   | 14.3   | 19.7   |                 |             |             |               | 205-16    |
| UCP 206-17 | 1 1/16     |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 206-17 |
| 206-18     | 1 1/8      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 206-18    |
| 206        |            | 30     | 1 11/16*              | 6 5/16   | 4 3/4   | 1 3/4   | 1 3/16         | 9/16           | 11/16  | 3 19/64 | 1.5000 | 0.6260 | 0.8740 | 1/2             |             |             |               | 206       |
| 206-19     | 1 3/16     |        | 42.9                  | 160      | 121     | 44      | 21             | 14             | 18     | 84      | 38.1   | 15.9   | 22.2   |                 |             |             |               | 206-19    |
| 206-20     | 1 1/4 S    |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 206-20    |
| UCP 207-20 | 1 1/4      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 207-20 |
| 207-21     | 1 5/16     |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 207-21    |
| 207-22     | 1 3/8      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 207-22    |
| 207        |            | 35     | 1 7/8                 | 6 17/32  | 5       | 2 29/32 | 7/8            | 9/16           | 3/4    | 3 11/16 | 1.6890 | 0.6890 | 1.0000 | 1/2             |             |             |               | 207       |
| 207-23     | 1 7/16     |        | 47.6                  | 166      | 127     | 48      | 22             | 14             | 19     | 94      | 42.9   | 17.5   | 25.4   |                 |             |             |               | 207-23    |
| UCP 208-24 | 1 1/2      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 208-24 |
| 208-25     | 1 9/16     |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 208-25    |
| 208        |            | 40     | 1 15/16**             | 7 1/8    | 5 1/16  | 2       | 7/8            | 9/16           | 1 3/16 | 4       | 1.9370 | 0.7480 | 1.1890 | 1/2             |             |             |               | 208       |
|            |            |        | 49.2                  | 181      | 137     | 51      | 22             | 14             | 21     | 102     | 49.2   | 19.0   | 30.2   |                 |             |             |               | P 208     |
| UCP 209-26 | 1 5/8      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 209-26 |
| 209-27     | 1 11/16    |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 209-27    |
| 209-28     | 1 3/4      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 209-28    |
| 209        |            | 45     | 2 1/8                 | 7 1/2    | 5 3/4   | 2 1/8   | 1 3/16         | 1 9/32         | 7/8    | 4 17/64 | 1.9370 | 0.7480 | 1.1890 | 1/2             |             |             |               | 209       |
|            |            |        | 54.0                  | 190      | 146     | 54      | 21             | 15             | 22     | 109     | 49.2   | 19.0   | 30.2   |                 |             |             |               | P 209     |
| UCP 210-30 | 1 7/8      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 210-30 |
| 210-31     | 1 15/16    |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 210-31    |
| 210        |            | 50     | 2 1/4                 | 8        | 6 1/4   | 2 1/4   | 1 5/16         | 2 3/32         | 1 5/16 | 4 33/64 | 2.0315 | 0.7480 | 1.2835 | 5/8             |             |             |               | 210       |
| 210-32     | 2 S        |        | 57.2                  | 203      | 159     | 57      | 24             | 18             | 24     | 115     | 51.6   | 19.0   | 32.6   |                 |             |             |               | 210-32    |
| UCP 211-32 | 2          |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 211-32 |
| 211-34     | 2 1/8      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 211-34    |
| 211        |            | 55     | 2 1/2                 | 8 5/8    | 6 7/8   | 2 3/8   | 1 5/16         | 2 3/32         | 1 1/16 | 5 1/32  | 2.1890 | 0.8740 | 1.3150 | 5/8             |             |             |               | 211       |
| 211-35     | 2 3/16     |        | 63.5                  | 220      | 174     | 60      | 24             | 18             | 27     | 128     | 55.6   | 22.2   | 33.4   |                 |             |             |               | 211-35    |
| UCP 212-36 | 2 1/4      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 212-36 |
| 212        |            | 60     | 2 3/4                 | 9 17/32  | 7 11/32 | 2 1/2   | 1              | 2 5/32         | 1 1/16 | 5 33/64 | 2.5630 | 1.0000 | 1.5630 | 5/8             |             |             |               | 212       |
| 212-38     | 2 3/8      |        | 69.8                  | 242      | 187     | 64      | 25.4           | 20             | 27     | 140     | 65.1   | 25.4   | 39.7   |                 |             |             |               | 212-38    |
| 212-39     | 2 1/16     |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 212-39    |
| UCP 213-40 | 2 1/2      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 213-40 |
| 213        |            | 65     | 3                     | 10 3/4   | 8 1/8   | 2 11/16 | 1 3/16         | 1 3/16         | 1 1/8  | 6 1/32  | 2.5630 | 1.0000 | 1.5630 | 5/8             |             |             |               | 213       |
|            |            |        | 76.2                  | 273      | 206     | 68      | 30             | 20             | 28     | 153     | 65.1   | 25.4   | 39.7   |                 |             |             |               | PX12      |
| UCP 214-43 | 2 11/16    |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 214-43 |
| 214-44     | 2 3/4      |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | 214-44    |
| 214        |            | 70     | 3                     | 10 3/4   | 8 1/8   | 2 1/2   | 1 13/16        | 1 3/16         | 1 1/8  | 6 1/32  | 2.9370 | 1.1890 | 1.7480 | 5/8             |             |             |               | 214       |
|            |            |        | 76.2                  | 273      | 206     | 64      | 30             | 20             | 28     | 153     | 74.6   | 30.2   | 44.4   |                 |             |             |               | PX13      |
| UCP 215-47 | 2 5/16     |        |                       |          |         |         |                |                |        |         |        |        |        |                 |             |             |               | UC 215-47 |
| 215        |            | 75     | 3 1/4                 | 10 13/16 | 8 1/2   | 2 15/16 | 1 1/4          | 1              | 1 1/8  | 6 33/64 | 3.0630 | 1.3110 | 1.7520 | 7/8             |             |             |               | 215       |
| 215-48     | 3          |        | 82.6                  | 275      | 217     | 75      | 31             | 25.4           | 29     | 166     | 77.8   | 33.3   | 44.5   |                 |             |             |               | 215-48    |

Interchange Page 47. \*Also available 1 5/8" \*\*Also available 2 1/8"

# UCPX Pillow Blocks



B-type Seal



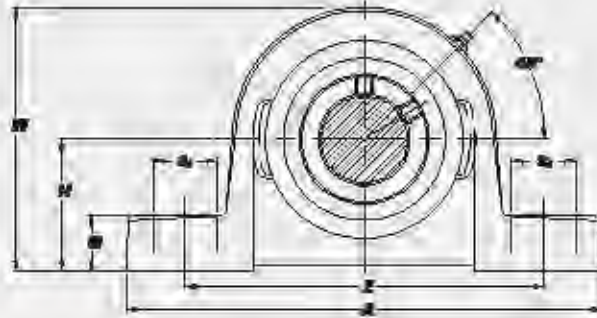
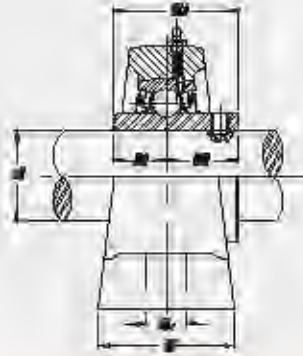
L3-type Seal

## Medium duty with set screw lock.

- Wide inner race bearing with greater load carrying capacity than standard duty
- Cast iron housing
- B-type seals
- L3-type seals available in some sizes



POWER TRANSMISSION STANDARD PRODUCTS



| Unit No.                              | Shaft Dia.                      |        | Dimensions (in.) (mm) |                  |                  |                 |                 |                |                |                  |                 |                |                | Bolt Used (in.) | Bearing No.                          | Housing No. | Weight (lbs.) |
|---------------------------------------|---------------------------------|--------|-----------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|------------------|-----------------|----------------|----------------|-----------------|--------------------------------------|-------------|---------------|
|                                       | d (in.)                         | d (mm) | H                     | A                | E                | B               | S <sub>2</sub>  | S <sub>1</sub> | G              | W                | Bi              | N              | M              |                 |                                      |             |               |
| UCP X05-14<br>X05-15<br>X05           | 7/8<br>15/16<br>1               | 25     | 1 11/16<br>42.9       | 6 5/16<br>160    | 4 3/4<br>121     | 1 3/4<br>44     | 1 3/16<br>21    | 9/16<br>14.2   | 1 1/16<br>18   | 3 19/64<br>83.7  | 1.5000<br>38.1  | 0.6260<br>15.9 | 0.8740<br>22.2 | 1/2             | UC X05-14<br>X05-15<br>X05-16        | P X05       | 3.5           |
| UCP X06-18<br>X06<br>X06-19<br>X06-20 | 1 1/8<br>1 3/16<br>1 1/4        | 30     | 1 7/8<br>47.6         | 6 17/32<br>165.9 | 5<br>127         | 1 29/32<br>48.5 | 7/8<br>22.4     | 9/16<br>14.2   | 3/4<br>19.1    | 3 11/16<br>93.7  | 1.6890<br>42.9  | 0.6890<br>17.5 | 1.0000<br>25.4 | 1/2             | UC X06-18<br>X06<br>X06-19<br>207-20 | P 207       | 4.6           |
| UCP X07-22<br>X07<br>X07-23           | 1 3/8<br>1 7/16                 | 35     | 2 1/8<br>54.0         | 7 1/4<br>184.2   | 5 17/32<br>140.5 | 1 15/16<br>49.2 | 1 5/16<br>23.8  | 9/16<br>14.2   | 1 3/16<br>20.6 | 4 3/16<br>106.4  | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2             | UC X07-22<br>X07<br>X07-23           | P X07       | 6.0           |
| UCP X08-24<br>X08                     | 1 1/2                           | 40     | 2 1/8<br>54.0         | 7 1/2<br>190.5   | 5 3/4<br>146.1   | 2 1/8<br>54.1   | 1 13/16<br>20.6 | 1 9/32<br>15   | 7/8<br>22.3    | 4 17/64<br>108.3 | 1.9370<br>49.2  | 0.7480<br>19.0 | 1.1890<br>30.2 | 1/2             | UC X08-24<br>X08                     | P 209       | 7.7           |
| UCP X09-26<br>X09-27<br>X09-28<br>X09 | 1 5/8<br>1 11/16<br>1 3/4<br>45 | 45     | 2 1/4<br>57.2         | 8<br>203.2       | 6 1/4<br>158.8   | 2 1/4<br>57.2   | 1 5/16<br>23.8  | 2 3/32<br>18.3 | 1 5/16<br>23.8 | 4 33/64<br>114.7 | 2.0315<br>51.6  | 0.7480<br>19.0 | 1.2835<br>32.6 | 5/8             | UC X09-26<br>X09-27<br>X09-28<br>X09 | P 210       | 8.2           |
| UCP X10-30<br>X10-31<br>X10<br>X10-32 | 1 7/8<br>1 15/16<br>2           | 50     | 2 1/2<br>63.5         | 8 5/8<br>219.2   | 6 7/8<br>174.8   | 2 3/8<br>60.5   | 1 5/16<br>23.8  | 2 3/32<br>18.3 | 1 1/16<br>26.9 | 5 1/32<br>127.8  | 2.1890<br>55.6  | 0.8740<br>22.2 | 1.3150<br>33.4 | 5/8             | UC X10-30<br>X10-31<br>X10<br>211-32 | P 211       | 10.1          |
| UCP X11-34<br>X11<br>X11-35<br>X11-36 | 2 1/8<br>2 3/16<br>2 1/4        | 55     | 2 3/4<br>69.8         | 9 17/32<br>242.1 | 7 11/32<br>186.4 | 2 1/2<br>63.5   | 1<br>25.4       | 2 5/32<br>19.8 | 1 1/16<br>26.9 | 5 39/64<br>140.1 | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | 5/8             | UC X11-34<br>X11<br>X11-35<br>212-36 | P 212       | 14.1          |
| UCP X12<br>X12-38<br>X12-39           | 2 3/8<br>2 1/16                 | 60     | 3<br>76.2             | 10 3/4<br>273.1  | 8 1/8<br>206.4   | 2 11/16<br>68.3 | 1 9/16<br>30.2  | 1 9/16<br>20.4 | 1 1/8<br>28.6  | 5 63/64<br>152   | 2.5630<br>65.1  | 1.0000<br>25.4 | 1.5630<br>39.7 | 5/8             | UC X12<br>X12-38<br>X12-39           | P X12       | 17.0          |
| UCP X13-40<br>X13                     | 2 1/2                           | 65     | 3<br>76.2             | 10 3/4<br>273.1  | 8 1/8<br>206.4   | 2 11/16<br>68.3 | 1 9/16<br>30.2  | 1 9/16<br>20.4 | 1 1/8<br>28.6  | 5 63/64<br>152   | 2.9370<br>74.6  | 1.1890<br>30.2 | 1.7480<br>44.4 | 5/8             | UC X13-40<br>X13                     | P X13       | 17.3          |
| UCP X14-43<br>X14-44<br>X14           | 2 11/16<br>2 3/4<br>70          | 70     | 3 1/2<br>88.9         | 13<br>330        | 9<br>229         | 3 1/2<br>89     | 2<br>51         | 1 1/16<br>27   | 1 3/8<br>35    | 6 25/32<br>172   | 3.0630<br>77.8  | 1.3110<br>33.3 | 1.7520<br>44.5 | 7/8             | UC X14-43<br>X14-44<br>X14           | P X14       | 24.5          |
| UCP X15<br>X15-47<br>X15-48           | 2 15/16<br>3<br>85              | 85     | 3 1/2<br>88.9         | 11 3/4<br>298.5  | 9 1/8<br>231.8   | 3<br>76.2       | 1 1/16<br>36.5  | 1<br>25.4      | 1 3/8<br>35    | 7 1/32<br>178.6  | 3.2520<br>82.6  | 1.3110<br>33.3 | 1.9410<br>49.3 | 7/8             | UC X15<br>X15-47<br>X15-48           | P X15       | 23.6          |
| UCP X17<br>X17-55<br>X17-56           | 3 7/16<br>3 1/2<br>90           | 90     | 4<br>101.6            | 14<br>355.6      | 11 1/16<br>281   | 3 3/8<br>85.7   | 1 13/16<br>46   | 1<br>25.4      | 1 9/16<br>40   | 8<br>203.2       | 3.7795<br>96.0  | 1.5630<br>39.7 | 2.2165<br>56.3 | 7/8             | UC X17<br>X17-55<br>X17-56           | P X17       | 35.7          |
| UCP X20<br>X20-63<br>X20-64           | 3 15/16<br>4<br>100             | 100    | 5<br>127.0            | 17<br>432        | 13 3/4<br>337    | 4<br>102        | 2<br>51         | 1.13<br>29     | 1 13/16<br>46  | 9 27/32<br>250   | 4.6260<br>117.5 | 1.9370<br>49.2 | 2.6890<br>68.3 | 1               | UC X20<br>X20-63<br>X20-64           | P X20       | 66.8          |

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# UCT Take Up Units



Wide slot, standard duty with set screw lock.

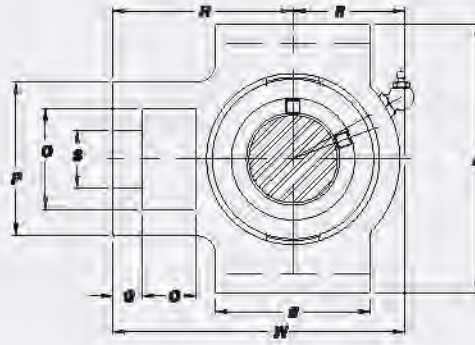
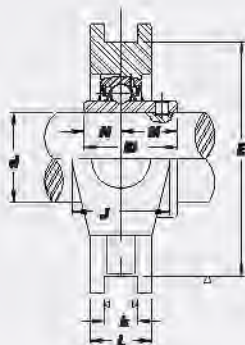
- Cast iron housing
- Wide inner race bearing
- Available with high temp. bearing - See page 46
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



| Unit No.   | Shaft Dia. |      | Dimensions (in.) |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | Bearing No. | Housing No. | Weight (lbs.) |  |
|------------|------------|------|------------------|-------|---------|---------|---------|---------|--------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|-------------|-------------|---------------|--|
|            | d          |      | (mm)             |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             |             |               |  |
|            | (in.)      | (mm) | O                | G     | P       | Q       | S       | B       | k      | E       | A       | W       | J       | L       | R       | H       | Bi     | N      | M      |             |             |               |  |
| UCT 201    |            | 12   |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 201      |               |  |
| 201-8      | 1/2        |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | 201-8       |               |  |
| 202        |            | 15   | 5/8              | 13/32 | 2       | 1 1/4   | 3/4     | 2       | 17/32  | 3       | 3 1/2   | 3 11/16 | 1 1/4   | 13/16   | 1 5/16  | 2 13/32 | 1.2205 | 0.5000 | 0.7205 | 202         | T 204       | 1.7           |  |
| 202-10     | 5/8        |      | 16               | 10    | 51      | 32      | 19      | 51      | 13.5   | 76.2    | 89      | 94      | 32      | 21      | 33      | 61      | 31.0   | 12.7   | 18.3   | 202-10      |             |               |  |
| 203        |            | 17   |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 203         |             |               |  |
| 204-12     | 3/4        |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 204-12      |             |               |  |
| 204        |            | 20   |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 204         |             |               |  |
| UCT 205-14 | 7/8        |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 205-14   |               |  |
| 205-15     | 15/16      |      | 5/8              | 13/32 | 2       | 1 1/4   | 3/4     | 2       | 17/32  | 3       | 3 1/2   | 3 13/16 | 1 1/4   | 15/16   | 1 3/8   | 2 7/16  | 1.3386 | 0.5630 | 0.7756 | 205-15      | T 205       | 1.9           |  |
| 205        |            | 25   | 16               | 10    | 51      | 32      | 19      | 51      | 13.5   | 76.2    | 89      | 97      | 32      | 24      | 35      | 62      | 34.0   | 14.3   | 19.7   | 205         |             |               |  |
| 205-16     | 1          |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 205-16      |             |               |  |
| UCT 206-17 | 1 1/16     |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 206-17   |               |  |
| 206-18     | 1 1/8      |      | 5/8              | 13/32 | 2 1/2   | 1 13/32 | 55/64   | 2 1/4   | 17/32  | 3 1/2   | 4 1/32  | 4 7/16  | 1 5/32  | 1 3/32  | 1 11/16 | 2 3/4   | 1.5000 | 0.6260 | 0.8740 | 206-18      | T 206       | 2.9           |  |
| 206        |            | 30   | 16               | 10    | 56      | 37      | 22      | 57      | 13.5   | 88.9    | 102     | 113     | 37      | 28      | 43      | 70      | 38.1   | 15.9   | 22.2   | 206         |             |               |  |
| 206-19     | 1 3/16     |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 206-19      |             |               |  |
| 206-20     | 1 1/4 S    |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 206-20      |             |               |  |
| UCT 207-20 | 1 1/4      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 207-20   |               |  |
| 207-21     | 1 5/16     |      | 5/8              | 1/2   | 2 17/32 | 1 15/32 | 55/64   | 2 17/32 | 17/32  | 3 1/2   | 4 1/32  | 5 3/32  | 1 15/32 | 1 3/16  | 2       | 3 1/16  | 1.6890 | 0.6890 | 1.0000 | 207-21      | T 207       | 3.5           |  |
| 207-22     | 1 3/8      |      | 16               | 13    | 64      | 37      | 22      | 64      | 13.5   | 88.9    | 102     | 129     | 37      | 30      | 51      | 78      | 42.9   | 17.5   | 25.4   | 207-22      |             |               |  |
| 207        |            | 35   |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 207         |             |               |  |
| 207-23     | 1 7/16     |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 207-23      |             |               |  |
| UCT 208-24 | 1 1/2      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 208-24   |               |  |
| 208-25     | 1 9/16     |      | 3/4              | 5/8   | 3 3/32  | 1 15/16 | 1 5/64  | 3 3/32  | 1 1/16 | 4       | 4 1/2   | 5 21/32 | 1 15/16 | 1 5/16  | 2 7/32  | 3 15/32 | 1.9370 | 0.7480 | 1.1890 | 208-25      | T 208       | 5.5           |  |
| 208        |            | 40   | 19               | 16    | 83      | 49      | 29      | 83      | 17.5   | 101.6   | 114     | 144     | 49      | 33      | 56      | 88      | 49.2   | 19.0   | 30.2   | 208         |             |               |  |
| UCT 209-26 | 1 5/8      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 209-26   |               |  |
| 209-27     | 1 11/16    |      | 3/4              | 5/8   | 3 3/32  | 1 15/16 | 1 5/64  | 3 3/32  | 1 1/16 | 4       | 4 19/32 | 5 21/32 | 1 15/16 | 1 3/8   | 2 1/4   | 3 7/16  | 1.9370 | 0.7480 | 1.1890 | 209-27      | T 209       | 5.5           |  |
| 209-28     | 1 3/4      |      | 19               | 16    | 83      | 49      | 29      | 83      | 17.5   | 101.6   | 117     | 144     | 49      | 35      | 57      | 87      | 49.2   | 19.0   | 30.2   | 209-28      |             |               |  |
| 209        |            | 45   |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 209         |             |               |  |
| UCT 210-30 | 1 7/8      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 210-30   |               |  |
| 210-31     | 1 15/16    |      | 3/4              | 5/8   | 3 3/32  | 1 15/16 | 1 5/64  | 3 3/8   | 1 1/16 | 4       | 4 19/32 | 5 7/8   | 1 15/16 | 1 15/32 | 2 5/16  | 3 17/32 | 2.0315 | 0.7480 | 1.2835 | 210-31      | T 210       | 5.7           |  |
| 210        |            | 50   | 19               | 16    | 83      | 49      | 29      | 86      | 17.5   | 101.6   | 117     | 149     | 49      | 37      | 59      | 90      | 51.6   | 19.0   | 32.6   | 210         |             |               |  |
| 210-32     | 2S         |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 210-32      |             |               |  |
| UCT 211-32 | 2          |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 211-32   |               |  |
| 211-34     | 2 1/8      |      | 1                | 3/4   | 4 1/32  | 2 17/32 | 1 3/8   | 3 3/4   | 1 1/16 | 5 1/8   | 5 3/4   | 6 23/32 | 2 17/32 | 1 1/2   | 2 9/16  | 4 3/16  | 2.1890 | 0.8740 | 1.3150 | 211-34      | T 211       | 8.8           |  |
| 211        |            | 55   | 25               | 19    | 102     | 64      | 35      | 95      | 27     | 130.2   | 146     | 171     | 64      | 38      | 65      | 106     | 55.6   | 22.2   | 33.4   | 211         |             |               |  |
| 211-35     | 2 3/16     |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 211-35      |             |               |  |
| UCT 212-36 | 2 1/4      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 212-36   |               |  |
| 212        |            | 60   | 1 1/4            | 3/4   | 4 1/32  | 2 17/32 | 1 3/8   | 4 1/32  | 1 1/16 | 5 1/8   | 5 3/4   | 7 5/8   | 2 17/32 | 2 13/32 | 2 15/16 | 4 11/16 | 2.5630 | 1.0000 | 1.5630 | 212         | T 212       | 10.6          |  |
| 212-38     | 2 3/8      |      | 32               | 19    | 102     | 64      | 35      | 102     | 27     | 130.2   | 146     | 194     | 64      | 42      | 75      | 119     | 65.1   | 25.4   | 39.7   | 212-38      |             |               |  |
| 212-39     | 2 1/16     |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        | 212-39      |             |               |  |
| UCT 213-40 | 2 1/2      |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 213-40   |               |  |
| 213        |            | 65   | 1 1/4            | 13/16 | 4 3/8   | 2 3/4   | 1 39/64 | 4 3/4   | 1 1/16 | 5 15/16 | 6 9/16  | 8 13/16 | 2 3/4   | 1 23/32 | 3 7/16  | 5 13/32 | 2.5630 | 1.0000 | 1.5630 | 213         | T 213       | 15.2          |  |
| UCT 215-47 | 2 15/16    |      |                  |       |         |         |         |         |        |         |         |         |         |         |         |         |        |        |        |             | UC 215-47   |               |  |
| 215        |            | 75   | 1 1/4            | 13/16 | 4 3/8   | 2 3/4   | 1 39/64 | 4 3/4   | 1 1/16 | 5 15/16 | 6 9/16  | 9 1/8   | 2 3/4   | 1 7/8   | 3 5/8   | 5 1/2   | 3.0630 | 1.3110 | 1.7520 | 215         | T 215       | 15.9          |  |
| 215-48     | 3          |      | 32               | 21    | 111     | 70      | 41      | 121     | 27     | 150.8   | 167     | 232     | 70      | 48      | 92      | 140     | 77.8   | 33.3   | 44.5   | 215-48      |             |               |  |

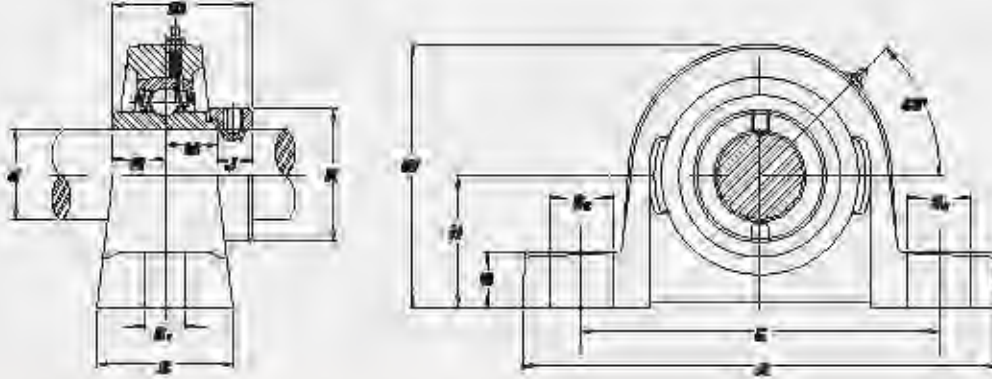
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# NAP Pillow Blocks



**Standard duty. High shaft height with eccentric locking collar.**

- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals



| Unit No.   | Shaft Dia. |        | Dimensions (in.) (mm) |          |         |         |                |        |        |         |        |        |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |  |
|------------|------------|--------|-----------------------|----------|---------|---------|----------------|--------|--------|---------|--------|--------|--------|--------|--------|-----------------|-------------|-------------|---------------|--|
|            | d (in.)    | d (mm) | H                     | A        | E       | B       | S <sub>2</sub> | S      | G      | W       | Bi     | N      | M      | J      | K      |                 |             |             |               |  |
| NAP 201    |            | 12     |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 |             | NAW201      |               |  |
| 201-8      | 1/2        |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 |             | 201-8       |               |  |
| 202        |            | 15     | 1 3/16                | 4 7/8    | 3 5/8   | 1 1/16  | 3/4            | 7/16   | 1 7/32 | 2 23/64 | 1.4685 | 0.5472 | 0.5472 | 0.3740 | 1.1260 | 3/8             | 202         | P 203       | 1.6           |  |
| 202-10     | 5/8        |        | 30.2                  | 124      | 92      | 37      | 19             | 11     | 13     | 60      | 37.3   | 13.9   | 13.9   | 9.5    | 28.6   |                 | 202-10      |             |               |  |
| 203        |            | 17     |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 203         |             |               |  |
| NAP 204-12 | 3/4        |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 204-12   | P 204       | 1.7           |  |
| 204        |            | 20     | 1 5/16                | 5        | 3 3/4   | 1 1/2   | 1 1/16         | 7/16   | 9/16   | 2 19/32 | 1.7126 | 0.6693 | 0.6693 | 0.3740 | 1.3110 | 3/8             | 204         |             |               |  |
| NAP 205-14 | 7/8        |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 205-14   |             |               |  |
| 205-15     | 1 5/16     |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 205-15      | P 205       | 2.1           |  |
| 205        |            | 25     | 1 7/16                | 5 1/2    | 4 1/8   | 1 1/2   | 1 1/16         | 1/2    | 5/8    | 2 27/32 | 1.7441 | 0.6850 | 0.6850 | 0.3740 | 1.5000 | 3/8             | 205         |             |               |  |
| 205-16     | 1          |        | 36.5                  | 140      | 105     | 38      | 17             | 13     | 16     | 72      | 44.3   | 17.4   | 17.4   | 9.5    | 38.1   |                 | 205-16      |             |               |  |
| NAP 206-17 | 1 1/16     |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 206-17   |             |               |  |
| 206-18     | 1 1/8      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 206-18      | P 206       | 3.1           |  |
| 206        |            | 30     | 1 11/16*              | 6 5/16   | 4 3/4   | 1 3/4   | 1 3/16         | 9/16   | 1 1/16 | 3 19/64 | 1.9016 | 0.7165 | 0.7165 | 0.4685 | 1.7520 | 1/2             | 206         |             |               |  |
| 206-19     | 1 3/16     |        | 42.9                  | 160      | 121     | 44      | 21             | 14     | 18     | 84      | 48.3   | 18.2   | 18.2   | 11.9   | 44.5   |                 | 206-19      |             |               |  |
| 206-20     | 1 1/4 S    |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 206-20      |             |               |  |
| NAP 207-20 | 1 1/4      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 207-20   |             |               |  |
| 207-21     | 1 5/16     |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 207-21      | P 207       | 4.2           |  |
| 207-22     | 1 3/8      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 207-22      |             |               |  |
| 207        |            | 35     | 1 7/8                 | 6 17/32  | 5       | 2 29/32 | 7/8            | 9/16   | 3/4    | 3 11/16 | 2.0118 | 0.7402 | 0.7402 | 0.5315 | 2.1890 | 1/2             | 207         |             |               |  |
| 207-23     | 1 7/16     |        | 47.6                  | 166      | 127     | 48      | 22             | 14     | 19     | 94      | 51.1   | 18.8   | 18.8   | 13.5   | 55.6   |                 | 207-23      |             |               |  |
| NAP 208-24 | 1 1/2      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 208-24   |             |               |  |
| 208-25     | 1 5/16     |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 208-25      | P 208       | 5.3           |  |
| 208        |            | 40     | 1 15/16**             | 7 1/8    | 5 7/16  | 2       | 7/8            | 9/16   | 1 3/16 | 4       | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.3740 | 1/2             | 208         |             |               |  |
| NAP 209-26 | 1 5/8      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 209-26   |             |               |  |
| 209-27     | 1 11/16    |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 209-27      | P 209       | 6.1           |  |
| 209-28     | 1 3/4      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 209-28      |             |               |  |
| 209        |            | 45     | 2 1/8                 | 7 1/2    | 5 3/4   | 2 1/8   | 1 3/16         | 1 9/32 | 7/8    | 4 17/64 | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.5000 | 1/2             | 209         |             |               |  |
| NAP 210-30 | 1 7/8      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 210-30   |             |               |  |
| 210-31     | 1 15/16    |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 210-31      | P 210       | 7.2           |  |
| 210        |            | 50     | 2 1/4                 | 8        | 6 1/4   | 2 1/4   | 1 5/16         | 23/32  | 1 5/16 | 4 33/64 | 2.4685 | 0.9685 | 0.9685 | 0.5315 | 2.7520 | 5/8             | 210         |             |               |  |
| 210-32     | 2 S        |        | 57.2                  | 203      | 159     | 57      | 24             | 18     | 24     | 115     | 62.7   | 24.6   | 24.6   | 13.5   | 69.9   |                 | 210-32      |             |               |  |
| NAP 211-32 | 2          |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 211-32   |             |               |  |
| 211-34     | 2 1/8      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 211-34      | P 211       | 9.4           |  |
| 211        |            | 55     | 2 1/2                 | 8 5/8    | 6 7/8   | 2 3/8   | 1 5/16         | 23/32  | 1 1/16 | 5 1/32  | 2.8110 | 1.0905 | 1.0905 | 0.6300 | 3.0000 | 5/8             | 211         |             |               |  |
| 211-35     | 2 3/16     |        | 63.5                  | 220      | 174     | 60      | 24             | 18     | 27     | 128     | 71.4   | 27.7   | 27.7   | 16.0   | 76.2   |                 | 211-35      |             |               |  |
| NAP 212-36 | 2 1/4      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 212-36   |             |               |  |
| 212        |            | 60     | 2 3/4                 | 9 17/32  | 7 11/32 | 2 1/2   | 1              | 25/32  | 1 1/16 | 5 33/64 | 3.0630 | 1.2165 | 1.2165 | 0.6300 | 3.3150 | 5/8             | 212         | P 212       | 11.9          |  |
| 212-38     | 2 3/8      |        | 69.8                  | 242      | 187     | 64      | 25.4           | 20     | 27     | 140     | 77.8   | 30.9   | 30.9   | 16.0   | 84.2   |                 | 212-38      |             |               |  |
| 212-39     | 2 1/16     |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | 212-39      |             |               |  |
| NAP 213-40 | 2 1/2      |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 213-40   | P 213       | 14.0          |  |
| 213        |            | 65     | 3                     | 10 3/4   | 8 1/8   | 2 11/16 | 1 3/16         | 1 3/16 | 1 1/8  | 6 1/32  | 3.3740 | 1.3425 | 1.3425 | 0.6890 | 3.3858 | 7/8             | 213         |             |               |  |
| NAP 215-47 | 2 15/16    |        |                       |          |         |         |                |        |        |         |        |        |        |        |        |                 | NA 215-47   |             |               |  |
| 215        |            | 75     | 3 1/4                 | 10 13/16 | 8 1/2   | 2 15/16 | 1 1/4          | 1      | 1 1/8  | 6 33/64 | 3.6260 | 1.4685 | 1.4685 | 0.6890 | 4.0157 | 7/8             | 215         | P 215       | 18.3          |  |
| 215-48     | 3          |        | 82.6                  | 275      | 217     | 75      | 31             | 25.4   | 29     | 166     | 92.1   | 37.3   | 37.3   | 17.5   | 102.0  |                 | 215-48      |             |               |  |

Interchange Page 47 \*Also available 1 5/8" \*\*Also available 2 1/8"

# NAPA Tapped Base Pillow Blocks



## Standard duty with eccentric locking collar.

- Cast iron housing
- Wide inner race bearing

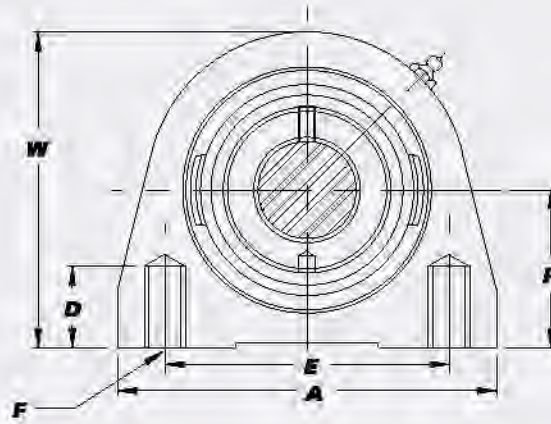
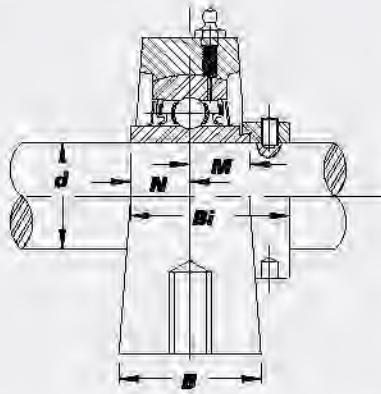
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



STANDARD PRODUCT

| Unit No.    | Shaft Dia. |        | Dimensions (in./mm) |       |       |       |         |                |                 |        |        | Bearing No. | Housing No. | Weight (lbs.) |     |
|-------------|------------|--------|---------------------|-------|-------|-------|---------|----------------|-----------------|--------|--------|-------------|-------------|---------------|-----|
|             | d (in.)    | d (mm) | H                   | A     | E     | B     | W       | F-Tapped Holes | D-Min Tap Depth | M      | N      |             |             |               | Bi  |
| NAPA 201-8  | 1/2        |        |                     |       |       |       |         |                |                 |        |        |             | NA 201-8    |               |     |
| 202-10      | 5/8        |        | 1 1/16              | 2 7/8 | 2     | 1 1/2 | 2 9/16  | 3/8"-16        | 1/2             | 0.6693 | 0.6693 | 1.7126      | 202-10      |               |     |
| 204-12      | 3/4        |        | 33.3                | 73    | 50.8  | 38    | 65      | UNC            | 13              | 17.0   | 17.0   | 43.5        | 204-12      | PA 204        | 1.6 |
| 204         |            | 20     |                     |       |       |       |         |                |                 |        |        |             | 204         |               |     |
| NAPA 205-14 | 7/8        |        |                     |       |       |       |         |                |                 |        |        |             | NA 205-14   |               |     |
| 205-15      | 1 1/16     |        | 1 7/16              | 3     | 2     | 1 1/2 | 2 13/16 | 3/8"-16        | 1/2             | 0.6850 | 0.6850 | 1.7441      | 205-15      |               |     |
| 205         |            | 25     | 36.5                | 76    | 50.8  | 38    | 71      | UNC            | 13              | 17.4   | 17.4   | 44.3        | 205         | PA 205        | 1.7 |
| 205-16      | 1          |        |                     |       |       |       |         |                |                 |        |        |             | 205-16      |               |     |
| NAPA 206-17 | 1 1/16     |        |                     |       |       |       |         |                |                 |        |        |             | NA 206-17   |               |     |
| 206-18      | 1 1/8      |        | 1 11/16             | 4     | 3     | 1 1/2 | 3 3/8   | 7/16"-14       | 5/8             | 0.7165 | 0.7165 | 1.9016      | 206-18      |               |     |
| 206         |            | 30     | 42.9                | 102   | 76.2  | 38    | 86      | UNC            | 16              | 18.2   | 18.2   | 48.3        | 206         | PA 206        | 2.8 |
| 206-19      | 1 3/16     |        |                     |       |       |       |         |                |                 |        |        |             | 206-19      |               |     |
| 206-20      | 1 1/4 S    |        |                     |       |       |       |         |                |                 |        |        |             | 206-20      |               |     |
| NAPA 207-20 | 1 1/4      |        |                     |       |       |       |         |                |                 |        |        |             | NA 207-20   |               |     |
| 207-21      | 1 5/16     |        | 1 7/8               | 4 1/4 | 3 1/4 | 1 7/8 | 3 3/4   | 1/2"-13        | 3/4             | 0.7402 | 0.7402 | 2.0118      | 207-21      |               |     |
| 207-22      | 1 3/8      |        | 47.6                | 108   | 82.6  | 48    | 95      | UNC            | 19              | 18.8   | 18.8   | 51.1        | 207-22      | PA 207        | 3.9 |
| 207         |            | 35     |                     |       |       |       |         |                |                 |        |        |             | 207         |               |     |
| 207-23      | 1 7/16     |        |                     |       |       |       |         |                |                 |        |        |             | 207-23      |               |     |
| NAPA 208-24 | 1 1/2      |        | 1 15/16             | 4 5/8 | 3 1/2 | 1 7/8 | 3 15/16 | 1/2"-13        | 3/4             | 0.8425 | 0.8425 | 2.2165      | NA 208-24   |               |     |
| 208-25      | 1 9/16     |        | 49.2                | 117   | 88.9  | 48    | 100     | UNC            | 19              | 21.4   | 21.4   | 56.3        | 208-25      | PA 208        | 4.4 |
| 208         |            | 40     |                     |       |       |       |         |                |                 |        |        |             | 208         |               |     |
| NAPA 209-26 | 1 5/8      |        |                     |       |       |       |         |                |                 |        |        |             | NA 209-26   |               |     |
| 209-27      | 1 11/16    |        | 2 1/8               | 5     | 3 3/4 | 2     | 4 1/4   | 1/2"-13        | 3/4             | 0.8425 | 0.8425 | 2.2165      | 209-27      |               |     |
| 209-28      | 1 3/4      |        | 54.0                | 127   | 95.3  | 51    | 108     | UNC            | 19              | 21.4   | 21.4   | 56.3        | 209-28      | PA 209        | 5.4 |
| 209         |            | 45     |                     |       |       |       |         |                |                 |        |        |             | 209         |               |     |
| NAPA 210-30 | 1 7/8      |        |                     |       |       |       |         |                |                 |        |        |             | NA 210-30   |               |     |
| 210-31      | 1 15/16    |        | 2 1/4               | 5 1/2 | 4     | 2     | 4 5/8   | 5/8"-11        | 7/8             | 0.9685 | 0.9685 | 2.4685      | 210-31      |               |     |
| 210         |            | 50     | 57.2                | 140   | 101.6 | 51    | 117     | UNC            | 22              | 24.6   | 24.6   | 62.7        | 210         | PA 210        | 6.3 |
| 210-32      | 2 S        |        |                     |       |       |       |         |                |                 |        |        |             | 210-32      |               |     |

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# UCPA Tapped Base Pillow Blocks



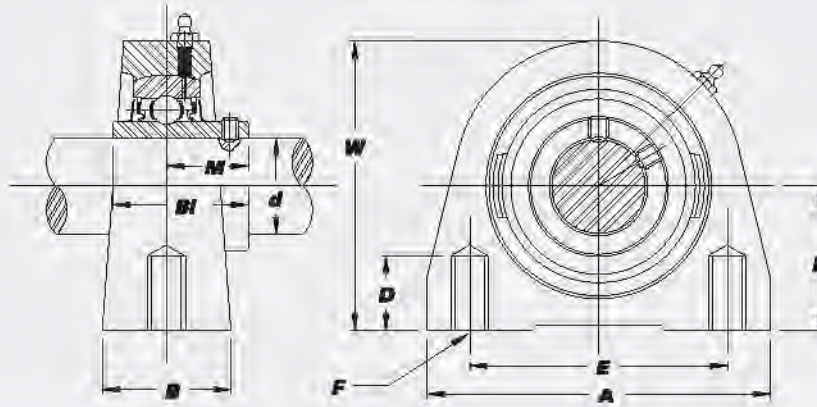
B-type Seal



L3-type Seal

## Standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing
- B-type seals
- L3-type seals available in some sizes



| Unit No.    | Shaft Dia. |         | Dimensions (in.) (mm) |          |          |          |          |                        |                         |          |           | Bearing No. | Housing No. | Weight (lbs.) |
|-------------|------------|---------|-----------------------|----------|----------|----------|----------|------------------------|-------------------------|----------|-----------|-------------|-------------|---------------|
|             | <i>d</i>   |         | <i>H</i>              | <i>A</i> | <i>E</i> | <i>B</i> | <i>W</i> | <i>F</i> -Tapped Holes | <i>D</i> -Min Tap Depth | <i>M</i> | <i>Bi</i> |             |             |               |
| UCPA 201-8  | 1/2        |         |                       |          |          |          |          |                        |                         |          |           | UC 201-8    |             |               |
| 202-10      | 5/8        |         |                       |          |          |          |          |                        |                         |          |           | 202-10      |             |               |
| 203         | 17         | 1 5/16  | 2 7/8                 | 2        | 1 1/2    | 2 9/16   | 3/8"-16  | 1/2                    | 0.7205                  | 1.2205   |           | 203         | PA 204      | 1.4           |
| 204-12      | 3/4        | 33.3    | 73                    | 50.8     | 38       | 65       | UNC      | 13                     | 18.3                    | 31.0     |           | 204-12      |             |               |
| 204         | 20         |         |                       |          |          |          |          |                        |                         |          |           | 204         |             |               |
| UCPA 205-14 | 7/8        |         |                       |          |          |          |          |                        |                         |          |           | UC 205-14   |             |               |
| 205-15      | 1 5/16     |         |                       |          |          |          |          |                        |                         |          |           | 205-15      |             |               |
| 205         | 25         | 1 7/16  | 3                     | 2        | 1 1/2    | 2 13/16  | 3/8"-16  | 1/2                    | 0.7756                  | 1.3386   |           | 205         | PA 205      | 1.6           |
| 205-16      | 1          | 36.5    | 76                    | 50.8     | 38       | 71       | UNC      | 13                     | 19.7                    | 34.0     |           | 205-16      |             |               |
| UCPA 206-17 | 1 1/16     |         |                       |          |          |          |          |                        |                         |          |           | UC 206-17   |             |               |
| 206-18      | 1 1/8      |         |                       |          |          |          |          |                        |                         |          |           | 206-18      |             |               |
| 206         | 30         | 1 11/16 | 4                     | 3        | 1 1/2    | 3 3/8    | 7/16"-14 | 5/8                    | 0.8740                  | 1.5000   |           | 206         | PA 206      | 2.6           |
| 206-19      | 1 3/16     | 42.9    | 102                   | 76.2     | 38       | 86       | UNC      | 16                     | 22.2                    | 38.1     |           | 206-19      |             |               |
| 206-20      | 1 1/4      |         |                       |          |          |          |          |                        |                         |          |           | 206-20      |             |               |
| UCPA 207-20 | 1 1/4      |         |                       |          |          |          |          |                        |                         |          |           | UC 207-20   |             |               |
| 207-21      | 1 5/16     |         |                       |          |          |          |          |                        |                         |          |           | 207-21      |             |               |
| 207-22      | 1 3/8      |         |                       |          |          |          |          |                        |                         |          |           | 207-22      |             |               |
| 207         | 35         | 1 7/8   | 4 1/4                 | 3 1/4    | 1 7/8    | 3 3/4    | 1/2"-13  | 3/4                    | 1.0000                  | 1.6890   |           | 207         | PA 207      | 3.6           |
| 207-23      | 1 7/16     | 47.6    | 108                   | 82.6     | 48       | 95       | UNC      | 19                     | 25.4                    | 42.9     |           | 207-23      |             |               |
| UCPA 208-24 | 1 1/2      |         |                       |          |          |          |          |                        |                         |          |           | UC 208-24   |             |               |
| 208-25      | 1 9/16     |         |                       |          |          |          |          |                        |                         |          |           | 208-25      |             |               |
| 208         | 40         | 1 15/16 | 4 5/8                 | 3 1/2    | 1 7/8    | 3 15/16  | 1/2"-13  | 3/4                    | 1.1890                  | 1.9370   |           | 208         | PA 208      | 4.0           |
| UCPA 209-26 | 1 5/8      |         |                       |          |          |          |          |                        |                         |          |           | UC 209-26   |             |               |
| 209-27      | 1 11/16    |         |                       |          |          |          |          |                        |                         |          |           | 209-27      |             |               |
| 209-28      | 1 3/4      |         |                       |          |          |          |          |                        |                         |          |           | 209-28      |             |               |
| 209         | 45         | 2 1/8   | 5                     | 3 3/4    | 2        | 4 1/4    | 1/2"-13  | 3/4                    | 1.1890                  | 1.9370   |           | 209         | PA 209      | 5.0           |
| UCPA 210-30 | 1 7/8      |         |                       |          |          |          |          |                        |                         |          |           | UC 210-30   |             |               |
| 210-31      | 1 15/16    |         |                       |          |          |          |          |                        |                         |          |           | 210-31      |             |               |
| 210         | 50         | 2 1/4   | 5 1/2                 | 4        | 2        | 4 5/8    | 5/8"-11  | 7/8                    | 1.2835                  | 2.0315   |           | 210         | PA 210      | 5.9           |
| 210-32      | 2S         | 57.2    | 140                   | 101.6    | 51       | 117      | UNC      | 22                     | 32.6                    | 51.6     |           | 210-32      |             |               |

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# UCF 4-Bolt Flange Units

Standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing

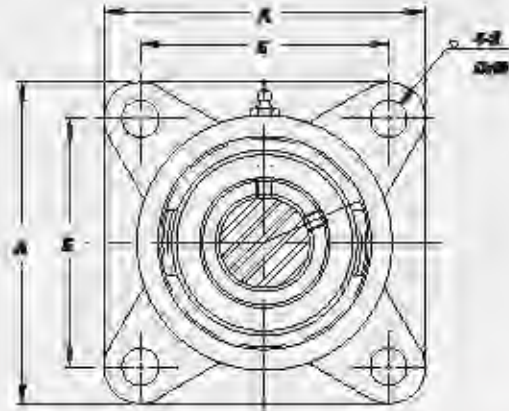
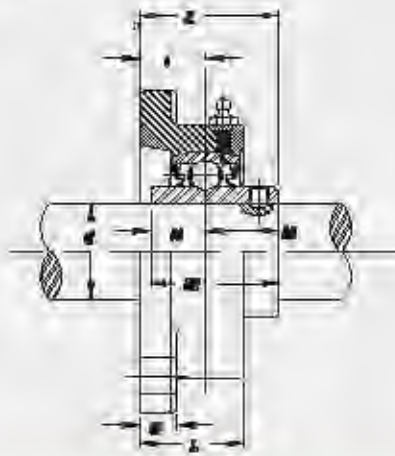
- B-type or L3 type seals
- Available with high temp. bearing - See page 46



B-type Seal



L3-type Seal



| Unit No.   | Shaft Dia. |        | Dimensions |         |         |        |         |        |         |        |        | Bolt Used | Bearing No. | Housing No. | Weight (lbs.) |         |  |  |
|------------|------------|--------|------------|---------|---------|--------|---------|--------|---------|--------|--------|-----------|-------------|-------------|---------------|---------|--|--|
|            | d (in.)    | d (mm) | A          | E       | I       | G      | L       | S      | Z       | Bi     | N      |           |             |             |               | M       |  |  |
| UCF 201    |            | 12     |            |         |         |        |         |        |         |        |        |           |             |             |               | UCW 201 |  |  |
| 201-8      | 1/2        |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 202        | 5/8        | 15     | 3          | 2 1/8   | 2 1/32  | 3/8    | 1 3/32  | 7/16   | 1 9/32  | 1.0236 | 0.3937 | 0.6299    | 3/8         |             |               |         |  |  |
| 202-10     |            |        | 76         | 54      | 16.7    | 10     | 28      | 11     | 32.7    | 26.0   | 10.0   | 16.0      |             |             |               |         |  |  |
| 203        |            | 17     |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| UCF 204-12 | 3/4        |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 204        |            | 20     | 3 3/8      | 2 1/2   | 1 9/32  | 7/16   | 1       | 7/16   | 1 1/16  | 1.2205 | 0.5000 | 0.7205    | 3/8         |             |               |         |  |  |
| UCF 205-14 | 7/8        |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 205-15     | 1 5/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 205        |            | 25     | 3 3/4      | 2 3/4   | 5/8     | 1/2    | 1 1/16  | 2 9/64 | 1 13/32 | 1.3386 | 0.5630 | 0.7756    | 3/8         |             |               |         |  |  |
| 205-16     |            |        | 95         | 70      | 16      | 13     | 27      | 11.5   | 35.7    | 34.0   | 14.3   | 19.7      |             |             |               |         |  |  |
| UCF 206-17 | 1 1/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 206-18     | 1 1/8      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 206        |            | 30     | 4 1/4      | 3 1/4   | 4 5/64  | 1/2    | 1 1/32  | 3 9/64 | 1 19/32 | 1.5000 | 0.6260 | 0.8740    | 7/16        |             |               |         |  |  |
| 206-19     | 1 3/16     |        | 108        | 83      | 18      | 13     | 31      | 13     | 40.2    | 38.1   | 15.9   | 22.2      |             |             |               |         |  |  |
| 206-20     | 1 1/4      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| UCF 207-20 | 1 1/4      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 207-21     | 1 5/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 207-22     | 1 3/8      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 207        |            | 35     | 4 19/32    | 3 5/8   | 3/4     | 1 9/32 | 1 11/32 | 3 9/64 | 1 3/4   | 1.6890 | 0.6890 | 1.0000    | 7/16        |             |               |         |  |  |
| 207-23     | 1 7/16     |        | 117        | 92      | 19      | 15     | 34      | 13     | 44.4    | 42.9   | 17.5   | 25.4      |             |             |               |         |  |  |
| UCF 208-24 | 1 1/2      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 208-25     | 1 9/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 208        |            | 40     | 5 1/8      | 4       | 5 3/64  | 1 9/32 | 1 13/32 | 3 5/64 | 2 1/32  | 1.9370 | 0.7480 | 1.1890    | 1/2         |             |               |         |  |  |
| UCF 209-26 | 1 5/8      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 209-27     | 1 11/16    |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 209-28     | 1 3/4      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 209        |            | 45     | 5 13/32    | 4 1/8   | 5 5/64  | 5/8    | 1 1/2   | 5/8    | 2 1/16  | 1.9370 | 0.7480 | 1.1890    | 9/16        |             |               |         |  |  |
| UCF 210-30 | 1 7/8      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 210-31     | 1 15/16    |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 210        |            | 50     | 5 5/8      | 4 3/8   | 5 5/64  | 5/8    | 1 9/16  | 5/8    | 2 5/32  | 2.0315 | 0.7480 | 1.2835    | 9/16        |             |               |         |  |  |
| 210-32     | 2S         |        | 143        | 111     | 22      | 16     | 40      | 16     | 54.6    | 51.6   | 19.0   | 32.6      |             |             |               |         |  |  |
| UCF 211-32 | 2          |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 211-34     | 2 1/8      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 211        |            | 55     | 6 1/2      | 5 1/8   | 6 3/64  | 2 3/32 | 1 11/16 | 4 9/64 | 2 5/16  | 2.1890 | 0.8740 | 1.3150    | 5/8         |             |               |         |  |  |
| 211-35     | 2 1/16     |        | 165        | 130     | 25      | 18     | 43      | 17     | 58.4    | 55.6   | 22.2   | 33.4      |             |             |               |         |  |  |
| UCF 212-36 | 2 1/4      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 212        |            | 60     | 6 7/8      | 5 5/8   | 1 9/64  | 2 3/32 | 1 7/8   | 4 3/64 | 2 23/32 | 2.5630 | 1.0000 | 1.5630    | 5/8         |             |               |         |  |  |
| 212-38     | 2 9/8      |        | 175        | 143     | 29      | 18     | 48      | 17     | 68.7    | 65.1   | 25.4   | 39.7      |             |             |               |         |  |  |
| 212-39     | 2 1/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| UCF 213-40 | 2 1/2      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 213        |            | 65     | 7 3/8      | 5 7/8   | 1 3/16  | 7/8    | 1 31/32 | 4 9/64 | 2 3/4   | 2.5630 | 1.0000 | 1.5630    | 5/8         |             |               |         |  |  |
| UCF 214-43 | 2 11/16    |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 214-44     | 2 3/4      |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 214        |            | 70     | 7 19/32    | 5 63/64 | 1 1/32  | 2 9/32 | 2 1/8   | 3/4    | 2 31/32 | 2.9370 | 1.1890 | 1.7480    | 1 1/16      |             |               |         |  |  |
| UCF 215-47 | 2 5/16     |        |            |         |         |        |         |        |         |        |        |           |             |             |               |         |  |  |
| 215        |            | 75     | 7 7/8      | *6 1/4  | 1 11/32 | 7/8    | 2 1/32  | 3/4    | 3 9/32  | 3.0630 | 1.3110 | 1.7520    | 1 1/16      |             |               |         |  |  |
| 215-48     | 3          |        | 200        | 159     | 34      | 22     | 56      | 19     | 78.5    | 77.8   | 33.3   | 44.5      |             |             |               |         |  |  |

\*Also available as 6", where Z = 3 3/8" — specify UCNF. Interchange Page 47



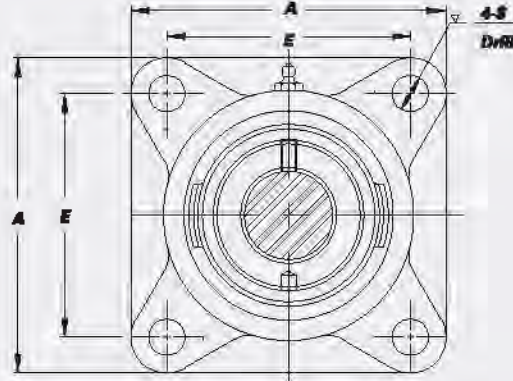
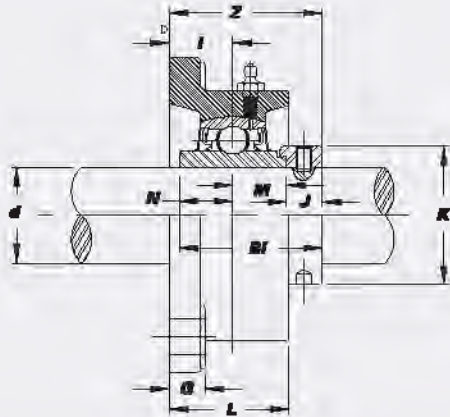


# NANF 4-Bolt Flange Units



## Standard duty with eccentric locking collar.

- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals



| Unit No.    | Shaft Dia. |         | Dimensions (in.) (mm) |       |         |        |         |       |         |        |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |        |     |
|-------------|------------|---------|-----------------------|-------|---------|--------|---------|-------|---------|--------|--------|--------|--------|-----------------|-------------|-------------|---------------|--------|-----|
|             | d (in.)    | d (mm)  | A                     | E     | I       | G      | L       | S     | Z       | Bi     | N      | M      | J      |                 |             |             |               | K      |     |
| NANF 201    |            | 12      |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NAW201        |        |     |
| 201-8       | 1/2        |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 202         | 15         | 3       | 76                    | 2 1/8 | 2 1/32  | 3/8    | 1 3/32  | 7/16  | 1 37/64 | 1.4685 | 0.5472 | 0.5472 | 0.3740 | 1.1260          | 3/8         |             | F 203         | 1.3    |     |
| 202-10      | 5/8        |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 203         | 17         |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 204-12 | 3/4        |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 204-12     | NF 204 | 1.8 |
| 204         | 20         | 3 3/8   | 86                    | 2 1/2 | 3/4     | 19/32  | 1 5/32  | 7/16  | 1 25/32 | 1.7126 | 0.6693 | 0.6693 | 0.3740 | 1.3110          | 3/8         | 204         |               |        |     |
| NANF 205-14 | 7/8        |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 205-14     |        |     |
| 205-15      | 1 5/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 205         | 25         | 3 3/4   | 95                    | 2 3/4 | 25/32   | 19/32  | 1 7/32  | 29/64 | 1 27/32 | 1.7441 | 0.6850 | 0.6850 | 0.3740 | 1.5000          | 3/8         |             | NF 205        | 2.1    |     |
| 205-16      | 1          |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | 205-16        |        |     |
| NANF 206-17 | 1 1/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 206-17     |        |     |
| 206-18      | 1 1/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 206         | 30         | 4 1/4   | 108                   | 3 1/4 | 53/64   | 5/8    | 1 31/32 | 33/64 | 2       | 1.9016 | 0.7165 | 0.7165 | 0.4685 | 1.7520          | 7/16        |             | NF 206        | 2.9    |     |
| 206-19      | 1 3/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 206-20      | 1 1/4S     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 207-20 | 1 1/4      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 207-20     |        |     |
| 207-21      | 1 5/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 207-22      | 1 3/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 207         | 35         | 4 19/32 | 117                   | 3 5/8 | 27/32   | 2 1/32 | 1 7/16  | 33/64 | 2 1/8   | 2.0118 | 0.7402 | 0.7402 | 0.5315 | 2.1890          | 7/16        |             | NF 207        | 3.9    |     |
| 207-23      | 1 7/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 208-24 | 1 1/2      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 208-24     |        |     |
| 208-25      | 1 9/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 208         | 40         | 5 1/8   | 130                   | 4     | 15/16   | 2 1/32 | 1 17/32 | 35/64 | 2 5/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.3740          | 1/2         |             | NF 208        | 4.9    |     |
| NANF 209-26 | 1 5/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 209-26     |        |     |
| 209-27      | 1 11/16    |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 209-28      | 1 3/4      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 209         | 45         | 5 13/32 | 137                   | 4 1/8 | 15/16   | 23/32  | 1 9/16  | 5/8   | 2 5/16  | 2.2165 | 0.8425 | 0.8425 | 0.5315 | 2.5000          | 9/16        |             | NF 209        | 5.7    |     |
| NANF 210-30 | 1 7/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 210-30     |        |     |
| 210-31      | 1 15/16    |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 210         | 50         | 5 5/8   | 143                   | 4 3/8 | 1 1/8   | 25/32  | 1 27/32 | 5/8   | 2 5/8   | 2.4685 | 0.9685 | 0.9685 | 0.5315 | 2.7520          | 9/16        |             | NF 210        | 6.5    |     |
| 210-32      | 2S         |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 211-32 | 2          |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 211-32     |        |     |
| 211-34      | 2 1/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 211         | 55         | 6 3/8   | 162                   | 5 1/8 | 1 17/64 | 13/16  | 1 31/32 | 43/64 | 2 31/32 | 2.8110 | 1.0906 | 1.0906 | 0.6299 | 3.0000          | 5/8         |             | NF 211        | 9.0    |     |
| 211-35      | 2 3/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 212-36 | 2 1/4      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 212-36     |        |     |
| 212         | 60         | 6 7/8   | 175                   | 5 5/8 | 1 27/64 | 13/16  | 2 5/32  | 43/64 | 3 1/4   | 3.0630 | 1.2165 | 1.2165 | 0.6299 | 3.3150          | 5/8         |             | NF 212        | 10.8   |     |
| 212-38      | 2 3/8      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| 212-39      | 2 1/16     |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             |               |        |     |
| NANF 213-40 | 2 1/2      |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 213-40     |        |     |
| 213         | 65         | 7 3/8   | 187                   | 5 7/8 | 1 1/2   | 7/8    | 2 5/16  | 25/32 | 3 17/32 | 3.3740 | 1.3425 | 1.3425 | 0.6890 | 3.3858          | 3/4         |             | NF 213        | 13.2   |     |
| NANF 215-47 | 2 15/16    |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | NA 215-47     |        |     |
| 215         | 75         | 7 3/4   | 197                   | 6     | 1 5/8   | 7/8    | 2 27/64 | 25/32 | 3 25/32 | 3.6260 | 1.4685 | 1.4685 | 0.6890 | 4.0157          | 3/4         |             | NF 215        | 16.0   |     |
| 215-48      | 3          |         |                       |       |         |        |         |       |         |        |        |        |        |                 |             |             | 215-48        |        |     |

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# UCFX 4-Bolt Flange Units



## Medium duty with set screw lock.

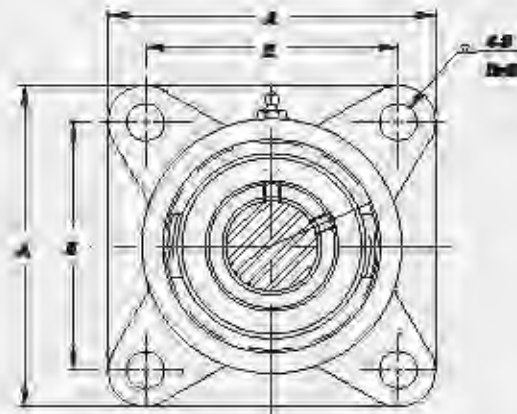
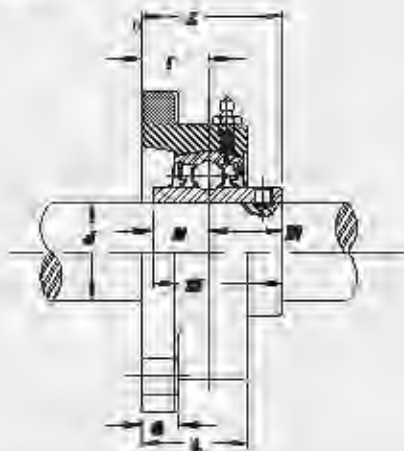
- Wide inner race bearing with greater load carrying capacity than standard duty
- Cast iron housing
- B-type seals
- L3-type seals available in some sizes



B-type Seal



L3-type Seal



STANDARD PRODUCTION

| Unit No.   | Shaft Dia. |        | Dimensions (in.) (mm) |       |         |        |         |        |         |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |     |
|------------|------------|--------|-----------------------|-------|---------|--------|---------|--------|---------|--------|--------|--------|-----------------|-------------|-------------|---------------|-----|
|            | d (in.)    | d (mm) | A                     | E     | I       | G      | L       | S      | Z       | Bi     | N      | M      |                 |             |             |               |     |
| UCF X05-14 | 7/8        |        |                       |       |         |        |         |        |         |        |        |        |                 |             | UC X05-14   |               |     |
| X05-15     | 19/16      |        |                       |       |         |        |         |        |         |        |        |        |                 |             | X05-15      | F 206         | 2.6 |
| X05        | 25         | 108    | 4 1/4                 | 3 3/4 | 45/64   | 1/2    | 1 1/32  | 33/64  | 1 19/32 | 1.5000 | 0.6260 | 0.8740 | 7/16            | X05-16      |             |               |     |
| X05-16     | 1          |        |                       |       |         |        |         |        |         |        |        |        |                 |             |             |               |     |
| UCF X06-18 | 1 1/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X06-18   |             |               |     |
| X06        | 30         | 117    | 4 19/32               | 3 5/8 | 3/4     | 19/32  | 1 11/32 | 33/64  | 1 3/4   | 1.6890 | 0.6890 | 1.0000 | 7/16            | X06         | F 207       | 3.5           |     |
| X06-19     | 1 3/16     |        |                       |       |         |        |         |        |         |        |        |        |                 | X06-19      |             |               |     |
| X06-20     | 1 1/4      |        |                       |       |         |        |         |        |         |        |        |        |                 | 207-20      |             |               |     |
| UCF X07-22 | 1 3/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X07-22   |             |               |     |
| X07        | 35         | 130    | 5 1/8                 | 4     | 53/64   | 19/32  | 1 13/32 | 35/64  | 2 1/32  | 1.9370 | 0.7480 | 1.1890 | 1/2             | X07         | F 208       | 4.4           |     |
| X07-23     | 1 7/16     |        |                       |       |         |        |         |        |         |        |        |        |                 | X07-23      |             |               |     |
| UCF X08-24 | 1 1/2      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X08-24   |             |               |     |
| X08        | 40         | 137    | 5 13/32               | 4 1/8 | 55/64   | 5/8    | 1 1/2   | 5/8    | 2 1/16  | 1.9370 | 0.7480 | 1.1890 | 9/16            | X08         | F 209       | 5.3           |     |
| UCF X09-26 | 1 5/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X09-26   |             |               |     |
| X09-27     | 1 11/16    |        |                       |       |         |        |         |        |         |        |        |        |                 | X09-27      | F 210       | 6.2           |     |
| X09-28     | 1 3/4      |        |                       |       |         |        |         |        |         |        |        |        |                 | X09-28      |             |               |     |
| X09        | 45         | 143    | 5 5/8                 | 4 3/8 | 55/64   | 5/8    | 1 9/16  | 5/8    | 2 5/32  | 2.0315 | 0.7480 | 1.2835 | 9/16            | X09         |             |               |     |
| UCF X10-30 | 1 7/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X10-30   |             |               |     |
| X10-31     | 1 15/16    |        |                       |       |         |        |         |        |         |        |        |        |                 | X10-31      | F 211       | 8.4           |     |
| X10        | 50         | 165    | 6 1/2                 | 5 1/8 | 63/64   | 23/32  | 1 11/16 | 43/64  | 2 5/16  | 2.1890 | 0.8740 | 1.3150 | 5/8             | X10         |             |               |     |
| X10-32     | 2          |        |                       |       |         |        |         |        |         |        |        |        |                 | 211-32      |             |               |     |
| UCF X11-34 | 2 1/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X11-34   |             |               |     |
| X11        | 55         | 175    | 6 7/8                 | 5 5/8 | 19/64   | 23/32  | 1 7/8   | 43/64  | 2 23/32 | 2.5630 | 1.0000 | 1.5630 | 5/8             | X11         | F 212       | 10.8          |     |
| X11-35     | 2 3/16     |        |                       |       |         |        |         |        |         |        |        |        |                 | X11-35      |             |               |     |
| X11-36     | 2 1/4      |        |                       |       |         |        |         |        |         |        |        |        |                 | 212-36      |             |               |     |
| UCF X12    |            |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X12      |             |               |     |
| X12-38     | 2 3/8      |        |                       |       |         |        |         |        |         |        |        |        |                 | X12-38      | F 213       | 12.6          |     |
| X12-39     | 2 1/16     |        |                       |       |         |        |         |        |         |        |        |        |                 | X12-39      |             |               |     |
| UCF X13-40 | 2 1/2      |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X13-40   |             |               |     |
| X13        | 65         | 187    | 7 3/8                 | 5 7/8 | 1 11/32 | 13/16  | 2 5/16  | 2 1/32 | 3 3/32  | 2.9370 | 1.1890 | 1.7480 | 9/16            | X13         | FX13        | 14.1          |     |
| UCF X14-43 | 2 11/16    |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X14-43   |             |               |     |
| X14-44     | 2 3/4      |        |                       |       |         |        |         |        |         |        |        |        |                 | X14-44      | NF215       | 15.6          |     |
| X14        | 70         | 197    | 7 3/4                 | 6     | 1 5/8   | 7/8    | 2 27/64 | 2 5/32 | 3 13/32 | 3.0630 | 1.3110 | 1.7520 | 1 1/16          | X14         |             |               |     |
| UCF X15-47 | 2 15/16    |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X15-47   |             |               |     |
| X15        | 75         | 197    | 7 3/4                 | 6     | 1 37/64 | 1 5/16 | 2 11/16 | 2 5/32 | 3 17/32 | 3.2520 | 1.3110 | 1.9410 | 1 1/16          | X15         | FX15        | 18.5          |     |
| X15-48     | 3          |        |                       |       |         |        |         |        |         |        |        |        |                 | X15-48      |             |               |     |
| UCF X17    |            |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X17      |             |               |     |
| X17-55     | 3 7/16     |        |                       |       |         |        |         |        |         |        |        |        |                 | X17-55      | FX17        | 24.0          |     |
| X17-56     | 3 1/2      |        |                       |       |         |        |         |        |         |        |        |        |                 | X17-56      |             |               |     |
| UCF X20    |            |        |                       |       |         |        |         |        |         |        |        |        |                 | UC X20      |             |               |     |
| X20-63     | 3 15/16    |        |                       |       |         |        |         |        |         |        |        |        |                 | X20-63      | FX20        | 42.5          |     |
| X20-64     | 4          |        |                       |       |         |        |         |        |         |        |        |        |                 | X20-64      |             |               |     |

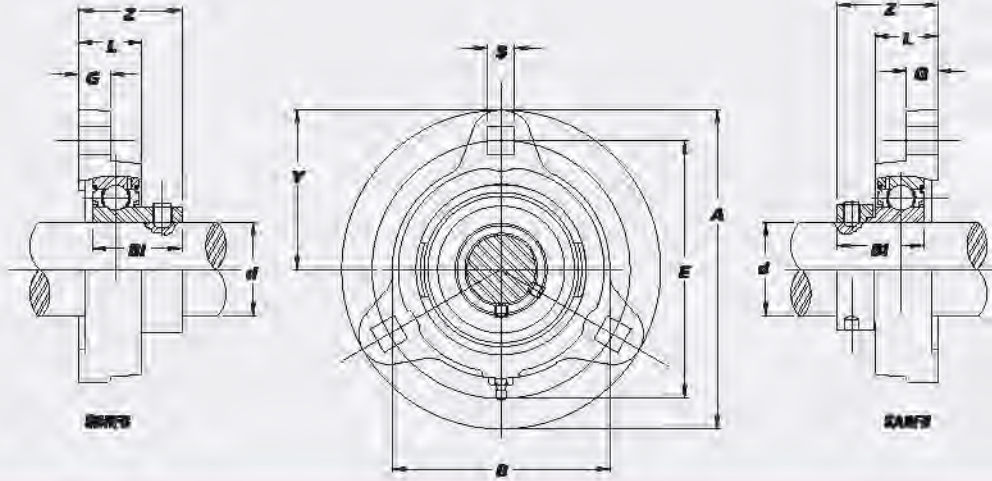
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# SBRFB & SARFB 3-Bolt Flange Units



K-type Seal

- Ductile iron housing
- K-type seals
- Narrow inner race bearing



## SBRFB Set screw type

| Unit No.               | Shaft Dia.     |        | Dimensions (in.) (mm) |        |       |      |       |       |       |        |        | Bolt Used | Bearing No.           | Housing No. | Weight (lbs.) |
|------------------------|----------------|--------|-----------------------|--------|-------|------|-------|-------|-------|--------|--------|-----------|-----------------------|-------------|---------------|
|                        | d (in.)        | d (mm) | A                     | E      | G     | B    | L     | S     | Z     | Bi     | Y      |           |                       |             |               |
| SBRFB 204-12<br>204    | 3/4            | 20     | 39/16                 | 213/16 | 7/16  | 25/8 | 25/32 | 11/32 | 15/32 | 0.9843 | 125/32 | 5/16      | SB 204-12G<br>204G    | RFB 204     | .8            |
| SBRFB 205-14<br>205    | 7/8            | 25     | 33/4                  | 3      | 7/16  | 27/8 | 25/32 | 11/32 | 17/32 | 1.0630 | 17/8   | 5/16      | SB 205-14G<br>205G    | RFB 205     | .9            |
| SBRFB 205-15<br>205-16 | 15/16          | 1      | 95                    | 76.2   | 11    | 73   | 20    | 9     | 31.0  | 27.0   | 48     | 5/16      | SB 205-15G<br>205-16G | RFB 205     | .9            |
| SBRFB 206-17<br>206-18 | 11/16          | 30     | 47/16                 | 39/16  | 15/32 | 3    | 57/64 | 13/32 | 15/16 | 1.1811 | 27/32  | 3/8       | SB 206-17G            | RFB 206     | 1.2           |
| 206-18                 | 11/8           |        |                       |        |       |      |       |       |       |        |        |           | 206-18G               |             |               |
| 206-19<br>206-20       | 13/16<br>11/4S |        |                       |        |       |      |       |       |       |        |        |           | 206-19G<br>206-20G    |             |               |
| SBRFB 207-20<br>207-21 | 11/4           | 35     | 413/16                | 315/16 | 1/2   | 31/2 | 15/16 | 13/32 | 17/16 | 1.2992 | 213/32 | 3/8       | SB 207-20G            | RFB 207     | 1.7           |
| 207-21                 | 15/16          |        |                       |        |       |      |       |       |       |        |        |           | 207-21G               |             |               |
| 207-22                 | 13/8           |        |                       |        |       |      |       |       |       |        |        |           | 207-22G               |             |               |
| 207-23                 | 17/16          |        |                       |        |       |      |       |       |       |        |        |           | 207G<br>207-23G       |             |               |

## SARFB Eccentric locking collar type

| Unit No.               | Shaft Dia.     |        | Dimensions (in.) (mm) |        |       |      |       |       |        |        |        | Bolt Used | Bearing No.           | Housing No. | Weight (lbs.) |
|------------------------|----------------|--------|-----------------------|--------|-------|------|-------|-------|--------|--------|--------|-----------|-----------------------|-------------|---------------|
|                        | d (in.)        | d (mm) | A                     | E      | G     | B    | L     | S     | Z      | Bi     | Y      |           |                       |             |               |
| SARFB 204-12<br>204    | 3/4            | 20     | 39/16                 | 213/16 | 7/16  | 25/8 | 25/32 | 11/32 | 15/16  | 1.2205 | 125/32 | 5/16      | SA 204-12G<br>204G    | RFB 204     | .9            |
| SARFB 205-14<br>205    | 7/8            | 25     | 33/4                  | 3      | 7/16  | 27/8 | 25/32 | 11/32 | 13/8   | 1.2205 | 17/8   | 5/16      | SA 205-14G<br>205G    | RFB 205     | 1.0           |
| SARFB 205-15<br>205-16 | 15/16          | 1      | 95                    | 76.2   | 11    | 73   | 20    | 9     | 34.9   | 31.0   | 48     | 5/16      | SA 205-15G<br>205-16G | RFB 205     | 1.0           |
| SARFB 206-17<br>206-18 | 11/16          | 30     | 47/16                 | 39/16  | 15/32 | 3    | 57/64 | 13/32 | 117/32 | 1.4055 | 27/32  | 3/8       | SA 206-17G            | RFB 206     | 1.3           |
| 206-18                 | 11/8           |        |                       |        |       |      |       |       |        |        |        |           | 206-18G               |             |               |
| 206-19<br>206-20       | 13/16<br>11/4S |        |                       |        |       |      |       |       |        |        |        |           | 206-19G<br>206-20G    |             |               |
| SARFB 207-20<br>207-21 | 11/4           | 35     | 413/16                | 315/16 | 1/2   | 31/2 | 15/16 | 13/32 | 121/32 | 1.5315 | 213/32 | 3/8       | SA 207-20G            | RFB 207     | 2.0           |
| 207-21                 | 15/16          |        |                       |        |       |      |       |       |        |        |        |           | 207-21G               |             |               |
| 207-22                 | 13/8           |        |                       |        |       |      |       |       |        |        |        |           | 207-22G               |             |               |
| 207-23                 | 17/16          |        |                       |        |       |      |       |       |        |        |        |           | 207G<br>207-23G       |             |               |

Interchange Page 47

# UCFL 2-Bolt Flange Units



## Standard duty with set screw lock.

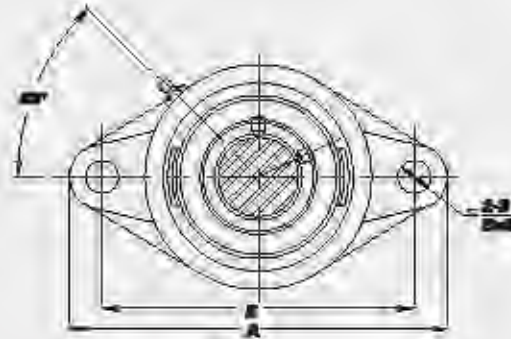
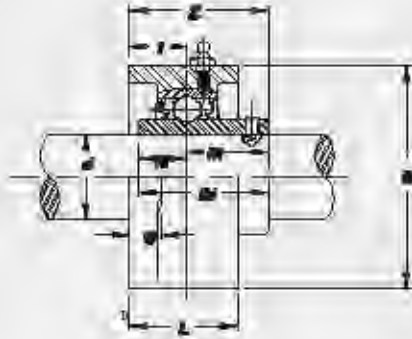
- Cast iron housing
- Wide inner race bearing
- B-type or L3-type seals
- Available with high temp. bearing - See page 46



B-type Seal



L3-type Seal



| Unit No.    | Shaft Dia.                      |        | Dimensions (in.) (mm)           |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |  |  |
|-------------|---------------------------------|--------|---------------------------------|---------------------------------|--------------------------------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|--------|--------|--------|-----------------|-------------|-------------|---------------|--|--|
|             | d (in.)                         | d (mm) | A                               | E                               | I                              | G                              | L                               | S                              | B                               | Z                               | Bi     | N      | M      |                 |             |             |               |  |  |
| UCFL 201    |                                 | 12     |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UCW 201       |  |  |
| 201-8       | 1/2                             |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 201-8         |  |  |
| 202         |                                 | 15     | 4 <sup>13</sup> / <sub>32</sub> | 3                               | 4 <sup>9</sup> / <sub>64</sub> | 7 <sup>7</sup> / <sub>16</sub> | 3 <sup>1</sup> / <sub>32</sub>  | 2 <sup>5</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>8</sub>   | 1 <sup>5</sup> / <sub>16</sub>  | 1.0236 | 0.3937 | 0.6299 | 5/16            | 202         | FT 203      | 0.9           |  |  |
| 202-10      | 5/8                             |        | 112                             | 76.2                            | 17                             | 11                             | 25                              | 10                             | 60                              | 33.3                            | 26.0   | 10.0   | 16.0   |                 | 202-10      |             |               |  |  |
| 203         |                                 | 17     |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 | 203         |             |               |  |  |
| UCFL 204-12 | 3/4                             |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 204-12     |  |  |
| 204         |                                 | 20     | 4 <sup>7</sup> / <sub>16</sub>  | 3 <sup>17</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>32</sub> | 7 <sup>7</sup> / <sub>16</sub> | 1                               | 2 <sup>5</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>8</sub>   | 1 <sup>5</sup> / <sub>16</sub>  | 1.2205 | 0.5000 | 0.7205 | 5/16            | 204         | FL 204      | 1.0           |  |  |
| UCFL 205-14 | 7/8                             |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 205-14     |  |  |
| 205-15      | 1 <sup>5</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 205-15        |  |  |
| 205         |                                 | 25     | 5 <sup>1</sup> / <sub>8</sub>   | 3 <sup>57</sup> / <sub>64</sub> | 5 <sup>5</sup> / <sub>8</sub>  | 1 <sup>1</sup> / <sub>2</sub>  | 1 <sup>1</sup> / <sub>16</sub>  | 1 <sup>5</sup> / <sub>32</sub> | 2 <sup>11</sup> / <sub>16</sub> | 1 <sup>15</sup> / <sub>32</sub> | 1.3386 | 0.5630 | 0.7756 | 3/8             | 205         | FL 205      | 1.5           |  |  |
| 205-16      | 1                               |        | 130                             | 98.8                            | 16                             | 13                             | 27                              | 11.9                           | 68                              | 37.3                            | 34.0   | 14.3   | 19.7   |                 | 205-16      |             |               |  |  |
| UCFL 206-17 | 1 <sup>1</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 206-17     |  |  |
| 206-18      | 1 <sup>1</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 206-18        |  |  |
| 206         |                                 | 30     | 5 <sup>13</sup> / <sub>16</sub> | 4 <sup>19</sup> / <sub>32</sub> | 4 <sup>5</sup> / <sub>64</sub> | 1 <sup>1</sup> / <sub>2</sub>  | 1 <sup>7</sup> / <sub>32</sub>  | 1 <sup>5</sup> / <sub>32</sub> | 3 <sup>5</sup> / <sub>32</sub>  | 1 <sup>19</sup> / <sub>32</sub> | 1.5000 | 0.6260 | 0.8740 | 3/8             | 206         | FL 206      | 2.2           |  |  |
| 206-19      | 1 <sup>3</sup> / <sub>16</sub>  |        | 148                             | 116.7                           | 18                             | 13                             | 31                              | 11.9                           | 80                              | 40.5                            | 38.1   | 15.9   | 22.2   |                 | 206-19      |             |               |  |  |
| 206-20      | 1 <sup>1</sup> / <sub>4</sub> S |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 | 206-20      |             |               |  |  |
| UCFL 207-20 | 1 <sup>1</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 207-20     |  |  |
| 207-21      | 1 <sup>5</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 207-21        |  |  |
| 207-22      | 1 <sup>3</sup> / <sub>8</sub>   |        | 6 <sup>11</sup> / <sub>32</sub> | 5 <sup>1</sup> / <sub>8</sub>   | 3 <sup>3</sup> / <sub>4</sub>  | 9 <sup>9</sup> / <sub>16</sub> | 1 <sup>11</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>64</sub> | 3 <sup>17</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>4</sub>   | 1.6890 | 0.6890 | 1.0000 | 7/16            | 207-22      | FL 207      | 2.9           |  |  |
| 207         |                                 | 35     | 161                             | 130.2                           | 19                             | 14                             | 34                              | 13                             | 90                              | 44.5                            | 42.9   | 17.5   | 25.4   |                 | 207         |             |               |  |  |
| 207-23      | 1 <sup>7</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 207-23        |  |  |
| UCFL 208-24 | 1 <sup>1</sup> / <sub>2</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 208-24     |  |  |
| 208-25      | 1 <sup>9</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 208-25        |  |  |
| 208         |                                 | 40     | 6 <sup>7</sup> / <sub>8</sub>   | 5 <sup>21</sup> / <sub>32</sub> | 5 <sup>3</sup> / <sub>64</sub> | 9 <sup>9</sup> / <sub>16</sub> | 1 <sup>13</sup> / <sub>32</sub> | 3 <sup>3</sup> / <sub>64</sub> | 3 <sup>15</sup> / <sub>16</sub> | 2                               | 1.9370 | 0.7480 | 1.1890 | 7/16            | 208         | FL 208      | 3.5           |  |  |
| UCFL 209-26 | 1 <sup>5</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 209-26     |  |  |
| 209-27      | 1 <sup>11</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 209-27        |  |  |
| 209-28      | 1 <sup>3</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 209-28        |  |  |
| 209         |                                 | 45     | 7 <sup>13</sup> / <sub>32</sub> | 5 <sup>27</sup> / <sub>32</sub> | 5 <sup>5</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>32</sub> | 1 <sup>1</sup> / <sub>2</sub>   | 1 <sup>9</sup> / <sub>32</sub> | 4 <sup>1</sup> / <sub>4</sub>   | 2 <sup>1</sup> / <sub>16</sub>  | 1.9370 | 0.7480 | 1.1890 | 1/2             | 209         | FL 209      | 4.4           |  |  |
| UCFL 210-30 | 1 <sup>7</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 210-30     |  |  |
| 210-31      | 1 <sup>15</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 210-31        |  |  |
| 210         |                                 | 50     | 7 <sup>3</sup> / <sub>4</sub>   | 6 <sup>3</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>32</sub> | 1 <sup>9</sup> / <sub>16</sub>  | 5 <sup>5</sup> / <sub>8</sub>  | 4 <sup>17</sup> / <sub>32</sub> | 2 <sup>9</sup> / <sub>32</sub>  | 2.0315 | 0.7480 | 1.2835 | 1/2             | 210         | FL 210      | 5.1           |  |  |
| 210-32      | 2S                              |        | 197                             | 157                             | 22                             | 15                             | 40                              | 16                             | 115                             | 54.8                            | 51.6   | 19.0   | 32.6   |                 | 210-32      |             |               |  |  |
| UCFL 211-32 | 2                               |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 211-32     |  |  |
| 211-34      | 2 <sup>1</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | 211-34        |  |  |
| 211         |                                 | 55     | 8 <sup>13</sup> / <sub>16</sub> | 7 <sup>1</sup> / <sub>4</sub>   | 6 <sup>3</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>11</sup> / <sub>16</sub> | 4 <sup>1</sup> / <sub>64</sub> | 5 <sup>1</sup> / <sub>8</sub>   | 2 <sup>5</sup> / <sub>16</sub>  | 2.1890 | 0.8740 | 1.3150 | 9/16            | 211         | FL 211      | 7.3           |  |  |
| 211-35      | 2 <sup>1</sup> / <sub>16</sub>  |        | 224                             | 184                             | 25                             | 18                             | 43                              | 16.3                           | 130                             | 58.7                            | 55.6   | 22.2   | 33.4   |                 | 211-35      |             |               |  |  |
| UCFL 212-36 | 2 <sup>1</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 |             |             | UC 212-36     |  |  |
| 212         |                                 | 60     | 9 <sup>27</sup> / <sub>32</sub> | 7 <sup>15</sup> / <sub>16</sub> | 1 <sup>9</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>32</sub> | 1 <sup>7</sup> / <sub>8</sub>   | 4 <sup>1</sup> / <sub>64</sub> | 5 <sup>1</sup> / <sub>2</sub>   | 2 <sup>23</sup> / <sub>32</sub> | 2.5630 | 1.0000 | 1.5630 | 9/16            | 212         | FL 212      | 9.5           |  |  |
| 212-38      | 2 <sup>3</sup> / <sub>8</sub>   |        | 250                             | 201.6                           | 29                             | 18                             | 48                              | 16.3                           | 140                             | 69.1                            | 65.1   | 25.4   | 39.7   |                 | 212-38      |             |               |  |  |
| 212-39      | 2 <sup>1</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                |                                 |                                |                                 |                                 |        |        |        |                 | 212-39      |             |               |  |  |

Interchange Page 47



# SBLF H4 & SALF H4 Flange Units

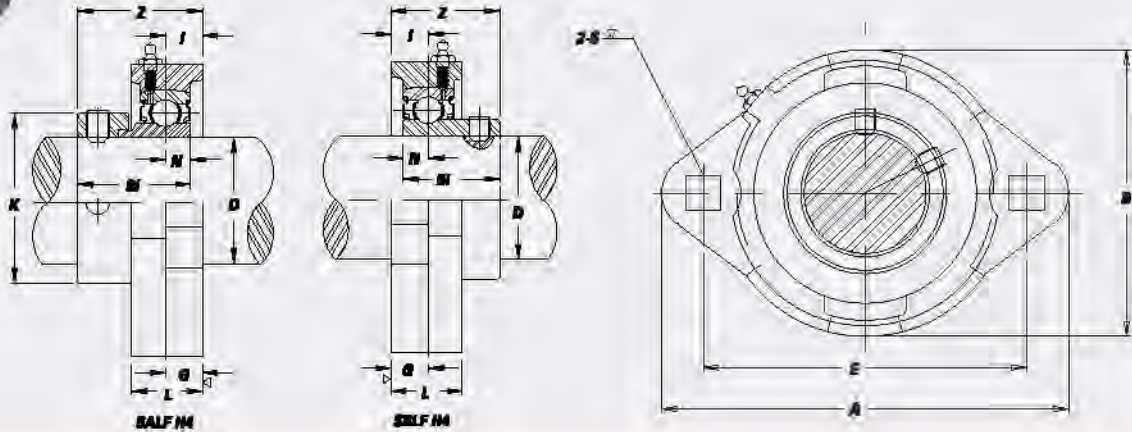


- Ductile iron housing
- Square bolt holes
- K-type seals

- Narrow inner race bearing
- Also available non-relubricatable — please specify



K-type Seal



## SBLF H4 Set screw type

| Unit No.       | Shaft Dia. |        | Dimensions (in.) (mm)          |         |       |       |                                |       |         |         |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |     |
|----------------|------------|--------|--------------------------------|---------|-------|-------|--------------------------------|-------|---------|---------|--------|--------|-----------------|-------------|-------------|---------------|-----|
|                | d (in.)    | d (mm) | A                              | E       | I     | G     | L                              | S     | B       | Z       | Bi     | N      |                 |             |             |               |     |
| SBLF 201-8GH4  | 1/2        |        |                                |         |       |       |                                |       |         |         |        |        |                 |             | SB 201-8G   |               |     |
| 202GH4         |            | 15     | 3 <sup>3</sup> / <sub>16</sub> | 2 1/2   | 3/8   | 3/8   | 2 <sup>3</sup> / <sub>32</sub> | 5/16  | 2 7/32  | 1       | 0.8661 | 0.2362 |                 | 1/4         | 202G        |               |     |
| 202-10GH4      | 5/8        |        | 81                             | 63.5    | 10    | 10    | 18                             | 8     | 56      | 25.4    | 22.0   | 6.0    |                 | 202-10G     | LF 203 H4   | 0.6           |     |
| 203GH4         |            | 17     |                                |         |       |       |                                |       |         |         |        |        |                 | 203G        |             |               |     |
| SBLF 204-12GH4 | 3/4        |        |                                |         |       |       |                                |       |         |         |        |        |                 | SB 204-12G  |             |               |     |
| 204GH4         |            | 20     | 3 17/32                        | 2 13/16 | 7/16  | 7/16  | 25/32                          | 25/64 | 2 13/32 | 1 5/32  | 0.9843 | 0.2756 |                 | 5/16        | 204G        | LF 204 H4     | 0.7 |
| SBLF 205-14GH4 | 7/8        |        |                                |         |       |       |                                |       |         |         |        |        |                 | SB 205-14G  |             |               |     |
| 205GH4         |            | 25     | 3 3/4                          | 2 63/64 | 7/16  | 7/16  | 25/32                          | 25/64 | 2 17/32 | 1 3/16  | 1.0630 | 0.2953 |                 | 5/16        | 205G        | LF 205 H4     | 0.9 |
| 205-15GH4      | 15/16      |        | 95                             | 76.0    | 11    | 11    | 20                             | 10    | 64      | 30.5    | 27.0   | 7.5    |                 | 205-15G     |             |               |     |
| 205-16GH4      | 1          |        |                                |         |       |       |                                |       |         |         |        |        |                 | 205-16G     |             |               |     |
| SBLF 206-17GH4 | 1 1/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | SB 206-17G  |             |               |     |
| 206-18GH4      | 1 1/8      |        |                                |         |       |       |                                |       |         |         |        |        |                 | 206-18G     |             |               |     |
| 206GH4         |            | 30     | 4 7/16                         | 3 9/16  | 15/32 | 15/32 | 7/8                            | 15/32 | 3       | 1 11/32 | 1.1811 | 0.3150 |                 | 3/8         | 206G        | LF 206 H4     | 1.2 |
| 206-19GH4      | 1 3/16     |        | 113                            | 90.5    | 12    | 12    | 23                             | 12    | 76      | 34.0    | 30.0   | 8.0    |                 | 206-19G     |             |               |     |
| 206-20GH4      | 1 1/4S     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 206-20G     |             |               |     |
| SBLF 207-20GH4 | 1 1/4      |        |                                |         |       |       |                                |       |         |         |        |        |                 | SB 207-20G  |             |               |     |
| 207-21GH4      | 1 5/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 207-21G     |             |               |     |
| 207-22GH4      | 1 5/8      |        | 4 13/16                        | 3 15/16 | 33/64 | 33/64 | 15/16                          | 15/32 | 3 1/2   | 1 7/16  | 1.2992 | 0.3740 |                 | 3/8         | 207-22G     | LF 207 H4     | 1.7 |
| 207GH4         |            | 35     | 122                            | 100.0   | 13    | 13    | 24                             | 12    | 89      | 36.5    | 33.0   | 9.5    |                 | 207G        |             |               |     |
| 207-23GH4      | 1 7/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 207-23G     |             |               |     |

## SALF H4 Eccentric locking collar type

| Unit No.       | Shaft Dia. |        | Dimensions (in.) (mm)          |         |       |       |                                |       |         |         |        |        | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |     |
|----------------|------------|--------|--------------------------------|---------|-------|-------|--------------------------------|-------|---------|---------|--------|--------|-----------------|-------------|-------------|---------------|-----|
|                | d (in.)    | d (mm) | A                              | E       | I     | G     | L                              | S     | B       | Z       | Bi     | N      |                 |             |             |               | K   |
| SALF 201-8GH4  | 1/2        |        |                                |         |       |       |                                |       |         |         |        |        |                 |             | SA 201-8G   |               |     |
| 202GH4         |            | 15     | 3 <sup>3</sup> / <sub>16</sub> | 2 1/2   | 3/8   | 3/8   | 2 <sup>3</sup> / <sub>32</sub> | 5/16  | 2 7/32  | 1 1/4   | 1.1260 | 0.2362 | 1 1/8           |             | 202G        |               |     |
| 202-10GH4      | 5/8        |        | 81                             | 63.5    | 10    | 10    | 18                             | 8     | 56      | 31.8    | 28.6   | 6.0    | 29              | 1/4         | 202-10G     | LF 203 H4     | 0.7 |
| 203GH4         |            | 17     |                                |         |       |       |                                |       |         |         |        |        |                 | 203G        |             |               |     |
| SALF 204-12GH4 | 3/4        |        |                                |         |       |       |                                |       |         |         |        |        |                 | SA 204-12G  |             |               |     |
| 204GH4         |            | 20     | 3 17/32                        | 2 13/16 | 7/16  | 7/16  | 25/32                          | 25/64 | 2 13/32 | 1 23/64 | 1.2205 | 0.2953 | 1 5/16          | 5/16        | 204G        | LF 204 H4     | 0.8 |
| SALF 205-14GH4 | 7/8        |        |                                |         |       |       |                                |       |         |         |        |        |                 | SA 205-14G  |             |               |     |
| 205GH4         |            | 25     | 3 3/4                          | 2 63/64 | 7/16  | 7/16  | 25/32                          | 25/64 | 2 17/32 | 1 23/64 | 1.2205 | 0.2953 | 1 1/2           | 5/16        | 205G        | LF 205 H4     | 1.0 |
| 205-15GH4      | 15/16      |        | 95                             | 76.0    | 11    | 11    | 20                             | 10    | 64      | 34.4    | 31.0   | 7.5    |                 | 205-15G     |             |               |     |
| 205-16GH4      | 1          |        |                                |         |       |       |                                |       |         |         |        |        |                 | 205-16G     |             |               |     |
| SALF 206-17GH4 | 1 1/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | SA 206-17G  |             |               |     |
| 206-18GH4      | 1 1/8      |        |                                |         |       |       |                                |       |         |         |        |        |                 | 206-18G     |             |               |     |
| 206GH4         |            | 30     | 4 7/16                         | 3 9/16  | 15/32 | 15/32 | 7/8                            | 15/32 | 3       | 1 17/32 | 1.4055 | 0.3543 | 1 3/4           | 3/8         | 206G        | LF 206 H4     | 1.4 |
| 206-19GH4      | 1 3/16     |        | 113                            | 90.5    | 12    | 12    | 23                             | 12    | 76      | 38.9    | 35.7   | 9.0    | 45              | 206-19G     |             |               |     |
| 206-20GH4      | 1 1/4S     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 206-20G     |             |               |     |
| SALF 207-20GH4 | 1 1/4      |        |                                |         |       |       |                                |       |         |         |        |        |                 | SA 207-20G  |             |               |     |
| 207-21GH4      | 1 5/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 207-21G     |             |               |     |
| 207-22GH4      | 1 5/8      |        | 4 13/16                        | 3 15/16 | 33/64 | 33/64 | 15/16                          | 15/32 | 3 1/2   | 1 11/16 | 1.5315 | 0.3740 | 2 3/16          | 3/8         | 207-22G     | LF 207 H4     | 2.0 |
| 207GH4         |            | 35     | 122                            | 100.0   | 13    | 13    | 24                             | 12    | 89      | 42.7    | 38.9   | 9.5    | 60              | 207G        |             |               |     |
| 207-23GH4      | 1 7/16     |        |                                |         |       |       |                                |       |         |         |        |        |                 | 207-23G     |             |               |     |

G=Relubricatable Specify "N" for non-relubricatable units Interchange Page 47

# UCHA Hanger Units



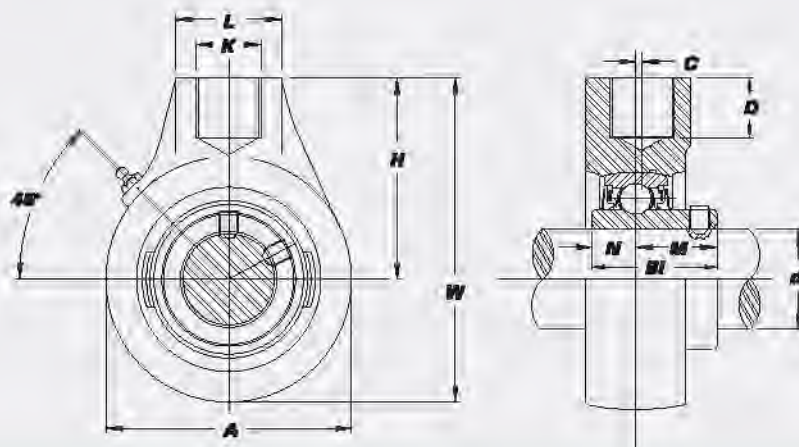
B-type Seal



L3-type Seal

## Standard duty with set screw lock.

- Cast iron housing
- Wide inner race bearing
- Available with eccentric locking collar bearing
- B-type seals
- L3-type seals available in some sizes



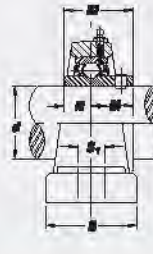
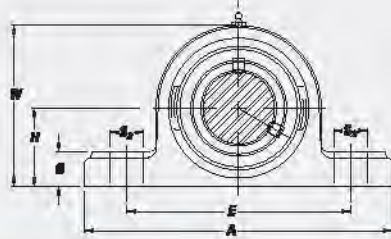
| Unit No.    | Shaft Dia.                      |        | Dimensions (in.) (mm)           |                                 |                                |                                 |                                |                                |                                  |        |        |        | Bearing No. | Housing No. | Weight (lbs.) |        |      |
|-------------|---------------------------------|--------|---------------------------------|---------------------------------|--------------------------------|---------------------------------|--------------------------------|--------------------------------|----------------------------------|--------|--------|--------|-------------|-------------|---------------|--------|------|
|             | d (in.)                         | d (mm) | A                               | W                               | C                              | H                               | L                              | D                              | K                                | Bi     | N      | M      |             |             |               |        |      |
| UCHA 201    |                                 | 12     |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 201        |        |      |
| 201-8       | 1/2                             |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 201-8         |        |      |
| 202         |                                 | 15     |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 202           |        |      |
| 202-10      | 5/8                             |        | 2 <sup>33</sup> / <sub>64</sub> | 3 <sup>25</sup> / <sub>32</sub> | 0                              | 2 <sup>33</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>16</sub> | 3/4                            | PF 3/4                           | 1.2205 | 0.5000 | 0.7205 |             |             | 202-10        | HA 204 | 1.7  |
| 203         |                                 | 17     | 64                              | 96                              |                                | 64                              | 40                             | 19.1                           | -14                              | 31.0   | 12.7   | 18.3   |             |             | 203           |        |      |
| 204-12      | 3/4                             |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 204-12        |        |      |
| 204         |                                 | 20     |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 204           |        |      |
| UCHA 205-14 | 7/8                             |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 205-14     |        |      |
| 205-15      | 1 <sup>5</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 205-15        |        |      |
| 205         |                                 | 25     | 3 <sup>1</sup> / <sub>16</sub>  | 4 <sup>1</sup> / <sub>16</sub>  | 0                              | 2 <sup>33</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>16</sub> | 3/4                            | PF 3/4                           | 1.3386 | 0.5630 | 0.7756 |             |             | 205           | HA 205 | 1.9  |
| 205-16      | 1                               |        | 78                              | 103                             |                                | 64                              | 40                             | 19.1                           | -14                              | 34.0   | 14.3   | 19.7   |             |             | 205-16        |        |      |
| UCHA 206-17 | 1 <sup>1</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 206-17     |        |      |
| 206-18      | 1 <sup>1</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 206-18        |        |      |
| 206         |                                 | 30     | 3 <sup>5</sup> / <sub>32</sub>  | 4 <sup>3</sup> / <sub>32</sub>  | 0                              | 2 <sup>33</sup> / <sub>64</sub> | 1 <sup>9</sup> / <sub>16</sub> | 3/4                            | PF 3/4                           | 1.5000 | 0.6260 | 0.8740 |             |             | 206           | HA 206 | 1.9  |
| 206-19      | 1 <sup>3</sup> / <sub>16</sub>  |        | 80                              | 104                             |                                | 64                              | 40                             | 19.1                           | -14                              | 38.1   | 15.9   | 22.2   |             |             | 206-19        |        |      |
| 206-20      | 1 <sup>1</sup> / <sub>4</sub> S |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 206-20        |        |      |
| UCHA 207-20 | 1 <sup>1</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 207-20     |        |      |
| 207-21      | 1 <sup>3</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 207-21        |        |      |
| 207-22      | 1 <sup>3</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 207-22        |        |      |
| 207         |                                 | 35     | 3 <sup>5</sup> / <sub>8</sub>   | 4 <sup>9</sup> / <sub>16</sub>  | 0                              | 2 <sup>3</sup> / <sub>4</sub>   | 1 <sup>9</sup> / <sub>16</sub> | 3/4                            | PF 3/4                           | 1.6890 | 0.6890 | 1.0000 |             |             | 207           | HA 207 | 2.6  |
| 207-23      | 1 <sup>7</sup> / <sub>16</sub>  |        | 92                              | 116                             |                                | 70                              | 40                             | 19.1                           | -14                              | 42.9   | 17.5   | 25.4   |             |             | 207-23        |        |      |
| UCHA 208-24 | 1 <sup>1</sup> / <sub>2</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 208-24     |        |      |
| 208-25      | 1 <sup>9</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 208-25        |        |      |
| 208         |                                 | 40     | 3 <sup>15</sup> / <sub>16</sub> | 4 <sup>27</sup> / <sub>32</sub> | 5/64                           | 2 <sup>7</sup> / <sub>8</sub>   | 1 <sup>9</sup> / <sub>16</sub> | 3/4                            | PF 3/4                           | 1.9370 | 0.7480 | 1.1890 |             |             | 208           | HA 208 | 3.4  |
| UCHA 209-26 | 1 <sup>5</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 209-26     |        |      |
| 209-27      | 1 <sup>11</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 209-27        |        |      |
| 209-28      | 1 <sup>3</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 209-28        |        |      |
| 209         |                                 | 45     | 4 <sup>1</sup> / <sub>4</sub>   | 5 <sup>11</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>64</sub> | 3 <sup>15</sup> / <sub>64</sub> | 1 <sup>7</sup> / <sub>8</sub>  | 1 <sup>3</sup> / <sub>16</sub> | PF 1                             | 1.9370 | 0.7480 | 1.1890 |             |             | 209           | HA 209 | 3.9  |
| UCHA 210-30 | 1 <sup>7</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 210-30     |        |      |
| 210-31      | 1 <sup>15</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 210-31        |        |      |
| 210         |                                 | 50     | 4 <sup>21</sup> / <sub>32</sub> | 5 <sup>19</sup> / <sub>32</sub> | 1 <sup>3</sup> / <sub>64</sub> | 3 <sup>17</sup> / <sub>64</sub> | 1 <sup>7</sup> / <sub>8</sub>  | 1 <sup>3</sup> / <sub>16</sub> | PF 1                             | 2.0315 | 0.7480 | 1.2835 |             |             | 210           | HA 210 | 4.6  |
| 210-32      | 2S                              |        | 118                             | 142                             | 5                              | 83                              | 48                             | 21                             | -11 <sup>1</sup> / <sub>2</sub>  | 51.6   | 19.0   | 32.6   |             |             | 210-32        |        |      |
| UCHA 211-34 | 2 <sup>1</sup> / <sub>8</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC X11-34     |        |      |
| 211         |                                 | 55     | 5 <sup>19</sup> / <sub>32</sub> | 6 <sup>13</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>64</sub> | 4 <sup>1</sup> / <sub>64</sub>  | 2 <sup>3</sup> / <sub>8</sub>  | 1 <sup>3</sup> / <sub>32</sub> | PF 1 <sup>1</sup> / <sub>4</sub> | 2.5630 | 1.0000 | 1.5630 |             |             | X11           | HA 212 | 8.5  |
| 211-35      | 2 <sup>3</sup> / <sub>16</sub>  |        | 142                             | 173                             | 9                              | 102                             | 60                             | 28                             | -11 <sup>1</sup> / <sub>2</sub>  | 65.1   | 25.4   | 39.7   |             |             | X11-35        |        |      |
| UCHA 212-36 | 2 <sup>1</sup> / <sub>4</sub>   |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 212-36     |        |      |
| 212         |                                 | 60     | 5 <sup>19</sup> / <sub>32</sub> | 6 <sup>13</sup> / <sub>16</sub> | 2 <sup>3</sup> / <sub>64</sub> | 4 <sup>1</sup> / <sub>64</sub>  | 2 <sup>3</sup> / <sub>8</sub>  | 1 <sup>3</sup> / <sub>32</sub> | PF 1 <sup>1</sup> / <sub>4</sub> | 2.5630 | 1.0000 | 1.5630 |             |             | 212           | HA 212 | 8.2  |
| 212-38      | 2 <sup>3</sup> / <sub>8</sub>   |        | 142                             | 173                             | 9                              | 102                             | 60                             | 28                             | -11 <sup>1</sup> / <sub>2</sub>  | 65.1   | 25.4   | 39.7   |             |             | 212-38        |        |      |
| 212-39      | 2 <sup>1</sup> / <sub>16</sub>  |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | 212-39        |        |      |
| UCHA 214-43 | 2 <sup>11</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC X14-43     |        |      |
| 214         |                                 | 70     | 6 <sup>17</sup> / <sub>32</sub> | 7 <sup>7</sup> / <sub>8</sub>   | 3/8                            | 4 <sup>39</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | PF 1 <sup>1</sup> / <sub>2</sub> | 3.0630 | 1.3110 | 1.7520 |             |             | X14           | HA 215 | 13.2 |
| UCHA 215-47 | 2 <sup>15</sup> / <sub>16</sub> |        |                                 |                                 |                                |                                 |                                |                                |                                  |        |        |        |             |             | UC 215-47     |        |      |
| 215         |                                 | 75     | 6 <sup>17</sup> / <sub>32</sub> | 7 <sup>7</sup> / <sub>8</sub>   | 3/8                            | 4 <sup>39</sup> / <sub>64</sub> | 2 <sup>3</sup> / <sub>4</sub>  | 1 <sup>1</sup> / <sub>4</sub>  | PF 1 <sup>1</sup> / <sub>2</sub> | 3.0630 | 1.3110 | 1.7520 |             |             | 215           | HA 215 | 12.2 |
| 215-48      | 3                               |        | 166                             | 200                             | 9.5                            | 117                             | 70                             | 32                             | -11 <sup>1</sup> / <sub>2</sub>  | 77.8   | 33.3   | 44.5   |             |             | 215-48        |        |      |

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POWER TRAIN  
STANDARD PRODUCTS

# Thermoplastic Pillow Blocks

CORROSION RESISTANT NONSTEEL



**With Set Screw Lock**  
Optional bearing inserts:  
**Stainless Steel-SUCTP**  
**Hard Chrome Coated-CUCTP**  
**Black Oxide-BUCTP**

• End Caps Available for all styles.

B-type seal available in all styles and sizes.

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.

| Unit No. | Shaft Dia. |        | Dimensions (in.) (mm) |   |   |   |                |                |   |                |   |   | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|----------|------------|--------|-----------------------|---|---|---|----------------|----------------|---|----------------|---|---|-----------------|-------------|-------------|---------------|
|          | d (in.)    | d (mm) | H                     | A | E | B | S <sub>2</sub> | S <sub>1</sub> | W | B <sub>G</sub> | N | M |                 |             |             |               |

## SUCTP with Stainless Steel Bearing Inserts

|              |         |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  |            |        |     |
|--------------|---------|----|---------|---------|---------|---------|-------|------|-------|---------|--------|--------|--------|-----|--|--|------------|--------|-----|
| SUCTP 201-8  | 1/2     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | SUC 201-8  |        |     |
| 202-10       | 5/8     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 202-10     |        |     |
| 204-12       | 3/4     |    | 1 5/16  | 5       | 3 3/4   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 19/32 | 1.2205 | 0.5000 | 0.7205 | 3/8 |  |  | 204-12     | TP 204 | .8  |
| 204          |         | 20 | 33.3    | 127     | 95      | 38      | 14    | 11   | 14    | 66      | 31.0   | 12.7   | 18.3   |     |  |  | 204        |        |     |
| SUCTP 205-14 | 7/8     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | SUC 205-14 |        |     |
| 205          |         | 25 | 1 7/16  | 5 1/2   | 4 1/8   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 13/16 | 1.3386 | 0.5630 | 0.7756 | 3/8 |  |  | 205        | TP 205 | .8  |
| 205-16       | 1       |    | 36.5    | 140     | 105     | 38      | 14    | 11   | 14    | 71      | 34.0   | 14.3   | 19.7   |     |  |  | 205-16     |        |     |
| SUCTP 206-18 | 1 1/8   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | SUC 206-18 |        |     |
| 206          |         | 30 | 1 11/16 | 6 13/32 | 4 11/16 | 1 13/16 | 23/32 | 9/16 | 11/16 | 3 19/64 | 1.5000 | 0.6260 | 0.8740 | 1/2 |  |  | 206        | TP 206 | 1.2 |
| 206-19       | 1 3/16  |    | 42.9    | 163     | 119     | 46      | 18    | 14   | 18    | 84      | 38.1   | 15.9   | 22.2   |     |  |  | 206-19     |        |     |
| 206-20       | 1 1/4 S |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 206-20     |        |     |
| SUCTP 207-20 | 1 1/4   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | SUC 207-20 |        |     |
| 207-21       | 1 5/16  |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 207-21     |        |     |
| 207-22       | 1 3/8   |    | 1 7/8   | 6 5/8   | 5       | 1 29/32 | 23/32 | 9/16 | 11/16 | 3 11/16 | 1.6890 | 0.6890 | 1.0000 | 1/2 |  |  | 207-22     | TP 207 | 1.7 |
| 207          |         | 35 | 47.6    | 168     | 127     | 48      | 18    | 14   | 18    | 94      | 42.9   | 17.5   | 25.4   |     |  |  | 207        |        |     |
| 207-23       | 1 7/16  |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 207-23     |        |     |
| SUCTP 208-24 | 1 1/2   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | SUC 208-24 |        |     |
| 208          |         | 40 | 1 15/16 | 7 1/4   | 5 7/16  | 2 1/8   | 23/32 | 9/16 | 25/32 | 3 29/32 | 1.9370 | 0.7480 | 1.1890 | 1/2 |  |  | 208        | TP 208 | 2.2 |

## CUCTP with Hard Chrome Coated Bearing Inserts

|              |         |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  |            |        |     |
|--------------|---------|----|---------|---------|---------|---------|-------|------|-------|---------|--------|--------|--------|-----|--|--|------------|--------|-----|
| CUCTP 204-12 | 3/4     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | CUC 204-12 |        |     |
| 204          |         | 20 | 1 5/16  | 5       | 3 3/4   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 19/32 | 1.2205 | 0.5000 | 0.7205 | 3/8 |  |  | 204        | TP 204 | .8  |
|              |         |    | 33.3    | 127     | 95      | 38      | 14    | 11   | 14    | 66      | 31.0   | 12.7   | 18.3   |     |  |  |            |        |     |
| CUCTP 205-14 | 7/8     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | CUC 205-14 |        |     |
| 205          |         | 25 | 1 7/16  | 5 1/2   | 4 1/8   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 13/16 | 1.3386 | 0.5630 | 0.7756 | 3/8 |  |  | 205        | TP 205 | .8  |
| 205-16       | 1       |    | 36.5    | 140     | 105     | 38      | 14    | 11   | 14    | 71      | 34.0   | 14.3   | 19.7   |     |  |  | 205-16     |        |     |
| CUCTP 206-18 | 1 1/8   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | CUC 206-18 |        |     |
| 206          |         | 30 | 1 11/16 | 6 13/32 | 4 11/16 | 1 13/16 | 23/32 | 9/16 | 11/16 | 3 19/64 | 1.5000 | 0.6260 | 0.8740 | 1/2 |  |  | 206        | TP 206 | 1.2 |
| 206-19       | 1 3/16  |    | 42.9    | 163     | 119     | 46      | 18    | 14   | 18    | 84      | 38.1   | 15.9   | 22.2   |     |  |  | 206-19     |        |     |
| 206-20       | 1 1/4 S |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 206-20     |        |     |
| CUCTP 207-20 | 1 1/4   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | CUC 207-20 |        |     |
| 207-22       | 1 3/8   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 207-22     |        |     |
| 207          |         | 35 | 1 7/8   | 6 5/8   | 5       | 1 29/32 | 23/32 | 9/16 | 11/16 | 3 11/16 | 1.6890 | 0.6890 | 1.0000 | 1/2 |  |  | 207        | TP 207 | 1.7 |
| 207-23       | 1 7/16  |    | 47.6    | 168     | 127     | 48      | 18    | 14   | 18    | 94      | 42.9   | 17.5   | 25.4   |     |  |  | 207-23     |        |     |
| CUCTP 208-24 | 1 1/2   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | CUC 208-24 |        |     |
| 208          |         | 40 | 1 15/16 | 7 1/4   | 5 7/16  | 2 1/8   | 23/32 | 9/16 | 25/32 | 3 29/32 | 1.9370 | 0.7480 | 1.1890 | 1/2 |  |  | 208        | TP 208 | 2.2 |

## BUCTP with Black Oxide Bearing Inserts

|              |         |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  |            |        |     |
|--------------|---------|----|---------|---------|---------|---------|-------|------|-------|---------|--------|--------|--------|-----|--|--|------------|--------|-----|
| BUCTP 201-8  | 1/2     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | BUC 201-8  |        |     |
| 202-10       | 5/8     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 202-10     |        |     |
| 204-12       | 3/4     |    | 1 5/16  | 5       | 3 3/4   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 19/32 | 1.2205 | 0.5000 | 0.7205 | 3/8 |  |  | 204-12     | TP 204 | .8  |
| 204          |         | 20 | 33.3    | 127     | 95      | 38      | 14    | 11   | 14    | 66      | 31.0   | 12.7   | 18.3   |     |  |  | 204        |        |     |
| BUCTP 205-14 | 7/8     |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | BUC 205-14 |        |     |
| 205          |         | 25 | 1 7/16  | 5 1/2   | 4 1/8   | 1 1/2   | 9/16  | 7/16 | 9/16  | 2 13/16 | 1.3386 | 0.5630 | 0.7756 | 3/8 |  |  | 205        | TP 205 | .8  |
| 205-16       | 1       |    | 36.5    | 140     | 105     | 38      | 14    | 11   | 14    | 71      | 34.0   | 14.3   | 19.7   |     |  |  | 205-16     |        |     |
| BUCTP 206-18 | 1 1/8   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | BUC 206-18 |        |     |
| 206          |         | 30 | 1 11/16 | 6 13/32 | 4 11/16 | 1 13/16 | 23/32 | 9/16 | 11/16 | 3 19/64 | 1.5000 | 0.6260 | 0.8740 | 1/2 |  |  | 206        | TP 206 | 1.2 |
| 206-19       | 1 3/16  |    | 42.9    | 163     | 119     | 46      | 18    | 14   | 18    | 84      | 38.1   | 15.9   | 22.2   |     |  |  | 206-19     |        |     |
| 206-20       | 1 1/4 S |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 206-20     |        |     |
| BUCTP 207-20 | 1 1/4   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | BUC 207-20 |        |     |
| 207-22       | 1 3/8   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | 207-22     |        |     |
| 207          |         | 35 | 1 7/8   | 6 5/8   | 5       | 1 29/32 | 23/32 | 9/16 | 11/16 | 3 11/16 | 1.6890 | 0.6890 | 1.0000 | 1/2 |  |  | 207        | TP 207 | 1.7 |
| 207-23       | 1 7/16  |    | 47.6    | 168     | 127     | 48      | 18    | 14   | 18    | 94      | 42.9   | 17.5   | 25.4   |     |  |  | 207-23     |        |     |
| BUCTP 208-24 | 1 1/2   |    |         |         |         |         |       |      |       |         |        |        |        |     |  |  | BUC 208-24 |        |     |
| 208          |         | 40 | 1 15/16 | 7 1/4   | 5 7/16  | 2 1/8   | 23/32 | 9/16 | 25/32 | 3 29/32 | 1.9370 | 0.7480 | 1.1890 | 1/2 |  |  | 208        | TP 208 | 2.2 |



# Stainless Steel Bearing Inserts



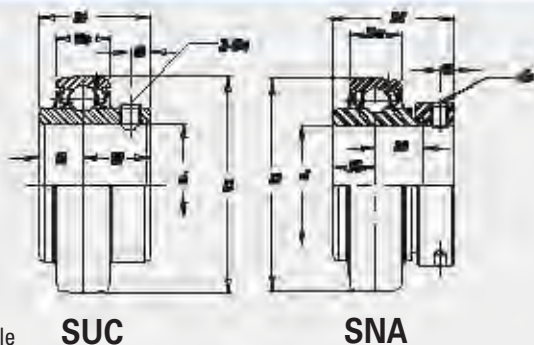
**B-type Seal**

B-type seal available in all styles and sizes.



**L3-type Seal**

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.



**SUC**

**SNA**

## SUC Set Screw Lock

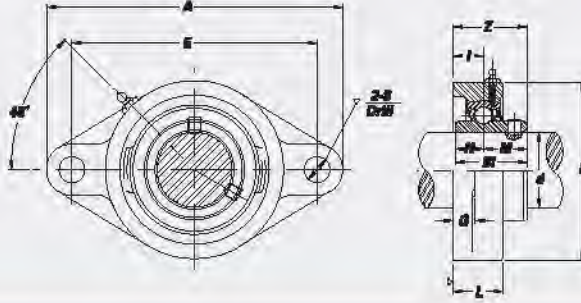
## SNA with Eccentric Locking Collar

|                           |                       |
|---------------------------|-----------------------|
| Balls & Rings             | 440 Stainless Steel   |
| Seal                      | Silicone Rubber       |
| Seal Frame & Slinger      | 302 Stainless Steel   |
| Retainer                  | 302 Stainless Steel   |
| Set Screws                | 410 Stainless Steel   |
| Locking Collar (SNA only) | 304 Stainless Steel   |
| Lubrication               | H-1 Food Grade Grease |

POWER TRANSMISSION SOLUTIONS DEPARTMENT

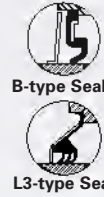
| Bearing No.                              | Bore Dia. of Bearing |          | Dimensions (in. (mm)) |           |          |          |          |                 |  | Basic Load Rating (lbs.) | Basic Static Load Rating (lbs.) | Weight (lbs.) |
|--|----------------------|----------|-----------------------|-----------|----------|----------|----------|-----------------|--|--------------------------|---------------------------------|---------------|
|  | <i>d</i>             | <i>D</i> | <i>Bi</i>             | <i>Be</i> | <i>N</i> | <i>M</i> | <i>G</i> | <i>Ds (In.)</i> |  |                          |                                 |               |
| <b>SUC with Set Screw Lock</b>           |                      |          |                       |           |          |          |          |                 |  |                          |                                 |               |
| SUC 201-8                                | 1/2                  |          |                       |           |          |          |          |                 |  |                          |                                 | 0.46          |
| 202-10                                   | 5/8                  | 1.8504   | 1.2205                | 0.6299    | 0.5000   | 0.7205   | 0.1969   |                 |  | 2,440                    | 1,220                           | 0.42          |
| 204-12                                   | 3/4                  | 47.0     | 31.0                  | 16.0      | 12.7     | 18.3     | 5.0      | 1/4-28UNF       |  |                          |                                 | 0.35          |
| 204                                      |                      | 20       |                       |           |          |          |          |                 |  |                          |                                 | 0.35          |
| SUC 205-14                               | 7/8                  | 2.0472   | 1.3386                | 0.6693    | 0.5630   | 0.7756   | 0.2165   |                 |  | 2,670                    | 1,440                           | 0.51          |
| 205                                      | 1                    | 52.0     | 34.0                  | 17.0      | 14.3     | 19.7     | 5.5      | 1/4-28UNF       |  |                          |                                 | 0.44          |
| 205-16                                   |                      | 25       |                       |           |          |          |          |                 |  |                          |                                 | 0.44          |
| SUC 206-18                               | 1 1/8                | 2.4409   | 1.5000                | 0.7480    | 0.6260   | 0.8740   | 0.2362   |                 |  | 3,710                    | 2,020                           | 0.75          |
| 206                                      | 30                   | 62.0     | 38.1                  | 19.0      | 15.9     | 22.2     | 6.0      | 1/4-28UNF       |  |                          |                                 | 0.71          |
| 206-19                                   | 1 3/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 0.71          |
| 206-20                                   | 1 1/4S               |          |                       |           |          |          |          |                 |  |                          |                                 | 0.71          |
| SUC 207-20                               | 1 1/4                |          |                       |           |          |          |          |                 |  |                          |                                 | 1.19          |
| 207-21                                   | 1 5/16               | 2.8346   | 1.6890                | 0.7874    | 0.6890   | 1.0000   | 0.2559   |                 |  | 4,930                    | 2,780                           | 1.12          |
| 207-22                                   | 1 3/8                | 72.0     | 42.9                  | 20.0      | 17.5     | 25.4     | 6.5      | 5/16-24UNF      |  |                          |                                 | 1.06          |
| 207                                      | 35                   |          |                       |           |          |          |          |                 |  |                          |                                 | 1.06          |
| 207-23                                   | 1 7/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 0.99          |
| SUC 208-24                               | 1 1/2                | 3.1496   | 1.9370                | 0.8268    | 0.7480   | 1.1890   | 0.3150   |                 |  | 5,660                    | 3,300                           | 1.50          |
| 208                                      | 40                   | 80.0     | 49.2                  | 21.0      | 19.0     | 30.2     | 8.0      | 5/16-24UNF      |  |                          |                                 | 1.41          |
| SUC 209-27                               | 1 11/16              | 3.3465   | 1.9370                | 0.8661    | 0.7480   | 1.1890   | 0.3150   |                 |  | 6,230                    | 3,680                           | 1.63          |
| 209-28                                   | 1 3/4                | 85.0     | 49.2                  | 22.0      | 19.0     | 30.2     | 8.0      | 5/16-24UNF      |  |                          |                                 | 1.54          |
| 209                                      | 45                   |          |                       |           |          |          |          |                 |  |                          |                                 | 1.50          |
| SUC 210-31                               | 1 5/16               | 3.5433   | 2.0315                | 0.9449    | 0.7480   | 1.2835   | 0.3543   |                 |  | 6,590                    | 4,070                           | 1.81          |
| 210                                      | 50                   | 90.0     | 51.6                  | 24.0      | 19.0     | 32.6     | 9.0      | 3/8-24UNF       |  |                          |                                 | 1.76          |
| 210-32                                   | 2S                   |          |                       |           |          |          |          |                 |  |                          |                                 | 1.66          |
| SUC 211-32                               | 2                    | 3.9370   | 2.1890                | 0.9843    | 0.8740   | 1.3150   | 0.3543   |                 |  | 7,780                    | 4,890                           | 2.78          |
| 211                                      | 55                   | 100.0    | 55.6                  | 25.0      | 22.2     | 33.4     | 9.0      | 3/8-24UNF       |  |                          |                                 | 2.45          |
| 211-35                                   | 2 3/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 2.40          |
| SUC 212-36                               | 2 1/4                | 4.3307   | 2.5630                | 1.0630    | 1.0000   | 1.5630   | 0.4134   |                 |  | 8,910                    | 5,870                           | 3.68          |
| 212                                      | 60                   | 110.0    | 65.1                  | 27.0      | 25.4     | 39.7     | 10.5     | 3/8-24UNF       |  |                          |                                 | 3.40          |
| 212-39                                   | 2 7/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 3.20          |
| <b>SNA with Eccentric Locking Collar</b> |                      |          |                       |           |          |          |          |                 |  |                          |                                 |               |
| SNA 204-12                               | 3/4                  | 1.8504   | 1.5433                | 0.6299    | 0.5000   | 0.6693   | 0.1890   |                 |  | 2,440                    | 1,220                           | 0.45          |
| 204                                      | 20                   | 47.0     | 39.2                  | 16.0      | 12.7     | 17.0     | 4.8      | 1/4-28UNF       |  |                          |                                 | 0.43          |
| SNA 205-14                               | 7/8                  | 2.0472   | 1.6220                | 0.6693    | 0.5630   | 0.6850   | 0.1890   |                 |  | 2,670                    | 1,440                           | 0.58          |
| 205                                      | 25                   | 52.0     | 41.2                  | 17.0      | 14.3     | 17.4     | 4.8      | 1/4-28UNF       |  |                          |                                 | 0.49          |
| 205-16                                   | 1                    |          |                       |           |          |          |          |                 |  |                          |                                 | 0.49          |
| SNA 206-18                               | 1 1/8                | 2.4409   | 1.8110                | 0.7480    | 0.6260   | 0.7165   | 0.2362   |                 |  | 3,710                    | 2,020                           | 0.89          |
| 206                                      | 30                   | 62.0     | 46.0                  | 19.0      | 15.9     | 18.2     | 6.0      | 5/16-24UNF      |  |                          |                                 | 0.84          |
| 206-19                                   | 1 3/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 0.84          |
| 206-20                                   | 1 1/4S               |          |                       |           |          |          |          |                 |  |                          |                                 | 0.76          |
| SNA 207-20                               | 1 1/4                |          |                       |           |          |          |          |                 |  |                          |                                 | 1.44          |
| 207-22                                   | 1 3/8                | 2.8346   | 1.9606                | 0.7874    | 0.6890   | 0.7402   | 0.2677   |                 |  | 4,930                    | 2,780                           | 1.28          |
| 207                                      | 35                   | 72.0     | 49.8                  | 20.0      | 17.5     | 18.8     | 6.8      | 5/16-24UNF      |  |                          |                                 | 1.28          |
| 207-23                                   | 1 7/16               |          |                       |           |          |          |          |                 |  |                          |                                 | 1.22          |
| SNA 208-24                               | 1 1/2                | 3.1496   | 2.1220                | 0.8268    | 0.7480   | 0.8425   | 0.2677   |                 |  | 5,660                    | 3,300                           | 1.75          |
| 208                                      | 40                   | 80.0     | 53.9                  | 21.0      | 19.0     | 21.4     | 6.8      | 5/16-24UNF      |  |                          |                                 | 1.64          |
| SNA 209-28                               | 1 3/4                | 3.3465   | 2.1220                | 0.8661    | 0.7480   | 0.8425   | 0.2677   |                 |  | 6,230                    | 3,680                           | 1.83          |
|  |                      | 85.0     | 53.9                  | 22.0      | 19.0     | 21.4     | 6.8      | 5/16-24UNF      |  |                          |                                 |               |
| SNA 210-31                               | 1 5/16               | 3.5433   | 2.2480                | 0.9449    | 0.7480   | 0.9685   | 0.2677   |                 |  | 6,590                    | 4,070                           | 2.19          |
| 210-32                                   | 2S                   | 90.0     | 57.1                  | 24.0      | 19.0     | 24.6     | 6.8      | 5/16-24UNF      |  |                          |                                 | 2.07          |

# Thermoplastic 2-Bolt Flanges



**With Set Screw Lock**  
**Optional bearing inserts:**  
 Stainless Steel-SUCTFL  
 Hard Chrome Coated-CUCTFL  
 Black Oxide-BUCTFL

• End Caps Available for all styles.



B-type seal available in all styles and sizes.

L3-type seal available in SUC units only. Limited sizes. Consult IPTCI for speed limitations.

CORROSION RESISTANT

| Unit No. | Shaft Dia. | Dimensions (in. (mm)) |   |   |   |   |   |   |   |    |   |   | Bolt Used (in.) | Bearing No. | Housing No. | Weight (lbs.) |
|----------|------------|-----------------------|---|---|---|---|---|---|---|----|---|---|-----------------|-------------|-------------|---------------|
|          | d          | A                     | E | I | G | L | S | B | Z | Bi | N | M |                 |             |             |               |

## SUCTFL with Stainless Steel Bearing Inserts

|               |        |         |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
|---------------|--------|---------|---------|-------|------|--------|-------|---------|---------|--------|--------|--------|------|------------|------------|---------|-----|
| SUCTFL 201-8  | 1/2    |         |         |       |      |        |       |         |         |        |        |        |      |            | SUC 201-8  |         |     |
| 202-10        | 5/8    | 4 7/16  | 3 17/32 | 39/64 | 7/16 | 1 1/32 | 7/16  | 2 17/32 | 1 21/64 | 1.2205 | 0.5000 | 0.7205 |      | SUC 202-10 |            |         |     |
| 204-12        | 3/4    | 113     | 89.7    | 15    | 11   | 26     | 11    | 64      | 33.7    | 31.0   | 12.7   | 18.3   | 3/8  | SUC 204-12 | TFL 204    | .5      |     |
| 204           |        | 20      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| SUCTFL 205-14 | 7/8    |         |         |       |      |        |       |         |         |        |        |        |      | SUC 205-14 |            |         |     |
| 205           | 1      | 130     | 98.8    | 17    | 13   | 29     | 11    | 70      | 36.5    | 34.0   | 14.3   | 19.7   | 3/8  | SUC 205-14 | TFL 205    | .7      |     |
| 205-16        |        | 25      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| SUCTFL 206-18 | 1 1/8  |         |         |       |      |        |       |         |         |        |        |        |      | SUC 206-18 |            |         |     |
| 206           | 1 3/16 | 148     | 116.7   | 19    | 13   | 31     | 11    | 80      | 40.9    | 38.1   | 15.9   | 22.2   | 3/8  | SUC 206-18 | TFL 206    | 1.1     |     |
| 206-19        | 1 1/4  |         |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| 206-20        |        | 30      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| SUCTFL 207-20 | 1 1/4  |         |         |       |      |        |       |         |         |        |        |        |      | SUC 207-20 |            |         |     |
| 207-21        | 1 5/16 |         |         |       |      |        |       |         |         |        |        |        |      | SUC 207-21 |            |         |     |
| 207-22        | 1 3/8  | 6 15/32 | 5 1/8   | 23/32 | 5/8  | 1 9/32 | 33/64 | 3 17/32 | 1 23/32 | 1.6890 | 0.6890 | 1.0000 | 1/2  | SUC 207-22 | TFL 207    | 1.5     |     |
| 207           |        | 35      | 164     | 130.2 | 18   | 16     | 33    | 13      | 90      | 43.7   | 42.9   | 17.5   | 25.4 |            |            |         |     |
| 207-23        | 1 7/16 |         |         |       |      |        |       |         |         |        |        |        |      | SUC 207-23 |            |         |     |
| SUCTFL 208-24 | 1 1/2  |         |         |       |      |        |       |         |         |        |        |        |      | SUC 208-24 |            |         |     |
| 208           |        | 40      | 175     | 143.7 | 21   | 20     | 37    | 14      | 100     | 52.0   | 49.2   | 19.0   | 30.2 | 1/2        | SUC 208-24 | TFL 208 | 2.0 |

## CUCTFL with Hard Chrome Coated Bearing Inserts

|               |        |         |       |       |     |        |       |         |         |        |        |        |      |            |            |         |     |
|---------------|--------|---------|-------|-------|-----|--------|-------|---------|---------|--------|--------|--------|------|------------|------------|---------|-----|
| CUCTFL 204-12 | 3/4    |         |       |       |     |        |       |         |         |        |        |        |      | CUC 204-12 |            |         |     |
| 204           |        | 20      |       |       |     |        |       |         |         |        |        |        |      | CUC 204-12 | TFL 204    | .5      |     |
| CUCTFL 205-14 | 7/8    |         |       |       |     |        |       |         |         |        |        |        |      | CUC 205-14 |            |         |     |
| 205           | 1      | 130     | 98.8  | 17    | 13  | 29     | 11    | 70      | 36.5    | 34.0   | 14.3   | 19.7   | 3/8  | CUC 205-14 | TFL 205    | .7      |     |
| 205-16        |        | 25      |       |       |     |        |       |         |         |        |        |        |      |            |            |         |     |
| CUCTFL 206-18 | 1 1/8  |         |       |       |     |        |       |         |         |        |        |        |      | CUC 206-18 |            |         |     |
| 206           | 1 3/16 | 148     | 116.7 | 19    | 13  | 31     | 11    | 80      | 40.9    | 38.1   | 15.9   | 22.2   | 3/8  | CUC 206-18 | TFL 206    | 1.1     |     |
| 206-19        | 1 1/4  |         |       |       |     |        |       |         |         |        |        |        |      |            |            |         |     |
| 206-20        |        | 30      |       |       |     |        |       |         |         |        |        |        |      |            |            |         |     |
| CUCTFL 207-20 | 1 1/4  |         |       |       |     |        |       |         |         |        |        |        |      | CUC 207-20 |            |         |     |
| 207-22        | 1 3/8  | 6 15/32 | 5 1/8 | 23/32 | 5/8 | 1 9/32 | 33/64 | 3 17/32 | 1 23/32 | 1.6890 | 0.6890 | 1.0000 | 1/2  | CUC 207-22 | TFL 207    | 1.5     |     |
| 207           |        | 35      | 164   | 130.2 | 18  | 16     | 33    | 13      | 90      | 43.7   | 42.9   | 17.5   | 25.4 |            |            |         |     |
| 207-23        | 1 7/16 |         |       |       |     |        |       |         |         |        |        |        |      | CUC 207-23 |            |         |     |
| CUCTFL 208-24 | 1 1/2  |         |       |       |     |        |       |         |         |        |        |        |      | CUC 208-24 |            |         |     |
| 208           |        | 40      | 175   | 143.7 | 21  | 20     | 37    | 14      | 100     | 52.0   | 49.2   | 19.0   | 30.2 | 1/2        | CUC 208-24 | TFL 208 | 2.0 |

## BUCTFL with Black Oxide Bearing Inserts

|               |        |         |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
|---------------|--------|---------|---------|-------|------|--------|-------|---------|---------|--------|--------|--------|------|------------|------------|---------|-----|
| BUCTFL 201-8  | 1/2    |         |         |       |      |        |       |         |         |        |        |        |      | BUC 201-8  |            |         |     |
| 202-10        | 5/8    | 4 7/16  | 3 17/32 | 39/64 | 7/16 | 1 1/32 | 7/16  | 2 17/32 | 1 21/64 | 1.2205 | 0.5000 | 0.7205 | 3/8  | BUC 202-10 |            |         |     |
| 204-12        | 3/4    | 113     | 89.7    | 15    | 11   | 26     | 11    | 64      | 33.7    | 31.0   | 12.7   | 18.3   | 3/8  | BUC 204-12 | TFL 204    | .5      |     |
| 204           |        | 20      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| BUCTFL 205-14 | 7/8    |         |         |       |      |        |       |         |         |        |        |        |      | BUC 205-14 |            |         |     |
| 205           | 1      | 130     | 98.8    | 17    | 13   | 29     | 11    | 70      | 36.5    | 34.0   | 14.3   | 19.7   | 3/8  | BUC 205-14 | TFL 205    | .7      |     |
| 205-16        |        | 25      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| BUCTFL 206-18 | 1 1/8  |         |         |       |      |        |       |         |         |        |        |        |      | BUC 206-18 |            |         |     |
| 206           | 1 3/16 | 148     | 116.7   | 19    | 13   | 31     | 11    | 80      | 40.9    | 38.1   | 15.9   | 22.2   | 3/8  | BUC 206-18 | TFL 206    | 1.1     |     |
| 206-19        | 1 1/4  |         |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| 206-20        |        | 30      |         |       |      |        |       |         |         |        |        |        |      |            |            |         |     |
| BUCTFL 207-20 | 1 1/4  |         |         |       |      |        |       |         |         |        |        |        |      | BUC 207-20 |            |         |     |
| 207-22        | 1 3/8  | 6 15/32 | 5 1/8   | 23/32 | 5/8  | 1 9/32 | 33/64 | 3 17/32 | 1 23/32 | 1.6890 | 0.6890 | 1.0000 | 1/2  | BUC 207-22 | TFL 207    | 1.5     |     |
| 207           |        | 35      | 164     | 130.2 | 18   | 16     | 33    | 13      | 90      | 43.7   | 42.9   | 17.5   | 25.4 |            |            |         |     |
| 207-23        | 1 7/16 |         |         |       |      |        |       |         |         |        |        |        |      | BUC 207-23 |            |         |     |
| BUCTFL 208-24 | 1 1/2  |         |         |       |      |        |       |         |         |        |        |        |      | BUC 208-24 |            |         |     |
| 208           |        | 40      | 175     | 143.7 | 21   | 20     | 37    | 14      | 100     | 52.0   | 49.2   | 19.0   | 30.2 | 1/2        | BUC 208-24 | TFL 208 | 2.0 |

# Bearing Selection

## Load Capacities & Life Calculations

Simple life/load estimations can be derived from the Radial Load chart shown on page 86. However, if a more specific estimation is desired, the life of a bearing can be calculated by the following formula:

$$L_{10h} = \left(\frac{C}{P}\right)^3 \times \frac{16,667}{n}$$

### Where:

L10h = Life hours  
C = Basic Load Rating (lbf)  
P = Equivalent Radial Load (lbf)  
n = Speed (RPM)

See Page 86, or individual bearing pages for Basic Load Ratings.

L10h equals the number of hours that 90% of an identical sample group, operating under identical and ideal conditions, will operate without failure. Since actual field conditions seldom, if ever, match the ideal conditions used in the calculation of L10h, compensation for slip fit (most mounted bearings), dust, vibration, and shock loading must be considered. Since most **IPTCI** products are mounted units, it is helpful then to adjust the L10h number by .46 for slip fit applications and further reduce this number by 50-70% to compensate for other operating conditions.

### Example:

Bearing: UCP205-16 – with slip fit on to ground shafting.  
Application: Farm equipment experiencing variable shock loading.  
L10h = 10,000 hours  
Adjustment would be: 10,000 x .46 x .3 = 1,380 hours

Light and or infrequent vibration/shock loading may not require as much adjustment; however, **IPTCI** always recommends very generous safety factors for maximum bearing longevity. Additional adjustment may also be required if the bearing is directly exposed to heavy contaminants. The seal type will then influence the amount of this additional adjustment. It is assumed that the bearing will be operated within the confines of its published temperature limits, and that it will be relubricated properly.

**Note:** Caution is advised if in the use of the L10 formula, extremely high or low hours are derived.

## Thrust

The above calculations assume that there is no consequential thrust load present; therefore, the actual radial load equals the Equivalent Radial Load. It is important to note, however, that thrust, or axial force can dramatically affect the life of a mounted ball bearing. It is also significant to note that, outside of ideal testing conditions, and without field experience, many thrust applications are difficult to realistically quantify. Therefore, as thrust exceeds approximately 25% of the Basic Load Rating, or there exists a combination of thrust and speed, please contact **IPTCI** for technical assistance.

# Bearing Inserts\* • Radial Load Chart

TECHNICAL INFORMATION

| Bearing Numbers                         |   |   |   |   |                                      | Basic Load Rating @ 33 <sup>1</sup> / <sub>3</sub> RPM | Radial Load Rating in Pounds at Various RPM Based on 500 Hours Minimum Life |        |        |        |        |      |      |      |      |      |      |
|---|---|---|---|---|--------------------------------------|--|---|--------|--------|--------|--------|------|------|------|------|------|------|
| Normal Duty                             |   | Light Duty                              |   | Medium Duty                             | UCX                                  |  | 50  | 100    | 200    | 300    | 500    | 900  | 1200 | 1500 | 1800 | 2400 | 3600 |
| UC/UCW                                  | NA/NAW                                  | ER                                      | SA                                      | SB                                      |                                      |  |   |        |        |        |        |      |      |      |      |      |      |
| UCW 201<br>201-8                        | NAW 201<br>201-8                        | -                                       | SA 201<br>201-8                         | SB 201<br>201-8                         | -                                    | 2040   | 1780  | 1415   | 1120   | 980    | 830    | 680  | 620  | 575  | 540  | 490  | 425  |
| UCW 202<br>202-10                       | NAW 202<br>202-10                       | -                                       | SA 202<br>202-10                        | SB 202<br>202-10                        | -                                    |  |   |        |        |        |        |      |      |      |      |      |      |
| UCW 203                                 | NAW 203                                 | -                                       | SA 203                                  | SB 203                                  | -                                    |  |   |        |        |        |        |      |      |      |      |      |      |
| UC 201<br>201-8                         | NA 201<br>201-8                         | ER 201<br>201-8                         | -                                       | -                                       | -                                    | 2740   | 2390  | 1890   | 1510   | 1320   | 1110   | 910  | 835  | 770  | 725  | 655  | 575  |
| UC 202<br>202-10                        | NA 202<br>202-10                        | ER 202<br>202-10                        | -                                       | -                                       | -                                    |  |   |        |        |        |        |      |      |      |      |      |      |
| UC 203                                  | NA 203                                  | ER 203                                  | SA 204-12<br>204                        | SB 204-12<br>204                        | -                                    |  |   |        |        |        |        |      |      |      |      |      |      |
| UC 204-12<br>204                        | NA 204-12<br>204                        | ER 204-12<br>204                        | -                                       | -                                       | -                                    |  |   |        |        |        |        |      |      |      |      |      |      |
| UC 205-14<br>205-15<br>205-16           | NA 205-14<br>205-15<br>205-16           | ER 205-14<br>205-15<br>205-16           | SA 205-14<br>205-15<br>205-16           | SB 205-14<br>205-15<br>205-16           | -                                    | 3010   | 2625  | 2085   | 1650   | 1450   | 1210   | 1000 | 915  | 845  | 800  | 725  | 630  |
| UC 206-17<br>206-18<br>206-19<br>206-20 | NA 206-17<br>206-18<br>206-19<br>206-20 | ER 206-17<br>206-18<br>206-19<br>206-20 | SA 206-17<br>206-18<br>206-19<br>206-20 | SB 206-17<br>206-18<br>206-19<br>206-20 | UC X05-14<br>X05-15<br>X05-16        | 4200   | 3670  | 2910   | 2290   | 2010   | 1695   | 1390 | 1265 | 1170 | 1100 | 990  | 860  |
| UC 207-20<br>207-21<br>207-22<br>207-23 | NA 207-20<br>207-21<br>207-22<br>207-23 | ER 207-20<br>207-21<br>207-22<br>207-23 | SA 207-20<br>207-21<br>207-22<br>207-23 | SB 207-20<br>207-21<br>207-22<br>207-23 | UC X06-18<br>X06-19<br>X06-20        | 5535   | 4820  | 3850   | 3050   | 2680   | 2250   | 1850 | 1680 | 1560 | 1420 | 1325 | 1155 |
| UC 208-24<br>208-25<br>208              | NA 208-24<br>208-25<br>208              | ER 208-24<br>208-25<br>208              | SA 208-24<br>208-25<br>208              | SB 208-24<br>208-25<br>208              | UC X07-22<br>X07-23                  | 6375   | 5560  | 4410   | 3490   | 3040   | 2550   | 2100 | 1895 | 1755 | 1655 | 1505 | -    |
| UC 209-26<br>209-27<br>209-28<br>209    | NA 209-26<br>209-27<br>209-28<br>209    | ER 209-26<br>209-27<br>209-28<br>209    | SA 209-26<br>209-27<br>209-28<br>209    | -                                       | UC X08-24<br>X08                     | 7110   | 6210  | 4915   | 3910   | 3400   | 2880   | 2355 | 2150 | 1990 | 1875 | 1700 | -    |
| UC 210-30<br>210-31<br>210<br>210-32    | NA 210-30<br>210-31<br>210<br>210-32    | ER 210-30<br>210-31<br>210<br>210-32    | SA 210-30<br>210-31<br>210<br>210-32    | -                                       | UC X09-26<br>X09-27<br>X09-28<br>X09 | 7400   | 6465  | 5140   | 4075   | 3560   | 3000   | 2460 | 2240 | 2075 | 1970 | 1740 | -    |
| UC 211-32<br>211-34<br>211<br>211-35    | NA 211-32<br>211-34<br>211<br>211-35    | ER 211-32<br>211-34<br>211<br>211-35    | SA 211-32<br>211-34<br>211<br>211-35    | -                                       | UC X10-30<br>X10-31<br>X10-32        | 9490   | 8290  | 6575   | 5220   | 4560   | 3825   | 3140 | 2840 | 2635 | 2460 | 2240 | -    |
| UC 212-36<br>212<br>212-38<br>212-39    | NA 212-36<br>212<br>212-38<br>212-39    | ER 212-36<br>212<br>212-38<br>212-39    | -                                       | -                                       | UC X11-34<br>X11<br>X11-35<br>X11-36 | 11,500   | 10,050  | 7965   | 6335   | 5525   | 4655   | 3775 | 3450 | 3200 | 3000 | -    | -    |
| UC 213-40<br>213                        | NA 213-40<br>213                        | -                                       | -                                       | -                                       | UC X12<br>X12-38<br>X12-39           | 12,400   | 10,810  | 8690   | 6860   | 6030   | 5030   | 4180 | 3780 | 3470 | 3260 | -    | -    |
| UC 214-44<br>214                        | NA 214-44<br>214                        | -                                       | -                                       | -                                       | UC X13-40<br>X13                     | 13,530   | 11,820  | 9450   | 7480   | 6480   | 5520   | 4540 | 4110 | 3820 | 3510 | -    | -    |
| UC 215-47<br>215<br>215-48              | NA 215-47<br>215<br>215-48              | ER 215-47<br>215<br>215-48              | -                                       | -                                       | UC X14-44<br>X14                     | 14,620   | 12,745  | 10,210 | 8100   | 7090   | 5980   | 4900 | 4400 | 4110 | 3860 | -    | -    |
| UC 216                                  | -                                       | -                                       | -                                       | -                                       | UC X15-47<br>X15<br>X15-48           | 15,970   | 13,950  | 11,070 | 8160   | 6470   | 5650   | 5150 | 4840 | 4490 | 4200 | -    | -    |
| UC 218-56<br>218                        | -                                       | -                                       | -                                       | -                                       | UC X17<br>X17-55<br>X17-56           | 21,120   | 18,460  | 14,650 | 10,780 | 8560   | 7480   | 6800 | 6400 | 5940 | -    | -    | -    |
| -                                       | -                                       | -                                       | -                                       | -                                       | UC X20<br>X20-63<br>X20-64           | 29,300   | 25,600  | 20,300 | 16100  | 14,100 | 11,900 | 9770 | 8870 | -    | -    | -    | -    |

\*52100 Bearing Steel Only

## Shaft Tolerances

| Shaft Diameter        | Shaft Tolerance     |
|-----------------------|---------------------|
| 1/2" - 1.153/16"      | Nominal to +0.0010" |
| 1/2" - 1.154/16" Up   | Nominal to -0.0015" |
| 3/4" - 1.315/16"      | Nominal to +0.0010" |
| 3/4" - 1.316/16" Up   | Nominal to -0.0015" |
| 1" - 1.475/16"        | Nominal to +0.0010" |
| 1" - 1.476/16" Up     | Nominal to -0.0015" |
| 1 1/4" - 1.635/16"    | Nominal to +0.0010" |
| 1 1/4" - 1.636/16" Up | Nominal to -0.0015" |

For maximum life, IPTCI recommends a fit as close to nominal as possible. Turned and ground shafting is also beneficial as it tends to be rounder, straighter and free of burrs or other flaws.

## Mounting Instructions

When mounting, always clean shafting and bearing bore. Then, having coated the shaft with a light oil, slide the bearing unit on the shaft. Do not use any tools to force the bearing onto the shaft. The shafting should be turned by hand to ensure proper alignment. Never use a hammer or any other tool to force the bearing onto the shaft. Once the bearing is in position, precise alignment can be achieved by using a dial indicator to set the bearing. Do not use a locking collar or clamping device to hold the bearing in place. Ways should be accomplished to allow for shaft rotation. Then tighten set screw. Do not use locking collar bearings for bi-directional applications.

When mounting set screw locking bearings we recommend the following torque settings:  
**Mild steel set screws - for standard bearing inserts**  
**400 series stainless set screws for SUC & CUC bearing inserts**

| Set Screw Size | Max. Recommended Torque (in./lbs.) | Set Screw Size | Max. Recommended Torque (in./lbs.) |
|----------------|------------------------------------|----------------|------------------------------------|
| 10-32          | 28                                 | 1/4" - 28      | 66                                 |
| 1/4" - 28      | 66                                 | 5/16" - 24     | 126                                |
| 5/16" - 24     | 126                                | 3/8" - 24      | 205                                |
| 3/8" - 24      | 205                                | 1/2" - 20      | 330                                |
| 1/2" - 20      | 330                                | 5/16" - 24     | 126                                |
| 5/16" - 24     | 126                                | 3/8" - 24      | 205                                |

## Lubrication

All IPTCI bearing units are factory pre-lubricated and, therefore, do not require supplemental grease before service life begins. All IPTCI bearings are factory pre-lubricated and, therefore, do not require supplemental grease before service life begins. Re-lubrication will increase the life of a bearing substantially. IPTCI recommends the following general guidelines to maximize your bearing life:

| RPM   | Temperature    | Environmental Condition | Interval            |
|-------|----------------|-------------------------|---------------------|
| 100   | 32° F - 120° F | Clean                   | 6-12 months         |
| 1,000 | 32° F - 210° F | Clean                   | 2 weeks to 2 months |
| 1,500 | Over 210° F    | Clean                   | Daily to weekly     |
| Any   | 32° F - 150° F | Dirty                   | Weekly to monthly   |
| Any   | Over 150° F    | Dirty                   | Daily to 2 weeks    |
| Any   | Any Temp.      | Very Dirty              | Daily to 2 weeks    |
| Any   | Any Temp.      | Extremely Dirty         | Daily to weekly     |
| 1,000 | 32° F - 210° F | Clean                   | 2 weeks to 2 months |
| 1,500 | Over 210° F    | Clean                   | Daily to weekly     |
| Any   | 32° F - 150° F | Dirty                   | Weekly to monthly   |
| Any   | Over 150° F    | Dirty                   | Daily to 2 weeks    |
| Any   | Any Temp.      | Very Dirty              | Daily to weekly     |
| Any   | Any Temp.      | Extremely Dirty         | Daily to weekly     |

**NOTE:**  
 Over-lubrication is a major cause of bearing failure. Please adhere to the following guidelines when selecting a bearing lubricant, IPTCI suggests any lithium-based NLGI #2 grease. For operating temperatures higher than 210° F, please consult IPTCI.

When selecting a bearing lubricant, IPTCI suggests any lithium-based NLGI #2 grease. For operating temperatures higher than 210° F, please consult IPTCI.

# BEARING INSERTS

Please note: The following lists are only a listing of our stock bearings. Please see the previous pages for technical info and for a listing of what IPTCI stocks.

Discounts for IPTCI bearings come at 50 pieces and 100 pieces.

## SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCW20108 | UCW201-8     | 1/2       |
| BUCW20210 | UCW202-10    | 5/8       |
| BUC20108  | UC201-08     | 1/2       |
| BUC20210  | UC202-10     | 5/8       |
| BUC20412  | UC204-12     | 3/4       |
| BUC20514  | UC205-14     | 7/8       |
| BUC20515  | UC205-15     | 15/16     |
| BUC20516  | UC205-16     | 1         |
| BUC20617  | UC206-17     | 1 1/16    |
| BUC20618  | UC206-18     | 1 1/8     |
| BUC20619  | UC206-19     | 1 3/16    |
| BUC20620  | UC206-20     | 1 1/4     |
| BUC20720  | UC207-20     | 1 1/4     |
| BUC20721  | UC207-21     | 1 5/16    |
| BUC20722  | UC207-22     | 1 3/8     |
| BUC20723  | UC207-23     | 1 7/16    |
| BUC20824  | UC208-24     | 1 1/2     |
| BUC20926  | UC209-26     | 1 5/8     |
| BUC20928  | UC209-28     | 1 3/4     |
| BUC21030  | UC210-30     | 1 7/8     |
| BUC21031  | UC210-31     | 1 15/16   |
| BUC21032  | UC210-32     | 2         |
| BUC21132  | UC211-32     | 2         |
| BUC21134  | UC211-34     | 2 1/8     |
| BUC21135  | UC211-35     | 2 3/16    |
| BUC21236  | UC212-36     | 2 1/4     |
| BUC21238  | UC212-38     | 2 3/8     |
| BUC21239  | UC212-39     | 2 7/16    |
| BUC21340  | UC213-40     | 2 1/2     |
| BUC21444  | UC214-44     | 2 3/4     |
| BUC21547  | UC215-47     | 2 15/16   |
| BUC21548  | UC215-48     | 3         |



## SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • TRIPLE LIP SEALS

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUC20516L3 | UC205-16 L3  | 1         |
| BUC20620L3 | UC206-20 L3  | 1 1/4     |
| BUC20720L3 | UC207-20 L3  | 1 1/4     |
| BUC20824L3 | UC208-24 L3  | 1 1/2     |

# BEARING INSERTS \*CONTINUED FROM PREVIOUS PAGE

## ECENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BNAW20210 | NAW202-10    | 5/8       |
| BNA20108  | NA201-8      | 1/2       |
| BNA20210  | NA202-10     | 5/8       |
| BNA20412  | NA204-12     | 3/4       |
| BNA20514  | NA205-14     | 7/8       |
| BNA20515  | NA205-15     | 15/16     |
| BNA20516  | NA205-16     | 1         |
| BNA20617  | NA206-17*    | 1 1/16    |
| BNA20618  | NA206-18     | 1 1/8     |
| BNA20619  | NA206-19     | 1 3/16    |
| BNA20620  | NA206-20     | 1 1/4     |
| BNA20720  | NA207-20     | 1 1/4     |
| BNA20721  | NA207-21*    | 1 5/16    |
| BNA20722  | NA207-22     | 1 3/8     |
| BNA20723  | NA207-23     | 1 7/16    |
| BNA20824  | NA208-24     | 1 1/2     |
| BNA20926  | NA209-26     | 1 5/8     |
| BNA20927  | NA209-27     | 1 11/16   |
| BNA20928  | NA209-28     | 1 3/4     |
| BNA21030  | NA210-30     | 1 7/8     |
| BNA21031  | NA210-31     | 1 15/16   |
| BNA21032  | NA210-32     | 2         |
| BNA21132  | NA211-32     | 2         |
| BNA21134  | NA211-34     | 2 1/8     |
| BNA21135  | NA211-35     | 2 3/16    |
| BNA21236  | NA212-36     | 2 1/4     |
| BNA21238  | NA212-38     | 2 3/8     |
| BNA21239  | NA212-39     | 2 7/16    |
| BNA21340  | NA213-40     | 2 1/2     |
| BNA21548  | NA215-48     | 3         |

\*IPTCI brand not available. We stock Dura Roll brand.



POWER TRANSMISSION

## ECENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • TRIPLE LIP SEALS

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNA20412L3 | NA204-12 L3  | 3/4       |
| BNA20516L3 | NA205-16 L3  | 1         |
| BNA20620L3 | NA206-20 L3  | 1 1/4     |
| BNA20720L3 | NA207-20 L3  | 1 1/4     |
| BNA20722L3 | NA207-22 L3  | 1 3/8     |

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNA20723L3 | NA207-23 L3  | 1 7/16    |
| BNA20824L3 | NA208-24 L3  | 1 1/2     |
| BNA20926L3 | NA209-26 L3  | 1 5/8     |
| BNA20928L3 | NA209-28 L3  | 1 3/4     |
| BNA21132L3 | NA211-32 L3  | 2         |

**SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • SPHERICAL OUTER RACE • MEDIUM DUTY**

| Part #   | IPTCI Part # | Bore Size |
|----------|--------------|-----------|
| BUCX0516 | UCX05-16     | 1         |
| BUCX0722 | UCX07-22     | 1 3/8     |
| BUCX0723 | UCX07-23     | 1 7/16    |
| BUCX1239 | UCX12-39     | 2 7/16    |
| BUCX1340 | UCX13-40     | 2 1/2     |



**SET SCREW LOCKING • GREASABLE • WIDE INNER RACE • CYLINDRICAL OUTER RACE W/SNAP RING**

| Part #   | IPTCI Part # | Bore Size |
|----------|--------------|-----------|
| BER20412 | ER204-12     | 3/4       |
| BER20514 | ER205-14     | 7/8       |
| BER20722 | ER207-22     | 1 3/8     |



**SET SCREW LOCKING • GREASABLE • NARROW INNER RACE • SPHERICAL OUTER RACE**

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSB20412G | SB204-12G    | 3/4       |
| BSB20514G | SB205-14G    | 7/8       |
| BSB20516G | SB205-16G    | 1         |
| BSB20618G | SB206-18G    | 1 1/8     |
| BSB20619G | SB206-19G    | 1 3/16    |
| BSB20620G | SB206-20G    | 1 1/4     |
| BSB20720G | SB207-20G    | 1 1/4     |





# BEARING INSERTS \*CONTINUED FROM PREVIOUS PAGE

## ECENTRIC LOCKING COLLAR • NON-GREASABLE • NARROW INNER RACE • SPHERICAL OUTER RACE



| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20108N | SA201-8N     | 1/2       |
| BSA20210N | SA202-10N    | 5/8       |
| BSA20412N | SA204-12N    | 3/4       |
| BSA20514N | SA205-14N    | 7/8       |
| BSA20515N | SA205-15N*   | 15/16     |
| BSA20516N | SA205-16N    | 1         |
| BSA20617N | SA206-17N*   | 1 1/16    |
| BSA20618N | SA206-18N    | 1 1/8     |
| BSA20619N | SA206-19N    | 1 3/16    |
| BSA20620N | SA206-20N    | 1 1/4     |
| BSA20720N | SA207-20N    | 1 1/4     |

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20721N | SA207-21N*   | 1 5/16    |
| BSA20722N | SA207-22N    | 1 3/8     |
| BSA20723N | SA207-23N    | 1 7/16    |
| BSA20824N | SA208-24N    | 1 1/2     |
| BSA20926N | SA209-26N    | 1 5/8     |
| BSA20928N | SA209-28N    | 1 3/4     |
| BSA21030N | SA210-30N*   | 1 7/8     |
| BSA21031N | SA210-31N    | 1 15/16   |
| BSA21032N | SA210-32N    | 2         |
| BSA21132N | SA211-32N    | 2         |

\*IPTCI brand not available. We stock Dura Roll brand.

| Part #     | Fafnir Part # | Bore Size |
|------------|---------------|-----------|
| BFRA100RRB | RA100RRB*     | 1         |

\*These are Fafnir brand. They are the equivalent of the IPTCI SA205-16N.

## ECENTRIC LOCKING COLLAR • GREASABLE • NARROW INNER RACE • SPHERICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20412G | SA204-12G    | 3/4       |
| BSA20514G | SA205-14G    | 7/8       |
| BSA20516G | SA205-16G    | 1         |
| BSA20617G | SA206-17G    | 1 1/16    |
| BSA20618G | SA206-18G    | 1 1/8     |
| BSA20619G | SA206-19G    | 1 3/16    |
| BSA20620G | SA206-20G    | 1 1/4     |
| BSA20720G | SA207-20G    | 1 1/4     |
| BSA20721G | SA207-21G    | 1 5/16    |

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSA20722G | SA207-22G    | 1 3/8     |
| BSA20723G | SA207-23G    | 1 7/16    |
| BSA20824G | SA208-24G    | 1 1/2     |
| BSA20926G | SA209-26G    | 1 5/8     |
| BSA20928G | SA209-28G    | 1 3/4     |
| BSA21030G | SA210-30G    | 1 7/8     |
| BSA21031G | SA210-31G    | 1 15/16   |
| BSA21032G | SA210-32G    | 2         |

## ECENTRIC LOCKING COLLAR • NON-GREASABLE • NARROW INNER RACE • CYLINDRICAL OUTER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BCSA20108 | CSA201-8     | 1/2       |
| BCSA20210 | CSA202-10    | 5/8       |
| BCSA20412 | CSA204-12    | 3/4       |
| BCSA20514 | CSA205-14    | 7/8       |
| BCSA20516 | CSA205-16    | 1         |
| BCSA20618 | CSA206-18    | 1 1/8     |
| BCSA20619 | CSA206-19    | 1 3/16    |
| BCSA20620 | CSA206-20    | 1 1/4     |
| BCSA20720 | CSA207-20    | 1 1/4     |
| BCSA20722 | CSA207-22    | 1 3/8     |
| BCSA20723 | CSA207-23    | 1 7/16    |
| BCSA20824 | CSA208-24    | 1 1/2     |



POWER TRANSMISSION

# HOUSINGS

## PILLOW BLOCKS

| Part # | IPTCI Part # |
|--------|--------------|
| BP203  | P203         |
| BP204  | P204         |
| BP205  | P205         |
| BP206  | P206         |
| BP207  | P207         |
| BP208  | P208         |
| BP209  | P209         |
| BP210  | P210         |
| BP211  | P211         |
| BP212  | P212         |
| BP213  | P213         |
| BP214  | P214         |
| BP215  | P215         |



## 4 HOLE FLANGES

| Part # | IPTCI Part # |
|--------|--------------|
| BNF203 | NF203        |
| BNF204 | NF204        |
| BNF205 | NF205        |
| BNF206 | NF206        |
| BNF207 | NF207        |
| BNF208 | NF208        |
| BNF209 | NF209        |
| BNF210 | NF210        |
| BNF211 | NF211        |
| BNF212 | NF212        |
| BNF213 | NF213        |
| BNF214 | NF214        |
| BNF215 | NF215        |



## 2 HOLE FLANGES

| Part #  | IPTCI Part # |
|---------|--------------|
| BNFL203 | NFL203       |
| BNFL204 | NFL204       |
| BNFL205 | NFL205       |
| BNFL206 | NFL206       |
| BNFL207 | NFL207       |
| BNFL208 | NFL208       |
| BNFL209 | NFL209       |
| BNFL210 | NFL210       |
| BNFL211 | NFL211       |



## TAKE UP HOUSINGS

| Part # | IPTCI Part # |
|--------|--------------|
| BT204  | T204         |
| BT205  | T205         |
| BT206  | T206         |
| BT207  | T207         |
| BT208  | T208         |
| BT209  | T209         |
| BT210  | T210         |
| BT211  | T211         |



## 3 HOLE FLANGES

| Part #    | IPTCI Part # |
|-----------|--------------|
| BRFB204H4 | RFB204 G H4  |
| BRFB205H4 | RFB205 G H4  |
| BRFB206H4 | RFB206 G H4  |
| BRFB207H4 | RFB207 G H4  |



## 2 HOLE FLANGES

| Part #   | IPTCI Part # |
|----------|--------------|
| BLF203H4 | LF203 G H4   |
| BLF204H4 | LF204 G H4   |
| BLF205H4 | LF205 G H4   |
| BLF206H4 | LF206 G H4   |
| BLF207H4 | LF207 G H4   |



# ECCENTRIC LOCKING COLLARS & COMPLETE BEARINGS

POWER TRANSMISSION

## ECCENTRIC LOCKING COLLARS

| Part #  | IPTCI Part # |
|---------|--------------|
| BA20108 | A201-8       |
| BA20210 | A202-10      |
| BA20412 | A204-12      |
| BA20514 | A205-14      |
| BA20515 | A205-15      |
| BA20516 | A205-16      |
| BA20619 | A206-19      |
| BA20620 | A206-20      |
| BA20720 | A207-20      |
| BA20722 | A207-22      |
| BA20723 | A207-23      |
| BA20824 | A208-24      |
| BA20926 | A209-26      |
| BA20928 | A209-28      |
| BA21030 | A210-30      |
| BA21031 | A210-31      |
| BA21132 | A211-32      |



## COMPLETE BEARINGS

**PILLOW BLOCK • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE**



| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCP20412 | UCP204-12    | 3/4       |
| BUCP20514 | UCP205-14    | 7/8       |
| BUCP20516 | UCP205-16    | 1         |
| BUCP20620 | UCP206-20    | 1 1/4     |
| BUCP20720 | UCP207-20    | 1 1/4     |
| BUCP21031 | UCP210-31    | 1 15/16   |

**PILLOW BLOCK • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE**

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BNAP20210 | NAP202-10    | 5/8       |
| BNAP20412 | NAP204-12    | 3/4       |
| BNAP20514 | NAP205-14    | 7/8       |
| BNAP20516 | NAP205-16    | 1         |
| BNAP20618 | NAP206-18    | 1 1/8     |
| BNAP20619 | NAP206-19    | 1 3/16    |
| BNAP20620 | NAP206-20    | 1 1/4     |
| BNAP20720 | NAP207-20    | 1 1/4     |
| BNAP20722 | NAP207-22    | 1 3/8     |

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BNAP20723 | NAP207-23    | 1 7/16    |
| BNAP20824 | NAP208-24    | 1 1/2     |
| BNAP20926 | NAP209-26    | 1 5/8     |
| BNAP20928 | NAP209-28    | 1 3/4     |
| BNAP21031 | NAP210-31    | 1 15/16   |
| BNAP21132 | NAP211-32    | 2         |
| BNAP21135 | NAP211-35    | 2 3/16    |
| BNAP21239 | NAP212-39    | 2 7/16    |
| BNAP21340 | NAP213-40    | 2 1/2     |

# COMPLETE BEARINGS

## PILLOW BLOCK • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE • TRIPLE LIP SEAL

| Part #      | IPTCI Part # | Bore Size |
|-------------|--------------|-----------|
| BNAP20516L3 | NAP205-16 L3 | 1         |

## PILLOW BLOCK • SET SCREW LOCKING • GREASABLE • NARROW INNER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BSBP20210 | SBP202-10    | 5/8       |

## 4 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCF20618 | UCF206-18    | 1 1/8     |
| BUCF20720 | UCF207-20    | 1 1/4     |
| BUCF21032 | UCF210-32    | 2         |

## 4 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BNANF20516 | NANF20516    | 1         |
| BNANF20720 | NANF20720    | 1 1/4     |
| BNANF21132 | NANF21132    | 2         |

## 2 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUCFL20412 | UCFL204-12   | 3/4       |
| BUCFL20514 | UCFL205-14   | 7/8       |

## 2 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #      | IPTCI Part # | Bore Size |
|-------------|--------------|-----------|
| BNANFL20412 | NANFL20412   | 3/4       |
| BNANFL20516 | NANFL20516   | 1         |
| BNANFL20824 | NANFL20824   | 1 1/2     |

## HANGER UNIT • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #     | IPTCI Part # | Bore Size |
|------------|--------------|-----------|
| BUCHA20824 | UCHA208-24   | 1 1/2     |

## TAKE UP HOUSING • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | IPTCI Part # | Bore Size |
|-----------|--------------|-----------|
| BUCT20618 | UCT206-18    | 1 1/8     |
| BUCT20720 | UCT207-20    | 1 1/4     |

# PREMIUM MOUNTED BEARINGS

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POWER TRANSMISSION



AMI Bearings are premium quality Japanese made bearings. They feature the broadest possible combination of over 50,000 unique mounted ball bearings. Their products are of the highest quality and are manufactured to exacting standards to out perform in even the most critical applications. Lead time on AMI bearings is 1-2 days.

# ECONOMY MOUNTED BEARINGS

Economy Mounted Bearing housing dimensions vary slightly from dimensions for IPTCI bearings. If you need an exact measurement for these please give us a call. Discounts for economy bearings come at 50 pieces and 100 pieces.



## PILLOW BLOCK • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #   | Bearing # | Bore Size |
|----------|-----------|-----------|
| BMC40210 | UCP202-10 | 5/8       |
| BMC40412 | UCP204-12 | 3/4       |
| BMC40514 | UCP205-14 | 7/8       |
| BMC40515 | UCP205-15 | 15/16     |
| BMC40516 | UCP205-16 | 1         |
| BMC40618 | UCP206-18 | 1 1/8     |

| Part #   | Bearing # | Bore Size |
|----------|-----------|-----------|
| BMC40619 | UCP206-19 | 1 3/16    |
| BMC40620 | UCP206-20 | 1 1/4     |
| BMC40720 | UCP207-20 | 1 1/4     |
| BMC40722 | UCP207-22 | 1 3/8     |
| BMC40723 | UCP207-23 | 1 7/16    |
| BMC40824 | UCP208-24 | 1 1/2     |

## PILLOW BLOCK • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #   | Bearing #     | Bore Size |
|----------|---------------|-----------|
| BIP10210 | UELPHCP202-10 | 5/8       |
| BIP10412 | UELPHCP204-12 | 3/4       |
| BIP10514 | UELPHCP205-14 | 7/8       |
| BIP10516 | UELPHCP205-16 | 1         |
| BIP10618 | UELPHCP206-18 | 1 1/8     |

| Part #   | Bearing #     | Bore Size |
|----------|---------------|-----------|
| BIP10620 | UELPHCP206-20 | 1 1/4     |
| BIP10720 | UELPHCP207-20 | 1 1/4     |
| BIP10722 | UELPHCP207-22 | 1 3/8     |
| BIP10824 | UELPHCP208-24 | 1 1/2     |

## 4 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #   | Bearing # | Bore Size |
|----------|-----------|-----------|
| BMF40210 | UCF202-10 | 5/8       |
| BMF40412 | UCF204-12 | 3/4       |
| BMF40514 | UCF205-14 | 7/8       |
| BMF40515 | UCF205-15 | 15/16     |
| BMF40516 | UCF205-16 | 1         |
| BMF40618 | UCF206-18 | 1 1/8     |

| Part #   | Bearing # | Bore Size |
|----------|-----------|-----------|
| BMF40619 | UCF206-19 | 1 3/16    |
| BMF40620 | UCF206-20 | 1 1/4     |
| BMF40720 | UCF207-20 | 1 1/4     |
| BMF40722 | UCF207-22 | 1 3/8     |
| BMF40824 | UCF208-24 | 1 1/2     |

## 4 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #    | Bearing #        | Bore Size |
|-----------|------------------|-----------|
| BIFS10412 | UELFS/HCFS204-12 | 3/4       |
| BIFS10514 | UELFS/HCFS205-14 | 7/8       |
| BIFS10516 | UELFS/HCFS205-16 | 1         |
| BIF50617  | SAF206-17G*      | 1 1/16    |
| BIFS10618 | UELFS/HCFS206-18 | 1 1/8     |

| Part #    | Bearing #        | Bore Size |
|-----------|------------------|-----------|
| BIFS10620 | UELFS/HCFS206-20 | 1 1/4     |
| BIFS10720 | UELFS/HCFS207-20 | 1 1/4     |
| BIFS10722 | UELFS/HCFS207-22 | 1 3/8     |
| BIFS10824 | UELFS/HCFS208-24 | 1 1/2     |

# ECONOMY MOUNTED BEARINGS & STAMPED FLANGES

## ECONOMY MOUNTED BEARINGS

### 2 HOLE FLANGE • SET SCREW LOCKING • GREASABLE • WIDE INNER RACE

| Part #    | Bearing #  | Bore Size |
|-----------|------------|-----------|
| BMFL40210 | UCFL202-10 | 5/8       |
| BMFL40412 | UCFL204-12 | 3/4       |
| BMFL40514 | UCFL205-14 | 7/8       |
| BMFL40516 | UCFL205-16 | 1         |
| BMFL40618 | UCFL206-18 | 1 1/8     |

| Part #    | Bearing #  | Bore Size |
|-----------|------------|-----------|
| BMFL40620 | UCFL206-20 | 1 1/4     |
| BMFL40720 | UCFL207-20 | 1 1/4     |
| BMFL40722 | UCFL207-22 | 1 3/8     |
| BMFL40824 | UCFL208-24 | 1 1/2     |

### 2 HOLE FLANGE • ECCENTRIC LOCKING COLLAR • GREASABLE • WIDE INNER RACE

| Part #    | Bearing #        | Bore Size |
|-----------|------------------|-----------|
| BIFT10412 | UELFT/HCFT204-12 | 3/4       |
| BIFT10514 | UELFT/HCFT205-14 | 7/8       |
| BIFT10516 | UELFT/HCFT205-16 | 1         |
| BIFT10618 | UELFT/HCFT206-18 | 1 1/8     |

| Part #    | Bearing #        | Bore Size |
|-----------|------------------|-----------|
| BIFT10620 | UELFT/HCFT206-20 | 1 1/4     |
| BIFT10720 | UELFT/HCFT207-20 | 1 1/4     |
| BIFT10722 | UELFT/HCFT207-22 | 1 3/8     |
| BIFT10824 | UELFT/HCFT208-24 | 1 1/2     |

## STAMPED FLANGES

Stamped Flanges are sold by the piece with the exception of pillow blocks. Two pieces are needed to make one housing unit with the exception of flush mount housings.

### 2 HOLE FLANGES



| Part #  | Size | Overall Length | Overall Width | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|------|----------------|---------------|--------------------------------|--------------------|-----------|
| BFL2H40 | 40MM | 3 3/16         | 2 5/16        | 2 1/2                          | 0.075              | 9/32      |
| BFL2H47 | 47MM | 3 9/16         | 2 5/8         | 2 13/16                        | 0.083              | 11/32     |
| BFL2H52 | 52MM | 3 3/4          | 2 51/64       | 3                              | 0.083              | 11/32     |
| BFL2H62 | 62MM | 4 7/16         | 3 5/16        | 3 9/16                         | 0.104              | 13/32     |
| BFL2H72 | 72MM | 4 15/16        | 3 11/16       | 3 15/16                        | 0.104              | 13/32     |

### 2 HOLE FLUSH MOUNT FLANGES

Flush Mount Flanges are designed to be used with bearings that have a cylindrical OD and are not self aligning.



| Part #  | Size | Overall Length | Overall Width | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|------|----------------|---------------|--------------------------------|--------------------|-----------|
| BFLFM40 | 40MM | 3 3/16         | 2 5/16        | 2 1/2                          | 0.074              | 9/32      |
| BFLFM47 | 47MM | 3 9/16         | 2 5/8         | 2 13/16                        | 0.074              | 11/32     |
| BFLFM52 | 52MM | 3 3/4          | 2 51/64       | 3                              | 0.074              | 11/32     |



# STAMPED FLANGES

## PILLOW BLOCKS

Pillow Blocks are sold as a complete set only.



| Part # | Size | Overall Length | Center to Center on Bolt Holes | Width | Height to Center of Shaft | Overall Height | Hole Size |
|--------|------|----------------|--------------------------------|-------|---------------------------|----------------|-----------|
| BFLP47 | 47MM | 4 1/8          | 3                              | 1     | 1                         | 2 1/16         | 13/32     |
| BFLP52 | 52MM | 4 1/2          | 3 3/8                          | 1 1/8 | 1 1/8                     | 2 7/32         | 13/32     |
| BFLP62 | 62MM | 4 7/8          | 3 3/4                          | 1 1/8 | 1 5/16                    | 2 5/8          | 13/32     |
| BFLP72 | 72MM | 5 3/4          | 4 1/4                          | 1 1/4 | 1 9/16                    | 3 1/8          | 17/32     |

## 3 HOLE OR 4 HOLE ROUND FLANGES



| Part #  | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|---------|-------|----------------------|---------|--------------------------------|--------------------|-----------|
| BFLR40  | 40MM  | 3                    | 3 3/16  | 2 1/2                          | 0.075              | 9/32      |
| BFLR47  | 47MM  | 3                    | 3 9/16  | 2 13/16                        | 0.083              | 11/32     |
| BFLR52  | 52MM  | 3                    | 3 3/4   | 3                              | 0.083              | 11/32     |
| BFLR62  | 62MM  | 3                    | 4 7/16  | 3 9/16                         | 0.104              | 13/32     |
| BFLR72  | 72MM  | 3                    | 4 13/16 | 3 15/16                        | 0.104              | 13/32     |
| BFLR724 | 72MM  | 4                    | 4 13/16 | 3 15/16                        | 0.104              | 13/32     |
| BFLR80  | 80MM  | 4                    | 5 13/16 | 4 11/16                        | 0.134              | 17/32     |
| BFLR85  | 85MM  | 4                    | 5 7/8   | 4 3/4                          | 0.134              | 17/32     |
| BFLR90  | 90MM  | 4                    | 6 1/8   | 5                              | 0.149              | 17/32     |
| BFLR100 | 100MM | 4                    | 6 9/16  | 5 7/16                         | 0.149              | 17/32     |

\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

## HEAVY 3 HOLE OR 4 HOLE ROUND FLANGES

Heavy Round Flanges are made with a grease ring and are designed as the mating flange for the flanges with zerks.



| Part #   | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|----------|-------|----------------------|---------|--------------------------------|--------------------|-----------|
| BFLRH52  | 52MM  | 3                    | 3 3/4   | 3                              | 0.134              | 11/32     |
| BFLRH62  | 62MM  | 3                    | 4 7/16  | 3 9/16                         | 0.134              | 13/32     |
| BFLRH72  | 72MM  | 3                    | 4 13/16 | 3 15/16                        | 0.134              | 13/32     |
| BFLRH80  | 80MM  | 4                    | 5 13/16 | 4 11/16                        | 0.149              | 17/32     |
| BFLRH85  | 85MM  | 4                    | 5 7/8   | 4 3/4                          | 0.149              | 17/32     |
| BFLRH90  | 90MM  | 4                    | 6 1/8   | 5                              | 0.164              | 17/32     |
| BFLRH100 | 100MM | 4                    | 6 9/16  | 5 7/16                         | 0.164              | 17/32     |

\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

# STAMPED FLANGES

## GREASABLE 3 HOLE OR 4 HOLE ROUND FLANGES

Greasable Round Flanges come with a zerk built into them. For the mating flange use a heavy round flange.



| Part #   | Size  | Number of Bolt Holes | OD      | Center to Center on Bolt Holes | Material Thickness | Hole Size |
|----------|-------|----------------------|---------|--------------------------------|--------------------|-----------|
| BFLRZ52  | 52MM  | 3                    | 3 3/4   | 3                              | 0.134              | 11/32     |
| BFLRZ62  | 62MM  | 3                    | 4 7/16  | 3 9/16                         | 0.134              | 13/32     |
| BFLRZ72  | 72MM  | 3                    | 4 13/16 | 3 15/16                        | 0.134              | 13/32     |
| BFLRZ80  | 80MM  | 4                    | 5 13/16 | 4 11/16                        | 0.149              | 17/32     |
| BFLRZ85  | 85MM  | 4                    | 5 7/8   | 4 3/4                          | 0.149              | 17/32     |
| BFLRZ90  | 90MM  | 4                    | 6 1/8   | 5                              | 0.164              | 17/32     |
| BFLRZ100 | 100MM | 4                    | 6 9/16  | 5 7/16                         | 0.164              | 17/32     |

\*The measurement for the center to center on the bolt holes for 3 hole round flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

## 3 HOLE TRIANGULAR FLANGES



| Part # | Size | Height  | Center to Center on Bolt Holes* | Material Thickness | Hole Size |
|--------|------|---------|---------------------------------|--------------------|-----------|
| BFLT40 | 40MM | 2 23/32 | 2 1/2                           | 0.075              | 9/32      |
| BFLT47 | 47MM | 3       | 2 13/16                         | 0.083              | 11/32     |
| BFLT52 | 52MM | 3 1/8   | 3                               | 0.083              | 11/32     |
| BFLT62 | 62MM | 3 11/16 | 3 9/16                          | 0.104              | 13/32     |
| BFLT72 | 72MM | 4 5/32  | 3 15/16                         | 0.104              | 13/32     |

\*The measurement for the center to center on the bolt holes for 3 hole triangular flanges is made by drawing a circle through the center of the bolt holes and then measuring the diameter of the circle.

# RADIAL BALL BEARINGS

Radial Bearings come in many types and sizes. 2rs indicates a bearing with rubber seals and ZZ indicates a bearing with metal shields. These bearings come standard with a C0 fit but for high speed applications designate a C3 fit. Discounts come at 10 pieces and 50 pieces.



## RUBBER SEALS BOTH SIDES • METRIC SIZES

| Part #    | Bearing # | Bearing OD | Bearing ID | Bearing Width  |
|-----------|-----------|------------|------------|----------------|
| B606-2RS  | 606-2RS   | 17.0       | 6.0        | 6.0            |
| B607-2RS  | 607-2RS   | 19.0       | 7.0        | 6.0            |
| B608-2RS  | 608-2RS   | 22.0       | 8.0        | 7.0            |
| B626-2RS  | 626-2RS   | 19.0       | 6.0        | 6.0            |
| B627-2RS  | 627-2RS   | 22.0       | 7.0        | 7.0            |
| B5202-2RS | 5202-2RS  | 35.0       | 15.0       | 15.875/0.6250" |
| B5203-2RS | 5203-2RS  | 40.0       | 17.0       | 17.463/0.6875" |
| B5304-2RS | 5304-2RS  | 52.0       | 20.0       | 22.200/0.8750" |
| B6000-2RS | 6000-2RS  | 26.0       | 10.0       | 8.0            |
| B6001-2RS | 6001-2RS  | 28.0       | 12.0       | 8.0            |
| B6002-2RS | 6002-2RS  | 32.0       | 15.0       | 9.0            |
| B6003-2RS | 6003-2RS  | 35.0       | 17.0       | 10.0           |
| B6004-2RS | 6004-2RS  | 42.0       | 20.0       | 12.0           |
| B6005-2RS | 6005-2RS  | 47.0       | 25.0       | 12.0           |
| B6006-2RS | 6006-2RS  | 55.0       | 30.0       | 13.0           |
| B6007-2RS | 6007-2RS  | 62.0       | 35.0       | 14.0           |
| B6008-2RS | 6008-2RS  | 68.0       | 40.0       | 15.0           |
| B6009-2RS | 6009-2RS  | 75.0       | 45.0       | 16.0           |
| B6010-2RS | 6010-2RS  | 80.0       | 50.0       | 16.0           |
| B6012-2RS | 6012-2RS  | 95.0       | 60.0       | 18.0           |
| B6200-2RS | 6200-2RS  | 30.0       | 10.0       | 9.0            |
| B6201-2RS | 6201-2RS  | 32.0       | 12.0       | 10.0           |
| B6202-2RS | 6202-2RS  | 35.0       | 15.0       | 11.0           |
| B6203-2RS | 6203-2RS  | 40.0       | 17.0       | 12.0           |
| B6204-2RS | 6204-2RS  | 47.0       | 20.0       | 14.0           |
| B6205-2RS | 6205-2RS  | 52.0       | 25.0       | 15.0           |
| B6206-2RS | 6206-2RS  | 62.0       | 30.0       | 16.0           |
| B6207-2RS | 6207-2RS  | 72.0       | 35.0       | 17.0           |

| Part #      | Bearing #       | Bearing OD | Bearing ID  | Bearing Width |
|-------------|-----------------|------------|-------------|---------------|
| B6208-2RS   | 6208-2RS        | 80.0       | 40.0        | 18.0          |
| B6209-2RS   | 6209-2RS        | 85.0       | 45.0        | 19.0          |
| B6210-2RS   | 6210-2RS        | 90.0       | 50.0        | 20.0          |
| B6211-2RS   | 6211-2RS        | 100.0      | 55.0        | 21.0          |
| B6212-2RS   | 6212-2RS        | 110.0      | 60.0        | 22.0          |
| B6301-2RS   | 6301-2RS        | 37.0       | 12.0        | 12.0          |
| B6302-2RS   | 6302-2RS        | 42.0       | 15.0        | 13.0          |
| B6303-2RS   | 6303-2RS        | 47.0       | 17.0        | 14.0          |
| B6304-2RS   | 6304-2RS        | 52.0       | 20.0        | 15.0          |
| B6305-2RS   | 6305-2RS        | 62.0       | 25.0        | 17.0          |
| B6306-2RS   | 6306-2RS        | 72.0       | 30.0        | 19.0          |
| B6307-2RS   | 6307-2RS        | 80.0       | 35.0        | 21.0          |
| B6308-2RS   | 6308-2RS        | 90.0       | 40.0        | 23.0          |
| B6309-2RS   | 6309-2RS        | 100.0      | 45.0        | 25.0          |
| B6310-2RS   | 6310-2RS        | 110.0      | 50.0        | 27.0          |
| B6311-2RS   | 6311-2RS        | 120.0      | 55.0        | 29.0          |
| B6312-2RS   | 6312-2RS        | 130.0      | 60.0        | 31.0          |
| B6903-2RS   | 6903-2RS        | 30.0       | 17.0        | 7.0           |
| B6905-2RS   | 6905-2RS        | 42.0       | 25.0        | 9.0           |
| B6908-2RS   | 6908-2RS        | 62.0       | 40.0        | 12.0          |
| B6202-2RS10 | 6202-2RS X 5/8  | 35.0       | 15.9/0.625" | 11.0          |
| B6202-2RS16 | 6202-2RS X 16MM | 35.0       | 16.0        | 11.0          |
| B6203-2RS08 | 6203-2RS X 1/2  | 40.0       | 12.7/0.500" | 12.0          |
| B6203-2RS10 | 6203-2RS X 5/8  | 40.0       | 15.9/0.625" | 12.0          |
| B6203-2RS12 | 6203-2RS X 3/4  | 40.0       | 19.1/0.750" | 12.0          |
| B6204-2RS12 | 6204-2RS X 3/4  | 47.0       | 19.1/0.750" | 14.0          |
| B6205-2RS16 | 6205-2RS X 1    | 52.0       | 25.4/1.000" | 15.0          |

# RADIAL BALL BEARINGS & WHEEL BARROW BEARINGS

## RUBBER SEALS BOTH SIDES • IMPERIAL SIZES

POWER TRANSMISSION

| Part #    | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|-----------|-----------|------------|------------|---------------|
| B1603-2RS | 1603-2RS  | 0.8750     | 0.3125     | 0.3438        |
| B1605-2RS | 1605-2RS  | 0.9063     | 0.3125     | 0.3125        |
| B1607-2RS | 1607-2RS  | 0.9063     | 0.4375     | 0.3125        |
| B1615-2RS | 1615-2RS  | 1.1250     | 0.4375     | 0.3750        |
| B1616-2RS | 1616-2RS  | 1.1250     | 0.5000     | 0.3750        |
| B1621-2RS | 1621-2RS  | 1.3750     | 0.5000     | 0.4375        |
| B1622-2RS | 1622-2RS  | 1.3750     | 0.5625     | 0.4375        |
| B1623-2RS | 1623-2RS  | 1.3750     | 0.6250     | 0.4375        |
| B1628-2RS | 1628-2RS  | 1.6250     | 0.6250     | 0.5000        |
| B1630-2RS | 1630-2RS  | 1.6250     | 0.7500     | 0.5000        |
| B1633-2RS | 1633-2RS  | 1.7500     | 0.6250     | 0.5000        |
| B1635-2RS | 1635-2RS  | 1.7500     | 0.7500     | 0.5000        |
| B1638-2RS | 1638-2RS  | 2.0000     | 0.7500     | 0.5625        |

| Part #    | Bearing # | Bearing OD | Bearing ID | Bearing Width |
|-----------|-----------|------------|------------|---------------|
| B1640-2RS | 1640-2RS  | 2.0000     | 0.8750     | 0.5625        |
| B1641-2RS | 1641-2RS  | 2.0000     | 1.0000     | 0.5625        |
| B1652-2RS | 1652-2RS  | 2.5000     | 1.1250     | 0.6250        |
| B1654-2RS | 1654-2RS  | 2.5000     | 1.2500     | 0.6250        |
| B1657-2RS | 1657-2RS  | 2.5625     | 1.2500     | 0.6875        |
| BR3-2RS   | R3-2RS    | 0.5000     | 0.1880     | 0.1560        |
| BR4-2RS   | R4-2RS    | 0.6250     | 0.2500     | 0.1960        |
| BR6-2RS   | R6-2RS    | 0.8750     | 0.3750     | 0.2810        |
| BR8-2RS   | R8-2RS    | 1.1250     | 0.5000     | 0.3130        |
| BR10-2RS  | R10-2RS   | 1.3750     | 0.6250     | 0.3440        |
| BR12-2RS  | R12-2RS   | 1.6250     | 0.7500     | 0.4380        |
| BR16-2RS  | R16-2RS   | 2.0000     | 1.0000     | 0.5000        |
| BR20-2RS  | R20-2RS   | 2.2500     | 1.2500     | 0.5000        |

## WHEEL BARROW BEARINGS

Wheel Barrow Bearings are designed for use in wheel barrow and other similar wheels. Price breaks are at 10 pieces and 50 pieces.



## PRECISION GROUND • RUBBER SEALS BOTH SIDES

| Part # | Size        | Flange OD | Bearing Width | Width of Inner Race |
|--------|-------------|-----------|---------------|---------------------|
|        | ID X OD     |           |               |                     |
| BWBP08 | 1/2 X 1 3/8 | 1.500     | 0.438         | 0.510               |
| BWBP10 | 5/8 X 1 3/8 | 1.500     | 0.438         | 0.510               |
| BWBP12 | 3/4 X 1 3/8 | 1.500     | 0.438         | 0.510               |

## UNGROUND • METAL SHIELDED

| Part #  | Size        | Flange OD | Bearing Width | Width of Inner Race |
|---------|-------------|-----------|---------------|---------------------|
|         | ID X OD     |           |               |                     |
| BWB0618 | 3/8 X 1 1/8 | 1.25      | 0.344         | 0.438               |
| BWB0818 | 1/2 X 1 1/8 | 1.25      | 0.344         | 0.438               |
| BWB08   | 1/2 X 1 3/8 | 1.50      | 0.422         | 0.525               |
| BWB10   | 5/8 X 1 3/8 | 1.50      | 0.422         | 0.525               |
| BWB12   | 3/4 X 1 3/8 | 1.50      | 0.344         | 0.525               |

# WHEEL BEARINGS

Tapered Roller Bearings are also known as wheel bearings. They are designed to accommodate combined loads such as radial and axial loads.



| Part #         | Bearing #        | ID     | OD     | Thickness |
|----------------|------------------|--------|--------|-----------|
| BTRLM11749/10  | A-1 LM11749/10   | 0.6875 | 1.57   | 0.545     |
| BTRLM11949/10  | A-2 LM11949/10   | 0.75   | 1.781  | 0.61      |
| BTRM12649/10   | A-3 M12649/10    | 0.8437 | 1.9687 | 0.69      |
| BTRLM12749/10  | A-12 LM12749/10  | 0.8656 | 1.781  | 0.61      |
| BTRL44643/10   | A-14 L44643/10   | 1      | 1.98   | 0.56      |
| BTRL44649/10   | A-4 L44649/10    | 1.0625 | 1.98   | 0.56      |
| BTRLM67048     | LM67048          | 1.25   | -      | -         |
| BTRLM67048/10  | A-6 LM67048/10   | 1.25   | 2.328  | 0.625     |
| BTRLM67010     | LM67010          | -      | 2.328  | 0.625*    |
| BTRLM48548/10  | A-5 LM48548/10   | 1.375  | 2.5625 | 0.71      |
| BTRLM48510     | LM48510          | -      | 2.5625 | 0.71*     |
| BTRL68149/11   | A-17 L68149/11   | 1.3775 | 2.3612 | 0.625     |
| BTRJL69349     | JL69349          | 1.4961 | -      | -         |
| BTRJL69349/10  | A-18 JL69349/10  | 1.4961 | 2.4803 | 0.6693    |
| BTRJL69310     | JL69310          | -      | 2.4803 | 0.6693*   |
| BTRLM29748/10  | A-81 LM29748/10  | 1.5    | 2.5625 | 0.71      |
| BTRLM29749     | LM29749          | 1.5    | -      | -         |
| BTRLM29710     | LM29710          | -      | 2.5625 | 0.71*     |
| BTRLM501349    | LM501349         | 1.625  | -      | -         |
| BTRLM501310    | LM501310         | -      | 2.891  | 0.77*     |
| BTRLM102949    | LM102949         | 1.7812 | -      | -         |
| BTRLM102949/10 | A-80 LM102949/10 | 1.7812 | 2.891  | 0.77      |
| BTRLM102910    | LM102910         | -      | 2.891  | 0.77*     |
| BTRLM603049    | LM603049         | 1.7812 | -      | -         |
| BTRLM603011    | LM603011         | -      | 3.0625 | 0.7812*   |
| BTRLM603049/11 | A-37 LM603049/11 | 1.7812 | 3.0625 | 0.7812    |
| BTRLM603049/12 | A-36 LM603049/12 | 1.7812 | 3.0625 | 0.8437    |
| BTRJLM104948   | JLM104948        | 1.9685 | -      | -         |
| BTRLM104949    | LM104949         | 2      | -      | -         |
| BTRJLM104910   | JLM104910        | -      | 3.2283 | .8465*    |
| BTRLM104911    | LM104911         | -      | 3.2283 | 0.85*     |

# DISC & HARROW BEARINGS

Disc & Harrow Bearings feature a triple lip seal because they are typically used in dusty, dirty environments.



## CYLINDRICAL OUTER RACE • NON-GREASABLE

| Part #    | Bearing # | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|-----------|-----------|--------------|------------|---------------------|---------------------|
| BW208PP5  | W208PP5   | 1 1/8 SQUARE | 3.150      | 1.438               | 0.709               |
| BW208PP8  | W208PP8   | 1 1/8 SQUARE | 3.150      | 1.438               | 1.188               |
| BW208PP10 | W208PP10  | 1.501 ROUND  | 3.150      | 1.688               | 0.827               |
| BW211PP3  | W211PP3   | 1 1/2 SQUARE | 3.937      | 1.312               | 1.312               |



## SPHERICAL OUTER RACE • NON-GREASABLE

| Part #     | Bearing # | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|------------|-----------|--------------|------------|---------------------|---------------------|
| BW208PPB5  | W208PPB5  | 1 1/8 SQUARE | 3.15       | 1.438               | 0.709               |
| BW208PPB6  | W208PPB6  | 1 SQUARE     | 3.15       | 1.438               | 0.709               |
| BW208PPB7  | W208PPB7  | 1.188 ROUND  | 3.15       | 1.188               | 0.709               |
| BW208PPB8  | W208PPB8  | 1 1/8 SQUARE | 3.15       | 1.438               | 1.188               |
| BW208PPB12 | W208PPB12 | 1 1/8 SQUARE | 3.376      | 1.438               | 1.188               |
| BW209PPB2  | W209PPB2  | 1.772 ROUND  | 3.347      | 1.188               | 1.188               |
| BW209PPB4  | W209PPB4  | 1.535 ROUND  | 3.347      | 1.188               | 1.188               |
| BW209PPB5  | W209PPB5  | 1 1/4 SQUARE | 3.347      | 1.438               | 1.188               |
| BW210PPB2  | W210PPB2  | 1.938 ROUND  | 3.543      | 1.188               | 1.188               |
| BW210PPB4  | W210PPB4  | 1 1/8 SQUARE | 3.543      | 1.188               | 1.188               |
| BW210PPB5  | W210PPB5  | 1.785 ROUND  | 3.543      | 1.188               | 1.188               |

## SPHERICAL OUTER RACE • GREASABLE

| Part #      | Bearing #  | Shaft Size   | Bearing OD | Width of Inner Race | Width of Outer Race |
|-------------|------------|--------------|------------|---------------------|---------------------|
| BGW208PPB5  | GW208PPB5  | 1 1/8 SQUARE | 3.150      | 1.438               | 0.827               |
| BGW208PPB8  | GW208PPB8  | 1 1/8 SQUARE | 3.150      | 1.438               | 1.188               |
| BGW209PPB2  | GW209PPB2  | 1.772 ROUND  | 3.347      | 1.188               | 1.188               |
| BGW209PPB4  | GW209PPB4  | 1.535 ROUND  | 3.347      | 1.188               | 1.188               |
| BGW209PPB5  | GW209PPB5  | 1 1/4 SQUARE | 3.347      | 1.438               | 1.188               |
| BGW209PPB11 | GW209PPB11 | 1.781 ROUND  | 3.347      | 1.438               | 0.866               |
| BGW210PPB4  | GW210PPB4  | 1 1/8 SQUARE | 3.543      | 1.188               | 1.188               |
| BGW211PPB2  | GW211PPB2  | 2 3/16 ROUND | 3.937      | 1.312               | 1.312               |
| BGW211PPB3  | GW211PPB3  | 1 1/2 SQUARE | 3.937      | 1.312               | 1.312               |

## 4 BOLT FLANGED • NON-GREASABLE

| Part #       | Bearing #      | Shaft Size   | Bolt Center to Center |
|--------------|----------------|--------------|-----------------------|
| BFD209R1-3/4 | FD209R1-3/4    | 1 3/4 SQUARE | 3.536                 |
| BFD209RA     | FD209RA/ST491A | 1 3/4 ROUND  | 3.536                 |

| Part #   | Bearing #      | Shaft Size   | Bolt Center to Center |
|----------|----------------|--------------|-----------------------|
| BFD209RE | FD209RE/ST491B | 1 1/2 ROUND  | 3.536                 |
| BFD209RK | FD209RK        | 1 1/4 SQUARE | 3.536                 |

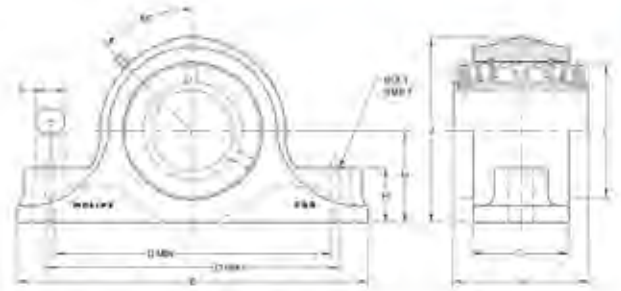
# TYPE E TAPERED ROLLER BEARINGS



## MOLINE BEARING CO.

### FEATURES OF MOLINE TYPE E TAPERED ROLLER BEARINGS WITH TIMKEN® TAPERED ROLLER BEARINGS

- Available in shaft sizes from 1 3/16" to 7", and 35mm to 180mm
- Easy installation and maintenance
- Dimensionally interchangeable with comparable competitive Type E units
- Timken® DEE tapered roller bearing inserts which give higher radial and thrust loads than the competition
- Rugged housings are made in the USA of Class 30 cast iron
- Custom machining and design is available.



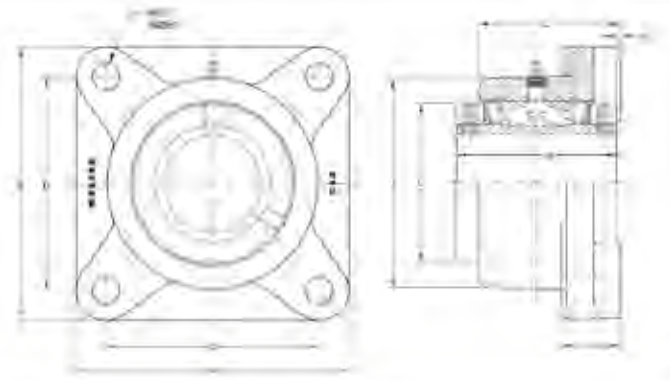
## 2 BOLT PILLOW BLOCKS

| SHAFT SIZE  | MOLINE PART #  | DIMENSIONS (INCHES) |        |       |         |                    |        |       |         |        |         |         | WEIGHT LBS. |     |
|---|--|---------------------|--------|-------|---------|--------------------|--------|-------|---------|--------|---------|---------|-------------|-----|
|   |  | A                   | B      | C     | MIN D   | CENTER TO CENTER D | MAX D  | F     | G       | H      | J       | L       |             | M   |
| 1 3/16<br>1 1/4"  | 19321103<br>19321104   | 2 3/4               | 6      | 1 7/8 | 4 5/8   | 4 3/4              | 4 7/8  | 38    | 19 3/2  | 7/8    | 3       | 2 1/4   | 1 1/2       | 4   |
| 1 3/8<br>1 7/16<br>35 MM                                      | 19321106<br>19321107<br>19321035   | 3                   | 7 3/8  | 2 1/8 | 5       | 5 1/2              | 6      | 12    | 1 1/8   | 1 1/8  | 3 7/8   | 2 3/4   | 1 7/8       | 6.9 |
| 1 1/2<br>1 5/8<br>1 11/16<br>40 MM                            | 19321108<br>19321110<br>19321111<br>19321040                                     | 3 3/8               | 7 7/8  | 2 3/8 | 5 5/8   | 6 1/16             | 6 1/2  | 12    | 1 1/16  | 1 1/4  | 4 1/4   | 3 3/16  | 2 1/8       | 9.5 |
| 1 3/4<br>1 7/8<br>1 15/16<br>2<br>45 MM<br>50 MM              | 19321112<br>19321114<br>19321115<br>19321200<br>19321045<br>19321050             | 3 1/2               | 8 7/8  | 2 1/2 | 6 1/8   | 6 11/16            | 7 1/4  | 58    | 1 5/16  | 1 5/16 | 4 1/2   | 3 3/8   | 2 1/4       | 11  |
| 2 3/16<br>55 MM   | 19321203<br>19321055   | 3 3/4               | 9 5/8  | 2 5/8 | 6 11/16 | 7 3/8              | 8      | 58    | 1 7/16  | 1 1/2  | 5       | 3 3/4   | 2 1/2       | 14  |
| 2 1/4<br>2 7/16<br>2 1/2<br>60 MM<br>65 MM                    | 19321204<br>19321207<br>19321208<br>19321060<br>19321065                         | 4                   | 10 1/2 | 2 7/8 | 7 1/8   | 7 7/8              | 8 5/8  | 1 1/2 | 7/8     | 1 5/8  | 5 11/16 | 4       | 2 3/4       | 19  |
| 2 11/16<br>2 3/4<br>2 15/16<br>3<br>70 MM<br>75 MM            | 19321211<br>19321212<br>19321215<br>19321300<br>19321070<br>19321075             | 4 1/2               | 12     | 3     | 7 7/8   | 8 13/16            | 9 3/4  | 3/4   | 1 13/16 | 1 7/8  | 6 5/16  | 4 11/16 | 3 1/8       | 26  |
| 3 3/16<br>3 1/4<br>3 7/16<br>3 1/2<br>80 MM<br>85 MM<br>90 MM | 19321303<br>19321304<br>19321307<br>19321308<br>19321080<br>19321085<br>19321090 | 5                   | 14     | 3 5/8 | 9 3/4   | 10 5/8             | 11 1/2 | 7/8   | 1 7/8   | 2 1/4  | 7 1/2   | 5 15/16 | 3 3/4       | 44  |

POWER TRANSMISSION

# TYPE E TAPERED ROLLER BEARINGS

POWER TRANSMISSION



## 4 BOLT FLANGES

| SHAFT SIZE                                     | MOLINE PART #  | DIMENSIONS (INCHES) |       |         |       |      |     |        |         |       |             |
|--|--|---------------------|-------|---------|-------|------|-----|--------|---------|-------|-------------|
|  |  | A                   | B     | C       | D     | E    | F   | H      | J       | L     | WEIGHT LBS. |
| 1 3/16<br>1 1/4                                | 19311103<br>19311104   | 2 3/4               | 3 3/4 | 2 11/32 | 2 7/8 | 1/16 | 3/8 | 1      | 2 15/16 | 2 1/4 | 4.5         |
| 1 3/8<br>1 7/16<br>35MM                        | 19311106<br>19311107<br>19311035                                     | 3                   | 4 5/8 | 2 19/32 | 3 1/2 | 1/16 | 1/2 | 1 1/16 | 3 7/8   | 2 3/4 | 6.7         |
| 1 1/2<br>1 5/8<br>1 11/16<br>40MM              | 19311108<br>19311110<br>19311111<br>19311040                         | 3 3/8               | 5 3/8 | 2 31/32 | 4 1/8 | 1/8  | 1/2 | 1 3/16 | 4 1/4   | 3 1/8 | 10          |
| 1 3/4<br>1 7/8<br>1 15/16<br>2<br>45MM<br>50MM | 19311112<br>19311114<br>19311115<br>19311200<br>19311045<br>19311050 | 3 1/2               | 5 5/8 | 3 3/32  | 4 3/8 | 1/8  | 1/2 | 1 3/16 | 4 1/2   | 3 3/8 | 12          |
| 2 3/16<br>55MM                                 | 19311203<br>19311055   | 3 3/4               | 6 1/4 | 3 9/32  | 4 7/8 | 1/8  | 5/8 | 1 3/8  | 4 7/8   | 3 3/4 | 16          |
| 2 1/4<br>2 7/16<br>2 1/2<br>60MM<br>65MM       | 19311204<br>19311207<br>19311208<br>19311060<br>19311065             | 4                   | 6 7/8 | 3 9/16  | 5 3/8 | 3/16 | 5/8 | 1 1/2  | 5 3/4   | 4     | 21          |

Many more sizes and styles available. Call us with your needs!



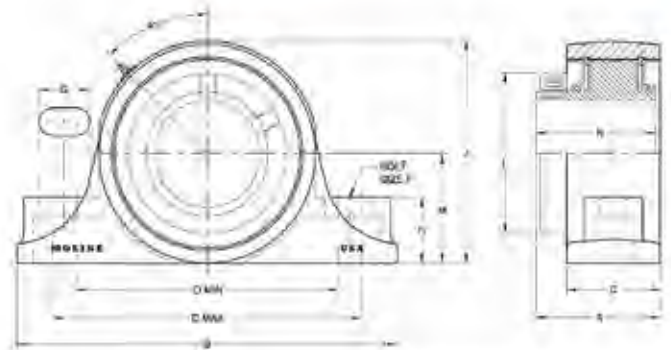
# M2000 TAPERED ROLLER BEARINGS



## MOLINE BEARING CO.

FEATURES OF MOLINE M2000 SPHERICAL ROLLER BEARINGS WITH SKF® OR TIMKEN™ ROLLER BEARINGS

- Available in shaft sizes from 1 3/16 to 5"; and 40 to 130mm
- +/- 1 1/2° misalignment capacity
- Available in Expansion (red tag) and Non-Expansion (yellow tag) styles
- Expansion units have .100" capacity
- Will accommodate moderate thrust loads
- Permits angular misalignment without loss of capacity
- Custom machining and design is available upon request, please call the factory for more information
- Housings are made in the USA of Class 30 cast iron



## 2 BOLT PILLOW BLOCKS

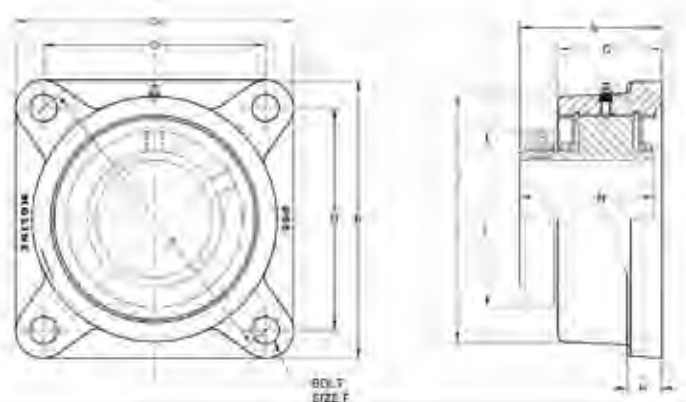
| MOLINE PART # |          |          | DIMENSIONS (INCHES) |        |         |         |                       |         |     |         |        |         |       |       | WEIGHT<br>LBS. |      |
|---------------|----------|----------|---------------------|--------|---------|---------|-----------------------|---------|-----|---------|--------|---------|-------|-------|----------------|------|
| SHAFT<br>SIZE | EXP      | NON-EXP  | A                   | B      | C       | MIN D   | CENTER TO<br>CENTER D | MAX D   | F   | G       | H      | J       | L     | M     |                | N    |
| 1 3/16        | 19121103 | 19221103 |                     |        |         |         |                       |         |     |         |        |         |       |       |                | 6.5  |
| 1 1/4         | 19121104 | 19221104 |                     |        |         |         |                       |         |     |         |        |         |       |       |                | 6.5  |
| 1 7/16        | 19121107 | 19221107 | 2 7/8               | 6 7/8  | 2 3/16  | 4 11/16 | 5                     | 5 5/16  | 1/2 | 15/16   | 1 3/16 | 3 7/8   | 2 1/2 | 1 7/8 | 2 3/4          | 6.9  |
| 1 1/2         | 19121108 | 19221108 |                     |        |         |         |                       |         |     |         |        |         |       |       |                | 6.9  |
| 1 11/16       | 19121111 | 19221111 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 1 3/4         | 19121112 | 19221112 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 40MM          | 19121040 | 19221040 | 3                   | 7 3/8  | 2 3/16  | 5 3/16  | 5 1/2                 | 5 13/16 | 1/2 | 15/16   | 1 5/16 | 4 1/4   | 2 5/8 | 2 1/8 | 2 7/8          | 8.1  |
| 45MM          | 19121045 | 19221045 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 1 15/16       | 19121115 | 19221115 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2             | 19121200 | 19221200 | 3                   | 8 3/8  | 2 3/16  | 5 15/16 | 6 1/4                 | 6 9/16  | 5/8 | 1       | 1 3/8  | 4 9/16  | 2 7/8 | 2 1/4 | 2 7/8          | 9.1  |
| 50MM          | 19121050 | 19221050 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 3/16        | 19121203 | 19221203 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 1/4         | 19121204 | 19221204 | 3 1/4               | 8 7/8  | 2 1/2   | 6 7/16  | 6 3/4                 | 7 1/16  | 5/8 | 1       | 1 5/8  | 5       | 3 1/4 | 2 1/2 | 3 1/8          | 11.8 |
| 55MM          | 19121055 | 19221055 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 7/16        | 19121207 | 19221207 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 1/2         | 19121208 | 19221208 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 60MM          | 19121060 | 19221060 | 3 1/2               | 9 1/4  | 2 3/4   | 6 13/16 | 7 1/8                 | 7 7/16  | 5/8 | 1       | 1 3/4  | 5 11/16 | 4     | 2 3/4 | 3 3/8          | 16.2 |
| 65MM          | 19121065 | 19221065 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 11/16       | 19121211 | 19221211 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 3/4         | 19121212 | 19221212 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 2 15/16       | 19121215 | 19221215 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3             | 19121300 | 19221300 | 3 13/16             | 10 1/2 | 2 13/16 | 7 13/16 | 8 1/8                 | 8 7/16  | 3/4 | 1 1/8   | 2 1/4  | 6 7/16  | 4 3/8 | 3 1/4 | 3 5/8          | 22.1 |
| 70MM          | 19121070 | 19221070 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 75MM          | 19121075 | 19221075 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3 3/16        | 19121303 | 19221303 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3 7/16        | 19121307 | 19221307 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3 1/2         | 19121308 | 19221308 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 80MM          | 19121080 | 19221080 | 4 1/4               | 13     | 3 1/4   | 9 1/2   | 10                    | 10 1/2  | 7/8 | 1 7/16  | 2 1/4  | 7 1/2   | 5 1/8 | 3 3/4 | 4 13/32        | 31.6 |
| 85MM          | 19121085 | 19221085 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 90MM          | 19121090 | 19221090 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3 11/16       | 19121311 | 19221311 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 3 15/16       | 19121315 | 19221315 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |
| 4             | 19121400 | 19221400 | 4 3/4               | 14 1/2 | 3 9/16  | 10      | 10 7/8                | 11 3/4  | 1   | 1 15/16 | 2 1/2  | 8 3/8   | 6     | 4 1/8 | 4 19/32        | 45   |
| 100MM         | 19121100 | 19221100 |                     |        |         |         |                       |         |     |         |        |         |       |       |                |      |

Many more sizes and styles available. Call us with your needs!

POWER TRANSMISSION

# M2000 TAPERED ROLLER BEARINGS

POWER TRANSMISSION



## 4 BOLT FLANGES

| SHAFT SIZE | MOLINE PART # |          | DIMENSIONS (INCHES) |       |        |         |        |     |        |       |       |         |      | WEIGHT<br>LBS. |
|------------|---------------|----------|---------------------|-------|--------|---------|--------|-----|--------|-------|-------|---------|------|----------------|
|            | EXP           | NON-EXP  | A                   | B     | C      | D       | E      | F   | H      | J     | L     | N       |      |                |
| 1 3/16     | 19111103      | 19211103 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 1/4      | 19111104      | 19211104 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 7/16     | 19111107      | 19211107 | 2 15/16             | 4 5/8 | 2 1/4  | 3 17/32 | 5      | 12  | 3/4    | 3 7/8 | 2 1/2 | 2 3/4   | 7    |                |
| 1 1/2      | 19111108      | 19211108 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 11/16    | 19111111      | 19211111 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 3/4      | 19111112      | 19211112 | 3 1/16              | 5     | 2 1/4  | 3 57/64 | 5 1/2  | 12  | 3/4    | 4 1/4 | 2 5/8 | 2 7/8   | 10   |                |
| 40MM       | 19111040      | 19211040 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 45MM       | 19111045      | 19211045 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 1 15/16    | 19111115      | 19211115 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2          | 19111200      | 19211200 | 3 1/32              | 5 1/4 | 2 1/4  | 4 1/16  | 5 3/4  | 12  | 3/4    | 4 1/2 | 2 7/8 | 2 7/8   | 10.5 |                |
| 50MM       | 19111050      | 19211050 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 3/16     | 19111203      | 19211203 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 1/4      | 19111204      | 19211204 | 3 9/32              | 5 7/8 | 2 7/16 | 4 1/2   | 6 3/8  | 5 8 | 3/4    | 5     | 3 1/4 | 3 1/8   | 12.5 |                |
| 55MM       | 19111055      | 19211055 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 7/16     | 19111207      | 19211207 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 1/2      | 19111208      | 19211208 | 3 9/16              | 6 1/8 | 2 3/4  | 4 25/32 | 6 3/4  | 5 8 | 1      | 5 3/4 | 4     | 3 3/8   | 16.5 |                |
| 60MM       | 19111060      | 19211060 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 65MM       | 19111065      | 19211065 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 11/16    | 19111211      | 19211211 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 3/4      | 19111212      | 19211212 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 2 15/16    | 19111215      | 19211215 | 3 15/16             | 7 1/4 | 2 7/8  | 5 9/16  | 7 7/8  | 3/4 | 1      | 6 5/8 | 4 3/8 | 3 5/8   | 25   |                |
| 3          | 19111300      | 19211300 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 70MM       | 19111070      | 19211070 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 75MM       | 19111075      | 19211075 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 3/16     | 19111303      | 19211303 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 7/16     | 19111307      | 19211307 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 1/2      | 19111308      | 19211308 | 4 11/32             | 8 3/8 | 3 1/4  | 6 23/32 | 9 1/2  | 3/4 | 1 1/8  | 7 5/8 | 5 1/8 | 4 1/32  | 35   |                |
| 80MM       | 19111080      | 19211080 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 85MM       | 19111085      | 19211085 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 90MM       | 19111090      | 19211090 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 11/16    | 19111311      | 19211311 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 3 15/16    | 19111315      | 19211315 | 4 7/8               | 9 1/2 | 3 9/16 | 7 19/32 | 10 3/4 | 7/8 | 1 3/16 | 8 3/8 | 6     | 4 19/32 | 48   |                |
| 4          | 19111400      | 19211400 |                     |       |        |         |        |     |        |       |       |         |      |                |
| 100MM      | 19111100      | 19211100 |                     |       |        |         |        |     |        |       |       |         |      |                |

Many more sizes and styles available. Call us with your needs!

# HEX BORE BEARINGS & SPECIAL AG BEARINGS

## HEX BORE BEARINGS

### CYLINDRICAL OUTER RACE



| Part #   | Bearing # | Bore | OD    | Inner Race Thickness | Outer Race Thickness |
|----------|-----------|------|-------|----------------------|----------------------|
| B206KRR6 | 206KRR6   | 1    | 2.441 | 0.940                | 0.630                |

### SPHERICAL OUTER RACE



| Part #     | Bearing # | Bore  | OD    | Inner Race Thickness | Outer Race Thickness |
|------------|-----------|-------|-------|----------------------|----------------------|
| B205KRRB2  | 205KRRB2  | 7/8   | 2.047 | 1.000                | 0.590                |
| B206KRRB6  | 206KRRB6  | 1     | 2.441 | 0.940                | 0.630                |
| BF207KRRB9 | 207KRRB9  | 1 1/8 | 2.835 | 1.484                | 0.669                |
| B207KRRB12 | 207KRRB12 | 1 1/8 | 2.835 | 0.980                | 0.660                |

## SPECIAL AG BEARINGS



| Part #    | Bearing # | Fafnir Part# | John Deere Part # | Bore Size | OD    | Inner Race Width | Outer Race Width | Applications                               |
|-----------|-----------|--------------|-------------------|-----------|-------|------------------|------------------|--|
| BF16SF32  | 16SF32    | -            | -                 | 1.000     | 2.000 | 0.688            | 0.625            | FLANGED BEARING FOR MAYRATH HAY ELEVATORS. |
| BF203KRR2 | 203KRR2   | 203KRR2      | JD9214            | 0.630     | 1.575 | 0.720            | 0.472            | PLANTERS, GAUGE WHEEL, ROTARY HOES, ETC.   |
| B203KRR3  | 203KRR3   | 203KRR3      | JD8646            | 0.625     | 2.000 | 0.591            | 0.591            | -  |
| B204KRR8  | 204KRR8   | 204KRR8      | -                 | 0.630     | 1.781 | 0.610            | 0.610            | -  |
| B99502H   | 99502H*   | -            | JD8570            | 0.625     | 1.375 | 0.428            | 0.428            | -  |
| BZ9504AB  | Z9504AB   | P204RR6      | JD9296            | 0.750     | 1.781 | 0.610            | 0.610            | CULTIVATORS, GAUGE WHEELS, PLANTERS, ETC.  |

\*2-3 day lead time.



## FEMALE RIGHT HAND THREAD • NO ZERK

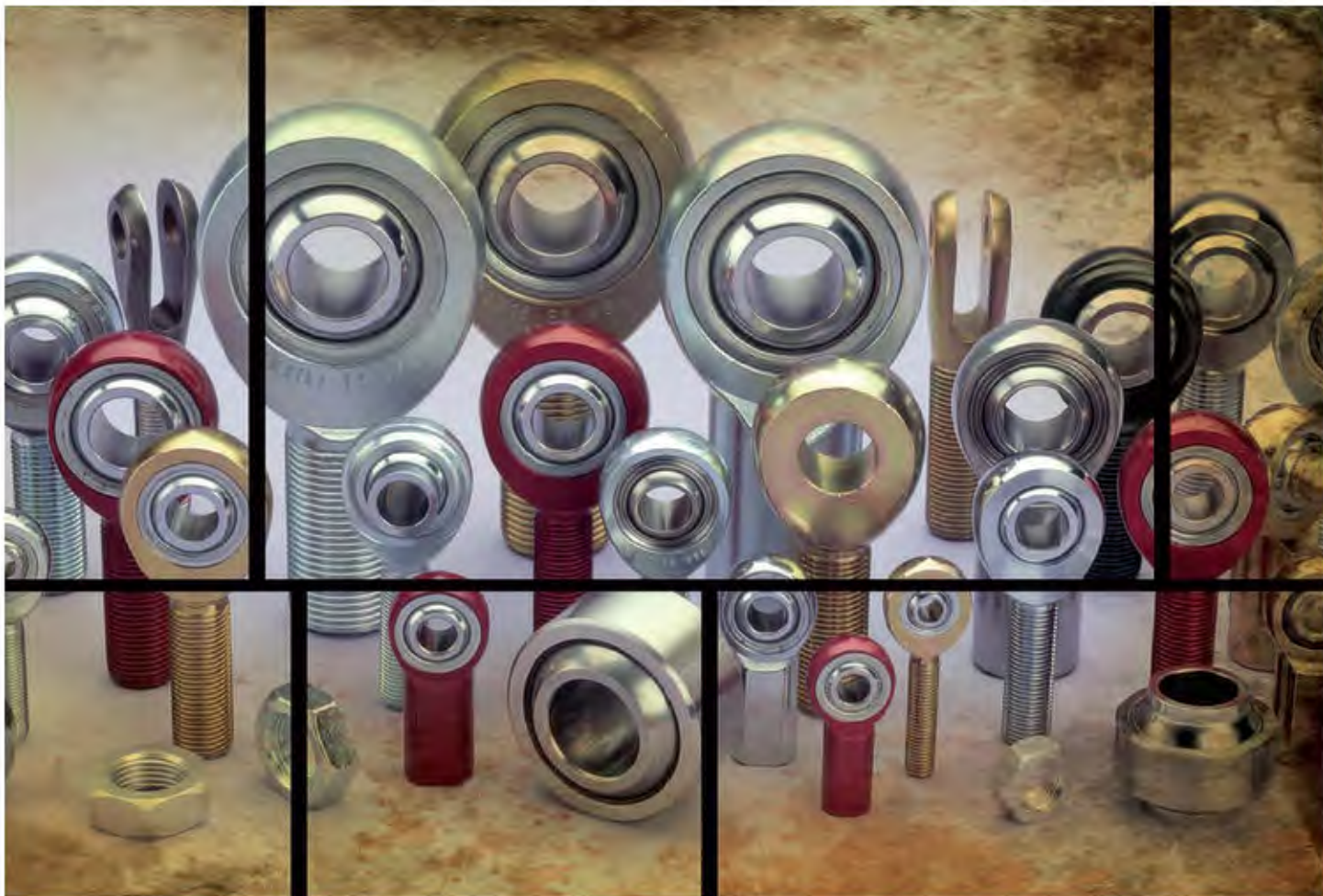
### Dimensions

| Size (B) | Thread Size | A     | C     | D     |
|----------|-------------|-------|-------|-------|
| 1/4      | 1/4-28      | 0.750 | 0.468 | 1.312 |
| 3/8      | 3/8-24      | 1.000 | 0.687 | 1.625 |

The CF series Rod Ends have a body made of low carbon steel which is zinc plated. The ball is made from 52100 bearing steel with a minimum Rockwell hardness of C56 and it is hard chrome plated.

| Part #  | FK Part # | Bearing Size | Thread |
|---------|-----------|--------------|--------|
| BRECF04 | CF4       | 1/4          | 1/4-28 |
| BRECF06 | CF6       | 3/8          | 3/8-24 |





We keep the rod ends on the previous page in stock but we also have many other standard and specialty rod ends available. The following types and sizes of rod ends are available in 3-4 days:

Low Carbon Steel Female Left and Right Hand Thread: 3/16 to 3/4

Low Carbon Steel Male Left and Right Hand Thread: 3/16 to 3/4

Low Carbon Steel Female Left and Right Hand Thread with Male Stud: 3/16 to 3/4

Low Carbon Steel Male Left and Right Hand Thread with Male Stud: 3/16 to 3/4

Stainless Steel Female Left and Right Hand Thread: 3/16 to 3/4

Stainless Steel Male Left and Right Hand Thread: 3/16 to 3/4

Alloy Steel Female Left and Right Hand Thread: 3/16 to 1

Alloy Steel Male Left and Right Hand Thread: 3/16 to 1

Low Carbon Steel Rod Ends are available in male and female left and right hand threads with races of: Alloy Steel in 1/8 to 1, Fiber Reinforced Engineered Plastic in 3/16 to 3/4, Brass in 3/16 to 3/4, Sintered Bronze in 3/16 to 3/4

Aluminum Body Alloy Steel Race Male and Female Left and Right Hand Thread: 3/16 to 3/4

Nearly all of these rod ends can be supplied with a grease fitting or with a Teflon liner.

\*Please note the ball on each of these is made of 52100 bearing steel and hard chrome plated.

# MASTERDRIVE® CAST IRON PULLEYS

Masterdrive offers high quality sheaves, bushings, and jaw couplings. We stock a broad range of Masterdrive products.

## BORED-TO SIZE PULLEYS

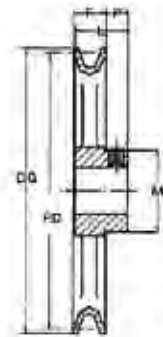
Bored-to-size pulleys are light duty cast iron pulleys. The AK pulleys are for 3L or A belts. The BK pulleys are for A or B belts.

## STANDARD KEY DIMENSIONS

| Shaft Dia.   | Key Seat W X D |
|--------------|----------------|
| 1/2          | NONE           |
| 5/8-7/8      | 3/16 X 3/32    |
| 15/16-1 1/4  | 1/4 X 1/8      |
| 1 5/16-1 3/8 | 5/16 X 5/32    |
| 1 7/16-1 3/4 | 3/8 X 3/16     |

## SINGLE GROOVE

| Part #    | Masterdrive Part # | OD   | F     | P    | M   |
|-----------|--------------------|------|-------|------|-----|
| EQMAK1708 | AK17 X 1/2         | 1.75 | 21/32 | 7/16 | 1.6 |
| EQMAK1710 | AK17 X 5/8         | 1.75 | 21/32 | 7/16 | 1.6 |
| EQMAK2008 | AK20 X 1/2         | 2    | 21/32 | 7/16 | 1.6 |
| EQMAK2010 | AK20 X 5/8         | 2    | 21/32 | 7/16 | 1.6 |
| EQMAK2012 | AK20 X 3/4         | 2    | 21/32 | 7/16 | 1.6 |
| EQMAK2110 | AK21 X 5/8         | 2.1  | 21/32 | 7/16 | 1.6 |
| EQMAK2208 | AK22 X 1/2         | 2.2  | 21/32 | 7/16 | 1.6 |
| EQMAK2210 | AK22 X 5/8         | 2.2  | 21/32 | 7/16 | 1.6 |
| EQMAK2212 | AK22 X 3/4         | 2.2  | 21/32 | 7/16 | 1.6 |
| EQMAK2310 | AK23 X 5/8         | 2.3  | 21/32 | 7/16 | 1.6 |
| EQMAK2312 | AK23 X 3/4         | 2.3  | 21/32 | 7/16 | 1.6 |
| EQMAK2508 | AK25 X 1/2         | 2.5  | 21/32 | 7/16 | 1.6 |
| EQMAK2510 | AK25 X 5/8         | 2.5  | 21/32 | 7/16 | 1.6 |
| EQMAK2512 | AK25 X 3/4         | 2.5  | 21/32 | 7/16 | 1.6 |
| EQMAK2514 | AK25 X 7/8         | 2.5  | 21/32 | 7/16 | 1.6 |
| EQMAK2708 | AK27 X 1/2         | 2.7  | 21/32 | 7/16 | 1.6 |
| EQMAK2710 | AK27 X 5/8         | 2.7  | 21/32 | 7/16 | 1.6 |
| EQMAK2712 | AK27 X 3/4         | 2.7  | 21/32 | 7/16 | 1.6 |
| EQMAK2714 | AK27 X 7/8         | 2.7  | 21/32 | 7/16 | 1.6 |
| EQMAK2808 | AK28 X 1/2         | 2.8  | 21/32 | 7/16 | 1.6 |
| EQMAK2810 | AK28 X 5/8         | 2.8  | 21/32 | 7/16 | 1.6 |
| EQMAK2812 | AK28 X 3/4         | 2.8  | 21/32 | 7/16 | 1.6 |
| EQMAK2814 | AK28 X 7/8         | 2.8  | 21/32 | 7/16 | 1.6 |
| EQMAK2816 | AK28 X 1           | 2.8  | 21/32 | 7/16 | 1.7 |
| EQMAK3008 | AK30 X 1/2         | 3.05 | 21/32 | 7/16 | 1.6 |
| EQMAK3010 | AK30 X 5/8         | 3.05 | 21/32 | 7/16 | 1.6 |
| EQMAK3012 | AK30 X 3/4         | 3.05 | 21/32 | 7/16 | 1.6 |
| EQMAK3014 | AK30 X 7/8         | 3.05 | 21/32 | 7/16 | 1.6 |
| EQMAK3016 | AK30 X 1           | 3.05 | 21/32 | 7/16 | 1.7 |
| EQMAK3210 | AK32 X 5/8         | 3.25 | 21/32 | 7/16 | 1.6 |
| EQMAK3212 | AK32 X 3/4         | 3.25 | 21/32 | 7/16 | 1.6 |
| EQMAK3408 | AK34 X 1/2         | 3.45 | 21/32 | 7/16 | 1.6 |
| EQMAK3410 | AK34 X 5/8         | 3.45 | 21/32 | 7/16 | 1.6 |



| Part #    | Masterdrive Part # | OD   | F     | P     | M   |
|-----------|--------------------|------|-------|-------|-----|
| EQMAK3412 | AK34 X 3/4         | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK3414 | AK34 X 7/8         | 3.45 | 21/32 | 7/16  | 1.6 |
| EQMAK3416 | AK34 X 1           | 3.45 | 21/32 | 7/16  | 1.7 |
| EQMAK3908 | AK39 X 1/2         | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK3910 | AK39 X 5/8         | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK3912 | AK39 X 3/4         | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK3914 | AK39 X 7/8         | 3.75 | 3/4   | 15/32 | 1.6 |
| EQMAK3916 | AK39 X 1           | 3.75 | 3/4   | 15/32 | 1.7 |
| EQMAK4108 | AK41 X 1/2         | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK4110 | AK41 X 5/8         | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK4112 | AK41 X 3/4         | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK4114 | AK41 X 7/8         | 3.95 | 3/4   | 15/32 | 1.6 |
| EQMAK4116 | AK41 X 1           | 3.95 | 3/4   | 15/32 | 1.7 |
| EQMAK4410 | AK44 X 5/8         | 4.25 | 3/4   | 15/32 | 1.6 |
| EQMAK4412 | AK44 X 3/4         | 4.25 | 3/4   | 15/32 | 1.6 |
| EQMAK4414 | AK44 X 7/8         | 4.25 | 3/4   | 15/32 | 1.6 |
| EQMAK4416 | AK44 X 1           | 4.25 | 3/4   | 15/32 | 1.7 |
| EQMAK4608 | AK46 X 1/2         | 4.45 | 3/4   | 15/32 | 1.6 |
| EQMAK4610 | AK46 X 5/8         | 4.45 | 3/4   | 15/32 | 1.6 |
| EQMAK4612 | AK46 X 3/4         | 4.45 | 3/4   | 15/32 | 1.6 |
| EQMAK4614 | AK46 X 7/8         | 4.45 | 3/4   | 15/32 | 1.6 |
| EQMAK4616 | AK46 X 1           | 4.45 | 3/4   | 15/32 | 1.7 |
| EQMAK5110 | AK51 X 5/8         | 4.95 | 3/4   | 15/32 | 1.6 |
| EQMAK5112 | AK51 X 3/4         | 4.95 | 3/4   | 15/32 | 1.6 |

# BORED-TO SIZE PULLEYS

## SINGLE GROOVE

| Part #    | Masterdrive Part # | OD   | F     | P     | M   |
|-----------|--------------------|------|-------|-------|-----|
| EQMAK7110 | AK71 X 5/8         | 6.95 | 3/4   | 15/32 | 1.6 |
| EQPMB2008 | MB20 X 1/2*        | 2.00 | 7/8   | 5/8   | 1.4 |
| EQPMB2010 | MB20 X 5/8*        | 2.00 | 7/8   | 5/8   | 1.4 |
| EQPMB2012 | MB20 X 3/4*        | 2.00 | 7/8   | 5/8   | 1.4 |
| EQMBK2408 | BK24 X 1/2         | 2.40 | 13/16 | 13/32 | 1.6 |
| EQMBK2410 | BK24 X 5/8         | 2.40 | 13/16 | 13/32 | 1.6 |
| EQMBK2412 | BK24 X 3/4         | 2.40 | 13/16 | 13/32 | 1.6 |
| EQMBK2414 | BK24 X 7/8         | 2.40 | 13/16 | 13/32 | 1.6 |
| EQMBK2508 | BK25 X 1/2         | 2.50 | 13/16 | 13/32 | 1.6 |
| EQMBK2510 | BK25 X 5/8         | 2.50 | 13/16 | 13/32 | 1.6 |
| EQMBK2512 | BK25 X 3/4         | 2.50 | 13/16 | 13/32 | 1.6 |
| EQMBK2514 | BK25 X 7/8         | 2.50 | 13/16 | 13/32 | 1.6 |
| EQMBK2516 | BK25 X 1           | 2.50 | 13/16 | 13/32 | 1.6 |
| EQMBK2610 | BK26 X 5/8         | 2.60 | 13/16 | 13/32 | 1.6 |
| EQMBK2612 | BK26 X 3/4         | 2.60 | 13/16 | 13/32 | 1.6 |
| EQMBK2708 | BK27 X 1/2         | 2.70 | 13/16 | 13/32 | 1.6 |
| EQMBK2710 | BK27 X 5/8         | 2.70 | 13/16 | 13/32 | 1.6 |
| EQMBK2712 | BK27 X 3/4         | 2.70 | 13/16 | 13/32 | 1.6 |
| EQMBK2714 | BK27 X 7/8         | 2.70 | 13/16 | 13/32 | 1.6 |
| EQMBK2716 | BK27 X 1           | 2.70 | 13/16 | 13/32 | 1.7 |
| EQMBK2808 | BK28 X 1/2         | 2.95 | 13/16 | 13/32 | 1.6 |
| EQMBK2810 | BK28 X 5/8         | 2.95 | 13/16 | 13/32 | 1.6 |
| EQMBK2812 | BK28 X 3/4         | 2.95 | 13/16 | 13/32 | 1.6 |
| EQMBK2814 | BK28 X 7/8         | 2.95 | 13/16 | 13/32 | 1.6 |
| EQMBK2816 | BK28 X 1           | 2.95 | 13/16 | 13/32 | 1.7 |
| EQMBK2818 | BK28 X 1 1/8       | 2.95 | 13/16 | 13/32 | 1.9 |
| EQMBK3008 | BK30 X 1/2         | 3.15 | 13/16 | 13/32 | 1.6 |
| EQMBK3010 | BK30 X 5/8         | 3.15 | 13/16 | 13/32 | 1.6 |
| EQMBK3012 | BK30 X 3/4         | 3.15 | 13/16 | 13/32 | 1.6 |
| EQMBK3014 | BK30 X 7/8         | 3.15 | 13/16 | 13/32 | 1.6 |
| EQMBK3016 | BK30 X 1           | 3.15 | 13/16 | 13/32 | 1.7 |
| EQMBK3018 | BK30 X 1 1/8       | 3.15 | 13/16 | 13/32 | 1.9 |
| EQMBK3208 | BK32 X 1/2         | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMBK3210 | BK32 X 5/8         | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMBK3212 | BK32 X 3/4         | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMBK3214 | BK32 X 7/8         | 3.35 | 13/16 | 13/32 | 1.6 |
| EQMBK3216 | BK32 X 1           | 3.35 | 13/16 | 13/32 | 1.7 |
| EQMBK3408 | BK34 X 1/2         | 3.55 | 7/8   | 13/32 | 1.6 |
| EQMBK3410 | BK34 X 5/8         | 3.55 | 7/8   | 13/32 | 1.6 |

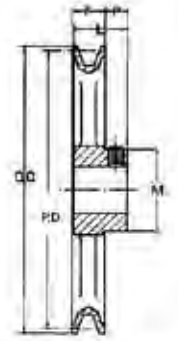
| Part #     | Masterdrive Part # | OD    | F   | P     | M   |
|------------|--------------------|-------|-----|-------|-----|
| EQMBK3412  | BK34 X 3/4         | 3.55  | 7/8 | 13/32 | 1.6 |
| EQMBK3414  | BK34 X 7/8         | 3.55  | 7/8 | 13/32 | 1.6 |
| EQMBK3416  | BK34 X 1           | 3.55  | 7/8 | 13/32 | 1.7 |
| EQMBK3418  | BK34 X 1 1/8       | 3.55  | 7/8 | 13/32 | 1.9 |
| EQMBK3610  | BK36 X 5/8         | 3.75  | 7/8 | 13/32 | 1.6 |
| EQMBK3612  | BK36 X 3/4         | 3.75  | 7/8 | 13/32 | 1.6 |
| EQMBK3614  | BK36 X 7/8         | 3.75  | 7/8 | 13/32 | 1.6 |
| EQMBK3616  | BK36 X 1           | 3.75  | 7/8 | 13/32 | 1.7 |
| EQMBK3618  | BK36 X 1 1/8       | 3.75  | 7/8 | 13/32 | 1.9 |
| EQMBK4008  | BK40 X 1/2         | 3.95  | 7/8 | 13/32 | 1.6 |
| EQMBK4010  | BK40 X 5/8         | 3.95  | 7/8 | 13/32 | 1.6 |
| EQMBK4012  | BK40 X 3/4         | 3.95  | 7/8 | 13/32 | 1.6 |
| EQMBK4014  | BK40 X 7/8         | 3.95  | 7/8 | 13/32 | 1.6 |
| EQMBK4016  | BK40 X 1           | 3.95  | 7/8 | 13/32 | 1.7 |
| EQMBK4018  | BK40 X 1 1/8       | 3.95  | 7/8 | 13/32 | 1.9 |
| EQMBK4508  | BK45 X 1/2         | 4.25  | 7/8 | 13/32 | 1.6 |
| EQMBK4510  | BK45 X 5/8         | 4.25  | 7/8 | 13/32 | 1.6 |
| EQMBK4512  | BK45 X 3/4         | 4.25  | 7/8 | 13/32 | 1.6 |
| EQMBK4514  | BK45 X 7/8         | 4.25  | 7/8 | 13/32 | 1.6 |
| EQMBK4516  | BK45 X 1           | 4.25  | 7/8 | 13/32 | 1.7 |
| EQMBK4518  | BK45 X 1 1/8       | 4.25  | 7/8 | 13/32 | 1.9 |
| EQMBK4710  | BK47 X 5/8         | 4.45  | 7/8 | 13/32 | 1.6 |
| EQMBK4712  | BK47 X 3/4         | 4.45  | 7/8 | 13/32 | 1.6 |
| EQMBK4714  | BK47 X 7/8         | 4.45  | 7/8 | 13/32 | 1.6 |
| EQMBK5010  | BK50 X 5/8         | 4.75  | 7/8 | 13/32 | 1.6 |
| EQMBK5012  | BK50 X 3/4         | 4.75  | 7/8 | 13/32 | 1.6 |
| EQMBK5014  | BK50 X 7/8         | 4.75  | 7/8 | 13/32 | 1.6 |
| EQMBK5016  | BK50 X 1           | 4.75  | 7/8 | 13/32 | 1.7 |
| EQMBK5018  | BK50 X 1 1/8       | 4.75  | 7/8 | 13/32 | 1.9 |
| EQMBK5210  | BK52 X 5/8         | 4.95  | 7/8 | 13/32 | 1.6 |
| EQMBK5212  | BK52 X 3/4         | 4.95  | 7/8 | 13/32 | 1.6 |
| EQMBK5216  | BK52 X 1           | 4.95  | 7/8 | 13/32 | 1.7 |
| EQMBK5512  | BK55 X 3/4         | 5.25  | 7/8 | 13/32 | 1.6 |
| EQMBK5516  | BK55 X 1           | 5.25  | 7/8 | 13/32 | 1.7 |
| EQMBK6010  | BK60 X 5/8         | 5.75  | 7/8 | 13/32 | 1.6 |
| EQMBK6012  | BK60 X 3/4         | 5.75  | 7/8 | 13/32 | 1.6 |
| EQMBK6014  | BK60 X 7/8         | 5.75  | 7/8 | 13/32 | 1.6 |
| EQMBK6016  | BK60 X 1           | 5.75  | 7/8 | 13/32 | 1.7 |
| EQMBK14016 | BK140 X 1          | 13.75 | 7/8 | 21/32 | 1.7 |

POWER TRANSMISSION

\*These sizes are only available in Maska Brand.

# BORED-TO SIZE PULLEYS

## DOUBLE GROOVE



| Part #     | Masterdrive Part # | OD   | F     | P     | M   |
|------------|--------------------|------|-------|-------|-----|
| EQM2AK2814 | 2AK28 X 7/8        | 2.85 | 1 3/8 | 15/32 | 1.9 |
| EQM2AK3210 | 2AK32 5/8          | 3.25 | 1 3/8 | 15/32 | 1.9 |
| EQM2BK2510 | 2BK25 X 5/8        | 2.50 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2512 | 2BK25 X 3/4        | 2.50 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2514 | 2BK25 X 7/8        | 2.50 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK2810 | 2BK28 X 5/8        | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2812 | 2BK28 X 3/4        | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2814 | 2BK28 X 7/8        | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2816 | 2BK28 X 1          | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK2818 | 2BK28 X 1 1/8      | 2.95 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3010 | 2BK30 X 5/8        | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3012 | 2BK30 X 3/4        | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3014 | 2BK30 X 7/8        | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3018 | 2BK30 X 1 1/8      | 3.15 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3022 | 2BK30 X 1 3/8      | 3.15 | 1 3/4 | 15/32 | 2.4 |
| EQM2BK3410 | 2BK34 X 5/8        | 3.55 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK3414 | 2BK34 X 7/8        | 3.55 | 1 3/4 | 15/32 | 1.6 |
| EQM2BK3416 | 2BK34 X 1          | 3.55 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3418 | 2BK34 X 1 1/8      | 3.55 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3618 | 2BK36 X 1 1/8      | 3.75 | 1 3/4 | 15/32 | 1.9 |
| EQM2BK3622 | 2BK36 X 1 3/8      | 3.75 | 1 3/4 | 15/32 | 2.4 |

Many other sizes of bored-to-size pulleys are available in 1-2 days.



# H BUSHED PULLEYS

## SINGLE GROOVE

H Bushed Pulleys are light duty cast iron pulleys and are used with a 2 bolt H bushing. The AK pulleys are for 3L or A belts. The BK pulleys are for A or B belts.



| Part #    | Masterdrive Part # | OD    | Width* |
|-----------|--------------------|-------|--------|
| EQMAK30H  | AK30H              | 3.05  | 1 5/8  |
| EQMAK32H  | AK32H              | 3.30  | 1 5/8  |
| EQMAK34H  | AK34H              | 3.45  | 1 5/16 |
| EQMAK39H  | AK39H              | 3.75  | 1 5/16 |
| EQMAK41H  | AK41H              | 3.95  | 1 5/16 |
| EQMAK44H  | AK44H              | 4.25  | 1 5/16 |
| EQMAK46H  | AK46H              | 4.45  | 1 5/16 |
| EQMAK49H  | AK49H              | 4.75  | 1 5/16 |
| EQMAK51H  | AK51H              | 4.95  | 1 5/16 |
| EQMAK54H  | AK54H              | 5.25  | 1 5/16 |
| EQMAK56H  | AK56H              | 5.45  | 1 5/16 |
| EQMAK59H  | AK59H              | 5.75  | 1 5/16 |
| EQMAK61H  | AK61H              | 5.95  | 1 5/16 |
| EQMAK64H  | AK64H              | 6.25  | 1 5/16 |
| EQMAK66H  | AK66H              | 6.45  | 1 5/16 |
| EQMAK69H  | AK69H              | 6.75  | 1 5/16 |
| EQMAK71H  | AK71H              | 6.95  | 1 5/16 |
| EQMAK74H  | AK74H              | 7.25  | 1 5/16 |
| EQMAK79H  | AK79H              | 7.75  | 1 5/16 |
| EQMAK84H  | AK84H              | 8.25  | 1 5/16 |
| EQMAK94H  | AK94H              | 9.25  | 1 5/16 |
| EQMAK104H | AK104H             | 10.25 | 1 5/16 |
| EQMAK114H | AK114H             | 11.25 | 1 5/16 |
| EQMAK124H | AK124H             | 12.25 | 1 5/16 |
| EQMBK30H  | BK30H              | 3.15  | 1 3/4  |
| EQMBK32H  | BK32H              | 3.35  | 1 3/4  |
| EQMBK34H  | BK34H              | 3.55  | 1 3/4  |
| EQMBK36H  | BK36H              | 3.75  | 1 5/16 |

| Part #    | Masterdrive Part # | OD    | Width* |
|-----------|--------------------|-------|--------|
| EQMBK40H  | BK40H              | 3.95  | 1 5/16 |
| EQMBK45H  | BK45H              | 4.25  | 1 5/16 |
| EQMBK47H  | BK47H              | 4.45  | 1 5/16 |
| EQMBK50H  | BK50H              | 4.75  | 1 5/16 |
| EQMBK52H  | BK52H              | 4.95  | 1 5/16 |
| EQMBK55H  | BK55H              | 5.25  | 1 5/16 |
| EQMBK57H  | BK57H              | 5.45  | 1 5/16 |
| EQMBK60H  | BK60H              | 5.75  | 1 5/16 |
| EQMBK62H  | BK62H              | 5.95  | 1 5/16 |
| EQMBK65H  | BK65H              | 6.25  | 1 5/16 |
| EQMBK67H  | BK67H              | 6.45  | 1 5/16 |
| EQMBK70H  | BK70H              | 6.75  | 1 3/8  |
| EQMBK72H  | BK72H              | 6.95  | 1 3/8  |
| EQMBK75H  | BK75H              | 7.25  | 1 3/8  |
| EQMBK77H  | BK77H              | 7.45  | 1 3/8  |
| EQMBK80H  | BK80H              | 7.75  | 1 3/8  |
| EQMBK85H  | BK85H              | 8.25  | 1 3/8  |
| EQMBK90H  | BK90H              | 8.75  | 1 3/8  |
| EQMBK95H  | BK95H              | 9.25  | 1 3/8  |
| EQMBK100H | BK100H             | 9.75  | 1 3/8  |
| EQMBK105H | BK105H             | 10.25 | 1 3/8  |
| EQMBK110H | BK110H             | 10.75 | 1 3/8  |
| EQMBK120H | BK120H             | 11.75 | 1 3/8  |
| EQMBK130H | BK130H             | 12.75 | 1 3/8  |
| EQMBK140H | BK140H             | 13.75 | 1 3/8  |
| EQMBK150H | BK150H             | 14.75 | 1 3/8  |
| EQMBK160H | BK160H             | 15.75 | 1 3/8  |
| EQMBK190H | BK190H             | 18.75 | 1 3/8  |

\*Width includes the bushing where applicable.

# H BUSHED PULLEYS

POWER TRANSMISSION

## DOUBLE GROOVE



| Part #     | Masterdrive Part # | OD    | Width* |
|------------|--------------------|-------|--------|
| EQM2AK30H  | 2AK30H             | 3.05  | 2 5/8  |
| EQM2AK32H  | 2AK32H             | 3.25  | 2 5/8  |
| EQM2AK34H  | 2AK34H             | 3.45  | 2 3/16 |
| EQM2AK39H  | 2AK39H             | 3.75  | 2 3/16 |
| EQM2AK41H  | 2AK41H             | 3.95  | 1 3/4  |
| EQM2AK44H  | 2AK44H             | 4.25  | 1 3/4  |
| EQM2AK46H  | 2AK46H             | 4.45  | 1 3/4  |
| EQM2AK49H  | 2AK49H             | 4.75  | 1 3/4  |
| EQM2AK51H  | 2AK51H             | 4.95  | 1 3/4  |
| EQM2AK54H  | 2AK54H             | 5.25  | 1 3/4  |
| EQM2AK56H  | 2AK56H             | 5.45  | 1 3/4  |
| EQM2AK59H  | 2AK59H             | 5.75  | 1 3/4  |
| EQM2AK61H  | 2AK61H             | 5.95  | 1 3/4  |
| EQM2AK64H  | 2AK64H             | 6.25  | 1 3/4  |
| EQM2AK74H  | 2AK74H             | 7.25  | 1 3/4  |
| EQM2AK84H  | 2AK84H             | 8.25  | 1 3/4  |
| EQM2AK94H  | 2AK94H             | 9.25  | 1 3/4  |
| EQM2AK104H | 2AK104H            | 10.25 | 1 3/4  |
| EQM2AK114H | 2AK114H            | 11.25 | 1 3/4  |
| EQM2AK124H | 2AK124H            | 12.25 | 1 3/4  |
| EQM2BK32H  | 2BK32H             | 3.35  | 2 5/8  |
| EQM2BK34H  | 2BK34H             | 3.55  | 2 5/8  |

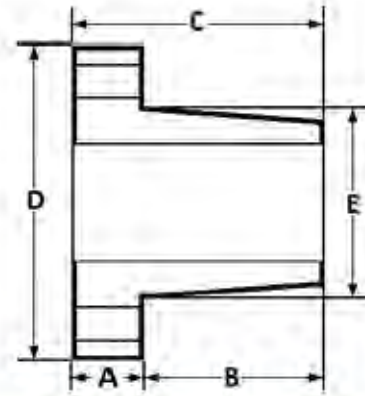
| Part #     | Masterdrive Part # | OD    | Width* |
|------------|--------------------|-------|--------|
| EQM2BK36H  | 2BK36H             | 3.75  | 2 3/16 |
| EQM2BK40H  | 2BK40H             | 3.95  | 2 3/16 |
| EQM2BK45H  | 2BK45H             | 4.25  | 2 3/16 |
| EQM2BK47H  | 2BK47H             | 4.45  | 1 3/4  |
| EQM2BK50H  | 2BK50H             | 4.75  | 1 3/4  |
| EQM2BK52H  | 2BK52H             | 4.95  | 1 3/4  |
| EQM2BK55H  | 2BK55H             | 5.25  | 1 3/4  |
| EQM2BK57H  | 2BK57H             | 5.45  | 1 3/4  |
| EQM2BK60H  | 2BK60H             | 5.75  | 1 3/4  |
| EQM2BK62H  | 2BK62H             | 5.95  | 1 3/4  |
| EQM2BK65H  | 2BK65H             | 6.25  | 1 3/4  |
| EQM2BK67H  | 2BK67H             | 6.45  | 1 3/4  |
| EQM2BK70H  | 2BK70H             | 6.75  | 1 3/4  |
| EQM2BK80H  | 2BK80H             | 7.75  | 1 3/4  |
| EQM2BK90H  | 2BK90H             | 8.75  | 1 3/4  |
| EQM2BK100H | 2BK100H            | 9.75  | 1 3/4  |
| EQM2BK110H | 2BK110H            | 10.75 | 1 3/4  |
| EQM2BK120H | 2BK120H            | 11.75 | 1 3/4  |
| EQM2BK130H | 2BK130H            | 12.75 | 1 3/4  |
| EQM2BK140H | 2BK140H            | 13.75 | 1 3/4  |
| EQM2BK160H | 2BK160H            | 15.75 | 1 3/4  |
| EQM2BK190H | 2BK190H            | 18.75 | 1 3/4  |

\*Width includes the bushing where applicable.

3 groove h bushed pulleys are available in 1-2 days in 3BK45H to 3BK190H.

# H BUSHINGS

## DIMENSIONS



| Bushing | A     | B | C       | D     | E     | Bolts Required | Bolt Size |
|---------|-------|---|---------|-------|-------|----------------|-----------|
| H*      | 11/32 | 1 | 1 11/32 | 2 1/2 | 1 5/8 | 2              | 1/4 X 1   |
| H-STL** | 1/4   | 1 | 1 1/4   | 2 1/2 | 1 5/8 | 2              | 1/4 X 3/4 |

\*Standard H bushings are made out of powdered metal and include a set screw over the keyway.

\*\*STL H bushings are optional in most sizes and are made out of steel. They don't include a set screw.

| Bore Size                              | Key Seat     |
|--|--------------|
| 3/8**, 7/16**                          | NONE         |
| 1/2**, 9/16**                          | 1/8 X 1/16   |
| 5/8, 11/16, 3/4, 13/16, 7/8            | 3/16 X 3/32  |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4 | 1/4 X 1/8    |
| 1 5/16, 1 3/8                          | 5/16 X 1/16* |
| 1 7/16**, 1 1/2**                      | 3/8 X 1/16*  |

\*Shallow Key seat. Key stock supplied with bushing.

\*\*These bushings are only available in steel.



| Part # | Masterdrive Part # |
|--------|--------------------|
| EQMH07 | H X 7/16           |
| EQMH08 | H X 1/2            |
| EQMH09 | H X 9/16           |
| EQMH10 | H X 5/8            |
| EQMH11 | H X 11/16          |
| EQMH12 | H X 3/4            |
| EQMH13 | H X 13/16          |
| EQMH14 | H X 7/8            |
| EQMH15 | H X 15/16          |
| EQMH16 | H X 1              |
| EQMH17 | H X 1 1/16         |
| EQMH18 | H X 1 1/8          |
| EQMH19 | H X 1 3/16         |
| EQMH20 | H X 1 1/4          |

| Part #  | Masterdrive Part # |
|---------|--------------------|
| EQMH22  | H X 1 3/8          |
| EQMH23  | H X 1 7/16         |
| EQMH24  | H X 1 1/2          |
| EQMMH14 | H X 14MM           |
| EQMMH15 | H X 15MM           |
| EQMMH16 | H X 16MM           |
| EQMMH17 | H X 17MM           |
| EQMMH18 | H X 18MM           |
| EQMMH20 | H X 20MM           |
| EQMMH22 | H X 22MM           |
| EQMMH24 | H X 24MM           |
| EQMMH25 | H X 25MM           |
| EQMMH28 | H X 28MM           |
| EQMMH30 | H X 30MM           |

# QD BUSHED PULLEYS

QD Bushed Sheaves are a heavy duty cast iron pulley and are used with 3 bolt bushings.



1 GROOVE WIDTH = 7/8" 1B34SH THRU 1B64SDS  
AND 1" 1B66SDS THRU 1B300SF

2 GROOVE WIDTH = 1 3/4

3 GROOVE WIDTH = 2 1/2

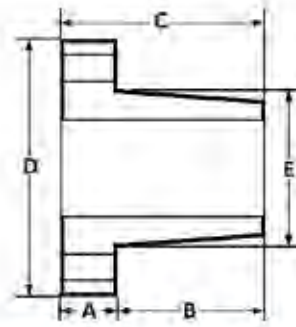
| OD    | Part #    | Masterdrive Part # | Part #   | Masterdrive Part # | Part #   | Masterdrive Part # |
|-------|-----------|--------------------|----------|--------------------|----------|--------------------|
| 3.75  | EQM1B034  | 1B34SH             | EQM2B034 | 2B34SH             | EQM3B034 | 3B34SH             |
| 3.95  | EQM1B036  | 1B36SH             | EQM2B036 | 2B36SH             | EQM3B036 | 3B36SH             |
| 4.15  | EQM1B038  | 1B38SH             | EQM2B038 | 2B38SH             | EQM3B038 | 3B38SH             |
| 4.35  | EQM1B040  | 1B40SH             | EQM2B040 | 2B40SH             | EQM3B040 | 3B40SH             |
| 4.55  | EQM1B042  | 1B42SH             | EQM2B042 | 2B42SH             | EQM3B042 | 3B42SH             |
| 4.75  | EQM1B044  | 1B44SH             | EQM2B044 | 2B44SH             | EQM3B044 | 3B44SH             |
| 4.95  | EQM1B046  | 1B46SDS            | EQM2B046 | 2B46SDS            | EQM3B046 | 3B46SD             |
| 5.15  | EQM1B048  | 1B48SDS            | EQM2B048 | 2B48SDS            | EQM3B048 | 3B48SD             |
| 5.35  | EQM1B050  | 1B50SDS            | EQM2B050 | 2B50SDS            | EQM3B050 | 3B50SD             |
| 5.55  | EQM1B052  | 1B52SDS            | EQM2B052 | 2B52SDS            | EQM3B052 | 3B52SD             |
| 5.75  | EQM1B054  | 1B54SDS            | EQM2B054 | 2B54SDS            | EQM3B054 | 3B54SD             |
| 5.95  | EQM1B056  | 1B56SDS            | EQM2B056 | 2B56SDS            | EQM3B056 | 3B56SD             |
| 6.15  | EQM1B058  | 1B58SDS            | EQM2B058 | 2B58SDS            | EQM3B058 | 3B58SD             |
| 6.35  | EQM1B060  | 1B60SDS            | EQM2B060 | 2B60SDS            | EQM3B060 | 3B60SD             |
| 6.55  | EQM1B062  | 1B62SDS            | EQM2B062 | 2B62SDS            | EQM3B062 | 3B62SD             |
| 6.75  | EQM1B064  | 1B64SDS            | EQM2B064 | 2B64SDS            | EQM3B064 | 3B64SD             |
| 6.95  | EQM1B066  | 1B66SDS            | EQM2B066 | 2B66SDS            | EQM3B066 | 3B66SD             |
| 7.15  | EQM1B068  | 1B68SDS            | EQM2B068 | 2B68SDS            | EQM3B068 | 3B68SD             |
| 7.35  | EQM1B070  | 1B70SDS            | EQM2B070 | 2B70SK             | EQM3B070 | 3B70SK             |
| 7.75  | EQM1B074  | 1B74SDS            | EQM2B074 | 2B74SK             | EQM3B074 | 3B74SK             |
| 8.35  | EQM1B080  | 1B80SDS            | EQM2B080 | 2B80SK             | EQM3B080 | 3B80SK             |
| 8.95  | EQM1B086  | 1B86SDS            | EQM2B086 | 2B86SK             | EQM3B086 | 3B86SK             |
| 9.35  | EQM1B090* | 1B90SDS            | EQM2B090 | 2B90SK             | EQM3B090 | 3B90SK             |
| 9.75  | EQM1B094  | 1B94SDS            | EQM2B094 | 2B94SK             | EQM3B094 | 3B94SK             |
| 11.35 | EQM1B110  | 1B110SDS           | EQM2B110 | 2B110SK            | EQM3B110 | 3B110SK            |
| 12.75 | EQM1B124  | 1B124SDS           | EQM2B124 | 2B124SK            | EQM3B124 | 3B124SK            |
| 13.95 | EQM1B136  | 1B136SDS           | EQM2B136 | 2B136SK            | EQM3B136 | 3B136SK*           |
| 15.75 | EQM1B154  | 1B154SK            | EQM2B154 | 2B154SK            | EQM3B154 | 3B154SK*           |
| 16.35 | EQM1B160  | 1B160SK            | EQM2B160 | 2B160SK            | EQM3B160 | 3B160SK            |
| 18.75 | EQM1B184  | 1B184SK            | EQM2B184 | 2B184SK            | EQM3B184 | 3B184SK            |
| 20.35 | EQM1B200  | 1B200SK            | EQM2B200 | 2B200SF            | EQM3B200 | 3B200SF            |

\*These sizes are not a stock size.

Please note: These sheaves are also available in 4, 5, 6, 7, 8, and 10 grooves and up to 38.35" OD for B, C, 3V, 5V, and 8V belts. Sizes we don't stock are typically stocked only 1 day's shipping away.

# QD BUSHINGS

## DIMENSIONS



| Bushing | A    | B      | C       | D       | E     | Bolts Required | Bolt Size   |
|---------|------|--------|---------|---------|-------|----------------|-------------|
| SH      | 7/16 | 7/8    | 1 5/16  | 2 11/16 | 1.871 | 3              | 1/4 X 1 3/8 |
| SDS     | 7/16 | 7/8    | 1 5/16  | 3 1/8   | 2.187 | 3              | 1/4 X 1 3/8 |
| SD      | 7/16 | 1 3/8  | 1 13/16 | 3 1/8   | 2.187 | 3              | 1/4 X 1 7/8 |
| SK      | 9/16 | 1 3/8  | 1 15/16 | 3 7/8   | 2.812 | 3              | 5/16 X 2    |
| SF      | 5/8  | 1 7/16 | 2 1/16  | 4 5/8   | 3.125 | 3              | 5/16 X 2    |

## Keyway Dimensions

| STANDARD KEY SEATS  |   |
|---|---|
| Bore Size   | Key Seat                                  |
| 1/2, 9/16   | 1/8 X 1/16                                |
| 5/8, 11/16, 3/4, 13/16, 7/8                                 | 3/16 X 3/32                               |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4                      | 1/4 X 1/8                                 |
| 1 5/16, 1 3/8   | 5/16 X 5/32                               |
| 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4                | 3/8 X 3/16                                |
| *1 13/16, 1 7/8, 1 15/16, 2, 2 1/16,                        | 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8 |
| 2 1/8, 2 3/16, 2 1/4"                                       | 1/2 X 1/4                                 |
| 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16, 2 3/4 | 5/8 X 5/16                                |
| 2 13/16, 2 7/8, 2 15/16                                     | 3/4 X 3/8                                 |

| EXCEPTIONS TO STANDARD KEY SEATS (KEY STOCK SUPPLIED W/BUSHING) |            |
|---|------------|
| Bushing & Bore Size   | Key Seat   |
| SH X 1 7/16, 1 1/2, 1 9/16, 1 5/8                               | 3/8 X 1/16 |
| SH X 1 11/16, 1 3/4   | NO KEY     |
| SDS, SD X 1 3/4   | 3/8 X 1/8  |
| SDS, SD X 1 13/16   | 1/2 X 1/8  |
| SDS, SD X 1 7/8, 1 15/16  | 1/2 X 1/16 |
| SDS, SD X 2   | NO KEY     |
| SK X 2 3/16, 2 1/4  | 1/2 X 1/8  |
| SK X 2 5/16, 2 3/8, 2 7/16, 2 1/2                               | 5/8 X 1/16 |
| SK X 2 9/16, 2 5/8  | NO KEY     |
| SF X 2 5/16, 2 3/8, 2 7/16, 2 1/2                               | 5/8 X 3/16 |
| SF X 2 9/16, 2 5/8, 2 11/16, 2 3/4                              | 5/8 X 1/16 |
| SF X 2 13/16, 2 7/8   | 3/4 X 1/16 |
| SF X 2 15/16  | NO KEY     |

\*Shallow Key seat. Key Stock supplied with bushing.

# QD BUSHINGS

POWER TRANSMISSION

| Part #   | Masterdrive Part # |
|----------|--------------------|
| EQMSH09  | SH X 9/16          |
| EQMSH10  | SH X 5/8           |
| EQMSH12  | SH X 3/4           |
| EQMSH13  | SH X 13/16         |
| EQMSH14  | SH X 7/8           |
| EQMSH15  | SH X 15/16         |
| EQMSH16  | SH X 1             |
| EQMSH17  | SH X 1 1/16        |
| EQMSH18  | SH X 1 1/8         |
| EQMSH19  | SH X 1 3/16        |
| EQMSH20  | SH X 1 1/4         |
| EQMSH22  | SH X 1 3/8         |
| EQMSH23  | SH X 1 7/16        |
| EQMSH24  | SH X 1 1/2         |
| EQMSH26  | SH X 1 5/8         |
| EQMSH28  | SH X 1 3/4         |
| EQMSDS08 | SDS X 1/2          |
| EQMSDS10 | SDS X 5/8          |
| EQMSDS12 | SDS X 3/4          |
| EQMSDS14 | SDS X 7/8          |
| EQMSDS15 | SDS X 15/16        |
| EQMSDS16 | SDS X 1            |
| EQMSDS18 | SDS X 1 1/8        |
| EQMSDS20 | SDS X 1 1/4        |
| EQMSDS22 | SDS X 1 3/8        |
| EQMSDS23 | SDS X 1 7/16       |
| EQMSDS24 | SDS X 1 1/2        |
| EQMSDS26 | SDS X 1 5/8        |
| EQMSDS28 | SDS X 1 3/4        |
| EQMSDS30 | SDS X 1 7/8        |
| EQMSDS32 | SDS X 2            |
| EQMSD16  | SD X 1             |
| EQMSD18  | SD X 1 1/8         |
| EQMSD19  | SD X 1 3/16        |
| EQMSD20  | SD X 1 1/4         |
| EQMSD22  | SD X 1 3/8         |
| EQMSD23  | SD X 1 7/16        |
| EQMSD24  | SD X 1 1/2         |
| EQMSD25  | SD X 1 9/16        |
| EQMSD26  | SD X 1 5/8         |
| EQMSD28  | SD X 1 3/4         |
| EQMSD30  | SD X 1 7/8         |
| EQMSD32  | SD X 2             |



| Part #  | Masterdrive Part # |
|---------|--------------------|
| EQMSK10 | SK X 5/8           |
| EQMSK12 | SK X 3/4           |
| EQMSK14 | SK X 7/8           |
| EQMSK16 | SK X 1             |
| EQMSK18 | SK X 1 1/8         |
| EQMSK19 | SK X 1 3/16        |
| EQMSK20 | SK X 1 1/4         |
| EQMSK22 | SK X 1 3/8         |
| EQMSK23 | SK X 1 7/16        |
| EQMSK24 | SK X 1 1/2         |
| EQMSK26 | SK X 1-5/8         |
| EQMSK28 | SK X 1 3/4         |
| EQMSK30 | SK X 1 7/8         |
| EQMSK31 | SK X 1 15/16       |
| EQMSK32 | SK X 2             |
| EQMSK34 | SK X 2 1/8         |
| EQMSK35 | SK X 2 3/16        |
| EQMSK36 | SK X 2 1/4         |
| EQMSK40 | SK X 2 1/2         |
| EQMSF16 | SF X 1             |
| EQMSF18 | SF X 1 1/8         |
| EQMSF20 | SF X 1 1/4         |
| EQMSF22 | SF X 1 3/8         |
| EQMSF23 | SF X 1 7/16        |
| EQMSF24 | SF X 1 1/2         |
| EQMSF26 | SF X 1 5/8         |
| EQMSF27 | SF X 1 11/16       |
| EQMSF28 | SF X 1 3/4         |
| EQMSF30 | SF X 1 7/8         |
| EQMSF31 | SF X 1 15/16       |
| EQMSF32 | SF X 2             |
| EQMSF34 | SF X 2 1/8         |
| EQMSF35 | SF X 2 3/16        |
| EQMSF36 | SF X 2 1/4         |
| EQMSF40 | SF X 2 1/2         |

If you don't see the bore size you need listed here, give us a call. Most non stock sizes as well as metric bore sizes are available in 1-2 days. QD Bushings are also available in sizes JA, E, F, J, M, N, P, W.

# DOUBLE SPLIT TAPER BUSHED PULLEYS & DOUBLE SPLIT TAPER BUSHINGS

## DOUBLE SPLIT TAPER BUSHED PULLEYS

3 GROOVE WIDTH = 2 1/2

| OD   | Part #     | Masterdrive Part # |
|------|------------|--------------------|
| 3.75 | EQM3B034P2 | 3B34P2             |
| 3.95 | EQM3B036P2 | 3B36P2             |
| 4.15 | EQM3B038P1 | 3B38P1             |
| 4.35 | EQM3B040P1 | 3B40P1             |
| 4.55 | EQM3B042P1 | 3B42P1             |



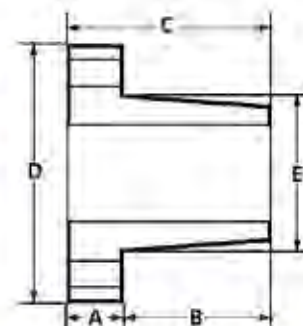
Double Split Taper Bushed Pulleys are a heavy duty cast iron pulley and are used with 3 bolt bushings.

These pulleys are available as well in 1, 2, and 4 groove up to 38.35" in diameter.

## DOUBLE SPLIT TAPER BUSHINGS

### Dimensions

| Bushing | A     | B       | C       | D     | E       | Bolts Required | Bolt Size   |
|---------|-------|---------|---------|-------|---------|----------------|-------------|
| P1      | 13/32 | 1 17/32 | 1 15/16 | 3     | 1 15/16 | 3              | 5/16 X 1    |
| P2      | 13/32 | 2 17/32 | 2 15/16 | 3     | 1 15/16 | 3              | 5/16 X 1    |
| Q1      | 17/32 | 1 31/32 | 3 3/8   | 4 1/8 | 2 7/8   | 3              | 3/8 X 1 1/4 |



### Keyway Dimensions

| Bushing    | Bore Sizes   | Key Seat    |
|------------|--|-------------|
| P1         | 1/2, 9/16  | 1/8 X 1/16  |
| P1, P2, Q1 | 5/8, 11/16, 3/4, 13/16, 7/8                              | 3/16 X 3/32 |
| P1, P2, Q1 | 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4                   | 1/4 X 1/8   |
| P1, P2, Q1 | 1 5/16, 1 3/8  | 5/16 X 5/32 |
| P1, P2, Q1 | 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16                    | 3/8 X 3/16  |
| P1, Q1     | 1 3/4  | 3/8 X 3/16  |
| Q1         | 1 13/16, 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4 | 1/2 X 1/4   |
| Q1         | 2 5/16, 2 3/8, 2 7/16, 2 1/2, 2 9/16, 2 5/8, 2 11/16     | 5/8 X 5/16  |

# DOUBLE SPLIT TAPER BUSHINGS & VARIABLE PITCH PULLEYS

POWER TRANSMISSION

## DOUBLE SPLIT TAPER BUSHINGS



| Part #  | Masterdrive Part # |
|---------|--------------------|
| EQMP110 | P1 X 5/8           |
| EQMP112 | P1 X 3/4           |
| EQMP114 | P1 X 7/8           |
| EQMP116 | P1 X 1             |
| EQMP118 | P1 X 1 1/8         |
| EQMP120 | P1 X 1 1/4         |
| EQMP122 | P1 X 1 3/8         |
| EQMP123 | P1 X 1 7/16        |
| EQMP124 | P1 X 1 1/2         |
| EQMP126 | P1 X 1 5/8         |

| Part #  | Masterdrive Part # |
|---------|--------------------|
| EQMP128 | P1 X 1 3/4         |
| EQMP214 | P2 X 7/8           |
| EQMP216 | P2 X 1             |
| EQMP218 | P2 X 1 1/8         |
| EQMP220 | P2 X 1 1/4         |
| EQMP222 | P2 X 1 3/8         |
| EQMP223 | P2 X 1 7/16        |
| EQMP224 | P2 X 1 1/2         |
| EQMP226 | P2 X 1 5/8         |
| EQMQ116 | Q1 X 1             |

These bushings are also available in Q2, R1, R2 sizes and in more bore sizes in imperial and metric with a 1-2 day lead time.

## VARIABLE PITCH PULLEYS

Variable Pitch Pulleys are designed so their pitch can be increased or decreased by turning one side of the pulley towards or away from the other side of the pulley. They can be used with 3L, 4L, 5L, A, or B Belts.



| Part #     | Masterdrive Part # | OD   |
|------------|--------------------|------|
| EQM1VL3410 | 1VL34 X 5/8        | 3.15 |
| EQM1VL4010 | 1VL40 X 5/8        | 3.75 |
| EQM1VL4012 | 1VL40 X 3/4        | 3.75 |
| EQM1VL4014 | 1VL40 X 7/8        | 3.75 |
| EQM1VP4018 | 1VP40 X 1 1/8      | 3.75 |

Available in OD sizes 2.38" to 7.5". Sizes not listed here are typically available in 1-2 days.

# BALDOR • MASKA

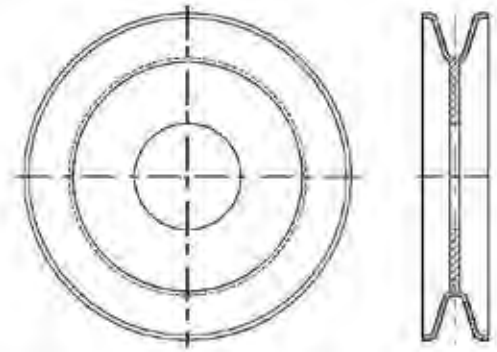
Maska offers a broad range of power transmission products in the line of sheaves, bushings, and couplings. Lead time on Maska products is 2-3 days.





# WELD-ON PULLEYS

Weld on Pulleys are for light duty applications only. They are made in a one piece split construction. They are designed for use with the weld on hubs which are listed with the weld on sprockets.



POWER TRANSMISSION

| Part #     | Pulley #   | OD  | Weld on Hub Series | Fits Belt Sizes |
|------------|------------|-----|--------------------|-----------------|
| EQ00710025 | 00710025*  | 2.5 | V                  | A & B           |
| EQ00710030 | 00710030*  | 3   | V                  | A & B           |
| EQ00720030 | V0300S     | 3   | V                  | A & B           |
| EQ00720035 | W0350S     | 3.5 | W                  | A & B           |
| EQ00720040 | W0400S     | 4   | W                  | A & B           |
| EQ00720045 | W0450S     | 4.5 | W                  | A & B           |
| EQ00720050 | W0500S     | 5   | W                  | A & B           |
| EQ00720055 | W0550S     | 5.5 | W                  | A & B           |
| EQ00720060 | W0600S     | 6   | W                  | A & B           |
| EQ00720065 | W0650S     | 6.5 | W                  | A & B           |
| EQ00720070 | W0700S     | 7   | W                  | A & B           |
| EQ00720080 | W0800S     | 8   | W                  | A & B           |
| EQ00720090 | W0900S     | 9   | W                  | A & B           |
| EQ00720100 | W1000S     | 10  | W                  | A & B           |
| EQ00720110 | W1100S     | 11  | W                  | A & B           |
| EQ00720120 | X1200S     | 12  | X                  | A & B           |
| EQ00720140 | X1400S     | 14  | X                  | A & B           |
| EQ00720160 | X1600S     | 16  | X                  | A & B           |
| EQ00740060 | 00740060** | 6   | X                  | C               |
| EQ00740080 | 00740080** | 8   | X                  | C               |
| EQ00740100 | 00740100** | 10  | X                  | C               |
| EQ00740120 | 00740120** | 12  | X                  | C               |

\*Made from bar stock instead of pressed steel.

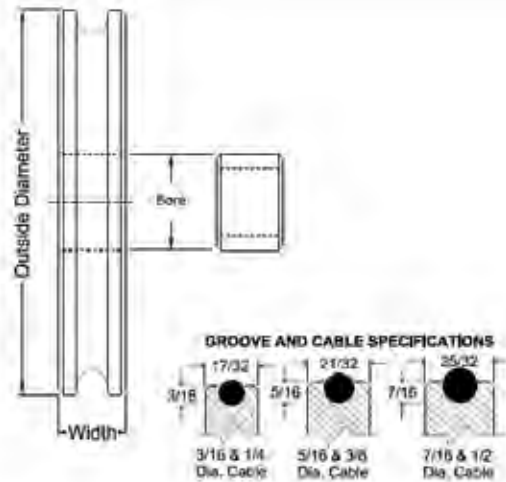
\*\*Non stock items. 2-3 day lead time.

# WIRE ROPE PULLEYS

## STEEL

POWER TRANSMISSION

The 2" to 4" wire rope pulleys on the following table are made of low carbon steel and are designed with a 7/8" stock bore to receive a press fit on the 7/8" OD powdered metal bushings. The 5" to 10" wire rope pulleys are made of medium carbon steel and are designed with a 1 1/4" stock bore to receive a press fit on the 1 1/4" OD powdered metal bushings. Only pulleys with a \* are stock items. All others have a 2-3 day lead time.

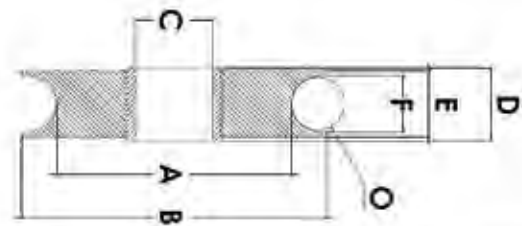


| Part #     | G & G Part # | OD  | Width | Cable Sizes |
|------------|--------------|-----|-------|-------------|
| EQ150-3217 | 150-3217     | 2   | 17/32 | 3/16 & 1/4  |
| EQ150-3221 | 150-3221*    | 2   | 21/32 | 5/16 & 3/8  |
| EQ150-3225 | 150-3225     | 2   | 25/32 | 7/16 & 1/2  |
| EQ150-4017 | 150-4017     | 2.5 | 17/32 | 3/16 & 1/4  |
| EQ150-4021 | 150-4021     | 2.5 | 21/32 | 5/16 & 3/8  |
| EQ150-4025 | 150-4025*    | 2.5 | 25/32 | 7/16 & 1/2  |
| EQ150-4817 | 150-4817     | 3   | 17/32 | 3/16 & 1/4  |
| EQ150-4821 | 150-4821     | 3   | 21/32 | 5/16 & 3/8  |
| EQ150-4825 | 150-4825*    | 3   | 25/32 | 7/16 & 1/2  |
| EQ150-5617 | 150-5617     | 3.5 | 17/32 | 3/16 & 1/4  |
| EQ150-5621 | 150-5621*    | 3.5 | 21/32 | 5/16 & 3/8  |
| EQ150-5625 | 150-5625     | 3.5 | 25/32 | 7/16 & 1/2  |

| Part #     | G & G Part # | OD | Width | Cable Sizes |
|------------|--------------|----|-------|-------------|
| EQ150-6417 | 150-6417     | 4  | 17/32 | 3/16 & 1/4  |
| EQ150-6421 | 150-6421*    | 4  | 21/32 | 5/16 & 3/8  |
| EQ150-6425 | 150-6425     | 4  | 25/32 | 7/16 & 1/2  |
| EQ150-8006 | 150-8006*    | 5  | 7/8   | 5/16 & 3/8  |
| EQ150-8008 | 150-8008     | 5  | 7/8   | 7/16 & 1/2  |
| EQ150-9606 | 150-9606     | 6  | 7/8   | 5/16 & 3/8  |
| EQ150-9608 | 150-9608     | 6  | 7/8   | 7/16 & 1/2  |
| EQ15011208 | 15011208     | 7  | 7/8   | 7/16 & 1/2  |
| EQ15012808 | 15012808     | 8  | 7/8   | 7/16 & 1/2  |
| EQ15014408 | 15014408     | 9  | 7/8   | 7/16 & 1/2  |
| EQ15016008 | 15016008     | 10 | 7/8   | 7/16 & 1/2  |

## STEEL WITH BRONZE BUSHING

Our Wire Rope Pulleys w/Bronze Bushings are manufactured by Block Division. Block Division manufactures many different types of wire rope pulleys and blocks. Call us for price and availability if you don't see what you need.



| Part #    | Block Part # | Max Cable | A   | B   | C   | D     | E    | F     | Work Load |
|-----------|--------------|-----------|-----|-----|-----|-------|------|-------|-----------|
| EQSWRBB20 | 00258        | 1/4       | 2   | 2.5 | 1/2 | 15/32 | 7/16 | 5/16  | 685 LBS.  |
| EQSWRBB24 | 00308        | 1/4       | 2.5 | 3   | 1/2 | 15/32 | 7/16 | 5/16  | 800 LBS.  |
| EQSWRBB28 | 00358        | 5/16      | 3   | 3.5 | 3/4 | 11/16 | 5/8  | 15/32 | 1550 LBS. |

## UHMW

These are an equivalent dimensionally to the G & G wire rope pulleys which share their part # but are made of UHMW material.

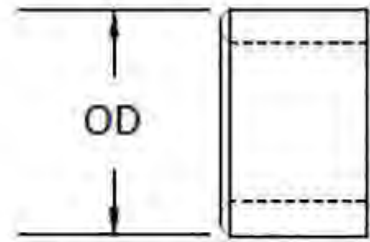
| Part #      | G & G Part # | OD  | Width | Cable Sizes |
|-------------|--------------|-----|-------|-------------|
| EQ150-4025P | 150-4025P    | 2.5 | 25/32 | 7/16 & 1/2  |
| EQ150-5625P | 150-5625P    | 3.5 | 25/32 | 7/16 & 1/2  |

# POWDERED METAL BUSHINGS & WIRE ROPE BLOCKS

## POWDERED METAL BUSHINGS

| Part #     | G & G Part # | OD    | ID    | Width |
|------------|--------------|-------|-------|-------|
| EQ151-0817 | 151-0817     | 7/8   | 1/2   | 17/32 |
| EQ151-0821 | 151-0821     | 7/8   | 1/2   | 21/32 |
| EQ151-0825 | 151-0825     | 7/8   | 1/2   | 25/32 |
| EQ151-1017 | 151-1017     | 7/8   | 5/8   | 17/32 |
| EQ151-1021 | 151-1021     | 7/8   | 5/8   | 21/32 |
| EQ151-1025 | 151-1025     | 7/8   | 5/8   | 25/32 |
| EQ151-1217 | 151-1217*    | 7/8   | 3/4   | 17/32 |
| EQ151-1221 | 151-1221     | 7/8   | 3/4   | 21/32 |
| EQ151-1225 | 151-1225     | 7/8   | 3/4   | 25/32 |
| EQ151-1214 | 151-1214     | 1 1/4 | 3/4   | 7/8   |
| EQ151-1414 | 151-1414*    | 1 1/4 | 7/8   | 7/8   |
| EQ151-1614 | 151-1614*    | 1 1/4 | 1     | 7/8   |
| EQ151-1814 | 151-1814*    | 1 1/4 | 1 1/8 | 7/8   |

\*These bushings are not in stock and have a 2-3 day lead time.



These Powdered Metal Bushings are specifically designed for use with the steel wire rope pulleys.

## WIRE ROPE BLOCKS

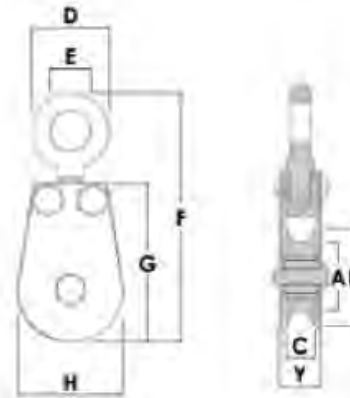
Our Wire Rope Blocks are manufactured by Block Division. Block Division also manufactures the following wire rope blocks:

- Swivel Eye Block Single and Double Sheave 1 1/2"-5"
- Flat Mount Block Single and Double Sheave 1 1/2"-5"
- Fixed Eye Block Single and Double Sheave 1 1/2"-5"
- Swivel Hook Block Single and Double Sheave 1 1/2"-5"

Except for the ones below which we stock they are available in 4-5 days.

## SWIVEL EYE

### Dimensions



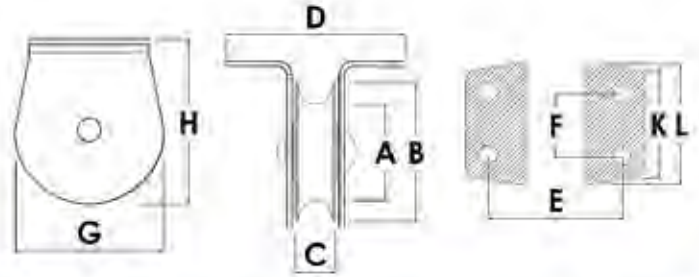
| Model No. | Max Cable | A | B     | C    | D     | E   | F       | G      | H     | Working Load |
|-----------|-----------|---|-------|------|-------|-----|---------|--------|-------|--------------|
| 01548     | 3/16      | 1 | 1-1/2 | 7/16 | 1-1/4 | 5/8 | 3-13/16 | 2-7/16 | 1-5/8 | 525 LBS.     |

| Part #  | Block Part # | Pulley OD | Max Cable Size |
|---------|--------------|-----------|----------------|
| EQSEB12 | 01548        | 1 1/2"    | 3/16           |

# WIRE ROPE BLOCKS & IDLER PULLEYS

## WIRE ROPE BLOCKS

### FLAT MOUNT Dimensions



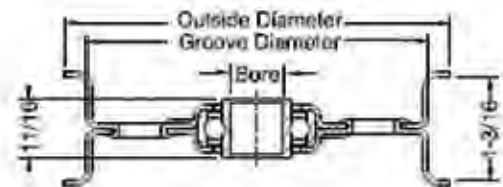
| Model No. | Max Cable | A | B     | C    | D | E      | F     | G     | H     | K     | L     | Working Load |
|-----------|-----------|---|-------|------|---|--------|-------|-------|-------|-------|-------|--------------|
| 01558     | 3/16      | 1 | 1 1/2 | 7/16 | 2 | 1 7/16 | 11/16 | 1 5/8 | 1 7/8 | 1 1/8 | 1 3/8 | 525 LBS.     |

| Part #  | Block Part # | Pulley OD | Max Cable Size |
|---------|--------------|-----------|----------------|
| EQFMB12 | 01558        | 1 1/2"    | 3/16           |

## IDLER PULLEYS

### BACKSIDE

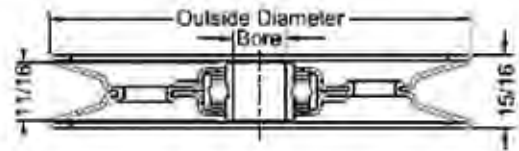
Backside Idler Pulleys have a flat surface designed to push in against the backside of a v-belt. They are 1 3/16 wide.



| Part #     | G & G Part # | Pulley OD | Groove Diameter | Bore |
|------------|--------------|-----------|-----------------|------|
| EQ011-4408 | 011-4408     | 3 1/4     | 2 3/4           | 1/2  |
| EQ011-4410 | 011-4410     | 3 1/4     | 2 3/4           | 5/8  |
| EQ011-6408 | 011-6408     | 4 1/2     | 4               | 1/2  |
| EQ011-6410 | 011-6410     | 4 1/2     | 4               | 5/8  |

### FRONTSIDE

Frontside Idler Pulleys have a traditional v design and are made to push out against the frontside or the v of a v-belt.

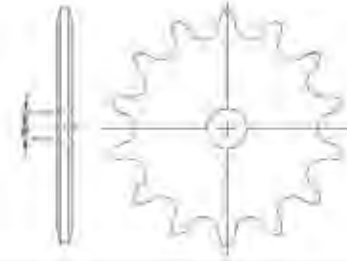


| Part #     | G & G Part # | Pulley OD | Bore | Fits Belt Size |
|------------|--------------|-----------|------|----------------|
| EQ011-8008 | 011-8008     | 5         | 1/2  | A & B          |
| EQ011-8010 | 011-8010     | 5         | 5/8  | A & B          |

# WELD-ON SPROCKETS

Weld on sprockets provide a large variety of sprockets at your fingertips without needing to rebores for proper bore size.

Having the number 5 added as an 11th digit in the part number indicates that the sprocket is imported. If the part number does not have a 5 for the 11th digit the sprocket is US made and is not available as an imported product. The sprocket # indicates chain size, number of teeth, and hub series required. (4024X is a sprocket for 40 chain with 24 teeth and uses an X series weld on hub).



| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001035155 | 3515V      | 1.989  |
| EQ00103516  | 3516V      | 2.110  |
| EQ00103517  | 3517V      | 2.231  |
| EQ00103518  | 3518V      | 2.352  |
| EQ00103519  | 3519V      | 2.472  |
| EQ001035205 | 3520V      | 2.593  |
| EQ00103521  | 3521V      | 2.713  |
| EQ00103522  | 3522W      | 2.833  |
| EQ00103523  | 3523W      | 2.954  |
| EQ001035245 | 3524W      | 3.074  |
| EQ001035255 | 3525W      | 3.194  |
| EQ00103526  | 3526W      | 3.314  |
| EQ00103527  | 3527W      | 3.434  |
| EQ00103528  | 3528W      | 3.553  |
| EQ00103530  | 3530W      | 3.793  |
| EQ001035325 | 3532W      | 4.032  |
| EQ00103535  | 3535W      | 4.392  |
| EQ00103536  | 3536W      | 4.511  |
| EQ00103540  | 3540W      | 4.990  |
| EQ001035455 | 3545W      | 5.588  |
| EQ001035485 | 3548W      | 5.946  |
| EQ001035545 | 3554W      | 6.663  |
| EQ001035605 | 3560W      | 7.380  |
| EQ001035725 | 3572W      | 8.814  |
| EQ00103584  | 3584W      | 10.247 |
| EQ00103596  | 3596W      | 11.680 |
| EQ001040115 | 4011V      | 2.003  |
| EQ001040125 | 4012V      | 2.166  |
| EQ001040135 | 4013V      | 2.329  |
| EQ001040145 | 4014V      | 2.491  |
| EQ001040155 | 4015V      | 2.653  |
| EQ001040165 | 4016W      | 2.814  |
| EQ001040175 | 4017W      | 2.975  |
| EQ001040185 | 4018W      | 3.136  |
| EQ001040195 | 4019W      | 3.297  |
| EQ001040205 | 4020X      | 3.457  |
| EQ001040215 | 4021X      | 3.618  |

| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001040225 | 4022X      | 3.778  |
| EQ001040235 | 4023X      | 3.938  |
| EQ001040245 | 4024X      | 4.098  |
| EQ001040255 | 4025X      | 4.258  |
| EQ001040265 | 4026X      | 4.418  |
| EQ001040275 | 4027X      | 4.587  |
| EQ001040285 | 4028X      | 4.738  |
| EQ001040295 | 4029X      | 4.898  |
| EQ001040305 | 4030X      | 5.057  |
| EQ001040315 | 4031X*     | 5.217  |
| EQ001040325 | 4032X      | 5.377  |
| EQ001040335 | 4033X*     | 5.536  |
| EQ001040345 | 4034X      | 5.696  |
| EQ001040355 | 4035X      | 5.856  |
| EQ001040365 | 4036X      | 6.015  |
| EQ001040375 | 4037X*     | 6.174  |
| EQ001040385 | 4038X      | 6.334  |
| EQ001040405 | 4040X      | 6.653  |
| EQ001040425 | 4042X      | 6.972  |
| EQ001040445 | 4044X      | 7.291  |
| EQ001040455 | 4045X      | 7.451  |
| EQ001040465 | 4046X      | 7.609  |
| EQ001040485 | 4048X      | 7.927  |
| EQ001040505 | 4050X      | 8.248  |
| EQ001040525 | 4052X*     | 8.566  |
| EQ001040545 | 4054X      | 8.884  |
| EQ001040605 | 4060X      | 9.841  |
| EQ001040705 | 4070X*     | 11.433 |
| EQ001040725 | 4072X      | 11.752 |
| EQ001040805 | 4080X      | 13.026 |
| EQ001040845 | 4084X      | 13.663 |
| EQ00104096  | 4096X*     | 15.573 |
| EQ001040112 | 40112X*    | 18.120 |
| EQ001041125 | 4112V      | 2.166  |
| EQ001041135 | 4113V      | 2.329  |
| EQ001041145 | 4114V      | 2.491  |
| EQ001041155 | 4115V      | 2.653  |

# WELD-ON SPROCKETS

POWER TRANSMISSION

| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001041165 | 4116W      | 2.814  |
| EQ001041175 | 4117W      | 2.975  |
| EQ001041185 | 4118W      | 3.136  |
| EQ001041195 | 4119W      | 3.297  |
| EQ001041205 | 4120W      | 3.457  |
| EQ001041215 | 4121W      | 3.618  |
| EQ001041225 | 4122W      | 3.778  |
| EQ001041235 | 4123W      | 3.938  |
| EQ001041245 | 4124W      | 4.098  |
| EQ001041255 | 4125W      | 4.258  |
| EQ001041265 | 4126W      | 4.418  |
| EQ001041275 | 4127W      | 4.587  |
| EQ001041285 | 4128W      | 4.738  |
| EQ001041305 | 4130W      | 5.057  |
| EQ001041325 | 4132W      | 5.377  |
| EQ001041355 | 4135W      | 5.856  |
| EQ001041365 | 4136W      | 6.015  |
| EQ001041405 | 4140W      | 6.653  |
| EQ001041425 | 4142W      | 6.972  |
| EQ001041455 | 4145W      | 7.451  |
| EQ001041485 | 4148W      | 7.927  |
| EQ001041545 | 4154W      | 8.884  |
| EQ001041605 | 4160W      | 9.841  |
| EQ001041725 | 4172W      | 11.752 |
| EQ001050095 | 5009V      | 2.092  |
| EQ001050105 | 5010V      | 2.266  |
| EQ001050115 | 5011V      | 2.504  |
| EQ001050125 | 5012W      | 2.708  |
| EQ001050135 | 5013W      | 2.911  |
| EQ001050145 | 5014W      | 3.114  |
| EQ001050155 | 5015W      | 3.316  |
| EQ001050165 | 5016W      | 3.517  |
| EQ001050175 | 5017X      | 3.719  |
| EQ001050185 | 5018X      | 3.919  |
| EQ001050195 | 5019X      | 4.121  |
| EQ001050205 | 5020X      | 4.321  |
| EQ001050215 | 5021X      | 4.521  |
| EQ001050225 | 5022X      | 4.722  |
| EQ001050235 | 5023X      | 4.922  |
| EQ001050245 | 5024X      | 5.123  |
| EQ001050255 | 5025X      | 5.323  |
| EQ001050265 | 5026X      | 5.532  |
| EQ001050275 | 5027X*     | 5.723  |
| EQ001050285 | 5028X      | 5.922  |
| EQ001050295 | 5029X      | 6.122  |

| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001050305 | 5030X      | 6.321  |
| EQ001050315 | 5031X*     | 6.521  |
| EQ001050325 | 5032X      | 6.721  |
| EQ001050335 | 5033X*     | 6.921  |
| EQ001050345 | 5034X      | 7.120  |
| EQ001050355 | 5035X      | 7.319  |
| EQ001050365 | 5036X      | 7.519  |
| EQ001050375 | 5037X*     | 7.718  |
| EQ001050385 | 5038X      | 7.918  |
| EQ001050395 | 5039X*     | 8.117  |
| EQ001050405 | 5040X      | 8.316  |
| EQ001050415 | 5041X*     | 8.516  |
| EQ001050425 | 5042X      | 8.715  |
| EQ001050435 | 5043X*     | 8.914  |
| EQ001050445 | 5044X      | 9.114  |
| EQ001050455 | 5045X      | 9.313  |
| EQ001050465 | 5046X      | 9.512  |
| EQ001050485 | 5048X      | 9.911  |
| EQ001050505 | 5050X      | 10.309 |
| EQ001050525 | 5052X      | 10.708 |
| EQ001050545 | 5054X      | 11.106 |
| EQ001050605 | 5060X      | 12.301 |
| EQ001050655 | 5065X*     | 13.297 |
| EQ001050705 | 5070X*     | 14.292 |
| EQ001050725 | 5072X      | 14.690 |
| EQ001050805 | 5080X      | 16.283 |
| EQ001050845 | 5084X*     | 17.079 |
| EQ00105096  | 5096X*     | 19.467 |
| EQ001050112 | 50112X*    | 22.651 |
| EQ001060095 | 6009V      | 2.510  |
| EQ001060105 | 6010V      | 2.759  |
| EQ001060115 | 6011W      | 3.005  |
| EQ001060125 | 6012W      | 3.249  |
| EQ001060135 | 6013W      | 3.493  |
| EQ001060145 | 6014W      | 3.736  |
| EQ001060155 | 6015X      | 3.979  |
| EQ001060165 | 6016X      | 4.220  |
| EQ001060175 | 6017X      | 4.463  |
| EQ001060185 | 6018X      | 4.703  |
| EQ001060195 | 6019X      | 4.945  |
| EQ001060205 | 6020X      | 5.186  |
| EQ001060215 | 6021X      | 5.426  |
| EQ001060225 | 6022X      | 5.666  |
| EQ001060235 | 6023X*     | 5.906  |
| EQ001060245 | 6024X      | 6.147  |

# WELD-ON SPROCKETS

| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001060255 | 6025X      | 6.387  |
| EQ001060265 | 6026X      | 6.627  |
| EQ001060275 | 6027X*     | 6.867  |
| EQ001060285 | 6028X      | 7.106  |
| EQ001060295 | 6029X      | 7.346  |
| EQ001060305 | 6030X      | 7.586  |
| EQ001060315 | 6031X*     | 7.826  |
| EQ001060325 | 6032X      | 8.065  |
| EQ00106033  | 6033X*     | 8.305  |
| EQ001060345 | 6034X      | 8.544  |
| EQ001060355 | 6035X      | 8.783  |
| EQ001060365 | 6036X      | 9.023  |
| EQ001060385 | 6038X      | 9.501  |
| EQ001060395 | 6039X*     | 9.740  |
| EQ001060405 | 6040X      | 9.980  |
| EQ001060415 | 6041X*     | 10.219 |
| EQ001060425 | 6042X      | 10.458 |
| EQ001060445 | 6044X      | 10.937 |
| EQ001060455 | 6045X      | 11.180 |
| EQ001060465 | 6046X      | 11.414 |
| EQ001060485 | 6048X      | 11.893 |
| EQ001060505 | 6050X      | 12.371 |
| EQ001060545 | 6054X      | 13.327 |
| EQ001060605 | 6060X      | 14.761 |
| EQ001060725 | 6072X      | 17.628 |
| EQ00106080  | 6080X      | 19.539 |
| EQ00106096  | 6096X*     | 23.360 |
| EQ001060112 | 60112X*    | 27.181 |
| EQ001080095 | 8009W      | 3.347  |
| EQ001080105 | 8010W      | 3.678  |
| EQ001080115 | 8011W      | 4.000  |
| EQ001080125 | 8012X      | 4.332  |
| EQ001080135 | 8013X      | 4.657  |
| EQ001080145 | 8014X      | 4.982  |
| EQ001080155 | 8015X      | 5.305  |
| EQ001080165 | 8016X      | 5.627  |
| EQ001080175 | 8017X      | 5.950  |
| EQ001080185 | 8018X      | 6.271  |
| EQ001080195 | 8019X      | 6.593  |
| EQ001080205 | 8020X      | 6.914  |
| EQ001080215 | 8021X      | 7.240  |
| EQ001080225 | 8022X      | 7.555  |
| EQ001080245 | 8024X      | 8.196  |
| EQ001080255 | 8025X*     | 8.516  |

| Part #      | Sprocket # | OD     |
|-------------|------------|--------|
| EQ001080265 | 8026X      | 8.836  |
| EQ001080275 | 8027X*     | 9.156  |
| EQ001080285 | 8028X      | 9.475  |
| EQ001080295 | 8029X*     | 9.795  |
| EQ001080305 | 8030X      | 10.114 |
| EQ001080325 | 8032X      | 10.753 |
| EQ001080335 | 8033X      | 11.072 |
| EQ00108034  | 8034X*     | 11.392 |
| EQ001080365 | 8036X      | 12.030 |
| EQ001080405 | 8040X      | 13.306 |
| EQ00108045  | 8045X      | 14.901 |
| EQ00108048  | 8048X      | 15.857 |
| EQ001080605 | 8060Y      | 19.681 |
| EQ00108070  | 8070Y      | 22.867 |
| EQ00108072  | 8072Y      | 23.504 |
| EQ00108076  | 8076Y      | 24.778 |
| EQ00108080  | 8080Y      | 26.052 |
| EQ00108084  | 8084Y      | 27.326 |
| EQ00108090  | 8090Y      | 29.236 |
| EQ00108096  | 8096Y      | 31.146 |
| EQ001080112 | 80112Y     | 36.241 |
| EQ00110010  | 10010X     | 4.598  |
| EQ00110011  | 10011X     | 5.008  |
| EQ00110012  | 10012X     | 5.415  |
| EQ00110013  | 10013X     | 5.821  |
| EQ00110014  | 10014Y     | 6.228  |
| EQ00110015  | 10015Y     | 6.631  |
| EQ00110016  | 10016Y     | 7.034  |
| EQ00110017  | 10017Y     | 7.438  |
| EQ00110018  | 10018Y     | 7.839  |
| EQ00110019  | 10019Y     | 8.241  |
| EQ00110020  | 10020Y     | 8.643  |
| EQ00110021  | 10021Y     | 9.040  |
| EQ00110022  | 10022Y     | 9.440  |
| EQ00110023  | 10023Y     | 9.840  |
| EQ00110024  | 10024Y     | 10.250 |
| EQ00110025  | 10025Y     | 10.650 |
| EQ00110026  | 10026Y     | 11.050 |
| EQ00110028  | 10028Y     | 11.840 |
| EQ00110030  | 10030Y     | 12.640 |
| EQ00110032  | 10032Y     | 13.440 |
| EQ00110035  | 10035Y     | 14.640 |
| EQ00110036  | 10036Y     | 15.040 |

POWER TRANSMISSION

\*Non-stock sprockets. 35, 41, and 100 are non stock sprockets as well as 80 sprockets with 40 or more teeth. Lead time is 2-3 days on these sizes.

# HARDENED TOOTH WELDASPROCKETS®

Hardened Tooth Weldasprockets are an exact equivalent of standard weld-on sprockets with teeth that are hardened to a Rockwell Hardness of C35-45. The sprocket # indicates chain size, number of teeth, and hub series required. (4024X is a sprocket for 40 chain with 24 teeth and uses an X series weld on hub). They are not a stock product but are available in 2-3 days. They are manufactured in the USA by G & G Manufacturing.

POWER TRANSMISSION

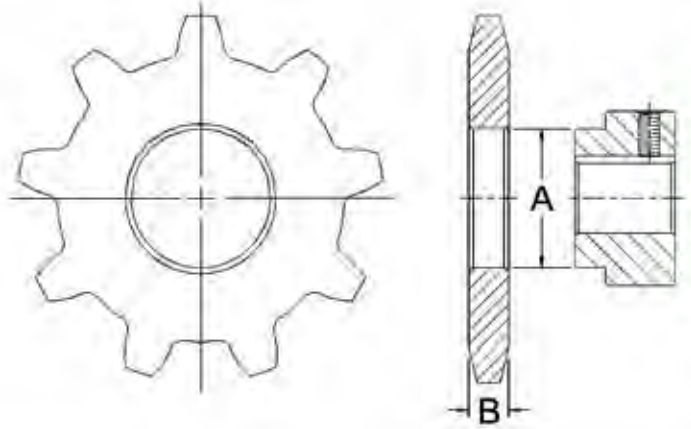
| Part #     | Sprocket # | OD    |
|------------|------------|-------|
| EQ00304012 | 4012V      | 2.166 |
| EQ00304013 | 4013V      | 2.329 |
| EQ00304014 | 4014V      | 2.491 |
| EQ00304015 | 4015V      | 2.653 |
| EQ00304016 | 4016W      | 2.814 |
| EQ00304017 | 4017W      | 2.975 |
| EQ00304018 | 4018W      | 3.136 |
| EQ00304019 | 4019W      | 3.297 |
| EQ00304020 | 4020X      | 3.457 |
| EQ00304021 | 4021X      | 3.618 |
| EQ00304022 | 4022X      | 3.778 |
| EQ00304023 | 4023X      | 3.938 |
| EQ00304024 | 4024X      | 4.098 |
| EQ00304025 | 4025X      | 4.258 |
| EQ00304026 | 4026X      | 4.418 |
| EQ00304027 | 4027X      | 4.587 |
| EQ00304028 | 4028X      | 4.738 |
| EQ00304029 | 4029X      | 4.898 |
| EQ00304030 | 4030X      | 5.057 |
| EQ00305010 | 5010V      | 2.266 |
| EQ00305011 | 5011V      | 2.504 |
| EQ00305012 | 5012W      | 2.708 |
| EQ00305013 | 5013W      | 2.911 |
| EQ00305014 | 5014W      | 3.114 |
| EQ00305015 | 5015W      | 3.316 |
| EQ00305016 | 5016W      | 3.517 |
| EQ00305017 | 5017X      | 3.719 |
| EQ00305018 | 5018X      | 3.919 |
| EQ00305019 | 5019X      | 4.121 |
| EQ00305020 | 5020X      | 4.321 |
| EQ00305021 | 5021X      | 4.521 |
| EQ00305022 | 5022X      | 4.722 |
| EQ00305023 | 5023X      | 4.922 |
| EQ00305024 | 5024X      | 5.123 |
| EQ00305025 | 5025X      | 5.323 |
| EQ00305026 | 5026X      | 5.532 |
| EQ00305027 | 5027X      | 5.723 |

| Part #     | Sprocket # | OD    |
|------------|------------|-------|
| EQ00305028 | 5028X      | 5.922 |
| EQ00305029 | 5029X      | 6.122 |
| EQ00305030 | 5030X      | 6.321 |
| EQ00306009 | 6009V      | 2.510 |
| EQ00306010 | 6010V      | 2.759 |
| EQ00306011 | 6011W      | 3.005 |
| EQ00306012 | 6012W      | 3.249 |
| EQ00306013 | 6013W      | 3.493 |
| EQ00306014 | 6014W      | 3.736 |
| EQ00306015 | 6015X      | 3.979 |
| EQ00306016 | 6016X      | 4.220 |
| EQ00306017 | 6017X      | 4.463 |
| EQ00306018 | 6018X      | 4.703 |
| EQ00306019 | 6019X      | 4.945 |
| EQ00306020 | 6020X      | 5.186 |
| EQ00306021 | 6021X      | 5.426 |
| EQ00306022 | 6022X      | 5.666 |
| EQ00306023 | 6023X      | 5.906 |
| EQ00306024 | 6024X      | 6.147 |
| EQ00306025 | 6025X      | 6.387 |
| EQ00306026 | 6026X      | 6.627 |
| EQ00306027 | 6027X      | 6.867 |
| EQ00306028 | 6028X      | 7.106 |
| EQ00306029 | 6029X      | 7.346 |
| EQ00306030 | 6030X      | 7.586 |
| EQ00308009 | 8009W      | 3.347 |
| EQ00308010 | 8010W      | 3.678 |
| EQ00308011 | 8011W      | 4.000 |
| EQ00308012 | 8012X      | 4.332 |
| EQ00308013 | 8013X      | 4.657 |
| EQ00308014 | 8014X      | 4.982 |
| EQ00308015 | 8015X      | 5.305 |
| EQ00308016 | 8016X      | 5.627 |
| EQ00308017 | 8017X      | 5.950 |
| EQ00308018 | 8018X      | 6.271 |
| EQ00308019 | 8019X      | 6.593 |
| EQ00308020 | 8020X      | 6.914 |



# STEEL DETACHABLE CHAIN WELDASPROCKETS®

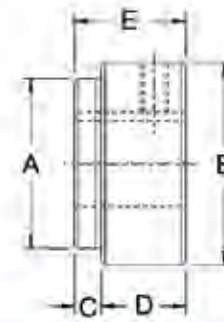
These sprockets are designed to fit steel detachable chain and pintle chain. The sprocket # indicates chain size, number of teeth, and hub series required. (5510X is a sprocket for 55 chain with 10 teeth and uses an X series weld on hub). Only the items with a \* are stock. The others are available in 2-3 days. They are manufactured in the USA by G & G.



| Part #     | Sprocket # | OD    | Width | Pintle Chain Size |
|------------|------------|-------|-------|-------------------|
| EQ01550655 | 5506W*     | 3 3/4 | 9/16  | -                 |
| EQ01550755 | 5507X*     | 4 1/4 | 9/16  | -                 |
| EQ01550855 | 5508X      | 4 3/4 | 9/16  | -                 |
| EQ01550955 | 5509X      | 5 1/4 | 9/16  | -                 |
| EQ01551055 | 5510X      | 5 3/4 | 9/16  | -                 |
| EQ01551155 | 5511X      | 6 1/4 | 9/16  | -                 |
| EQ01551255 | 5512X      | 6 3/4 | 9/16  | -                 |
| EQ01551355 | 5513X      | 7 1/4 | 9/16  | -                 |
| EQ01551455 | 5514X      | 7 3/4 | 9/16  | -                 |
| EQ01551555 | 5515X      | 8 1/4 | 9/16  | -                 |
| EQ01620662 | 6206W      | 3 7/8 | 11/16 | 662               |
| EQ01620762 | 6207W      | 4 3/8 | 11/16 | 662               |
| EQ01620862 | 6208X      | 4 7/8 | 11/16 | 662               |
| EQ01620962 | 6209X      | 5 3/8 | 11/16 | 662               |
| EQ01621062 | 6210X      | 5 7/8 | 11/16 | 662               |
| EQ01621162 | 6211X      | 6 1/2 | 11/16 | 662               |
| EQ01621262 | 6212X      | 7     | 11/16 | 662               |
| EQ01621362 | 6213Y      | 7 1/2 | 11/16 | 662               |
| EQ01621462 | 6214Y      | 8     | 11/16 | 662               |
| EQ01621562 | 6215Y      | 8 1/2 | 11/16 | 662               |
| EQ01670667 | 6706X*     | 5 5/8 | 3/4   | 667X/XH           |

# WELD-ON HUBS

Weld-on Hubs are designed for use with weld-on sprockets and pulleys. Having the number 5 added as an 11th digit in the part number indicates that the hub is imported. If the part number does not have a 5 for the 11th digit the hub is US made and is not available as an imported product.



## Dimensions

|   | V      | W      | X              | XX     | Y      | W Idler | X Idler        |
|---|--------|--------|----------------|--------|--------|---------|----------------|
| A | 1 1/8  | 1 5/8  | 2              | 2      | 2 3/4  | 1 5/8   | 2              |
| B | 1 7/16 | 1 3/4  | 2 1/4 TO 2 1/2 | 3      | 3 3/4  | 1 3/4   | 2 1/4 TO 2 1/2 |
| C | 7/16   | 7/16   | 7/16           | 7/16   | 11/16  | 1/2     | 1/2            |
| D | 3/4    | 1      | 1              | 1 1/16 | 1 3/16 | 7/64    | 7/64           |
| E | 1 3/16 | 1 7/16 | 1 7/16         | 1 1/2  | 1 7/8  | 11/16   | 11/16          |

## Standard Keyway Dimensions

| Shaft Dia.   | Key Seat W X D |
|--------------|----------------|
| 1/2-9/16     | 1/8 X 1/16     |
| 5/8-7/8      | 3/16 X 3/32    |
| 15/16-1 1/4  | 1/4 X 1/8      |
| 1 5/16-1 3/8 | 5/16 X 5/32    |

| Shaft Dia.    | Key Seat W X D |
|---------------|----------------|
| 1 7/16-1 3/4  | 3/8 X 3/16     |
| 1 13/16-2 1/4 | 1/2 X 1/4      |
| 2 5/16-2 1/2  | 5/8 X 5/16     |

## ROUND BORE

We stock all the round bore sprockets in the V, W, and X series. The XX and Y series sprockets that are stock are indicated with a \*. All others in these series are non stock with a 2-3 day lead time

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000100085 | 1/2       | V          |
| EQ000100095 | 9/16      | V          |
| EQ000100105 | 5/8       | V          |
| EQ000100115 | 11/16     | V          |
| EQ000100125 | 3/4       | V          |
| EQ000100135 | 13/16     | V          |
| EQ000100145 | 7/8       | V          |
| EQ000200085 | 1/2       | W          |
| EQ000200095 | 9/16      | W          |
| EQ000200105 | 5/8       | W          |
| EQ000200115 | 11/16     | W          |
| EQ000200125 | 3/4       | W          |
| EQ000200135 | 13/16     | W          |
| EQ000200145 | 7/8       | W          |
| EQ000200155 | 15/16     | W          |
| EQ000200165 | 1         | W          |
| EQ000200175 | 1 1/16    | W          |
| EQ000200185 | 1 1/8     | W          |
| EQ000200195 | 1 3/16    | W          |

# WELD-ON HUBS

## ROUND BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000200205 | 1 1/4     | W          |
| EQ000300105 | 5/8       | X          |
| EQ000300115 | 11/16     | X          |
| EQ000300125 | 3/4       | X          |
| EQ000300135 | 13/16     | X          |
| EQ000300145 | 7/8       | X          |
| EQ000300155 | 15/16     | X          |
| EQ000300165 | 1         | X          |
| EQ000300175 | 1 1/16    | X          |
| EQ000300185 | 1 1/8     | X          |
| EQ000300195 | 1 3/16    | X          |
| EQ000300205 | 1 1/4     | X          |
| EQ000300215 | 1 5/16    | X          |
| EQ000300225 | 1 3/8     | X          |
| EQ000300235 | 1 7/16    | X          |
| EQ000300245 | 1 1/2     | X          |
| EQ000400165 | 1         | XX         |
| EQ00040018  | 1 1/8     | XX         |
| EQ000400205 | 1 1/4     | XX         |
| EQ000400225 | 1 3/8     | XX         |
| EQ000400245 | 1 1/2     | XX         |
| EQ000400265 | 1 5/8*    | XX         |
| EQ00050016  | 1         | Y          |
| EQ000500185 | 1 1/8     | Y          |
| EQ00050020  | 1 1/4     | Y          |
| EQ000500225 | 1 3/8     | Y          |
| EQ000500235 | 1 7/16    | Y          |
| EQ000500245 | 1 1/2     | Y          |
| EQ00050026  | 1 5/8     | Y          |
| EQ000500285 | 1 3/4*    | Y          |
| EQ000500305 | 1 7/8     | Y          |
| EQ000500315 | 1 15/16   | Y          |
| EQ000500325 | 2*        | Y          |

Stock sizes for weld-on hubs in all the following bore types are marked with a \*.

## STOCK BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000200005 | 1/2       | W          |
| EQ000300005 | 19/32*    | X          |

# WELD-ON HUBS

## HEX BORE

Stock sizes for weld-on hubs in all the following bore types are marked with a \*

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ000260105 | 5/8*      | W          |
| EQ000260125 | 3/4*      | W          |
| EQ000260145 | 7/8       | W          |
| EQ000260165 | 1         | W          |
| EQ000260185 | 1 1/8     | W          |
| EQ000260205 | 1 1/4     | W          |
| EQ000360105 | 5/8       | X          |
| EQ000360125 | 3/4       | X          |
| EQ000360145 | 7/8       | X          |
| EQ000360165 | 1         | X          |
| EQ000360185 | 1 1/8     | X          |
| EQ000360205 | 1 1/4     | X          |

## SQUARE BORE

| Part #      | Bore Size | Hub Series |
|-------------|-----------|------------|
| EQ0002S010  | 5/8*      | W          |
| EQ0002S0125 | 3/4*      | W          |
| EQ0002S0165 | 1         | W          |
| EQ0003S012  | 3/4*      | X          |
| EQ0003S014  | 7/8       | X          |
| EQ0003S0165 | 1         | X          |
| EQ0003S0185 | 1 1/8     | X          |
| EQ0003S0205 | 1 1/4     | X          |

## SPLINED BORE

| Part #      | Spline Size | Hub Series |
|-------------|-------------|------------|
| EQ00021413  | 7/8 X 13    | W          |
| EQ00021606  | 1 X 6       | W          |
| EQ00021615  | 1 X 15      | W          |
| EQ000218065 | 1 1/8 X 6   | W          |
| EQ000220065 | 1 1/4 X 6   | W          |
| EQ000220145 | 1 1/4 X 14  | W          |
| EQ000222065 | 1 3/8 X 6*  | W          |
| EQ000222215 | 1 3/8 X 21  | W          |
| EQ00031413  | 7/8 X 13    | X          |
| EQ000316065 | 1 X 6       | X          |
| EQ00031806  | 1 1/8 X 6   | X          |
| EQ00032006  | 1 1/4 X 6*  | X          |
| EQ000320145 | 1 1/4 X 14  | X          |
| EQ000322065 | 1 3/8 X 6*  | X          |
| EQ000322215 | 1 3/8 X 21  | X          |
| EQ00032806  | 1 3/4 X 6   | X          |
| EQ00042820  | 1 3/4 X 20  | XX         |

# WELD-ON HUBS

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## WELD-ON HUBS

### IDLER

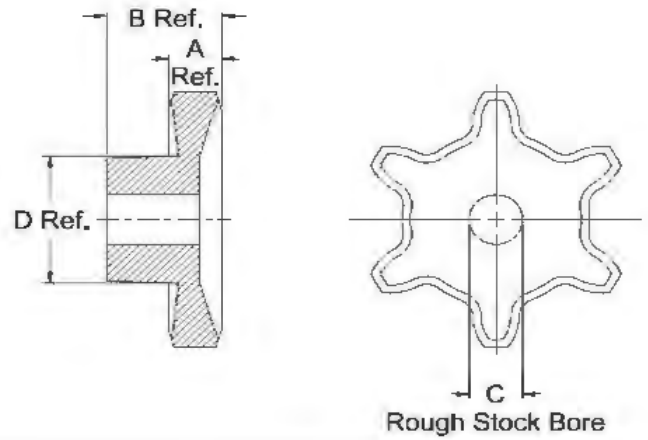
| Part #     | Bore Size | Hub Series |
|------------|-----------|------------|
| EQ00023008 | 1/2"      | W          |
| EQ00023010 | 5/8"      | W          |
| EQ00033008 | 1/2"      | X          |
| EQ00033010 | 5/8"      | X          |

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# CAST SPROCKETS FOR STEEL DETACHABLE CHAIN

POWER TRANSMISSION

**STOCK BORE • MADE IN USA**

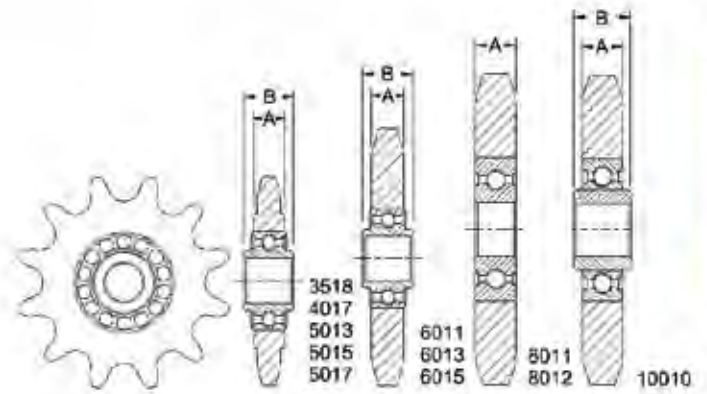


| Part #     | Sprocket # | Bore Size | OD    | Chain Size |
|------------|------------|-----------|-------|------------|
| EQ01350655 | 5506       | 1/2       | 3 3/4 | 55         |
| EQ01350755 | 5507       | 1/2       | 4 1/4 | 55         |
| EQ01350855 | 5508       | 3/4       | 4 3/4 | 55         |
| EQ01350955 | 5509       | 3/4       | 5 1/4 | 55         |
| EQ01351055 | 5510       | 3/4       | 5 3/4 | 55         |
| EQ01351155 | 5511       | 3/4       | 6 1/4 | 55         |
| EQ01351255 | 5512       | 3/4       | 6 3/4 | 55         |
| EQ01351555 | 5515       | 7/8       | 8 1/4 | 55         |
| EQ01360662 | 6206       | 3/4       | 3 7/8 | 62         |
| EQ01360762 | 6207       | 3/4       | 4 3/8 | 62         |
| EQ01360862 | 6208       | 3/4       | 4 7/8 | 62         |
| EQ01361062 | 6210       | 3/4       | 5 7/8 | 62         |

# IDLER SPROCKETS & BUSHINGS AND BEARINGS

## IDLER SPROCKETS

The sprocket number gives the chain size and the number of teeth. (4017 is a sprocket for 40 chain and has 17 teeth).



POWER TRANSMISSION

| Part #     | Sprocket # | Bore Size | Sprocket Width | LTB   |
|------------|------------|-----------|----------------|-------|
| EQ03518E08 | 3518       | 1/2       | 7/16           | 11/16 |
| EQ04017E08 | 4017*      | 1/2       | 7/16           | 11/16 |
| EQ04017E10 | 4017*      | 5/8       | 7/16           | 11/16 |
| EQ05013E08 | 5013       | 1/2       | 7/16           | 11/16 |
| EQ05013E10 | 5013       | 5/8       | 7/16           | 11/16 |
| EQ05015E08 | 5015       | 1/2       | 7/16           | 11/16 |
| EQ05015E10 | 5015       | 5/8       | 7/16           | 11/16 |
| EQ05017E08 | 5017       | 1/2       | 7/16           | 11/16 |
| EQ05017E10 | 5017       | 5/8       | 7/16           | 11/16 |
| EQ06011E08 | 6011       | 1/2       | 7/16           | 11/16 |
| EQ06011E10 | 6011       | 5/8       | 7/16           | 11/16 |
| EQ06013E08 | 6013       | 1/2       | 7/16           | 11/16 |
| EQ06013E10 | 6013       | 5/8       | 7/16           | 11/16 |
| EQ06015E08 | 6015       | 1/2       | 7/16           | 11/16 |
| EQ06015E10 | 6015       | 5/8       | 7/16           | 11/16 |
| EQ08011012 | 8011       | 3/4       | 9/16           | 9/16  |
| EQ08012012 | 8012       | 3/4       | 9/16           | 9/16  |
| EQ10010016 | 10010**    | 1         | 11/16          | 11/16 |
| EQ034-8550 | 55008      | 5/8       | -              | 1 1/8 |

\*40 idler sprockets also work for 41 roller chain.

\*\*Non stock sprockets. Lead time is 2-3 days.

## BUSHINGS AND BEARINGS

| Part #     | Description  |
|------------|--|
| EQ01008E11 | 5/8 TO 1/2 REDUCER BUSHING                                 |
| EQ02211E08 | 1/2 BORE REPLACEMENT BEARING FOR 35 TO 60 IDLER SPROCKETS* |
| EQ02211E10 | 5/8 BORE REPLACEMENT BEARING FOR 35 TO 60 IDLER SPROCKETS* |

\*Non-stock, lead time is 2-3 days.

# V-BELTS

POWER TRANSMISSION



## X5 EPDM RUBBER BELTS

BESTORQ NEW "X5" COGGED V-BELTS AND BANDED COGGED V-BELTS INTRODUCE A NEW GENERATION OF V-BELT PERFORMANCE.

- Made of an \*\*\*EPDM compound, proven to be the best for belt life by durability testing
- Extraordinary temperature range of -60F to +260F
- Matched to exceed ARPM Standards
- Meet all ARPM standards for heat and oil resistance
- Static Conducting to ARPM & Mine Safety Standards
- Use less energy than competitor's EPDM cogged belts due to superior chemistry and optimized belt design
- Works great with backside idlers at essentially no loss in belt life
- \*\*\* EPDM is Ethylene Propylene Diene Monomer, a synthetic rubber polymer.
- Bestorq EPDM has an optimized compounding formula for better belt life, superior resistance to cracks, usable with backside idlers, and higher bending efficiency
- EPDM is strong, resists cracking, is flexible, resists oxidation, humidity, and is very resistant to most chemicals, including phosphate esters, ketones, alcohol, water, steam, acetone, animal and vegetable oils, alkalis, brake fluid, and glycols
- EPDM has excellent resistance to oxygen, ozone, sunlight and weather aging



| Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|------|------------------|
| VAX015 | AX15 | 17.1 | 4L170            |
| VAX016 | AX16 | 18.1 | 4L180            |
| VAX017 | AX17 | 19.1 | 4L190            |
| VAX018 | AX18 | 20.1 | 4L200            |
| VAX019 | AX19 | 21.1 | 4L210            |
| VAX020 | AX20 | 22.1 | 4L220            |
| VAX021 | AX21 | 23.1 | 4L230            |
| VAX022 | AX22 | 24.1 | 4L240            |
| VAX023 | AX23 | 25.1 | 4L250            |
| VAX024 | AX24 | 26.1 | 4L260            |
| VAX025 | AX25 | 27.1 | 4L270            |
| VAX026 | AX26 | 28.1 | 4L280            |
| VAX027 | AX27 | 29.1 | 4L290            |
| VAX028 | AX28 | 30.1 | 4L300            |
| VAX029 | AX29 | 31.1 | 4L310            |
| VAX030 | AX30 | 32.1 | 4L320            |
| VAX031 | AX31 | 33.1 | 4L330            |
| VAX032 | AX32 | 34.1 | 4L340            |
| VAX033 | AX33 | 35.1 | 4L350            |
| VAX034 | AX34 | 36.1 | 4L360            |
| VAX035 | AX35 | 37.1 | 4L370            |
| VAX036 | AX36 | 38.1 | 4L380            |
| VAX037 | AX37 | 39.1 | 4L390            |
| VAX038 | AX38 | 40.1 | 4L400            |
| VAX039 | AX39 | 41.1 | 4L410            |
| VAX040 | AX40 | 42.1 | 4L420            |
| VAX041 | AX41 | 43.1 | 4L430            |
| VAX042 | AX42 | 44.1 | 4L440            |
| VAX043 | AX43 | 45.1 | 4L450            |
| VAX044 | AX44 | 46.1 | 4L460            |
| VAX045 | AX45 | 47.1 | 4L470            |



# V-BELTS

## X5 EPDM RUBBER BELTS

| Part #   | Size   | OC   | 4L/5L Equivalent |
|----------|--------|------|------------------|
| VAX046   | AX46   | 48.1 | 4L480            |
| VAX047   | AX47   | 49.1 | 4L490            |
| VAX048   | AX48   | 50.1 | 4L500            |
| VAX049   | AX49   | 51.1 | 4L510            |
| VAX050   | AX50   | 52.1 | 4L520            |
| VAX051   | AX51   | 53.1 | 4L530            |
| VAX052   | AX52   | 54.1 | 4L540            |
| VAX053   | AX53   | 55.1 | 4L550            |
| VAX054   | AX54   | 56.1 | 4L560            |
| VAX055   | AX55   | 57.1 | 4L570            |
| VAX056   | AX56   | 58.1 | 4L580            |
| VAX057   | AX57   | 59.1 | 4L590            |
| VAX058   | AX58   | 60.1 | 4L600            |
| VAX059   | AX59   | 61.1 | 4L610            |
| VAX060   | AX60   | 62.1 | 4L620            |
| VAX061   | AX61   | 63.1 | 4L630            |
| VAX062   | AX62   | 64.1 | 4L640            |
| VAX063   | AX63   | 65.1 | 4L650            |
| VAX064   | AX64   | 66.1 | 4L660            |
| VAX065   | AX65   | 67.1 | 4L670            |
| VAX066   | AX66   | 68.1 | 4L680            |
| VAX067   | AX67   | 69.1 | 4L690            |
| VAX067.5 | AX67.5 | 69.6 | -                |
| VAX068   | AX68   | 70.1 | 4L700            |
| VAX069   | AX69   | 71.1 | 4L710            |
| VAX070   | AX70   | 72.1 | 4L720            |
| VAX071   | AX71   | 73.1 | 4L730            |
| VAX072   | AX72   | 74.1 | 4L740            |
| VAX073   | AX73   | 75.1 | 4L750            |
| VAX074   | AX74   | 76.1 | 4L760            |
| VAX075   | AX75   | 77.1 | 4L770            |
| VAX076   | AX76   | 78.1 | 4L780            |
| VAX077   | AX77   | 79.1 | 4L790            |
| VAX078   | AX78   | 80.1 | 4L800            |
| VAX079   | AX79   | 81.1 | 4L810            |
| VAX080   | AX80   | 82.1 | 4L820            |
| VAX081   | AX81   | 83.1 | 4L830            |
| VAX082   | AX82   | 84.1 | 4L840            |
| VAX083   | AX83   | 85.1 | 4L850            |
| VAX084   | AX84   | 86.1 | 4L860            |
| VAX085   | AX85   | 87.1 | 4L870            |
| VAX086   | AX86   | 88.1 | 4L880            |
| VAX087   | AX87   | 89.1 | 4L890            |

| Part # | Size  | OC    | 4L/5L Equivalent |
|--------|-------|-------|------------------|
| VAX088 | AX88  | 90.1  | 4L900            |
| VAX089 | AX89  | 91.1  | 4L910            |
| VAX090 | AX90  | 92.1  | 4L920            |
| VAX091 | AX91  | 93.1  | 4L930            |
| VAX092 | AX92  | 94.1  | 4L940            |
| VAX093 | AX93  | 95.1  | 4L950            |
| VAX094 | AX94  | 96.1  | 4L960            |
| VAX095 | AX95  | 97.1  | 4L970            |
| VAX096 | AX96  | 98.1  | 4L980            |
| VAX097 | AX97  | 99.1  | 4L990            |
| VAX098 | AX98  | 100.1 | 4L1000           |
| VAX099 | AX99  | 101.1 | 4L1010           |
| VAX100 | AX100 | 102.1 | 4L1020           |
| VAX103 | AX103 | 105.1 | 4L1050           |
| VAX105 | AX105 | 107.1 | 4L1070           |
| VAX112 | AX112 | 114.1 | 4L1140           |
| VAX124 | AX124 | 126.1 | 4L1260           |
| VAX136 | AX136 | 138.1 | 4L1380           |
| VBX022 | BX22  | 25.1  | 5L250            |
| VBX023 | BX23  | 26.1  | 5L260            |
| VBX024 | BX24  | 27.1  | 5L270            |
| VBX025 | BX25  | 28.1  | 5L280            |
| VBX026 | BX26  | 29.1  | 5L290            |
| VBX027 | BX27  | 30.1  | 5L300            |
| VBX028 | BX28  | 31.1  | 5L310            |
| VBX029 | BX29  | 32.1  | 5L320            |
| VBX030 | BX30  | 33.1  | 5L330            |
| VBX031 | BX31  | 34.1  | 5L340            |
| VBX032 | BX32  | 35.1  | 5L350            |
| VBX033 | BX33  | 36.1  | 5L360            |
| VBX034 | BX34  | 37.1  | 5L370            |
| VBX035 | BX35  | 38.1  | 5L380            |
| VBX036 | BX36  | 39.1  | 5L390            |
| VBX037 | BX37  | 40.1  | 5L400            |
| VBX038 | BX38  | 41.1  | 5L410            |
| VBX039 | BX39  | 42.1  | 5L420            |
| VBX040 | BX40  | 43.1  | 5L430            |
| VBX041 | BX41  | 44.1  | 5L440            |
| VBX042 | BX42  | 45.1  | 5L450            |
| VBX043 | BX43  | 46.1  | 5L460            |
| VBX044 | BX44  | 47.1  | 5L470            |
| VBX045 | BX45  | 48.1  | 5L480            |
| VBX046 | BX46  | 49.1  | 5L490            |

POWER TRANSMISSION

# V-BELTS

## X5 EPDM RUBBER BELTS

POWER TRANSMISSION

| Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|------|------------------|
| VBX047 | BX47 | 50.1 | 5L500            |
| VBX048 | BX48 | 51.1 | 5L510            |
| VBX049 | BX49 | 52.1 | 5L520            |
| VBX050 | BX50 | 53.1 | 5L530            |
| VBX051 | BX51 | 54.1 | 5L540            |
| VBX052 | BX52 | 55.1 | 5L550            |
| VBX053 | BX53 | 56.1 | 5L560            |
| VBX054 | BX54 | 57.1 | 5L570            |
| VBX055 | BX55 | 58.1 | 5L580            |
| VBX056 | BX56 | 59.1 | 5L590            |
| VBX057 | BX57 | 60.1 | 5L600            |
| VBX058 | BX58 | 61.1 | 5L610            |
| VBX059 | BX59 | 62.1 | 5L620            |
| VBX060 | BX60 | 63.1 | 5L630            |
| VBX061 | BX61 | 64.1 | 5L640            |
| VBX062 | BX62 | 65.1 | 5L650            |
| VBX063 | BX63 | 66.1 | 5L660            |
| VBX064 | BX64 | 67.1 | 5L670            |
| VBX065 | BX65 | 68.1 | 5L680            |
| VBX066 | BX66 | 69.1 | 5L690            |
| VBX067 | BX67 | 70.1 | 5L700            |
| VBX068 | BX68 | 71.1 | 5L710            |
| VBX069 | BX69 | 72.1 | 5L720            |
| VBX070 | BX70 | 73.1 | 5L730            |
| VBX071 | BX71 | 74.1 | 5L740            |
| VBX072 | BX72 | 75.1 | 5L750            |
| VBX073 | BX73 | 76.1 | 5L760            |
| VBX074 | BX74 | 77.1 | 5L770            |
| VBX075 | BX75 | 78.1 | 5L780            |
| VBX076 | BX76 | 79.1 | 5L790            |
| VBX077 | BX77 | 80.1 | 5L800            |
| VBX078 | BX78 | 81.1 | 5L810            |
| VBX079 | BX79 | 82.1 | 5L820            |
| VBX080 | BX80 | 83.1 | 5L830            |
| VBX081 | BX81 | 84.1 | 5L840            |
| VBX082 | BX82 | 85.1 | 5L850            |
| VBX083 | BX83 | 86.1 | 5L860            |
| VBX084 | BX84 | 87.1 | 5L870            |
| VBX085 | BX85 | 88.1 | 5L880            |
| VBX086 | BX86 | 89.1 | 5L890            |
| VBX087 | BX87 | 90.1 | 5L900            |
| VBX088 | BX88 | 91.1 | 5L910            |
| VBX089 | BX89 | 92.1 | 5L920            |

| Part # | Size  | OC    | 4L/5L Equivalent |
|--------|-------|-------|------------------|
| VBX090 | BX90  | 93.1  | 5L930            |
| VBX091 | BX91  | 94.1  | 5L940            |
| VBX092 | BX92  | 95.1  | 5L950            |
| VBX093 | BX93  | 96.1  | 5L960            |
| VBX094 | BX94  | 97.1  | 5L970            |
| VBX095 | BX95  | 98.1  | 5L980            |
| VBX096 | BX96  | 99.1  | 5L990            |
| VBX097 | BX97  | 100.1 | 5L1000           |
| VBX098 | BX98  | 101.1 | 5L1010           |
| VBX099 | BX99  | 102.1 | 5L1020           |
| VBX100 | BX100 | 103.1 | 5L1030           |
| VBX101 | BX101 | 104.1 | 5L1040           |
| VBX103 | BX103 | 106.1 | 5L1060           |
| VBX104 | BX104 | 107.1 | 5L1070           |
| VBX105 | BX105 | 108.1 | 5L1080           |
| VBX106 | BX106 | 109.1 | 5L1090           |
| VBX108 | BX108 | 111.1 | 5L1110           |
| VBX109 | BX109 | 112.1 | 5L1120           |
| VBX110 | BX110 | 113.1 | 5L1130           |
| VBX112 | BX112 | 115.1 | 5L1150           |
| VBX113 | BX113 | 116.1 | 5L1160           |
| VBX114 | BX114 | 117.1 | 5L1170           |
| VBX115 | BX115 | 118.1 | 5L1180           |
| VBX116 | BX116 | 119.1 | 5L1190           |
| VBX120 | BX120 | 123.1 | 5L1230           |
| VBX121 | BX121 | 124.1 | 5L1240           |
| VBX123 | BX123 | 126.1 | 5L1260           |
| VBX124 | BX124 | 127.1 | 5L1270           |
| VBX125 | BX125 | 128.1 | 5L1280           |
| VBX128 | BX128 | 131.1 | 5L1310           |
| VBX133 | BX133 | 136.1 | 5L1360           |
| VBX136 | BX136 | 139.1 | 5L1390           |
| VBX140 | BX140 | 143.1 | -                |
| VBX144 | BX144 | 147.1 | -                |
| VBX148 | BX148 | 151.1 | -                |
| VBX150 | BX150 | 153.1 | -                |
| VBX152 | BX152 | 155.1 | -                |
| VBX154 | BX154 | 157.1 | -                |
| VBX158 | BX158 | 161.1 | -                |
| VBX162 | BX162 | 165.1 | -                |
| VBX173 | BX173 | 176.1 | -                |
| VBX180 | BX180 | 183.1 | -                |
| VBX195 | BX195 | 198.1 | -                |

# V-BELTS

## X5 EPDM RUBBER BELTS

| Part #  | Size  | OC    | 4L/5L Equivalent |
|---------|-------|-------|------------------|
| V CX051 | CX51  | 55.2  | -                |
| V CX055 | CX55  | 59.2  | -                |
| V CX060 | CX60  | 64.2  | -                |
| V CX068 | CX68  | 72.2  | -                |
| V CX072 | CX72  | 76.2  | -                |
| V CX075 | CX75  | 79.2  | -                |
| V CX078 | CX78  | 82.2  | -                |
| V CX081 | CX81  | 85.2  | -                |
| V CX085 | CX85  | 89.2  | -                |
| V CX090 | CX90  | 94.2  | -                |
| V CX096 | CX96  | 100.2 | -                |
| V CX100 | CX100 | 104.2 | -                |
| V CX101 | CX101 | 105.2 | -                |
| V CX105 | CX105 | 109.2 | -                |
| V CX106 | CX106 | 110.2 | -                |
| V CX107 | CX107 | 111.2 | -                |
| V CX109 | CX109 | 113.2 | -                |

| Part #  | Size  | OC    | 4L/5L Equivalent |
|---------|-------|-------|------------------|
| V CX112 | CX112 | 116.2 | -                |
| V CX115 | CX115 | 119.2 | -                |
| V CX116 | CX116 | 120.2 | -                |
| V CX120 | CX120 | 124.2 | -                |
| V CX124 | CX124 | 128.2 | -                |
| V CX125 | CX125 | 129.2 | -                |
| V CX128 | CX128 | 132.2 | -                |
| V CX136 | CX136 | 140.2 | -                |
| V CX142 | CX142 | 146.2 | -                |
| V CX144 | CX144 | 148.2 | -                |
| V CX150 | CX150 | 154.2 | -                |
| V CX158 | CX158 | 162.2 | -                |
| V CX162 | CX162 | 166.2 | -                |
| V CX173 | CX173 | 177.2 | -                |
| V CX176 | CX176 | 180.2 | -                |
| V CX180 | CX180 | 184.2 | -                |
| V CX195 | CX195 | 199.2 | -                |

POWER TRANSMISSION



## KEVLAR\* CORDED LAWN & GARDEN BELTS

Bestorq "LIGHTNING" Lawn & Garden V-belts are for the most severe lawn & garden applications. They have a best in class outer fabric wrap and use true Kevlar\* tensile members. Use them for lawn & garden equipment of all types, ag equipment, and industrial drives.



| Part #   | Size    | OC |
|----------|---------|----|
| VL3L0240 | 3L240LG | 24 |
| VL3L0250 | 3L250LG | 25 |
| VL3L0260 | 3L260LG | 26 |
| VL3L0270 | 3L270LG | 27 |
| VL3L0280 | 3L280LG | 28 |
| VL3L0290 | 3L290LG | 29 |
| VL3L0300 | 3L300LG | 30 |
| VL3L0310 | 3L310LG | 31 |
| VL3L0320 | 3L320LG | 32 |

| Part #   | Size    | OC |
|----------|---------|----|
| VL3L0330 | 3L330LG | 33 |
| VL3L0340 | 3L340LG | 34 |
| VL3L0350 | 3L350LG | 35 |
| VL4L0220 | A20LG   | 22 |
| VL4L0230 | A21LG   | 23 |
| VL4L0240 | A22LG   | 24 |
| VL4L0250 | A23LG   | 25 |
| VL4L0260 | A24LG   | 26 |
| VL4L0270 | A25LG   | 27 |

# V-BELTS

## KEVLAR\* CORDED LAWN & GARDEN BELTS

POWER TRANSMISSION

| Part #   | Size   | OC |
|----------|--------|----|
| VL4L0280 | A26LG  | 28 |
| VL4L0290 | A27LG  | 29 |
| VL4L0300 | A28LG  | 30 |
| VL4L0310 | A29LG  | 31 |
| VL4L0320 | A30LG  | 32 |
| VL4L0330 | A31LG  | 33 |
| VL4L0340 | A32LG  | 34 |
| VL4L0350 | A33LG  | 35 |
| VL4L0360 | A34LG  | 36 |
| VL4L0370 | A35LG  | 37 |
| VL4L0380 | A36LG  | 38 |
| VL4L0390 | A37LG  | 39 |
| VL4L0400 | A38LG  | 40 |
| VL4L0410 | A39LG  | 41 |
| VL4L0420 | A040LG | 42 |
| VL4L0430 | A041LG | 43 |
| VL4L0440 | A042LG | 44 |
| VL4L0450 | A043LG | 45 |
| VL4L0460 | A044LG | 46 |
| VL4L0470 | A045LG | 47 |
| VL4L0480 | A046LG | 48 |
| VL4L0490 | A047LG | 49 |
| VL4L0500 | A048LG | 50 |
| VL4L0510 | A049LG | 51 |
| VL4L0520 | A050LG | 52 |
| VL4L0530 | A051LG | 53 |
| VL4L0540 | A052LG | 54 |
| VL4L0550 | A053LG | 55 |
| VL4L0560 | A054LG | 56 |
| VL4L0570 | A055LG | 57 |
| VL4L0580 | A056LG | 58 |
| VL4L0590 | A057LG | 59 |
| VL4L0600 | A058LG | 60 |
| VL4L0610 | A059LG | 61 |
| VL4L0620 | A060LG | 62 |
| VL4L0630 | A061LG | 63 |
| VL4L0640 | A062LG | 64 |
| VL4L0650 | A063LG | 65 |
| VL4L0660 | A064LG | 66 |
| VL4L0670 | A065LG | 67 |
| VL4L0680 | A066LG | 68 |

| Part #   | Size   | OC  |
|----------|--------|-----|
| VL4L0690 | A067LG | 69  |
| VL4L0700 | A068LG | 70  |
| VL4L0710 | A069LG | 71  |
| VL4L0720 | A070LG | 72  |
| VL4L0730 | A071LG | 73  |
| VL4L0740 | A072LG | 74  |
| VL4L0750 | A073LG | 75  |
| VL4L0760 | A074LG | 76  |
| VL4L0770 | A075LG | 77  |
| VL4L0780 | A076LG | 78  |
| VL4L0790 | A077LG | 79  |
| VL4L0800 | A078LG | 80  |
| VL4L0810 | A079LG | 81  |
| VL4L0820 | A080LG | 82  |
| VL4L0830 | A081LG | 83  |
| VL4L0840 | A082LG | 84  |
| VL4L0850 | A083LG | 85  |
| VL4L0860 | A084LG | 86  |
| VL4L0870 | A085LG | 87  |
| VL4L0880 | A086LG | 88  |
| VL4L0890 | A087LG | 89  |
| VL4L0900 | A088LG | 90  |
| VL4L0910 | A089LG | 91  |
| VL4L0920 | A090LG | 92  |
| VL4L0930 | A091LG | 93  |
| VL4L0940 | A092LG | 94  |
| VL4L0950 | A093LG | 95  |
| VL4L0960 | A094LG | 96  |
| VL4L0970 | A095LG | 97  |
| VL4L0980 | A096LG | 98  |
| VL4L0990 | A097LG | 99  |
| VL4L1000 | A098LG | 100 |
| VL4L1010 | A099LG | 101 |
| VL4L1020 | A100LG | 102 |
| VL4L1030 | A101LG | 103 |
| VL4L1040 | A102LG | 104 |
| VL4L1050 | A103LG | 105 |
| VL4L1080 | A104LG | 106 |
| VL4L1090 | A105LG | 107 |
| VL4L1100 | A108LG | 110 |
| VL4L1110 | A109LG | 111 |

# V-BELTS

## KEVLAR\* CORDED LAWN & GARDEN BELTS

| Part #   | Size   | OC  |
|----------|--------|-----|
| VL4L1120 | A110LG | 112 |
| VL4L1130 | A111LG | 113 |
| VL4L1140 | A112LG | 114 |
| VL4L1150 | A113LG | 115 |
| VL4L1160 | A114LG | 116 |
| VL4L1170 | A115LG | 117 |
| VL4L1180 | A116LG | 118 |
| VL4L1190 | A117LG | 119 |
| VL4L1200 | A118LG | 120 |
| VL5L0340 | B31LG  | 34  |
| VL5L0350 | B32LG  | 35  |
| VL5L0360 | B33LG  | 36  |
| VL5L0370 | B34LG  | 37  |
| VL5L0380 | B35LG  | 38  |
| VL5L0390 | B36LG  | 39  |
| VL5L0400 | B37LG  | 40  |
| VL5L0410 | B38LG  | 41  |
| VL5L0420 | B39LG  | 42  |
| VL5L0430 | B040LG | 43  |
| VL5L0440 | B041LG | 44  |
| VL5L0450 | B042LG | 45  |
| VL5L0460 | B043LG | 46  |
| VL5L0470 | B044LG | 47  |
| VL5L0480 | B045LG | 48  |
| VL5L0490 | B046LG | 49  |
| VL5L0500 | B047LG | 50  |
| VL5L0510 | B048LG | 51  |
| VL5L0520 | B049LG | 52  |
| VL5L0530 | B050LG | 53  |
| VL5L0540 | B051LG | 54  |
| VL5L0550 | B052LG | 55  |
| VL5L0560 | B053LG | 56  |
| VL5L0570 | B054LG | 57  |
| VL5L0580 | B055LG | 58  |
| VL5L0590 | B056LG | 59  |
| VL5L0600 | B057LG | 60  |
| VL5L0610 | B058LG | 61  |
| VL5L0620 | B059LG | 62  |
| VL5L0630 | B060LG | 63  |
| VL5L0640 | B061LG | 64  |
| VL5L0650 | B062LG | 65  |

| Part #   | Size   | OC  |
|----------|--------|-----|
| VL5L0660 | B063LG | 66  |
| VL5L0670 | B064LG | 67  |
| VL5L0680 | B065LG | 68  |
| VL5L0690 | B066LG | 69  |
| VL5L0700 | B067LG | 70  |
| VL5L0710 | B068LG | 71  |
| VL5L0720 | B069LG | 72  |
| VL5L0730 | B070LG | 73  |
| VL5L0740 | B071LG | 74  |
| VL5L0750 | B072LG | 75  |
| VL5L0760 | B073LG | 76  |
| VL5L0770 | B074LG | 77  |
| VL5L0780 | B075LG | 78  |
| VL5L0790 | B076LG | 79  |
| VL5L0800 | B077LG | 80  |
| VL5L0810 | B078LG | 81  |
| VL5L0820 | B079LG | 82  |
| VL5L0830 | B080LG | 83  |
| VL5L0840 | B081LG | 84  |
| VL5L0850 | B082LG | 85  |
| VL5L0860 | B083LG | 86  |
| VL5L0870 | B084LG | 87  |
| VL5L0880 | B085LG | 88  |
| VL5L0890 | B086LG | 89  |
| VL5L0900 | B087LG | 90  |
| VL5L0910 | B088LG | 91  |
| VL5L0920 | B089LG | 92  |
| VL5L0930 | B090LG | 93  |
| VL5L0940 | B091LG | 94  |
| VL5L0950 | B092LG | 95  |
| VL5L0960 | B093LG | 96  |
| VL5L0970 | B094LG | 97  |
| VL5L0980 | B095LG | 98  |
| VL5L0990 | B096LG | 99  |
| VL5L1000 | B097LG | 100 |
| VL5L1010 | B098LG | 101 |
| VL5L1020 | B099LG | 102 |
| VL5L1030 | B100LG | 103 |
| VL5L1040 | B101LG | 104 |
| VL5L1050 | B102LG | 105 |
| VL5L1060 | B103LG | 106 |

# V-BELTS

POWER TRANSMISSION

## KEVLAR\* CORDED LAWN & GARDEN BELTS

| Part #   | Size   | OC  |
|----------|--------|-----|
| VL5L1070 | B104LG | 107 |
| VL5L1080 | B105LG | 108 |
| VL5L1090 | B106LG | 109 |
| VL5L1100 | B107LG | 110 |
| VL5L1110 | B108LG | 111 |
| VL5L1120 | B109LG | 112 |
| VL5L1130 | B110LG | 113 |
| VL5L1140 | B111LG | 114 |
| VL5L1150 | B112LG | 115 |

| Part #   | Size   | OC  |
|----------|--------|-----|
| VL5L1160 | B113LG | 116 |
| VL5L1170 | B114LG | 117 |
| VL5L1180 | B115LG | 118 |
| VL5L1190 | B116LG | 119 |
| VL5L1200 | B117LG | 120 |
| VL5L1210 | B118LG | 121 |
| VL5L1220 | B119LG | 123 |
| VL5L1230 | B120LG | 124 |

\*Registered Trademark of Dupont

## CLASSICAL

| Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|------|------------------|
| VA020  | A20  | 22.1 | 4L220            |
| VA021  | A21  | 23.1 | 4L230            |
| VA022  | A22  | 24.1 | 4L240            |
| VA023  | A23  | 25.1 | 4L250            |
| VA024  | A24  | 26.1 | 4L260            |
| VA025  | A25  | 27.1 | 4L270            |
| VA026  | A26  | 28.1 | 4L280            |
| VA027  | A27  | 29.1 | 4L290            |
| VA028  | A28  | 30.1 | 4L300            |
| VA029  | A29  | 31.1 | 4L310            |
| VA030  | A30  | 32.1 | 4L320            |
| VA031  | A31  | 33.1 | 4L330            |
| VA032  | A32  | 34.1 | 4L340            |
| VA033  | A33  | 35.1 | 4L350            |
| VA034  | A34  | 36.1 | 4L360            |
| VA035  | A35  | 37.1 | 4L370            |
| VA036  | A36  | 38.1 | 4L380            |
| VA037  | A37  | 39.1 | 4L390            |
| VA038  | A38  | 40.1 | 4L400            |
| VA039  | A39  | 41.1 | 4L410            |
| VA040  | A40  | 42.1 | 4L420            |
| VA041  | A41  | 43.1 | 4L430            |
| VA042  | A42  | 44.1 | 4L440            |
| VA043  | A43  | 45.1 | 4L450            |
| VA044  | A44  | 46.1 | 4L460            |
| VA045  | A45  | 47.1 | 4L470            |



| Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|------|------------------|
| VA046  | A46  | 48.1 | 4L480            |
| VA047  | A47  | 49.1 | 4L490            |
| VA048  | A48  | 50.1 | 4L500            |
| VA049  | A49  | 51.1 | 4L510            |
| VA050  | A50  | 52.1 | 4L520            |
| VA051  | A51  | 53.1 | 4L530            |
| VA052  | A52  | 54.1 | 4L540            |
| VA053  | A53  | 55.1 | 4L550            |
| VA054  | A54  | 56.1 | 4L560            |
| VA055  | A55  | 57.1 | 4L570            |
| VA056  | A56  | 58.1 | 4L580            |
| VA057  | A57  | 59.1 | 4L590            |
| VA058  | A58  | 60.1 | 4L600            |
| VA059  | A59  | 61.1 | 4L610            |

# V-BELTS

## CLASSICAL

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VA060  | A60  | 62.1  | 4L620            |
| VA061  | A61  | 63.1  | 4L630            |
| VA062  | A62  | 64.1  | 4L640            |
| VA063  | A63  | 65.1  | 4L650            |
| VA064  | A64  | 66.1  | 4L660            |
| VA065  | A65  | 67.1  | 4L670            |
| VA066  | A66  | 68.1  | 4L680            |
| VA067  | A67  | 69.1  | 4L690            |
| VA068  | A68  | 70.1  | 4L700            |
| VA069  | A69  | 71.1  | 4L710            |
| VA070  | A70  | 72.1  | 4L720            |
| VA071  | A71  | 73.1  | 4L730            |
| VA072  | A72  | 74.1  | 4L740            |
| VA073  | A73  | 75.1  | 4L750            |
| VA074  | A74  | 76.1  | 4L760            |
| VA075  | A75  | 77.1  | 4L770            |
| VA076  | A76  | 78.1  | 4L780            |
| VA077  | A77  | 79.1  | 4L790            |
| VA078  | A78  | 80.1  | 4L800            |
| VA079  | A79  | 81.1  | 4L810            |
| VA080  | A80  | 82.1  | 4L820            |
| VA081  | A81  | 83.1  | 4L830            |
| VA082  | A82  | 84.1  | 4L840            |
| VA083  | A83  | 85.1  | 4L850            |
| VA084  | A84  | 86.1  | 4L860            |
| VA085  | A85  | 87.1  | 4L870            |
| VA086  | A86  | 88.1  | 4L880            |
| VA087  | A87  | 89.1  | 4L890            |
| VA088  | A88  | 90.1  | 4L900            |
| VA089  | A89  | 91.1  | 4L910            |
| VA090  | A90  | 92.1  | 4L920            |
| VA091  | A91  | 93.1  | 4L930            |
| VA092  | A92  | 94.1  | 4L940            |
| VA093  | A93  | 95.1  | 4L950            |
| VA094  | A94  | 96.1  | 4L960            |
| VA095  | A95  | 97.1  | 4L970            |
| VA096  | A96  | 98.1  | 4L980            |
| VA097  | A97  | 99.1  | 4L990            |
| VA098  | A98  | 100.1 | 4L1000           |
| VA099  | A99  | 101.1 | -                |

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VA100  | A100 | 102.1 | -                |
| VA101  | A101 | 103.1 | -                |
| VA102  | A102 | 104.1 | -                |
| VA103  | A103 | 105.1 | -                |
| VA104  | A104 | 106.1 | -                |
| VA105  | A105 | 107.1 | -                |
| VA106  | A106 | 108.1 | -                |
| VA107  | A107 | 109.1 | -                |
| VA108  | A108 | 110.1 | -                |
| VA109  | A109 | 111.1 | -                |
| VA110  | A110 | 112.1 | -                |
| VA112  | A112 | 114.1 | -                |
| VA113  | A113 | 115.1 | -                |
| VA114  | A114 | 116.1 | -                |
| VA115  | A115 | 117.1 | -                |
| VA116  | A116 | 118.1 | -                |
| VA120  | A120 | 122.1 | -                |
| VA124  | A124 | 126.1 | -                |
| VA126  | A126 | 128.1 | -                |
| VA128  | A128 | 130.1 | -                |
| VA130  | A130 | 132.1 | -                |
| VA131  | A131 | 133.1 | -                |
| VA132  | A132 | 134.1 | -                |
| VA133  | A133 | 135.1 | -                |
| VA135  | A135 | 137.1 | -                |
| VA136  | A136 | 138.1 | -                |
| VB025  | B25  | 28.1  | 5L280            |
| VB026  | B26  | 29.1  | 5L290            |
| VB027  | B27  | 30.1  | 5L300            |
| VB028  | B28  | 31.1  | 5L310            |
| VB029  | B29  | 32.1  | 5L320            |
| VB030  | B30  | 33.1  | 5L330            |
| VB031  | B31  | 34.1  | 5L340            |
| VB032  | B32  | 35.1  | 5L350            |
| VB033  | B33  | 36.1  | 5L360            |
| VB034  | B34  | 37.1  | 5L370            |
| VB035  | B35  | 38.1  | 5L380            |
| VB036  | B36  | 39.1  | 5L390            |
| VB037  | B37  | 40.1  | 5L400            |
| VB038  | B38  | 41.1  | 5L410            |

POWER TRANSMISSION

# V-BELTS

## CLASSICAL

POWER TRANSMISSION

| Part # | Size | OC   | 4L/5L Equivalent |
|--------|------|------|------------------|
| VB039  | B39  | 42.1 | 5L420            |
| VB040  | B40  | 43.1 | 5L430            |
| VB041  | B41  | 44.1 | 5L440            |
| VB042  | B42  | 45.1 | 5L450            |
| VB043  | B43  | 46.1 | 5L460            |
| VB044  | B44  | 47.1 | 5L470            |
| VB045  | B45  | 48.1 | 5L480            |
| VB046  | B46  | 49.1 | 5L490            |
| VB047  | B47  | 50.1 | 5L500            |
| VB048  | B48  | 51.1 | 5L510            |
| VB049  | B49  | 52.1 | 5L520            |
| VB050  | B50  | 53.1 | 5L530            |
| VB051  | B51  | 54.1 | 5L540            |
| VB052  | B52  | 55.1 | 5L550            |
| VB053  | B53  | 56.1 | 5L560            |
| VB054  | B54  | 57.1 | 5L570            |
| VB055  | B55  | 58.1 | 5L580            |
| VB056  | B56  | 59.1 | 5L590            |
| VB057  | B57  | 60.1 | 5L600            |
| VB058  | B58  | 61.1 | 5L610            |
| VB059  | B59  | 62.1 | 5L620            |
| VB060  | B60  | 63.1 | 5L630            |
| VB061  | B61  | 64.1 | 5L640            |
| VB062  | B62  | 65.1 | 5L650            |
| VB063  | B63  | 66.1 | 5L660            |
| VB064  | B64  | 67.1 | 5L670            |
| VB065  | B65  | 68.1 | 5L680            |
| VB066  | B66  | 69.1 | 5L690            |
| VB067  | B67  | 70.1 | 5L700            |
| VB068  | B68  | 71.1 | 5L710            |
| VB069  | B69  | 72.1 | 5L720            |
| VB070  | B70  | 73.1 | 5L730            |
| VB071  | B71  | 74.1 | 5L740            |
| VB072  | B72  | 75.1 | 5L750            |
| VB073  | B73  | 76.1 | 5L760            |
| VB074  | B74  | 77.1 | 5L770            |
| VB075  | B75  | 78.1 | 5L780            |
| VB076  | B76  | 79.1 | 5L790            |
| VB077  | B77  | 80.1 | 5L800            |
| VB078  | B78  | 81.1 | 5L810            |

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VB079  | B79  | 82.1  | 5L820            |
| VB080  | B80  | 83.1  | 5L830            |
| VB081  | B81  | 84.1  | 5L840            |
| VB082  | B82  | 85.1  | 5L850            |
| VB083  | B83  | 86.1  | 5L860            |
| VB084  | B84  | 87.1  | 5L870            |
| VB085  | B85  | 88.1  | 5L880            |
| VB086  | B86  | 89.1  | 5L890            |
| VB087  | B87  | 90.1  | 5L900            |
| VB088  | B88  | 91.1  | 5L910            |
| VB089  | B89  | 92.1  | 5L920            |
| VB090  | B90  | 93.1  | 5L930            |
| VB091  | B91  | 94.1  | 5L940            |
| VB092  | B92  | 95.1  | 5L950            |
| VB093  | B93  | 96.1  | 5L960            |
| VB094  | B94  | 97.1  | 5L970            |
| VB095  | B95  | 98.1  | 5L980            |
| VB096  | B96  | 99.1  | 5L990            |
| VB097  | B97  | 100.1 | 5L1000           |
| VB098  | B98  | 101.1 | -                |
| VB099  | B99  | 102.1 | -                |
| VB100  | B100 | 103.1 | -                |
| VB101  | B101 | 104.1 | -                |
| VB102  | B102 | 105.1 | -                |
| VB103  | B103 | 106.1 | -                |
| VB104  | B104 | 107.1 | -                |
| VB105  | B105 | 108.1 | -                |
| VB106  | B106 | 109.1 | -                |
| VB107  | B107 | 110.1 | -                |
| VB108  | B108 | 111.1 | -                |
| VB109  | B109 | 112.1 | -                |
| VB110  | B110 | 113.1 | -                |
| VB111  | B111 | 114.1 | -                |
| VB112  | B112 | 115.1 | -                |
| VB113  | B113 | 116.1 | -                |
| VB114  | B114 | 117.1 | -                |
| VB115  | B115 | 118.1 | -                |
| VB116  | B116 | 119.1 | -                |
| VB117  | B117 | 120.1 | -                |
| VB118  | B118 | 121.1 | -                |



# V-BELTS

## CLASSICAL

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VB120  | B120 | 123.1 | -                |
| VB122  | B122 | 125.1 | -                |
| VB123  | B123 | 126.1 | -                |
| VB124  | B124 | 127.1 | -                |
| VB125  | B125 | 128.1 | -                |
| VB126  | B126 | 129.1 | -                |
| VB128  | B128 | 131.1 | -                |
| VB130  | B130 | 133.1 | -                |
| VB131  | B131 | 134.1 | -                |
| VB132  | B132 | 135.1 | -                |
| VB133  | B133 | 136.1 | -                |
| VB134  | B134 | 137.1 | -                |
| VB135  | B135 | 138.1 | -                |
| VB136  | B136 | 139.1 | -                |
| VB137  | B137 | 140.1 | -                |
| VB138  | B138 | 141.1 | -                |
| VB140  | B140 | 143.1 | -                |
| VB141  | B141 | 144.1 | -                |
| VB142  | B142 | 145.1 | -                |
| VB143  | B143 | 146.1 | -                |
| VB144  | B144 | 147.1 | -                |
| VB145  | B145 | 148.1 | -                |
| VB146  | B146 | 149.1 | -                |
| VB147  | B147 | 150.1 | -                |
| VB148  | B148 | 151.1 | -                |
| VB150  | B150 | 153.1 | -                |
| VC046  | C46  | 50.2  | -                |
| VC048  | C48  | 52.2  | -                |
| VC049  | C49  | 53.2  | -                |
| VC051  | C51  | 55.2  | -                |
| VC052  | C52  | 56.2  | -                |
| VC054  | C54  | 58.2  | -                |
| VC055  | C55  | 59.2  | -                |
| VC056  | C56  | 60.2  | -                |
| VC057  | C57  | 61.2  | -                |
| VC060  | C60  | 64.2  | -                |
| VC061  | C61  | 65.2  | -                |
| VC062  | C62  | 66.2  | -                |
| VC063  | C63  | 67.2  | -                |
| VC064  | C64  | 68.2  | -                |

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VC065  | C65  | 69.2  | -                |
| VC066  | C66  | 70.2  | -                |
| VC068  | C68  | 72.2  | -                |
| VC070  | C70  | 74.2  | -                |
| VC071  | C71  | 75.2  | -                |
| VC072  | C72  | 76.2  | -                |
| VC073  | C73  | 77.2  | -                |
| VC074  | C74  | 78.2  | -                |
| VC075  | C75  | 79.2  | -                |
| VC076  | C76  | 80.2  | -                |
| VC078  | C78  | 82.2  | -                |
| VC079  | C79  | 83.2  | -                |
| VC080  | C80  | 84.2  | -                |
| VC081  | C81  | 85.2  | -                |
| VC082  | C82  | 86.2  | -                |
| VC083  | C83  | 87.2  | -                |
| VC084  | C84  | 88.2  | -                |
| VC085  | C85  | 89.2  | -                |
| VC086  | C86  | 90.2  | -                |
| VC087  | C87  | 91.2  | -                |
| VC088  | C88  | 92.2  | -                |
| VC090  | C90  | 94.2  | -                |
| VC092  | C92  | 96.2  | -                |
| VC093  | C93  | 97.2  | -                |
| VC094  | C94  | 98.2  | -                |
| VC095  | C95  | 99.2  | -                |
| VC096  | C96  | 100.2 | -                |
| VC097  | C97  | 101.2 | -                |
| VC098  | C98  | 102.2 | -                |
| VC099  | C99  | 103.2 | -                |
| VC100  | C100 | 104.2 | -                |
| VC101  | C101 | 105.2 | -                |
| VC102  | C102 | 106.2 | -                |
| VC103  | C103 | 107.2 | -                |
| VC104  | C104 | 108.2 | -                |
| VC105  | C105 | 109.2 | -                |
| VC106  | C106 | 110.2 | -                |
| VC107  | C107 | 111.2 | -                |
| VC108  | C108 | 112.2 | -                |
| VC109  | C109 | 113.2 | -                |

POWER TRANSMISSION

# V-BELTS

## CLASSICAL

POWER TRANSMISSION

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VC110  | C110 | 114.2 | -                |
| VC111  | C111 | 115.2 | -                |
| VC112  | C112 | 116.2 | -                |
| VC113  | C113 | 117.2 | -                |
| VC114  | C114 | 118.2 | -                |
| VC115  | C115 | 119.2 | -                |

| Part # | Size | OC    | 4L/5L Equivalent |
|--------|------|-------|------------------|
| VC116  | C116 | 120.2 | -                |
| VC117  | C117 | 121.2 | -                |
| VC118  | C118 | 122.2 | -                |
| VC119  | C119 | 123.2 | -                |
| VC120  | C120 | 124.2 | -                |

## CLASSICAL BANDED

Banded belts are an excellent alternative to using single matched belts since they are perfectly matched every time.



## B Belts 2 Band

| B Belts 2 Band |       |
|----------------|-------|
| Part #         | Size  |
| V2B046         | B46/2 |
| V2B048         | B48/2 |
| V2B051         | B51/2 |
| V2B052         | B52/2 |
| V2B053         | B53/2 |
| V2B055         | B55/2 |
| V2B056         | B56/2 |
| V2B058         | B58/2 |
| V2B059         | B59/2 |
| V2B060         | B60/2 |
| V2B061         | B61/2 |
| V2B062         | B62/2 |
| V2B064         | B64/2 |
| V2B065         | B65/2 |
| V2B066         | B66/2 |
| V2B067         | B67/2 |
| V2B068         | B68/2 |
| V2B069         | B69/2 |
| V2B070         | B70/2 |

| B Belts 2 Band |        |
|----------------|--------|
| Part #         | Size   |
| V2B071         | B71/2  |
| V2B072         | B72/2  |
| V2B073         | B73/2  |
| V2B074         | B74/2  |
| V2B075         | B75/2  |
| V2B078         | B78/2  |
| V2B079         | B79/2  |
| V2B080         | B80/2  |
| V2B081         | B81/2  |
| V2B082         | B82/2  |
| V2B083         | B83/2  |
| V2B085         | B85/2  |
| V2B090         | B90/2  |
| V2B093         | B93/2  |
| V2B095         | B95/2  |
| V2B096         | B96/2  |
| V2B097         | B97/2  |
| V2B103         | B103/2 |
| V2B105         | B105/2 |

# V-BELTS

## CLASSIC BANDED

### B Belts 2 Band

| B Belts 2 Band |        |
|----------------|--------|
| Part #         | Size   |
| V2B108         | B108/2 |
| V2B112         | B112/2 |
| V2B116         | B116/2 |
| V2B120         | B120/2 |

| B Belts 2 Band |        |
|----------------|--------|
| Part #         | Size   |
| V2B124         | B124/2 |
| V2B128         | B128/2 |
| V2B133         | B133/2 |
| V2B136         | B136/2 |

### B Belts 3 Band

| B Belts 3 Band |       |
|----------------|-------|
| Part #         | Size  |
| VB3B055        | B55/3 |
| VB3B058        | B58/3 |
| VB3B060        | B60/3 |
| VB3B062        | B62/3 |
| VB3B063        | B63/3 |
| VB3B065        | B65/3 |
| VB3B066        | B66/3 |
| VB3B067        | B67/3 |
| VB3B068        | B68/3 |
| VB3B070        | B70/3 |
| VB3B071        | B71/3 |
| VB3B073        | B73/3 |
| VB3B075        | B75/3 |
| VB3B077        | B77/3 |
| VB3B078        | B78/3 |
| VB3B079        | B79/3 |
| VB3B080        | B80/3 |
| VB3B081        | B81/3 |

| B Belts 3 Band |        |
|----------------|--------|
| Part #         | Size   |
| VB3B083        | B83/3  |
| VB3B085        | B85/3  |
| VB3B090        | B90/3  |
| VB3B093        | B93/3  |
| VB3B095        | B95/3  |
| VB3B096        | B96/3  |
| VB3B097        | B97/3  |
| VB3B100        | B100/3 |
| VB3B103        | B103/3 |
| VB3B105        | B105/3 |
| VB3B108        | B108/3 |
| VB3B112        | B112/3 |
| VB3B116        | B116/3 |
| VB3B120        | B120/3 |
| VB3B124        | B124/3 |
| VB3B128        | B128/3 |
| VB3B133        | B133/3 |
| VB3B136        | B136/3 |

# V-BELTS

## WEDGE

Wedge V-Belts feature a deep v design which allows a smaller belt to carry a heavier load. They can also operate at higher speeds, up to 6500 feet per minute. Outside circumference is determined by dividing the last 3 or 4 digits of the size by 10. Wedge belts are also available in the 8V size. Sizes not listed below are available in 3-7 days.

| Part # | Size  |
|--------|-------|
| V3V600 | 3V600 |
| V5V670 | 5V670 |
| V5V800 | 5V800 |



## WEDGE COGGED

Wedge Cogged V-Belts offer the advantages of the Wedge belts along with the advantages of cogged belts! These are non stock belts except where noted otherwise with a \*. Outside circumference is determined by dividing the last 3 or 4 digits of the size by 10.



# V-BELTS

## X5 EPDM RUBBER • WEDGE COGGED \*CONTINUED FROM PREVIOUS PAGE

| Part #   | Size    |
|----------|---------|
| V3VX250  | 3VX250  |
| V3VX265  | 3VX265  |
| V3VX280  | 3VX280  |
| V3VX300  | 3VX300  |
| V3VX315  | 3VX315  |
| V3VX335  | 3VX335  |
| V3VX355  | 3VX355  |
| V3VX375  | 3VX375  |
| V3VX400  | 3VX400  |
| V3VX425  | 3VX425  |
| V3VX450  | 3VX450  |
| V3VX475  | 3VX475  |
| V3VX500  | 3VX500  |
| V3VX530  | 3VX530  |
| V3VX560  | 3VX560  |
| V3VX600  | 3VX600  |
| V3VX630  | 3VX630  |
| V3VX670  | 3VX670  |
| V3VX710  | 3VX710  |
| V3VX750  | 3VX750  |
| V3VX800  | 3VX800  |
| V3VX850  | 3VX850  |
| V3VX900  | 3VX900  |
| V3VX950  | 3VX950  |
| V3VX1000 | 3VX1000 |
| V3VX1060 | 3VX1060 |
| V3VX1120 | 3VX1120 |
| V3VX1180 | 3VX1180 |
| V3VX1250 | 3VX1250 |

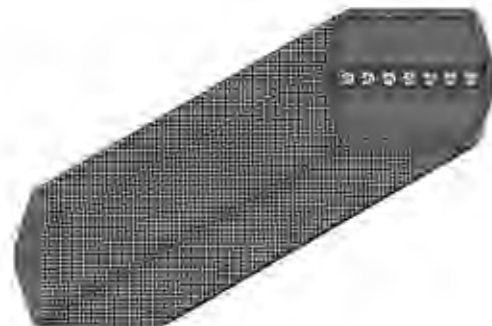
| Part #    | Size    |
|-----------|---------|
| V3VX1320  | 3VX1320 |
| V3VX1400  | 3VX1400 |
| V5VX500   | 5VX500  |
| V5VX530   | 5VX530  |
| V5VX560   | 5VX560  |
| V5VX600   | 5VX600  |
| V5VX630   | 5VX630  |
| V5VX670   | 5VX670  |
| V5VX710   | 5VX710  |
| V5VX750   | 5VX750  |
| V5VX800   | 5VX800  |
| V5VX850   | 5VX850  |
| V5VX900   | 5VX900  |
| V5VX950   | 5VX950  |
| V5VX1000  | 5VX1000 |
| V5VX1060  | 5VX1060 |
| V5VX1120  | 5VX1120 |
| V5VX1180  | 5VX1180 |
| V5VX1230  | 5VX1230 |
| V5VX1250  | 5VX1250 |
| V5VX1320  | 5VX1320 |
| V5VX1400  | 5VX1400 |
| V5VX1500  | 5VX1500 |
| V5VX1600  | 5VX1600 |
| V5VX1700  | 5VX1700 |
| V5VX1800  | 5VX1800 |
| V5VX1900  | 5VX1900 |
| V5VX2000  | 5VX2000 |
| VB5VX2000 | 5VX2000 |

POWER TRANSMISSION

Wedge V-Belts and Wedge Cogged V-Belts are also available banded. Please call for availability.

## CLASSICAL HEX

Classical Hex V belts are dual sided and designed so that either side of the belt can be used as the driving surface. We do not stock these belts but they are available in 3-7 days. The AA are available in lengths between 51 and 128, BB are available in lengths between 43 and 300, and CC are available in lengths between 75 and 420.



# DURODRIVE

DuroDrive belting is a belt you can take apart by hand so you can install the belt without disassembling the machine. It fits on the same pulleys as a regular a or b belt. It comes in 25' rolls and can be ordered in any length by 1" increments.



| Part # | Size |
|--------|------|
| VL3L   | 3L*  |
| VLA    | A    |
| VLB    | B    |

\*Non-stock size. 2-3 day lead time.

# ROLLER CHAIN



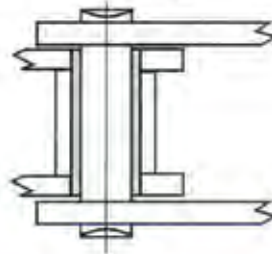
HKK Roller Chain is a premium quality roller chain which features solid bushings and solid rollers as standard on most of their chains. HKK is continually striving to make new breakthroughs in roller chain design. Combining quality, reliability, and cost with new technology and improved materials they provide the highest quality chain. HKK roller chain is manufactured in Japan.

POWER TRANSMISSION

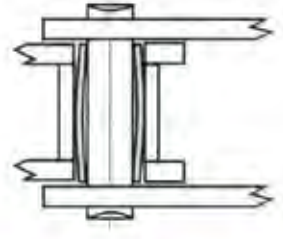
HKK's cold forged solid bushings and solid rollers retain their cylindrical inside and outside walls resulting in better pin bushing contact for longer chain life.

HKK's Aqua-Series Roller Chain is the perfect choice where corrosion resistance and high strength is needed. It provides far superior corrosion resistance to zinc or nickel plated chain and far superior strength to stainless steel chain.

**Solid Bushing (A)**



**Split Bushing (B)**

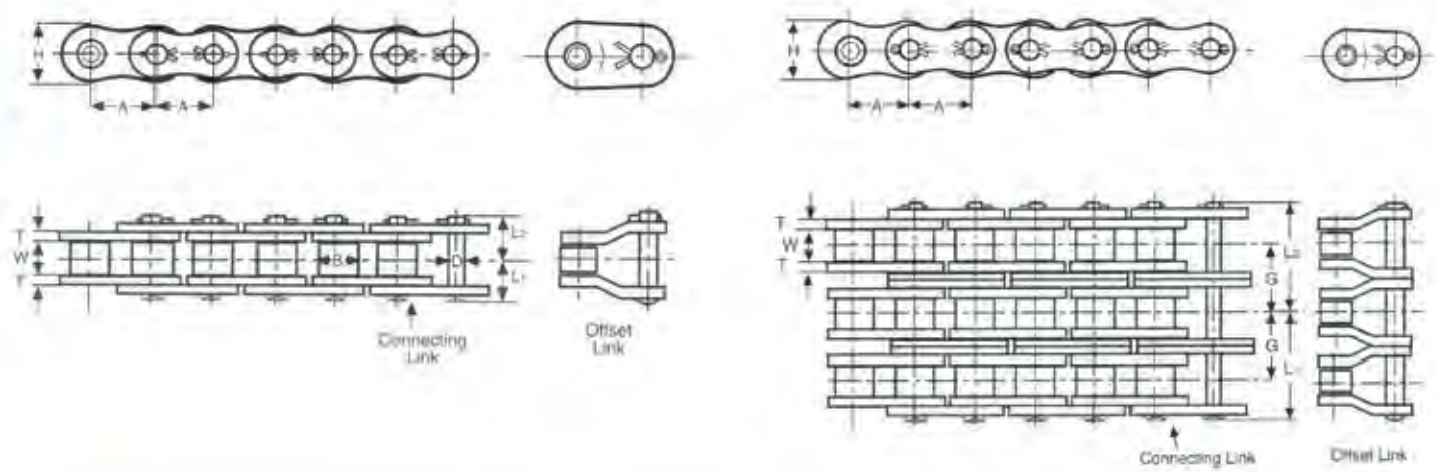


| Salt Water Immersion Test |                          |                        |
|---------------------------|--------------------------|------------------------|
| Chain Type                | Hours to Start Corrosion | Maximum Allowable Load |
| ZINC PLATED               | 48-60                    | 1950 LBS.              |
| NICKEL PLATED             | 48-60                    | 1950 LBS.              |
| AQUA-SERIES <sup>®</sup>  | 600-840                  | 1950 LBS.              |
| 300 SERIES STAINLESS      | 840 (NO CORROSION)       | 231 LBS.               |

# ROLLER CHAIN

## Dimensions

POWER TRANSMISSION



| Chain # | Pitch<br>A | Roller        |            | Pin           | Plate       |                | Overall Width |       | Maximum Allowable Load |
|---------|------------|---------------|------------|---------------|-------------|----------------|---------------|-------|------------------------|
|         |            | Diameter<br>B | Width<br>W | Diameter<br>D | Height<br>H | Thickness<br>T | L1            | L2    |                        |
| 25      | 1/4        | 0.130         | 1/8        | 0.091         | 0.236       | 0.030          | 0.150         | 0.185 | 140                    |
| 35      | 3/8        | 0.200         | 3/16       | 0.141         | 0.347       | 0.050          | 0.233         | 0.267 | 480                    |
| 35-2    | 3/8        | 0.200         | 3/16       | 0.141         | 0.347       | 0.050          | 0.432         | 0.454 | 810                    |
| 40      | 1/2        | 0.312         | 5/16       | 0.156         | 0.457       | 0.060          | 0.323         | 0.354 | 810                    |
| 40-2    | 1/2        | 0.312         | 5/16       | 0.156         | 0.457       | 0.060          | 0.603         | 0.645 | 1370                   |
| 40-3    | 1/2        | 0.312         | 5/16       | 0.156         | 0.457       | 0.060          | 0.882         | 0.933 | 2025                   |
| 41      | 1/2        | 0.306         | 1/4        | 0.141         | 0.386       | 0.050          | 0.266         | 0.312 | 500                    |
| 43      | 1/2        | 0.306         | 1/8        | 0.143         | 0.386       | 0.038          | 0.375*        |       | **                     |
| 50      | 5/8        | 0.400         | 3/8        | 0.200         | 0.571       | 0.080          | 0.400         | 0.445 | 1400                   |
| 50-2    | 5/8        | 0.400         | 3/8        | 0.200         | 0.571       | 0.080          | 0.752         | 0.803 | 2380                   |
| 60      | 3/4        | 0.469         | 1/2        | 0.234         | 0.689       | 0.094          | 0.500         | 0.548 | 1950                   |
| 60-2    | 3/4        | 0.469         | 1/2        | 0.234         | 0.689       | 0.094          | 0.945         | 1.000 | 3315                   |
| 60-3    | 3/4        | 0.469         | 1/2        | 0.234         | 0.689       | 0.094          | 1.386         | 1.457 | 4875                   |
| 80      | 1          | 0.625         | 5/8        | 0.312         | 0.921       | 0.125          | 0.628         | 0.750 | 3300                   |
| 80-2    | 1          | 0.625         | 5/8        | 0.312         | 0.921       | 0.125          | 1.201         | 1.319 | 5610                   |
| 100     | 1 1/4      | 0.750         | 3/4        | 0.375         | 1.154       | 0.156          | 0.772         | 0.913 | 5060                   |
| 100-2   | 1 1/4      | 0.750         | 3/4        | 0.375         | 1.154       | 0.156          | 1.475         | 1.608 | 8600                   |
| 120     | 1 1/2      | 0.875         | 1          | 0.437         | 1.382       | 0.187          | 0.971         | 1.124 | 6800                   |
| 120-2   | 1 1/2      | 0.875         | 1          | 0.437         | 1.382       | 0.187          | 1.857         | 2.010 | 11560                  |
| 140     | 1 3/4      | 1.000         | 1          | 0.500         | 1.610       | 0.219          | 1.060         | 1.228 | 9000                   |
| 160     | 2          | 1.125         | 1 1/4      | 0.562         | 1.839       | 0.250          | 1.262         | 1.435 | 11900                  |
| 180     | 2 1/4      | 1.406         | 1 13/32    | 0.687         | 2.067       | 0.283          | 1.429         | 1.658 | 13000                  |
| 200     | 2 1/2      | 1.562         | 1 1/2      | 0.781         | 2.354       | 0.312          | 1.542         | 1.876 | 16000                  |

\*Over all width for riveted chain.

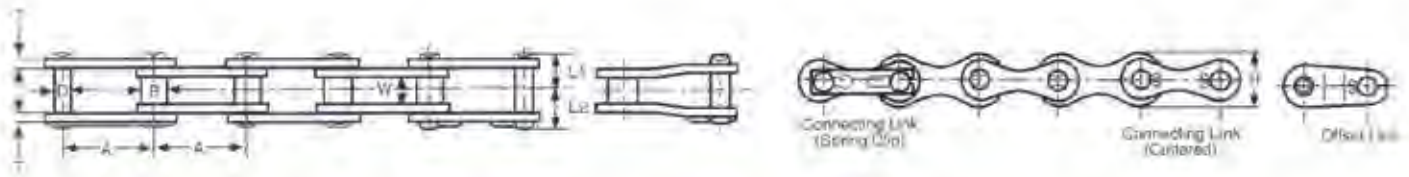
\*\*Maximum Allowable Load info unavailable, Average Ultimate Strength is 2100lb.



# ROLLER CHAIN

## Dimensions

| Chain # | Pitch | Roller   |       | Pin      | Plate  |           | Overall Width |       | Maximum Allowable Load |
|---------|-------|----------|-------|----------|--------|-----------|---------------|-------|------------------------|
|         |       | Diameter | Width | Diameter | Height | Thickness | L1            | L2    |                        |
|         |       | A        | B     | D        | H      | T         | L1            | L2    |                        |
| 50H     | 5/8   | 0.400    | 3/8   | 0.200    | 0.577  | 0.094     | 0.437         | 0.512 | 1400                   |
| 60H     | 3/4   | 0.469    | 1/2   | 0.234    | 0.689  | 0.125     | 0.565         | 0.644 | 2000                   |
| 60-2H   | 3/4   | 0.469    | 1/2   | 0.234    | 0.689  | 0.125     | 1.077         | 1.606 | 3400                   |
| 80H     | 1     | 0.625    | 5/8   | 0.312    | 0.921  | 0.156     | 0.699         | 0.817 | 3400                   |
| 100H    | 1 1/4 | 0.750    | 3/4   | 0.375    | 1.154  | 0.187     | 0.831         | 0.969 | 5200                   |
| 120H    | 1 1/2 | 0.875    | 1     | 0.437    | 1.382  | 0.219     | 1.036         | 1.208 | 7000                   |
| 140H    | 1 3/4 | 1.000    | 1     | 0.500    | 1.610  | 0.250     | 1.122         | 1.304 | 9200                   |
| 160H    | 2     | 1.125    | 1 1/4 | 0.562    | 1.839  | 0.281     | 1.333         | 1.534 | 12300                  |



| Chain # | Pitch | Roller   |       | Pin      | Plate  |           | Overall Width |       | Maximum Allowable Load |
|---------|-------|----------|-------|----------|--------|-----------|---------------|-------|------------------------|
|         |       | Diameter | Width | Diameter | Height | Thickness | L1            | L2    |                        |
|         |       | A        | B     | D        | H      | T         | L1            | L2    |                        |
| A2040   | 1     | 0.312    | 5/16  | 0.156    | 0.450  | 0.060     | 0.323         | 0.378 | 600                    |
| A2050   | 1 1/4 | 0.400    | 3/8   | 0.200    | 0.571  | 0.080     | 0.400         | 0.407 | 1000                   |
| A2060   | 1 1/2 | 0.469    | 1/2   | 0.234    | 0.670  | 0.094     | 0.500         | 0.583 | 1300                   |
| A2080   | 2     | 0.625    | 5/8   | 0.312    | 0.890  | 0.125     | 0.628         | 0.750 | 2300                   |
| C2050   | 1 1/4 | 0.400    | 3/8   | 0.200    | 0.591  | 0.080     | 0.400         | 0.467 | 1000                   |
| C2060H  | 1 1/2 | 0.469    | 1/2   | 0.234    | 0.670  | 0.125     | 0.565         | 0.657 | 1400                   |
| C2080H  | 2     | 0.625    | 5/8   | 0.312    | 0.890  | 0.156     | 0.699         | 0.829 | 2400                   |
| C2100H  | 2 1/2 | 0.750    | 3/4   | 0.375    | 1.126  | 0.187     | 0.831         | 0.969 | 3900                   |

POWER TRANSMISSION

# ROLLER CHAIN

Please note: Part numbers are only listed for stock items. HKK carries a complete line of roller chain. Items missing part numbers are available in 3-5 days. Please see below for other types and sizes of roller chain that are available in 3-5 days.

The following sizes and types of roller chain are also stocked by HKK and are available in 3-5 days:

Standard Roller Chain in sizes up to 240 and in multiple strand

Heavy Roller Chain in sizes up to 200 and in 2 strand

Double Pitch Roller Chain Conveyor Type

Standard Rollers in C2040 to C2160H

Carrier Rollers in C0242 to C2162H

British Standard Roller Chain in 04B to 32B and in 2 strand

Standard Stainless Steel in sizes 25-120 and in 2 strand

British Standard Stainless Steel in sizes 05B-16B

Double Pitch Stainless Steel in sizes A2040 to C2100H

Leaf Chain (Forklift Chain) in AL and BL series

They also carry many attachments for the above chains.

| Part #    | Part #      | Part #           | Part #       | Size           |
|-----------|-------------|------------------|--------------|----------------|
| 10' roll  | 50' reel    | Connecting Link* | Offset Link* |                |
| RCH025    | -           | RCH025C          | RCH0250      | 25             |
| RCH035    | RCH03550    | RCH035C          | RCH0350      | 35             |
| RCH040    | RCH04050    | RCH040C          | RCH0400      | 40             |
| RCH041    | RCH04150    | RCH041C          | RCH0410      | 41             |
| RCH043    | RCH04350    | RCH043C          | RCH0430      | 43             |
| RCH050    | RCH05050    | RCH050C          | RCH0500      | 50             |
| RCH060    | RCH06050    | RCH060C          | RCH0600      | 60             |
| RCH080    | RCH08050    | RCH080C          | RCH0800      | 80             |
| RCH100    | -           | RCH100C          | RCH1000      | 100            |
| RCH120    | -           | RCH120C          | RCH1200      | 120            |
| RCH140    | -           | RCH140C          | RCH1400      | 140            |
| RCH160    | -           | RCH160C          | RCH1600      | 160            |
| -         | -           | RCH352C          | -            | 35-2           |
| RCH402    | -           | RCH402C          | RCH4020      | 40-2           |
| RCH502    | -           | RCH502C          | RCH5020      | 50-2           |
| RCH602    | RCH60250    | RCH602C          | RCH6020      | 60-2           |
| -         | -           | RCH603C          | RCH6030      | 60-3           |
| RCH802    | -           | RCH802C          | RCH8020      | 80-2           |
| RCH050H   | RCH050H50   | RCH050HC         | RCH050HO     | 50H            |
| RCH060H   | RCH060H50   | RCH060HC         | RCH060HO     | 60H            |
| RCH080H   | RCH080H50   | RCH080HC         | RCH080HO     | 80H            |
| RCH100H   | -           | RCH100HC         | RCH100HO     | 100H           |
| RCH120H   | -           | RCH120HC         | RCH120HO     | 120H           |
| -         | -           | RCH160HC         | -            | 160H           |
| -         | -           | RCH602HC         | RCH602HO     | 60-2H          |
| RCH2040   | RCH204050   | RCH2040C         | RCH20400     | A2040          |
| RCH2050   | RCH205050   | RCH2050C         | RCH20500     | A2050          |
| RCH2060   | RCH206050   | RCH2060C         | RCH20600     | A2060          |
| RCH2080   | -           | RCH2080C         | RCH20800     | A2080          |
| -         | -           | RCHC2050C        | RCHC20500    | C2050          |
| RCHC2060H | RCHC2060H50 | RCHC2060HC       | RCHC2060HO   | C2060H         |
| -         | -           | RCHC2080HC       | -            | C2080H         |
| -         | -           | RCHC2100HC       | RCHC2100HO   | C2100H         |
| -         | -           | RCHAS040C        | RCHAS0400    | 40 AQUA SERIES |
| -         | -           | RCHAS050C        | RCHAS0500    | 50 AQUA SERIES |
| RCHAS060  | -           | RCHAS060C        | RCHAS0600    | 60 AQUA SERIES |
| RCHSS040  | -           | RCHSS040C        | RCHSS0400    | 40 SS          |
| RCHSS050  | -           | RCHSS050C        | RCHSS0500    | 50 SS          |
| RCHSS060  | -           | RCHSS060C        | RCHSS0600    | 60 SS          |
| RCHSS2050 | -           | RCHSS2050C       | RCHSS20500   | A2050 SS       |

\*Connecting links are also commonly called repair links or master links. Offset Links are also commonly called half links or skip links.

# ROLLER CHAIN

## HKK® ROLLER CHAIN

### Standard Length Packaging

| Chain # | 10' Box | 20' Box | 50' Reel | 100' Reel | 200' Reel | 250' Reel | 500' Reel |
|---------|---------|---------|----------|-----------|-----------|-----------|-----------|
| 25      | X       | -       | -        | -         | -         | -         | X         |
| 35      | X       | X       | X        | X         | -         | X         | -         |
| 40      | X       | X       | X        | X         | X         | -         | -         |
| 41      | X       | -       | -        | -         | -         | X         | -         |
| 50      | X       | X       | X        | X         | -         | -         | -         |
| 60      | X       | X       | X        | X         | -         | -         | -         |
| 80      | X       | -       | X        | -         | -         | -         | -         |
| 100     | X       | -       | X        | -         | -         | -         | -         |
| 120     | X       | -       | -        | -         | -         | -         | -         |
| 140     | X       | -       | -        | -         | -         | -         | -         |
| 160     | X       | -       | -        | -         | -         | -         | -         |
| 180     | X       | -       | -        | -         | -         | -         | -         |
| 200     | X       | -       | -        | -         | -         | -         | -         |
| 240     | X       | -       | -        | -         | -         | -         | -         |

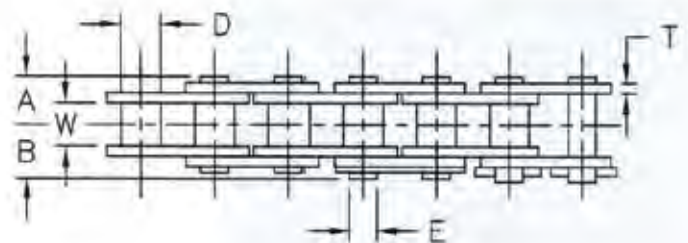
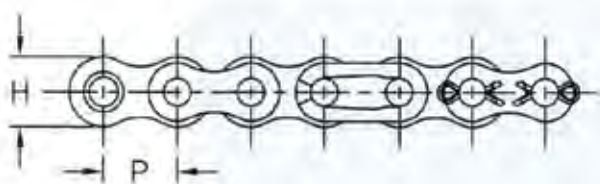
POWER TRANSMISSION

## ALLIED LOCKE CHAINS

Allied Locke Industries is an American manufacturer of many types of high quality ag chain, engineering class chain, and sprockets. They also import a quality precision roller chain.

## ALI ROLLER CHAIN

ALI Roller Chain is a quality roller chain that is imported from China and Taiwan by Allied-Locke Industries. Its affordable price makes it especially attractive for less demanding applications.



Please note: Part numbers are only listed for stock items. Allied-Locke carries a complete line of roller chain. Please call us for availability on items not listed here.

| Part #   | Part #   | Part #           | Part #       | Size |
|----------|----------|------------------|--------------|------|
| 10' roll | 50' reel | Connecting Link* | Offset Link* |      |
| -        | -        | RC025C           | RC0250       | 25   |
| RCA035   | -        | RC035C           | RC0350       | 35   |
| RCA040   | RCA04050 | RC040C           | RC0400       | 40   |
| RCA041   | RCA04150 | RC041C           | RC0410       | 41   |
| RCA050   | RCA05050 | RC050C           | RC0500       | 50   |
| RCA060   | RCA06050 | RC060C           | RC0600       | 60   |
| RCA080   | RCA08050 | RC080C           | RC0800       | 80   |

| Part #   | Part #    | Part #           | Part #       | Size |
|----------|-----------|------------------|--------------|------|
| 10' roll | 50' reel  | Connecting Link* | Offset Link* |      |
| -        | -         | RC100C           | RC1000       | 100  |
| -        | -         | -                | RC1200       | 120  |
| RCA050H  | -         | RC050HC          | RC050HO      | 50H  |
| RCA060H  | -         | RC060HC          | RC060HO      | 60H  |
| -        | RCA080H50 | RC080HC          | RC080HO      | 80H  |
| RCA352   | -         | RC352C           | RC3520       | 35-2 |

# ALI ROLLER CHAIN & AGRICULTURAL ROLLER CHAIN

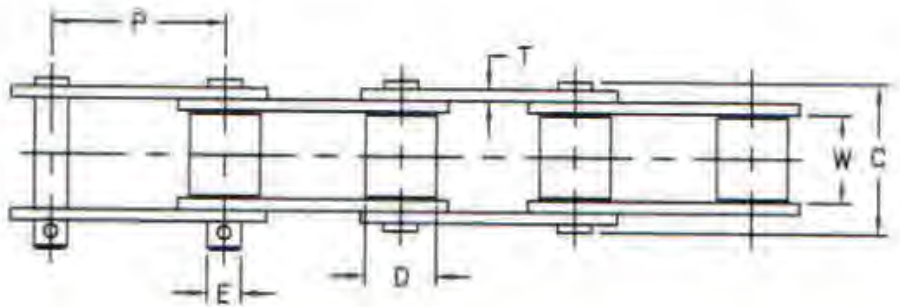
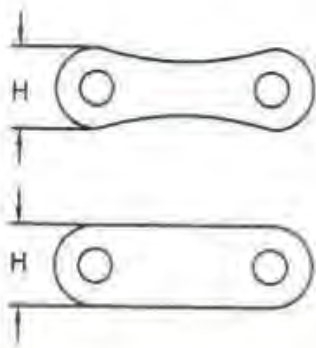
POWER TRANSMISSION

## ALI ROLLER CHAIN

| Part #   | Part #    | Part #           | Part #       | Size  |
|----------|-----------|------------------|--------------|-------|
| 10' roll | 50' reel  | Connecting Link* | Offset Link* |       |
| RCA502   | -         | -                | RC5020       | 50-2  |
| -        | -         | -                | RC6020       | 60-2  |
| RCA802   | -         | RC802C           | RC8020       | 80-2  |
| RCA2040  | RCA204050 | RC2040C          | RC20400      | A2040 |
| RCA2050  | RCA205050 | RC2050C          | RC20500      | A2050 |
| RCA2060  | RCA206050 | RC2060C          | RC20600      | A2060 |
| -        | -         | RC2080C          | RC20800      | A2080 |
| -        | -         | RCC2060C         | RCC20600     | C2060 |

| Part #    | Part #   | Part #           | Part #       | Size     |
|-----------|----------|------------------|--------------|----------|
| 10' roll  | 50' reel | Connecting Link* | Offset Link* |          |
| RCAC2080H | -        | RCAC2080HC       | -            | C2080H   |
| -         | -        | RCSS040C         | RCSS0400     | 40 SS    |
| RCASS050  | -        | RCSS050C         | RCSS0500     | 50 SS    |
| RCASS060  | -        | RCSS060C         | RCSS0600     | 60 SS    |
| -         | -        | RCSSC2040C       | RCSSC20400   | C2040 SS |
| -         | -        | RCSS2050C        | RCSS20500    | A2050 SS |

## AGRICULTURAL ROLLER CHAIN



### Dimensions

| Chain # | Pitch | Roller |          | Pin      | Plate  |           | Overall Width |         | Average Ultimate Strength |
|---------|-------|--------|----------|----------|--------|-----------|---------------|---------|---------------------------|
|         |       | Width  | Diameter | Diameter | Height | Thickness | C             |         |                           |
|         |       | P      | W        | D        | E      | H         | T             | Riveted |                           |
| CA550   | 1.63  | 51/64  | 0.656    | 0.281    | 3/4    | 0.105     | 1 3/8         | 1 9/16  | 11250                     |
| CA555   | 1.63  | 1/2    | 0.656    | 0.281    | 3/4    | 0.125     | 1 11/64       | 1 1/4   | 11250                     |
| CA557   | 1.63  | 51/64  | 0.700    | 0.315    | 29/32  | 0.125     | 1 15/32       | 1 19/32 | 16500                     |
| CA620   | 1.654 | 63/64  | 0.696    | 0.281    | 3/4    | 0.125     | 1 41/64       | 1 27/32 | 12000                     |

The Agricultural Roller Chain we carry is made in USA by Allied Locke. CA550 has the same pitch as 55 steel detachable chain and CA620 has the same pitch as 62 steel detachable chain.

| Part #     | Part #           | Part #       | Size |
|------------|------------------|--------------|------|
| 10' roll   | Connecting Link* | Offset Link* |      |
| RCACA550   | RCACA550C        | RCACA5500    | 550  |
| RCACA555 * | RCACA555C        | RCACA5550    | 555  |
| RCACA557 * | RCACA557C        | RCACA5570 *  | 557  |
| RCACA620   | RCACA620C        | RCACA6200    | 620  |

\*Non stock Items. Lead time is 1-3 weeks.

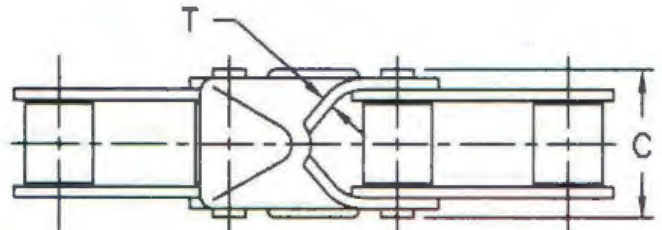
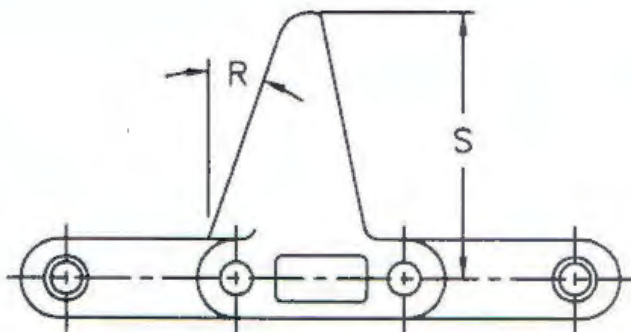
# AGRICULTURAL ROLLER CHAIN & TRANSFER CHAIN

## AGRICULTURAL ROLLER CHAIN

### GATHERING CHAINS

| Part #           | Description  |
|------------------|--|
| RCACA550W/C11E   | CA550 X 150 LINKS W/C11E ATTACHMENTS EVERY 6 LINKS |
| RCACA550W/C11E49 | CA550 X 49 LINKS W/C11E ATTACHMENTS EVERY 6 LINKS  |
| RCACA550W/C11E93 | CA550 X 93 LINKS W/C11E ATTACHMENTS EVERY 6 LINKS  |
| RCACA550W/C13E   | CA550 X 44 LINKS W/C13E ATTACHMENTS EVERY 4 LINKS  |
| RCACA620W/C13E   | CA620 X 71 LINKS W/C13E ATTACHMENTS EVERY 4 LINKS  |
| RCACA620W/C14E   | CA620 X 78 LINKS W/C14E ATTACHMENTS EVERY 6 LINKS  |

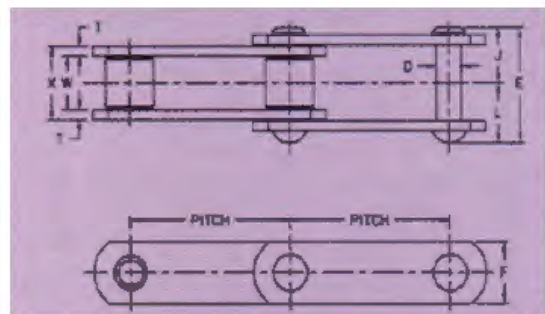
### Finger Dimensions



| Finger | Chain # | C       | R   | S       | T     |
|--------|---------|---------|-----|---------|-------|
| C11E   | CA550   | 1 17/64 | 17° | 2 1/2   | 0.105 |
| C13E   | CA550   | 1 17/64 | 15° | 3 5/8   | 0.105 |
| C13E   | CA620   | 1 17/32 | 15° | 3 5/8   | 0.125 |
| C14E   | CA620   | 1 7/32  | 25° | 2 21/32 | 0.125 |

## TRANSFER CHAIN

### Dimensions



| Chain | Pitch | D     | E     | F     | H     | T         | W     |
|-------|-------|-------|-------|-------|-------|-----------|-------|
| 81X   | 2.609 | 0.438 | 2.000 | 1.120 | 0.910 | 0.160     | 1.070 |
| 81XH  | 2.609 | 0.438 | 2.380 | 1.270 | 0.910 | 0.22/0.31 | 1.070 |

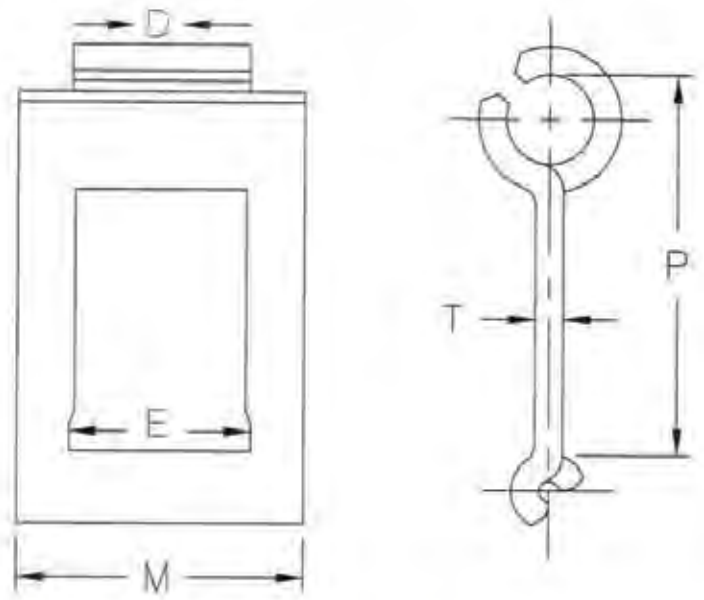
| Part #  | Chain # | Description     |
|---------|---------|-----------------|
| RC81X   | 81X     | CHAIN           |
| RC81XC  | 81X     | CONNECTING LINK |
| RC81XHC | 81XH    | CONNECTING LINK |

POWER TRANSMISSION

# STEEL DETACHABLE CHAIN

## Dimensions

POWER TRANSMISSION



| Chain # | P     | M       | E     | D     | T     |
|---------|-------|---------|-------|-------|-------|
| 25      | 0.904 | 45/64   | 0.438 | 0.422 | 0.073 |
| 32      | 1.157 | 15/16   | 0.610 | 0.594 | 0.090 |
| 32W     | 1.157 | 1 1/16  | 0.610 | 0.594 | 0.079 |
| 33      | 1.402 | 1 1/16  | 0.627 | 0.610 | 0.095 |
| 42      | 1.375 | 1 7/32  | 0.800 | 0.781 | 0.105 |
| 50H     | 1.375 | 1 9/32  | 0.798 | 0.781 | 0.125 |
| 51      | 1.133 | 1 3/32  | 0.720 | 0.703 | 0.105 |
| 52      | 1.508 | 1 13/32 | 0.760 | 0.840 | 0.125 |
| 55      | 1.630 | 1 9/32  | 0.813 | 0.796 | 0.125 |
| 62      | 1.654 | 1 9/16  | 1.002 | 0.984 | 0.148 |
| 62A     | 1.664 | 1 15/16 | 1.002 | 0.984 | 0.172 |
| 62H     | 1.654 | 1 7/8   | 1.002 | 0.984 | 0.148 |
| 67H     | 2.313 | 1 7/8   | 1.110 | 1.093 | 0.185 |
| 67XH    | 2.313 | 1 7/8   | 1.110 | 1.093 | 0.200 |
| 67W     | 2.313 | 2 3/8   | 1.110 | 1.093 | 0.148 |
| 70      | 2.013 | 1 15/16 | 1.110 | 1.093 | 0.172 |
| 72      | 2.025 | 1 15/16 | 1.110 | 1.093 | 0.172 |
| 72½     | 1.643 | 1 15/16 | 1.172 | 1.156 | 0.148 |
| S       | 2.906 | 2       | 1.116 | 1.093 | 0.172 |

| Part #  | Chain # | Links in 10' | Average Ultimate Strength |
|---------|---------|--------------|---------------------------|
| SDC25   | 25      | 133          | 950                       |
| SDC32   | 32      | 104          | 1650                      |
| SDC32W  | 32W     | 104          | 1650                      |
| SDC33   | 33      | 86           | 1650                      |
| SDC42   | 42      | 87           | 2300                      |
| SDC50H  | 50H     | 87           | 2600                      |
| SDC51   | 51      | 106          | 2100                      |
| SDC52   | 52      | 80           | 2700                      |
| SDC55   | 55      | 74           | 2800                      |
| SDC62   | 62      | 73           | 4200                      |
| SDC62A  | 62A     | 72           | 5500                      |
| SDC62H  | 62H     | 73           | 4400                      |
| SDC67H  | 67H     | 52           | 5500                      |
| SDC67XH | 67XH    | 52           | 6800                      |
| SDC67W  | 67W     | 52           | 4800                      |
| SDC70   | 70      | 60           | 4800                      |
| SDC72   | 72      | 59           | 4800                      |
| SDC725  | 72½     | 73           | 4500                      |
| SDCS    | S       | 41           | 4800                      |

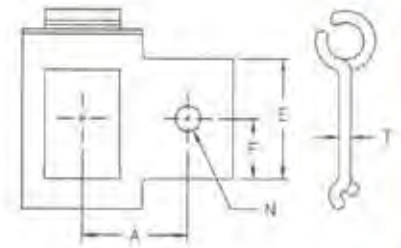
The Steel Detachable Chain we carry is made in USA by Allied Locke. The chain is sold by 10' rolls and the attachments are sold by the piece.

# STEEL DETACHABLE CHAIN

## ATTACHMENT LINKS

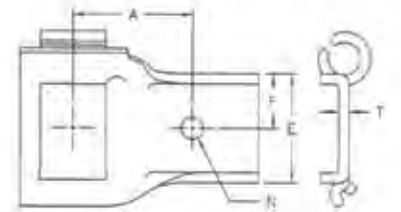
### A1 Right & Left

| Part #   | Part #   | Chain # | A     | E      | F     | N     | T     |
|----------|----------|---------|-------|--------|-------|-------|-------|
| Left     | Right    |         |       |        |       |       |       |
| SDC55A1L | SDC55A1R | 55      | 1 1/8 | 1 1/16 | 17/32 | 17/64 | 0.125 |
| SDC62A1L | SDC62A1R | 62      | 1 3/8 | 1 3/8  | 11/16 | 17/64 | 0.148 |



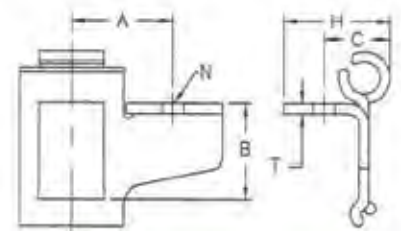
### A2 Right & Left

| Part #   | Part #   | Chain # | A       | E     | F   | N     | T    |
|----------|----------|---------|---------|-------|-----|-------|------|
| Left     | Right    |         |         |       |     |       |      |
| SDC55A2L | SDC55A2R | 55      | 1 29/64 | 1 1/4 | 5/8 | 17/64 | .125 |
| SDC62A2L | SDC62A2R | 62      | 1 9/16  | 1 1/4 | 5/8 | 17/64 | .148 |



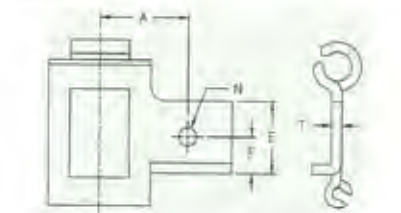
### G27 Right & Left

| Part #    | Part #    | Chain # | A      | B      | C     | H      | N     | T    |
|-----------|-----------|---------|--------|--------|-------|--------|-------|------|
| Left      | Right     |         |        |        |       |        |       |      |
| SDC55G27L | SDC55G27R | 55      | 1 1/4  | 1      | 13/16 | 1 5/16 | 17/64 | .125 |
| SDC62G27L | SDC62G27R | 62      | 1 5/16 | 1 1/16 | 11/16 | 1 1/16 | 17/64 | .148 |



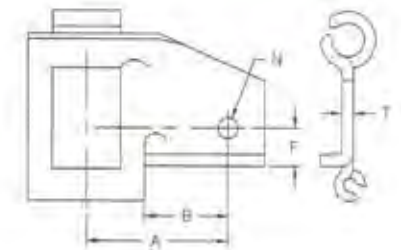
### B Right & Left

| Part # | Part # | Chain # | A     | E      | F     | N     | T    |
|--------|--------|---------|-------|--------|-------|-------|------|
| Left   | Right  |         |       |        |       |       |      |
| SDCSBL | SDCSBR | S       | 1 5/8 | 1 5/16 | 21/32 | 21/64 | .170 |



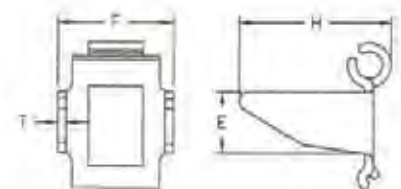
### AS Right & Left

| Part #     | Part #     | Chain # | A      | B      | F    | N     | T     |
|------------|------------|---------|--------|--------|------|-------|-------|
| Left       | Right      |         |        |        |      |       |       |
| SDC67HASL  | SDC67HASR  | 67H     | 2 1/32 | 1 3/32 | 9/16 | 21/64 | .185  |
| SDC67XHASL | SDC67XHASR | 67XH    | 2 1/32 | 1 3/32 | 9/16 | 21/64 | 0.200 |



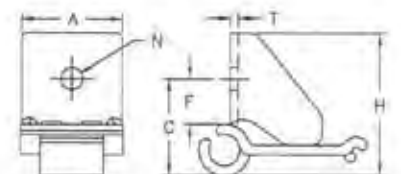
### HB4

| Part #   | Chain # | E   | F       | H      | T    |
|----------|---------|-----|---------|--------|------|
| SDC55HB4 | 55      | 7/8 | 1 11/16 | 2 3/16 | .125 |
| SDC62HB4 | 62      | 7/8 | 1 61/64 | 2 3/16 | .148 |



### C1

| Part #  | Chain # | A      | C      | F     | H       | N     | T    |
|---------|---------|--------|--------|-------|---------|-------|------|
| SDC55C1 | 55      | 1 1/4  | 1 3/16 | 7/16  | 1 3/4   | 17/64 | .105 |
| SDC62C1 | 62      | 1 7/16 | 1 9/32 | 15/32 | 1 25/32 | 17/64 | .105 |

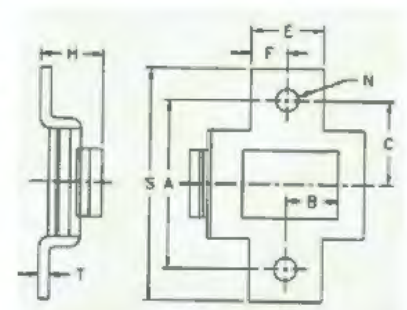


# STEEL DETACHABLE CHAIN

## ATTACHMENT LINKS

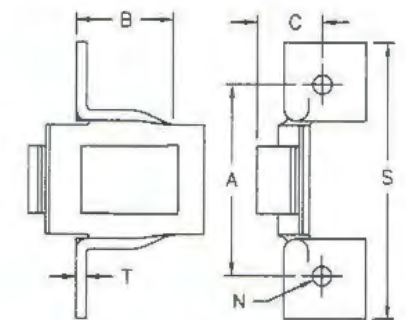
### K1

| Part #  | Chain # | A       | B   | E   | H     | N     | S     | T    |
|---------|---------|---------|-----|-----|-------|-------|-------|------|
| SDC55K1 | 55      | 2       | 5/8 | 7/8 | 3/4   | 17/64 | 2 3/4 | .125 |
| SDC62K1 | 62      | 2 15/32 | 5/8 | 7/8 | 37/64 | 17/64 | 3 1/4 | .148 |



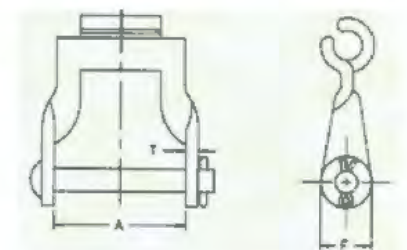
### SD & SH

| Part #  | Chain # | A     | B     | C     | N     | S     | T    |
|---------|---------|-------|-------|-------|-------|-------|------|
| SDC55SD | 55      | 2 1/4 | 1 1/8 | 25/32 | 15/64 | 3 1/4 | .125 |
| SDC62SD | 62      | 2 1/2 | 1 1/8 | 25/32 | 17/64 | 3 5/8 | .148 |
| SDC55SH | 55      | 2 1/4 | 1 1/8 | 25/32 | 9/32  | 3 1/4 | .125 |
| SDC62SH | 62      | 2 3/4 | 1 1/8 | 25/32 | 17/64 | 3 5/8 | .148 |



### C0

| Part # | Chain # | A       | F   | T    |
|--------|---------|---------|-----|------|
| SDC55C | 55      | 1 3/8   | 5/8 | .125 |
| SDC62C | 62      | 1 39/64 | 5/8 | .148 |



### CP & C23 Gathering Chain Fingers

| Part #    | Chain # |
|-----------|---------|
| SDC62HCP  | 62H     |
| SDC67WC23 | 67W     |



## STEEL DETACHABLE CHAIN ASSEMBLIES

### BALE ELEVATOR CHAIN

| Part #     | Chain # | Roll Length |
|------------|---------|-------------|
| SDC55W/HB4 | 55      | 16'         |
| SDC62W/HB4 | 62      | 16'         |

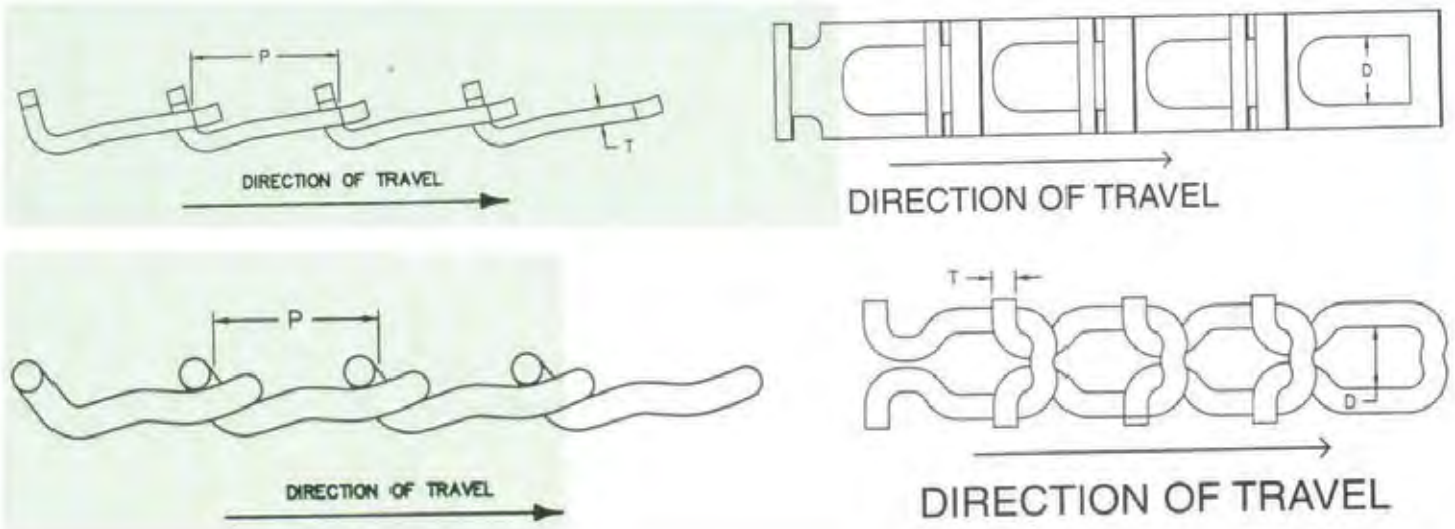
### MANURE SPREADER WEBS

| Part #  | Chain # | Application                 |
|---------|---------|-----------------------------|
| SDCW08  | 67H     | NEW IDEA SPREADERS #8 & #12 |
| SDCW10  | 67H     | NEW IDEA SPREADER #10       |
| SDCW206 | 67H     | NEW IDEA SPREADER #206      |
| SDCWS   | S       | INTERNATIONAL SPREADERS     |
| SDCWNA  | 67H     | WEB WITHOUT ANGLES          |



# T-BAR AND T-ROD CHAIN

T-Bar and T-Rod Chain is made in USA by Allied Locke except where noted otherwise. They are sold by the individual link.



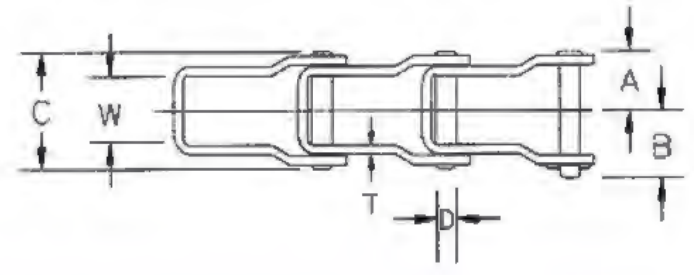
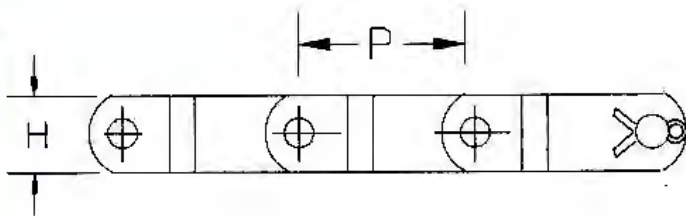
POWER TRANSMISSION

| Part #   | Chain #    | Pitch | Inside Width | Thickness | Overall Width | Average Ultimate Strength |
|----------|------------|-------|--------------|-----------|---------------|---------------------------|
| SDC67TB  | AL67 T-BAR | 2.55  | 1.093        | .312      | 2             | 16,000                    |
| SDC67TR  | AL67 T-ROD | 2.388 | 1.125        | .437      | 2.5           | 16,000                    |
| SDC67TRI | 67 T-ROD*  | 2.388 | 1.125        | .437      | 2.5           | -                         |

\*Made in China

# PINTLE CHAIN

POWER TRANSMISSION



## Dimensions

| Chain # | Pitch | Overall Width | Inside Width | Pin Diameter | Height | Thickness | Minimum Average Tensile Strength |
|---------|-------|---------------|--------------|--------------|--------|-----------|----------------------------------|
|         | P     | C             | W            | D            | H      | T         |                                  |
| AL662   | 1.664 | 1 5/8         | 29/32        | 0.281        | 0.720  | 0.125     | 8500                             |
| AL667H  | 2.313 | 1 47/64       | 1            | 0.312        | 0.875  | 0.125     | 9500                             |
| AL667X  | 2.250 | 1 61/64       | 1 1/16       | 0.437        | 0.937  | 0.170     | 15000                            |
| AL667XH | 2.250 | 2 5/16        | 1 5/64       | 0.469        | 1.062  | 0.224     | 26000                            |

Pintle Chain is made in USA by Allied Locke. It is sold by 10' rolls.

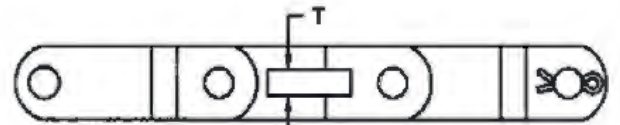
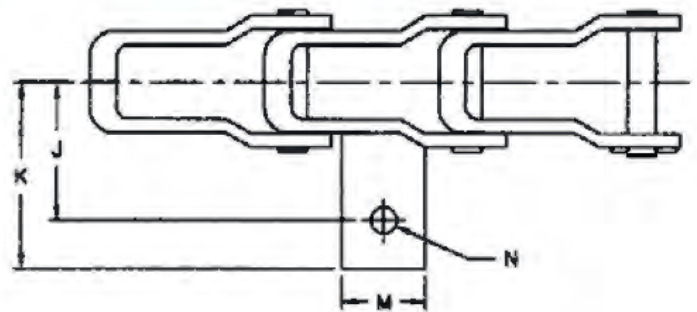
| Part #  | Chain # |
|---------|---------|
| PC662   | AL662   |
| PC667H  | AL667H  |
| PC667X  | AL667X  |
| PC667XH | AL667XH |

## CONNECTING LINKS

Connecting Links come with two pins.

| Part #   | Chain # |
|----------|---------|
| PC662C   | AL662   |
| PC667HC  | AL667H  |
| PC667XC  | AL667X  |
| PC667XHC | AL667XH |

## AS ATTACHMENT LINKS



| Part #    | Chain # | J      | K       | M     | N     | T    |
|-----------|---------|--------|---------|-------|-------|------|
| PC662AC   | AL662   | 1 3/8  | 1 57/64 | 15/16 | 17/64 | 3/16 |
| PC667HAC  | AL667H  | 2 1/32 | 2 19/32 | 1 1/8 | 21/64 | 1/4  |
| PC667XAC  | AL667X  | 2 1/32 | 2 11/16 | 1 1/8 | 21/64 | 5/16 |
| PC667XHAC | AL667XH | 2 1/32 | 2 3/4   | 1 1/4 | 25/64 | 3/8  |

# ROUND KEYED SHAFT

## ROUND KEYED SHAFT



Round Keyed Shaft is cold drawn from 1018 steel. Round keyed shaft is also available in 6' and 12' lengths. It is also available in 1144 stress proof steel and 303 stainless steel in 3', 6', and 12' lengths.

| Part #     | G&G Part # | OD     | Keyway | Length |
|------------|------------|--------|--------|--------|
| EQ144-0800 | 144-0800   | 1/2    | 1/8    | 3'     |
| EQ144-1000 | 144-1000   | 5/8    | 3/16   | 3'     |
| EQ144-1100 | 144-1100   | 11/16  | 3/16   | 3'     |
| EQ144-1200 | 144-1200   | 3/4    | 3/16   | 3'     |
| EQ144-1300 | 144-1300   | 13/16  | 3/16   | 3'     |
| EQ144-1400 | 144-1400   | 7/8    | 3/16   | 3'     |
| EQ144-1404 | 144-1404   | 7/8    | 1/4    | 3'     |
| EQ144-1600 | 144-1600   | 1      | 1/4    | 3'     |
| EQ144-1800 | 144-1800   | 1 1/8  | 1/4    | 3'     |
| EQ144-1900 | 144-1900   | 1 3/16 | 1/4    | 3'     |
| EQ144-2000 | 144-2000   | 1 1/4  | 1/4    | 3'     |
| EQ144-2005 | 144-2005   | 1 1/4  | 5/16   | 3'     |
| EQ144-2100 | 144-2100   | 1 5/16 | 5/16   | 3'     |
| EQ144-2200 | 144-2200   | 1 3/8  | 5/16   | 3'     |
| EQ144-2300 | 144-2300   | 1 7/16 | 3/8    | 3'     |
| EQ144-2400 | 144-2400   | 1 1/2  | 3/8    | 3'     |
| EQ144-2600 | 144-2600   | 1 5/8  | 3/8    | 3'     |
| EQ144-2800 | 144-2800   | 1 3/4  | 3/8    | 3'     |

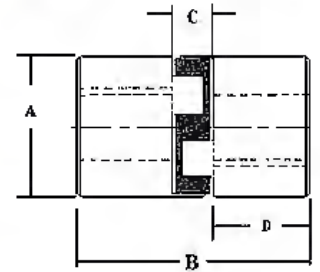
| Part #     | G&G Part # | OD      | Keyway | Length |
|------------|------------|---------|--------|--------|
| EQ144-3100 | 144-3100   | 1 15/16 | 1/2    | 3'     |
| EQ144-3200 | 144-3200   | 2       | 1/2    | 3'     |
| EQ144-3500 | 144-3500   | 2 3/16  | 1/2    | 3'     |
| EQ144-3900 | 144-3900   | 2 7/16  | 5/8    | 3'     |
| EQ144-4000 | 144-4000   | 2 1/2   | 5/8    | 3'     |
| EQ144-4700 | 144-4700   | 2 15/16 | 3/4    | 3'     |
| EQ144-4800 | 144-4800   | 3       | 3/4    | 3'     |
| EQ144-5000 | 144-5000   | 3 1/8   | 3/4    | 3'     |
| EQ144-5100 | 144-5100   | 3 3/16  | 3/4    | 3'     |
| EQ144-5200 | 144-5200   | 3 1/4   | 3/4    | 3'     |
| EQ144-5400 | 144-5400   | 3 3/8   | 7/8    | 3'     |
| EQ144-5500 | 144-5500   | 3 7/16  | 7/8    | 3'     |
| EQ144-5600 | 144-5600   | 3 1/2   | 7/8    | 3'     |
| EQ144-5800 | 144-5800   | 3 5/8   | 7/8    | 3'     |
| EQ144-6000 | 144-6000   | 3 3/4   | 7/8    | 3'     |
| EQ144-6300 | 144-6300   | 3 15/16 | 1      | 3'     |
| EQ144-6400 | 144-6400   | 4       | 1      | 3'     |

Shafting & Tubing are non-stock items. Lead time is 2-4 days. All shafting & tubing listed is made in the USA

# MASTERDRIVE® JAW COUPLINGS

## Dimensions

| Coupling | A     | B     | C     | D     | Set Screw Size | Set Screw Quantity |
|----------|-------|-------|-------|-------|----------------|--------------------|
| L035     | 0.625 | 0.813 | 0.281 | 0.266 | 6-32 X 1/8     | 1                  |
| L050     | 1.063 | 1.721 | 0.470 | 0.625 | 1/4-20 X 3/16  | 1                  |
| L070     | 1.375 | 2.000 | 0.500 | 0.770 | 1/4-20 X 1/4   | 1                  |
| L075     | 1.750 | 2.126 | 0.480 | 0.820 | 1/4-20 X 3/8   | 1                  |
| L090     | 2.125 | 2.146 | 0.490 | 0.841 | 1/4-20 X 3/8   | 1                  |
| L095     | 2.125 | 2.520 | 0.455 | 1.020 | 5/16-18 X 3/8  | 2                  |
| L099     | 2.531 | 2.835 | 0.650 | 1.071 | 5/16-18 X 3/8  | 2                  |
| L100     | 2.531 | 3.459 | 0.660 | 1.368 | 5/16-18 X 3/8  | 2                  |
| L110     | 3.313 | 4.252 | 0.843 | 1.706 | 3/8-16 X 5/16  | 2                  |
| L150     | 3.750 | 4.500 | 0.940 | 1.771 | 3/8-16 X 1/2   | 2                  |
| L190     | 4.500 | 5.250 | 0.875 | 2.134 | 1/2-13 X 1/2   | 2                  |
| L225     | 5.000 | 6.142 | 0.942 | 2.500 | 1/2-13 X 1/2   | 2                  |



## Keyway Dimensions

| Bore Size                                       | Keyway      |
|---|-------------|
| 1/8, 3/16, 1/4, 5/16, 3/8, 7/16                 | NONE        |
| 1/2, 9/16                                       | 1/8 X 1/16  |
| 5/8, 11/16, 3/4, 13/16, 7/8                     | 3/16 X 3/32 |
| 15/16, 1, 1 1/16, 1 1/8, 1 3/16, 1 1/4          | 1/4 X 1/8   |
| 1 5/16, 1 3/8                                   | 5/16 X 5/32 |
| 1 7/16, 1 1/2, 1 9/16, 1 5/8, 1 11/16, 1 3/4    | 3/8 X 3/16  |
| 1 7/8, 1 15/16, 2, 2 1/16, 2 1/8, 2 3/16, 2 1/4 | 1/2 X 1/4   |
| 2 3/8, 2 7/16, 2 1/2, 2 5/8                     | 5/8 X 5/16  |

Jaw Coupling halves and spiders are sold separately. To order a complete jaw coupling, order two halves and one spider. Our jaw couplings are Masterdrive brand.

| Part #    | Size       |
|-----------|------------|
| EQML07505 | L075-5/16  |
| EQML07506 | L075-3/8   |
| EQML07507 | L075-7/16  |
| EQML07508 | L075-1/2   |
| EQML07510 | L075-5/8   |
| EQML07511 | L075-11/16 |
| EQML07512 | L075-3/4   |
| EQML07514 | L075-7/8   |
| EQML09007 | L090-7/16  |
| EQML09008 | L090-1/2   |
| EQML09009 | L090-9/16  |
| EQML09010 | L090-5/8   |
| EQML09012 | L090-3/4   |

| Part #    | Size       |
|-----------|------------|
| EQML09014 | L090-7/8   |
| EQML09016 | L090-1     |
| EQML09018 | L090-1 1/8 |
| EQML09508 | L095-1/2   |
| EQML09510 | L095-5/8   |
| EQML09512 | L095-3/4   |
| EQML09514 | L095-7/8   |
| EQML09515 | L095-15/16 |
| EQML09516 | L095-1     |
| EQML09518 | L095-1 1/8 |
| EQML09908 | L099-1/2   |
| EQML09909 | L099-9/16  |
| EQML09910 | L099-5/8   |

| Part #    | Size       |
|-----------|------------|
| EQML09912 | L099-3/4   |
| EQML09914 | L099-7/8   |
| EQML09916 | L099-1     |
| EQML09918 | L099-1 1/8 |
| EQML10008 | L100-1/2   |
| EQML10009 | L100-9/16  |
| EQML10010 | L100-5/8   |
| EQML10011 | L100-11/16 |
| EQML10012 | L100-3/4   |
| EQML10013 | L100-13/16 |
| EQML10014 | L100-7/8   |
| EQML10016 | L100-1     |

| Part #    | Size        |
|-----------|-------------|
| EQML10018 | L100-1 1/8  |
| EQML10020 | L100-1 1/4  |
| EQML10022 | L100-1 3/8  |
| EQML11012 | L110-3/4    |
| EQML11014 | L110-7/8    |
| EQML11016 | L110-1      |
| EQML11018 | L110-1 1/8  |
| EQML11020 | L110-1 1/4  |
| EQML11022 | L110-1 3/8  |
| EQML11023 | L110-1 7/16 |
| EQML11024 | L110-1 1/2  |
| EQML11026 | L110-1 5/8  |

We have many more bore sizes available. Lead time is 1-2 days.

Buna-N spiders are black in color and are the most commonly used spider. Hytrel spiders are a much tougher spider and are white in color.

## BUNA-N SPIDERS

| Part #   | Size     |
|----------|----------|
| EQML075N | L075N    |
| EQML090N | L090/95N |

| Part #   | Size      |
|----------|-----------|
| EQML099N | L099/100N |
| EQML110N | L110N     |

# MASTERDRIVE® JAW COUPLINGS

## MASTERDRIVE® JAW COUPLINGS Horsepower Capacities for Buna-N Inserts

| Coupling Number | Rated Torque<br>Lbs. In. | Horsepower Capacity at Varying RPM |       |       |       |        | Max Bore |
|-----------------|--------------------------|------------------------------------|-------|-------|-------|--------|----------|
|                 |                          | 100                                | 300   | 1200  | 1800  | 3600   |          |
| L035            | 3.16                     | 0.0056                             | 0.017 | 0.067 | 0.10  | 0.20   | 5/16     |
| L050            | 28.1                     | 0.04                               | 0.12  | 0.48  | 0.72  | 1.44   | 5/8      |
| L070            | 37.5                     | 0.06                               | 0.18  | 0.72  | 1.08  | 2.16   | 25/32    |
| L075            | 73                       | 0.12                               | 0.36  | 1.44  | 2.16  | 4.32   | 1 1/32   |
| L090            | 126                      | 0.20                               | 0.60  | 2.40  | 3.60  | 7.20   | 1 1/8    |
| L095            | 169                      | 0.28                               | 0.84  | 3.36  | 5.04  | 10.08  | 1 1/8    |
| L099            | 260                      | 0.42                               | 1.26  | 5.04  | 7.56  | 15.10  | 1 13/32  |
| L100            | 370                      | 0.60                               | 1.80  | 7.20  | 10.80 | 21.60  | 1 13/32  |
| L110            | 680                      | 1.10                               | 3.30  | 13.20 | 19.80 | 39.60  | 1 7/8    |
| L150            | 1080                     | 1.70                               | 5.10  | 20.40 | 30.60 | 61.20  | 1 7/8    |
| L190            | 1350                     | 2.20                               | 6.60  | 26.40 | 39.60 | 79.20  | 2 9/32   |
| L225            | 2000                     | 3.30                               | 9.90  | 39.60 | 59.40 | 118.80 | 2 3/8    |

## HYTREL SPIDERS

| Part #   | Size      |
|----------|-----------|
| EQML075H | L075H     |
| EQML095H | L090/095H |
| EQML100H | L099/100H |

POWER TRANSMISSION

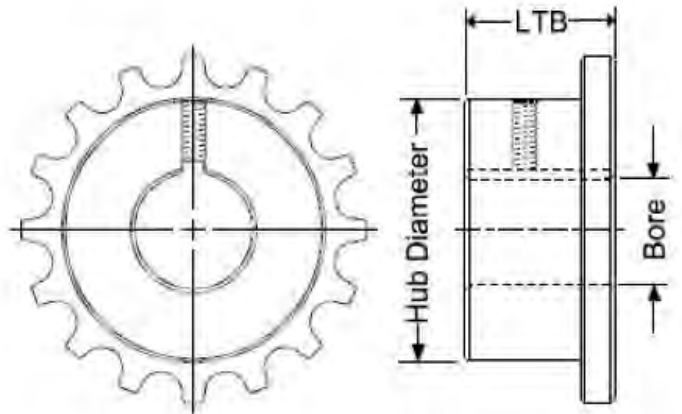
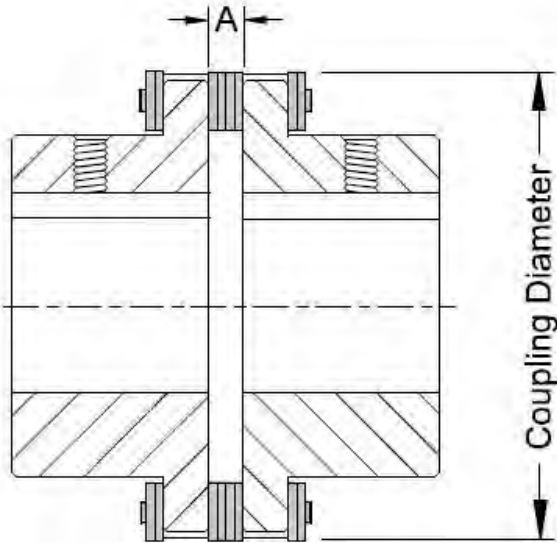
# DOUBLE ROLLER CHAIN COUPLER SPROCKETS

## Dimensions

| Coupling | Coupling Diameter | Hub Diameter | LTB     | OAL     |
|----------|-------------------|--------------|---------|---------|
| 4012     | 2 13/32           | 1 13/32      | 1 1/8   | 2 17/32 |
| 4016     | 3 1/32            | 1 31/32      | 1 1/8   | 2 17/32 |
| 5016     | 3 25/32           | 2 1/2        | 1 7/16  | 3 1/4   |
| 5018     | 4 3/16            | 2 31/32      | 1 11/16 | 3 3/4   |
| 6018     | 5                 | 3 1/2        | 1 7/8   | 4 3/16  |
| 6020     | 5 1/2             | 4 7/8        | 2       | 5 21/64 |
| 8018     | 6 21/32           | 4 9/16       | 2 3/8   | 5 5/16  |
| 6020     | 7 19/64           | 5 3/8        | 2 5/8   | 5 13/16 |

## Standard Keyway Dimensions

| Shaft Dia.    | Key Seat W X D |
|---------------|----------------|
| 1/2-9/16      | 1/8 X 1/16     |
| 5/8-7/8       | 3/16 X 3/32    |
| 15/16-1 1/4   | 1/4 X 1/8      |
| 1 5/16-1 3/8  | 5/16 X 5/32    |
| 1 7/16-1 3/4  | 3/8 X 3/16     |
| 1 13/16-2 1/4 | 1/2 X 1/4      |
| 2 5/16-2 1/2  | 5/8 X 5/16     |



# DOUBLE ROLLER CHAIN COUPLER SPROCKETS

A complete Double Roller Chain Coupler Sprocket consists of two coupler halves and one coupler chain. Coupler halves are furnished with keyway and set screw. Halves and chains need to be ordered separately. The sprocket number gives the chain size, the number of teeth, and the bore size (5016 X 1 1/8 is a coupler sprocket for 50 chain, with 16 teeth, and a 1 1/8 bore). These are a non-stock item. Lead time is 2-3 days.

POWER TRANSMISSION

| Part #      | G & G Part # | Sprocket #        |
|-------------|--------------|-------------------|
| EQ094012005 | 094012005    | 4012 X STOCK BORE |
| EQ094012085 | 094012085    | 4012 X 1/2        |
| EQ094012105 | 094012105    | 4012 X 5/8        |
| EQ094012125 | 094012125    | 4012 X 3/4        |
| EQ094016005 | 094016005    | 4016 X STOCK BORE |
| EQ094016105 | 094016105    | 4016 X 5/8        |
| EQ094016125 | 094016125    | 4016 X 3/4        |
| EQ094016145 | 094016145    | 4016 X 7/8        |
| EQ094016155 | 094016155    | 4016 X 15/16      |
| EQ094016165 | 094016165    | 4016 X 1          |
| EQ094016185 | 094016185    | 4016 X 1 1/8      |
| EQ094016205 | 094016205    | 4016 X 1 1/4      |
| EQ095016005 | 095016005    | 5016 X STOCK BORE |
| EQ095016125 | 095016125    | 5016 X 3/4        |
| EQ095016145 | 095016145    | 5016 X 7/8        |
| EQ095016165 | 095016165    | 5016 X 1          |
| EQ095016185 | 095016185    | 5016 X 1 1/8      |
| EQ095016205 | 095016205    | 5016 X 1 1/4      |
| EQ095016225 | 095016225    | 5016 X 1 3/8      |
| EQ095016235 | 095016235    | 5016 X 1 7/16     |
| EQ095016245 | 095016245    | 5016 X 1 1/2      |
| EQ095016265 | 095016265    | 5016 X 1 5/8      |
| EQ095018005 | 095018005    | 5018 X STOCK BORE |
| EQ095018125 | 095018125    | 5018 X 3/4        |
| EQ095018145 | 095018145    | 5018 X 7/8        |
| EQ095018165 | 095018165    | 5018 X 1          |

| Part #      | G & G Part # | Sprocket #        |
|-------------|--------------|-------------------|
| EQ095018185 | 095018185    | 5018 X 1 1/8      |
| EQ095018205 | 095018205    | 5018 X 1 1/4      |
| EQ095018225 | 095018225    | 5018 X 1 3/8      |
| EQ095018235 | 095018235    | 5018 X 1 7/16     |
| EQ095018245 | 095018245    | 5018 X 1 1/2      |
| EQ095018265 | 095018265    | 5018 X 1 5/8      |
| EQ095018285 | 095018285    | 5018 X 1 3/4      |
| EQ095018305 | 095018305    | 5018 X 1 7/8      |
| EQ095018315 | 095018315    | 5018 X 1 15/16    |
| EQ096018005 | 096018005    | 6018 X STOCK BORE |
| EQ096018165 | 096018165    | 6018 X 1          |
| EQ096018205 | 096018205    | 6018 X 1 1/4      |
| EQ096018225 | 096018225    | 6018 X 1 3/8      |
| EQ096018235 | 096018235    | 6018 X 1 7/16     |
| EQ096018245 | 096018245    | 6018 X 1 1/2      |
| EQ096018265 | 096018265    | 6018 X 1 5/8      |
| EQ096018285 | 096018285    | 6018 X 1 3/4      |
| EQ096018305 | 096018305    | 6018 X 1 7/8      |
| EQ096018315 | 096018315    | 6018 X 1 15/16    |
| EQ096018325 | 096018325    | 6018 X 2          |
| EQ096018365 | 096018365    | 6018 X 2 1/4      |
| EQ096020005 | 096020005    | 6020 X STOCK BORE |
| EQ096020245 | 096020245    | 6020 X 1 1/2      |
| EQ096020285 | 096020285    | 6020 X 1 3/4      |
| EQ098018005 | 098018005    | 8018 X STOCK BORE |
| EQ098020005 | 098020005    | 8020 X STOCK BORE |

## COUPLER CHAIN

| Part #      | G & G Part # | Chain Size | # of Teeth |
|-------------|--------------|------------|------------|
| EQ094012CH5 | 094012CH5    | 40         | 12         |
| EQ094016CH5 | 094016CH5    | 40         | 16         |
| EQ095016CH5 | 095016CH5    | 50         | 16         |
| EQ095018CH5 | 095018CH5    | 50         | 18         |

| Part #      | G & G Part # | Chain Size | # of Teeth |
|-------------|--------------|------------|------------|
| EQ096018CH5 | 096018CH5    | 60         | 18         |
| EQ096020CH5 | 096020CH5    | 60         | 20         |
| EQ098018CH5 | 098018CH5    | 80         | 18         |
| EQ098020CH5 | 098020CH5    | 80         | 20         |

# SHAFT COUPLERS

Hex Bore Shaft Couplers have two set screws, one at each end of the coupler. Round Bore Shaft Couplers have a key way and two set screws, one at each end of the coupler. Stock shaft couplers are noted with an \*. All other sizes have a lead time of 2-3 days.

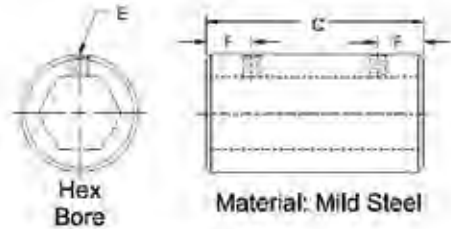
POWER TRANSMISSION

## HEX BORE

### Set Screw Dimensions

| Bore Sizes                    | Set Screw Size |
|-------------------------------|----------------|
| 5/8, 3/4, 7/8                 | 1/4-20         |
| 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4 | 5/16-18        |

| Part #      | Bore | OD    | Length | F   |
|-------------|------|-------|--------|-----|
| EQ126-10005 | 5/8  | 1 1/2 | 2 1/2  | 5/8 |
| EQ126-12005 | 3/4  | 1 5/8 | 3      | 5/8 |
| EQ126-14005 | 7/8  | 1 3/4 | 3      | 5/8 |
| EQ126-16005 | 1    | 1 3/4 | 3      | 5/8 |



Hex Bore

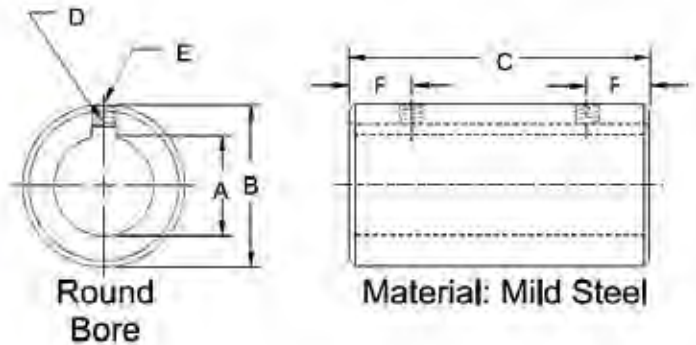
Material: Mild Steel

| Part #      | Bore  | OD    | Length | F     |
|-------------|-------|-------|--------|-------|
| EQ126-18005 | 1 1/8 | 2     | 4 1/2  | 1     |
| EQ126-20005 | 1 1/4 | 2 1/8 | 4 1/2  | 1     |
| EQ126-24005 | 1 1/2 | 2 3/4 | 4 1/2  | 1 1/8 |
| EQ126-28005 | 1 3/4 | 3     | 4 1/2  | 1 1/8 |

## ROUND BORE

### Key Way & Set Screw Dimensions

| Bore Sizes                  | Key Size | Set Screw Size |
|-----------------------------|----------|----------------|
| 1/2                         | 1/8      | 1/4-20         |
| 5/8, 3/4, 7/8               | 3/16     | 1/4-20         |
| 1, 1 1/8, 1 3/16, 1 1/4     | 1/4      | 5/16-18        |
| 1 1/4*, 1 3/8               | 5/16     | 3/8-16         |
| 1 7/16, 1 1/2, 1 5/8, 1 3/4 | 3/8      | 3/8-16         |
| 1 15/16, 2                  | 1/2      | 1/2-13         |



Round Bore

Material: Mild Steel

\*Oversized key. Uses 5/16-18 set screws instead of 3/8-16.

| Part #      | Bore   | OD    | Length | F   |
|-------------|--------|-------|--------|-----|
| EQ127-08005 | 1/2    | 1 1/4 | 2      | 1/2 |
| EQ127-10005 | 5/8*   | 1 1/2 | 2 1/2  | 5/8 |
| EQ127-12005 | 3/4*   | 1 5/8 | 3      | 5/8 |
| EQ127-14005 | 7/8*   | 1 3/4 | 3      | 3/4 |
| EQ127-16005 | 1*     | 1 5/8 | 3      | 5/8 |
| EQ127-16045 | 1      | 1 3/4 | 4      | 7/8 |
| EQ127-18005 | 1 1/8* | 2     | 4 1/2  | 7/8 |
| EQ127-19005 | 1 3/16 | 2     | 4 1/2  | 7/8 |
| EQ127-20005 | 1 1/4* | 2 1/8 | 4 1/2  | 1   |

| Part #         | Bore    | OD     | Length | F |
|----------------|---------|--------|--------|---|
| EQ127-20055 ** | 1 1/4   | 2 1/8  | 4 1/2  | 1 |
| EQ127-22005    | 1 3/8   | 2 5/16 | 4 1/2  | 1 |
| EQ127-23005    | 1 7/16  | 2 5/16 | 4 1/2  | 1 |
| EQ127-24005    | 1 1/2*  | 2 1/2  | 4 1/2  | 1 |
| EQ127-26005    | 1 5/8   | 2 3/4  | 4 1/2  | 1 |
| EQ127-28005    | 1 3/4   | 2 3/4  | 4 1/2  | 1 |
| EQ127-31005    | 1 15/16 | 3 5/16 | 4 1/2  | 1 |
| EQ127-32005    | 2       | 3 5/16 | 4 1/2  | 1 |

\*\* 5/16 keyway

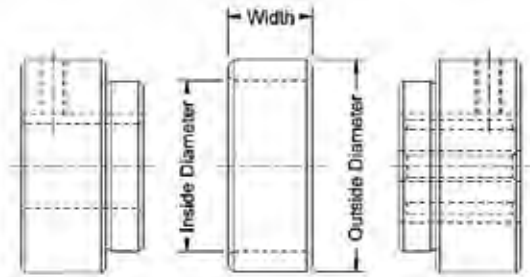


# WELDAHUB® COUPLER HUBS & MASKAFLEX TIRE COUPLERS

## WELDAHUB® COUPLER HUBS

| Part #     | Hub Series | ID    | OD    | Width |
|------------|------------|-------|-------|-------|
| EQ012-3226 | W          | 1 5/8 | 2     | 1     |
| EQ012-4032 | X & XX     | 2     | 2 1/2 | 1     |

Weldahub® Coupler Hubs are designed to make a shaft coupler out of two weldahubs for two shafts of the same or different styles and sizes .



POWER TRANSMISSION

## MASKAFLEX TIRE COUPLERS

### Dimensions

| Coupler # | Bushing Size | Max Bore | Installed Tire OD | Installed Coupling Width |
|-----------|--------------|----------|-------------------|--------------------------|
| MX 50     | JA           | 1 1/4    | 5 1/4             | 3 7/8                    |
| MX 60     | SH           | 1 5/8    | 6 1/2             | 4 23/32                  |
| MX 70     | SDS          | 1 15/16  | 7 3/8             | 4 17/32                  |
| MX 80     | SK           | 2 1/2    | 8 3/8             | 5 13/16                  |
| MX 90     | SK           | 2 1/2    | 9 1/4             | 5 7/8                    |
| MX 100    | SF           | 2 3/4    | 10                | 6 1/8                    |
| MX 110    | SF           | 2 3/4    | 11                | 5 7/8                    |
| MX 120    | E            | 3 7/16   | 12 3/8            | 7 1/4                    |
| MX 140    | F            | 3 15/16  | 14 1/8            | 9 1/2                    |
| MX 160    | J            | 4        | 16 5/8            | 11 1/2                   |
| MX 200    | J            | 4        | 20                | 11 3/4                   |



Maskaflex Tire Couplers are the most suitable coupling for applications with shock loads, angular misalignment, or end float. Fits with standard QD bushings for easy installation, greater versatility, and doesn't damage the shaft. The couplers come as 2 flanges, 1 tire, and 2 QD bushings. Tire Couplers are non-stock. Lead time is 2-3 days.

### Coupling HP Ratings and Misalignment

| Coupler # | Max RPM | HP per 100 RPM at different Service Factors |       |       |       |       | Max Parallel Misalign | Max Axial Misalign |
|-----------|---------|---|-------|-------|-------|-------|-----------------------|--------------------|
|           |         | 1.0   | 1.5   | 2.0   | 2.5   | 3.0   |                       |                    |
| MX 50     | 4500    | 1.43  | 0.95  | 0.72  | 0.57  | 0.48  | 3/64                  | 1/16               |
| MX 60     | 4000    | 2.86  | 1.91  | 1.43  | 1.14  | 0.95  | 1/16                  | 5/64               |
| MX 70     | 3600    | 3.49  | 2.33  | 1.75  | 1.40  | 1.16  | 5/64                  | 3/32               |
| MX 80     | 3100    | 5.71  | 3.81  | 2.86  | 2.28  | 1.90  | 5/64                  | 7/64               |
| MX 90     | 2800    | 6.90  | 4.60  | 3.45  | 2.76  | 2.30  | 3/32                  | 1/8                |
| MX 100    | 2600    | 8.33  | 5.55  | 4.17  | 3.33  | 2.78  | 7/64                  | 1/8                |
| MX 110    | 2300    | 12.30                                       | 8.20  | 6.15  | 4.92  | 4.10  | 7/64                  | 9/64               |
| MX 120    | 2100    | 19.90                                       | 13.27 | 9.95  | 7.96  | 6.63  | 1/8                   | 5/32               |
| MX 140    | 1840    | 43.78                                       | 29.19 | 21.89 | 17.51 | 14.59 | 9/64                  | 3/16               |
| MX 160    | 1560    | 59.98                                       | 39.99 | 29.99 | 23.99 | 19.99 | 11/64                 | 13/64              |
| MX 200    | 1300    | 130.90                                      | 87.27 | 65.45 | 52.36 | 43.63 | 13/64                 | 17/64              |

| Flange Part # | Tire Part # | Coupler # |
|---------------|-------------|-----------|
| EQMCMXF50     | EQMCP50     | MX 50     |
| EQMCMXF60     | EQMCP60     | MX 60     |
| EQMCMXF70     | EQMCP70     | MX 70     |
| EQMCMXF80     | EQMCP80     | MX 80     |
| EQMCMXF90     | EQMCP90     | MX 90     |
| EQMCMXF100    | EQMCP100    | MX 100    |

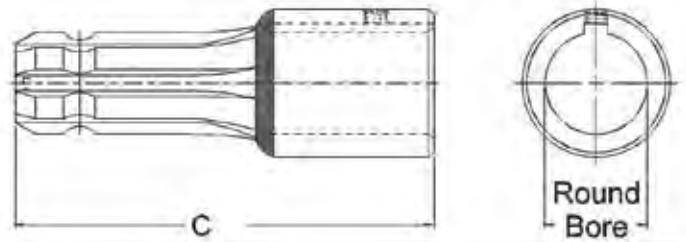
| Flange Part # | Tire Part # | Coupler # |
|---------------|-------------|-----------|
| EQMCMXF110    | EQMCP110    | MX 110    |
| EQMCMXF120    | EQMCP120    | MX 120    |
| EQMCMXF140    | EQMCP140    | MX 140    |
| EQMCMXF160    | EQMCP160    | MX 160    |
| EQMCMXF200    | EQMCP200    | MX 200    |

# PUMP ADAPTERS & REPLACEMENT BALLS FOR 3 POINT HITCHES

POWER TRANSMISSION

## PUMP ADAPTERS

### SPLINED MALE TO ROUND BORE FEMALE



| Part #     | G&G Part # | Spline Size | Round Bore | Length |
|------------|------------|-------------|------------|--------|
| EQ113-1600 | 113-1600   | 1 3/8 X 6   | 1          | 5 3/4  |
| EQ113-1800 | 113-1800   | 1 3/8 X 6   | 1 1/8      | 5 7/8  |
| EQ113-2000 | 113-2000   | 1 3/8 X 6   | 1 1/4      | 5 7/8  |
| EQ113-2200 | 113-2200   | 1 3/8 X 6   | 1 3/8      | 5 3/4  |
| EQ113-2400 | 113-2400   | 1 3/8 X 6   | 1 1/2      | 5 7/8  |

## REPLACEMENT BALLS FOR 3 POINT HITCHES

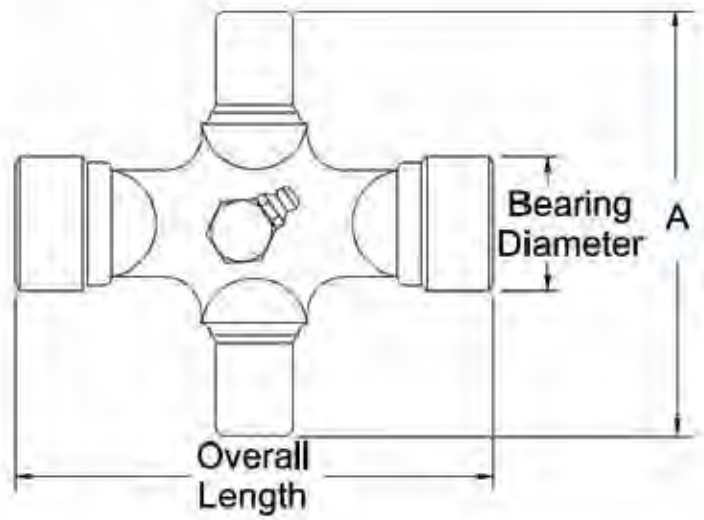


| Part #    | Description              | Hole Diameter | Ball Diameter | Hole Length |
|-----------|--------------------------|---------------|---------------|-------------|
| EQRB22442 | TOP LINK CAT 2 JD/OLIVER | 1 "           | 2 "           | 1-3/4 "     |
| EQRB22443 | LIFT ARM CAT 1 FORD      | 7/8 "         | 2-1/4 "       | 1-3/8 "     |
| EQRB22444 | LIFT ARM CAT 2 FORD      | 1-1/8 "       | 2-1/4 "       | 1-3/4 "     |

# REPAIR KITS (CROSS BEARINGS)

| Part #     | PTO Series | OAL    | Bearing Diameter |
|------------|------------|--------|------------------|
| EQ302-0400 | 4P         | 2 1/8  | 7/8              |
| EQ302-0600 | 6N         | 2 5/16 | 31/32            |
| EQ302-0675 | 0675       | 2 5/16 | 15/16            |
| EQ302-1200 | 12N        | 2 9/16 | 1 1/16           |
| EQ302-1400 | 14N        | 2 5/8  | 1 1/8            |
| EQ302-1875 | 1800       | 3 3/16 | 1                |
| EQ302-3500 | 35N        | 3 7/32 | 1 1/4            |
| EQ302-4400 | 44R        | 4      | 1 5/16           |
| EQ302-5500 | 55N        | 4 5/16 | 1 17/32          |

Repair Kits are a stock item.



POWER TRANSMISSION

# KEY STOCK

POWER TRANSMISSION

## SQUARE • UNDERSIZED • 12" LENGTH

| Part #     | Size  |
|------------|-------|
| EQ407-0200 | 1/8   |
| EQ407-0250 | 5/32  |
| EQ407-0300 | 3/16  |
| EQ407-0400 | 1/4   |
| EQ407-0500 | 5/16  |
| EQ407-0600 | 3/8   |
| EQ407-0700 | 7/16  |
| EQ407-0800 | 1/2   |
| EQ407-0900 | 9/16  |
| EQ407-1000 | 5/8   |
| EQ407-1200 | 3/4   |
| EQ407-1400 | 7/8   |
| EQ407-1600 | 1     |
| EQ407-1800 | 1 1/8 |
| EQ407-2000 | 1 1/4 |



Key Stock is manufactured from 1018 steel. Tolerances for undersized key stock is +0/- .003 for sizes 3/4 and smaller and +0/- .004 for sizes larger than 3/4.

## SQUARE • UNDERSIZED • CUT TO LENGTH

| Part #       | Size         |
|--------------|--------------|
| EQ407-020008 | 1/8 X 1      |
| EQ407-030006 | 3/16 X 3/4   |
| EQ407-030008 | 3/16 X 1     |
| EQ407-030010 | 3/16 X 1 1/4 |
| EQ407-030012 | 3/16 X 1 1/2 |
| EQ407-030016 | 3/16 X 2     |
| EQ407-040004 | 1/4 X 1/2    |
| EQ407-040006 | 1/4 X 3/4    |
| EQ407-040008 | 1/4 X 1      |
| EQ407-040010 | 1/4 X 1 1/4  |
| EQ407-040012 | 1/4 X 1 1/2  |
| EQ407-040014 | 1/4 X 1 3/4  |
| EQ407-040016 | 1/4 X 2      |
| EQ407-040020 | 1/4 X 2 1/2  |

| Part #       | Size         |
|--------------|--------------|
| EQ407-040024 | 1/4 X 3      |
| EQ407-050006 | 5/16 X 3/4   |
| EQ407-050008 | 5/16 X 1     |
| EQ407-050010 | 5/16 X 1 1/4 |
| EQ407-050012 | 5/16 X 1 1/2 |
| EQ407-050014 | 5/16 X 1 3/4 |
| EQ407-050016 | 5/16 X 2     |
| EQ407-060008 | 3/8 X 1      |
| EQ407-060010 | 3/8 X 1 1/4  |
| EQ407-060012 | 3/8 X 1 1/2  |
| EQ407-060014 | 3/8 X 1 3/4  |
| EQ407-060016 | 3/8 X 2      |
| EQ407-060020 | 3/8 X 2 1/2  |

## RECTANGULAR • UNDERSIZED • 12" LENGTH

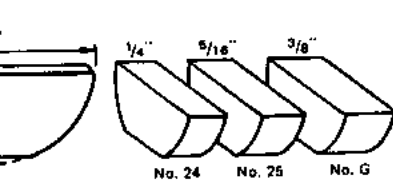
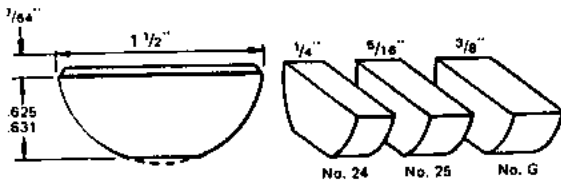
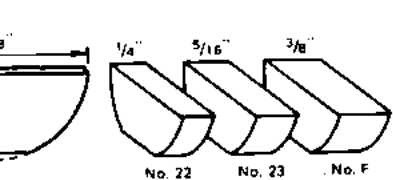
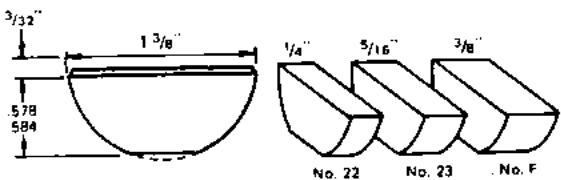
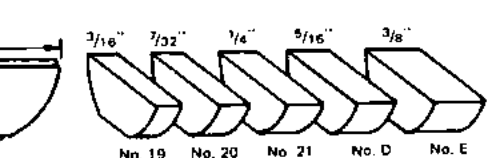
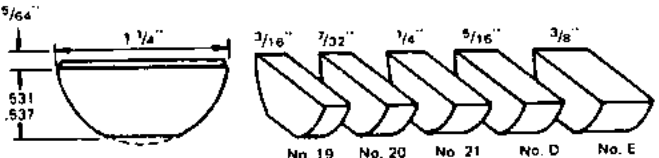
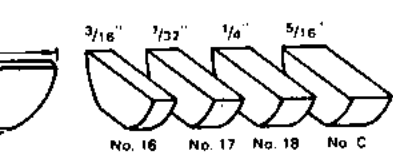
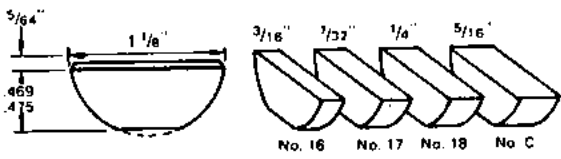
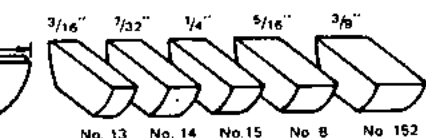
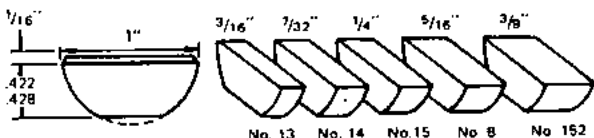
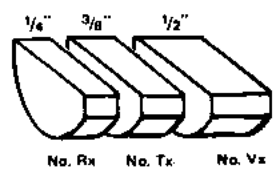
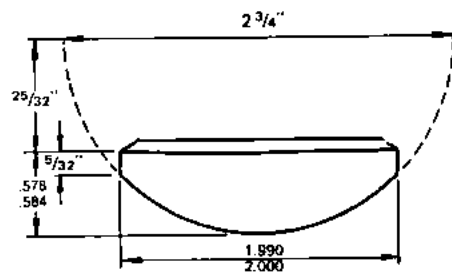
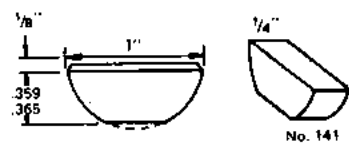
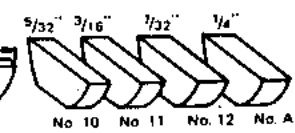
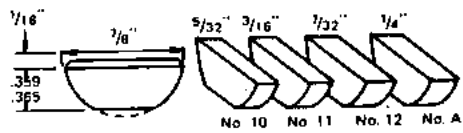
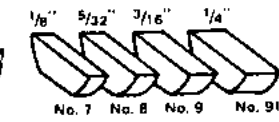
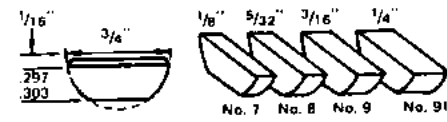
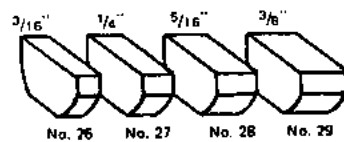
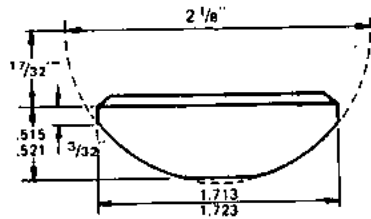
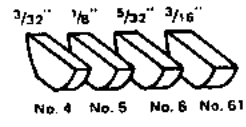
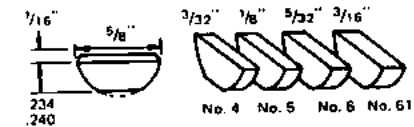
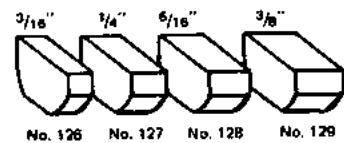
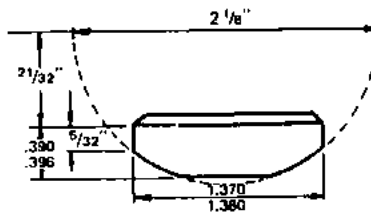
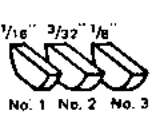
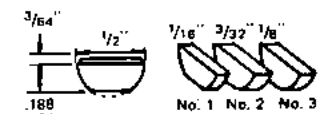
| Part #     | Size        |
|------------|-------------|
| EQ407-0204 | 1/8 X 1/4   |
| EQ407-0304 | 3/16 X 1/4  |
| EQ407-0305 | 3/16 X 5/16 |
| EQ407-0405 | 1/4 X 5/16  |
| EQ407-0406 | 1/4 X 3/8   |
| EQ407-0506 | 5/16 X 3/8  |
| EQ407-0607 | 3/8 X 7/16  |
| EQ407-0608 | 3/8 X 1/2   |
| EQ407-0810 | 1/2 X 5/8   |

## STEP • 12" LENGTH

| Part #     | Size        |
|------------|-------------|
| EQ407-0230 | 1/8 TO 3/16 |
| EQ407-0540 | 5/16 TO 1/4 |
| EQ407-0560 | 5/16 TO 3/8 |
| EQ407-0860 | 1/2 TO 3/8  |

# WOODRUFF KEYS (HALF MOON KEYS)

POWER TRANSMISSION



# WOODRUFF KEYS (HALF MOON KEYS)

Woodruff Keys are manufactured from 1035 steel.



| Part #  | Key # | Size         | Discount Quantity |
|---------|-------|--------------|-------------------|
| FWK0802 | #201  | 1/16 X 1/4   | 100               |
| FWK1003 | #207  | 3/32 X 5/16  | 100               |
| FWK1202 | #211  | 1/16 X 3/8   | 100               |
| FWK1203 | #212  | 3/32 X 3/8   | 100               |
| FWK1204 | #213  | 1/8 X 3/8    | 100               |
| FWK1602 | #1    | 1/16 X 1/2   | 100               |
| FWK1603 | #2    | 3/32 X 1/2   | 100               |
| FWK1604 | #3    | 1/8 X 1/2    | 100               |
| FWK2003 | #4    | 3/32 X 5/8   | 100               |
| FWK2004 | #5    | 1/8 X 5/8    | 100               |
| FWK2005 | #6    | 5/32 X 5/8   | 100               |
| FWK2006 | #61   | 3/16 X 5/8   | 100               |
| FWK2404 | #7    | 1/8 X 3/4    | 100               |
| FWK2405 | #8    | 5/32 X 3/4   | 100               |
| FWK2406 | #9    | 3/16 X 3/4   | 100               |
| FWK2408 | #91   | 1/4 X 3/4    | 100               |
| FWK2805 | #10   | 5/32 X 7/8   | 100               |
| FWK2806 | #11   | 3/16 X 7/8   | 100               |
| FWK2807 | #12   | 7/32 X 7/8   | 100               |
| FWK2808 | #A    | 1/4 X 7/8    | 100               |
| FWK3108 | #141  | 1/4 X 31/32  | 100               |
| FWK3206 | #13   | 3/16 X 1     | 100               |
| FWK3207 | #14   | 7/32 X 1     | 100               |
| FWK3208 | #15   | 1/4 X 1      | 100               |
| FWK3210 | #B    | 5/16 X 1     | 100               |
| FWK3212 | #152  | 3/8 X 1      | 100               |
| FWK3606 | #16   | 3/16 X 1 1/8 | 100               |

| Part #   | Key # | Size         | Discount Quantity |
|----------|-------|--------------|-------------------|
| FWK3607  | #17   | 7/32 X 1 1/8 | 100               |
| FWK3608  | #18   | 1/4 X 1 1/8  | 100               |
| FWK3610  | #C    | 5/16 X 1 1/8 | 100               |
| FWK4006  | #19   | 3/16 X 1 1/4 | 100               |
| FWK4007  | #20   | 7/32 X 1 1/4 | 100               |
| FWK4008  | #21   | 1/4 X 1 1/4  | 100               |
| FWK4010  | #D    | 5/16 X 1 1/4 | 100               |
| FWK4012  | #E    | 3/8 X 1 1/4  | 100               |
| FWK4408  | #22   | 1/4 X 1 3/8  | 100               |
| FWK4410  | #23   | 5/16 X 1 3/8 | 100               |
| FWK4412  | #F    | 3/8 X 1 3/8  | 100               |
| FWK4808  | #24   | 1/4 X 1 1/2  | 100               |
| FWK4810  | #25   | 5/16 X 1 1/2 | 100               |
| FWK4812  | #G    | 3/8 X 1 1/2  | 100               |
| FWK6806A | #126  | 3/16 X 2 1/8 | 100               |
| FWK6806B | #26   | 3/16 X 2 1/8 | 100               |
| FWK6808A | #127  | 1/4 X 2 1/8  | 100               |
| FWK6808B | #27   | 1/4 X 2 1/8  | 100               |
| FWK6810A | #128  | 5/16 X 2 1/8 | 100               |
| FWK6810B | #28   | 5/16 X 2 1/8 | 100               |
| FWK6812A | #129  | 3/8 X 2 1/8  | 100               |
| FWK6812B | #29   | 3/8 X 2 1/8  | 100               |
| FWK8808  | #RX   | 1/4 X 2 3/4  | 100               |
| FWK8810  | #SX   | 5/16 X 2 3/4 | 100               |
| FWK8812  | #TX   | 3/8 X 2 3/4  | 100               |
| FWK8816  | #VX   | 1/2 X 2 3/4  | 100               |

# SET COLLARS

## SOLID • ZINC PLATED

Solid Set Collars use a single set screw to grip the shaft. They do not work well where the shaft is harder than the set collar or where marks on the shaft are not desirable.



| Part # | Size   | Discount Quantity |
|--------|--------|-------------------|
| EQSC03 | 3/16   | 100               |
| EQSC04 | 1/4    | 100               |
| EQSC05 | 5/16   | 100               |
| EQSC06 | 3/8    | 100               |
| EQSC07 | 7/16   | 100               |
| EQSC08 | 1/2    | 100               |
| EQSC09 | 9/16   | 100               |
| EQSC10 | 5/8    | 100               |
| EQSC11 | 11/16  | 100               |
| EQSC12 | 3/4    | 100               |
| EQSC13 | 13/16  | 100               |
| EQSC14 | 7/8    | 100               |
| EQSC15 | 15/16  | 100               |
| EQSC16 | 1      | 100               |
| EQSC17 | 1 1/16 | 100               |
| EQSC18 | 1 1/8  | 100               |
| EQSC19 | 1 3/16 | 100               |
| EQSC20 | 1 1/4  | 100               |
| EQSC21 | 1 5/16 | 100               |
| EQSC22 | 1 3/8  | 100               |

| Part # | Size    | Discount Quantity |
|--------|---------|-------------------|
| EQSC23 | 1 7/16  | 100               |
| EQSC24 | 1 1/2   | 100               |
| EQSC25 | 1 9/16  | 100               |
| EQSC26 | 1 5/8   | 100               |
| EQSC27 | 1 11/16 | 100               |
| EQSC28 | 1 3/4   | 100               |
| EQSC29 | 1 13/16 | 100               |
| EQSC30 | 1 7/8   | 100               |
| EQSC31 | 1 15/16 | 100               |
| EQSC32 | 2       | 100               |
| EQSC34 | 2 1/8   | 100               |
| EQSC35 | 2 3/16  | 100               |
| EQSC36 | 2 1/4   | 100               |
| EQSC38 | 2 3/8   | 100               |
| EQSC39 | 2 7/16  | 100               |
| EQSC40 | 2 1/2   | 100               |
| EQSC42 | 2 5/8   | 100               |
| EQSC44 | 2 3/4   | 100               |
| EQSC47 | 2 15/16 | 100               |

# SET COLLARS

POWER TRANSMISSION

## SOLID • STAINLESS STEEL

| Part #   | Size | Discount Quantity |
|----------|------|-------------------|
| EQSSSC08 | 1/2  | 100               |

## SINGLE SPLIT • BLACK OXIDE

Single and Double Split Set Collars provide a lock on the shaft through friction only. They are generally considered to give a better grip on the shaft than a solid shaft collar. They can be used on hard or soft shafts as well as on tubing. The double split set collars have the additional advantage of fitting easily into hard to-get-to spots.

| Part #  | Size    |
|---------|---------|
| EQSCS17 | 1 1/16  |
| EQSCS19 | 1 3/16  |
| EQSCS20 | 1 1/4   |
| EQSCS24 | 1 1/2   |
| EQSCS27 | 1 11/16 |



## DOUBLE SPLIT • BLACK OXIDE

| Part #  | Size  |
|---------|-------|
| EQSCD08 | 1/2   |
| EQSCD10 | 5/8   |
| EQSCD12 | 3/4   |
| EQSCD14 | 7/8   |
| EQSCD16 | 1     |
| EQSCD18 | 1 1/8 |
| EQSCD20 | 1 1/4 |

| Part #  | Size    |
|---------|---------|
| EQSCD22 | 1 3/8   |
| EQSCD24 | 1 1/2   |
| EQSCD25 | 1 9/16  |
| EQSCD26 | 1 5/8   |
| EQSCD27 | 1 11/16 |
| EQSCD30 | 1 7/8   |
| EQSCD32 | 2       |





# GREASE FITTINGS

## NATIONAL PIPE THREAD • YELLOW ZINC



Length, if given, is overall length.

| Part #   | Size           | Angle    | Package Quantity |
|----------|----------------|----------|------------------|
| EQZ2ST   | 1/8-27 X 0.62  | STRAIGHT | 100              |
| EQZ2ST20 | 1/8-27 X 1 1/4 | STRAIGHT | 25               |
| EQZ2ST28 | 1/8-27 X 1 3/4 | STRAIGHT | 25               |
| EQZ2ST42 | 1/8-27 X 2-5/8 | STRAIGHT | 25               |
| EQZ245   | 1/8-27         | 45°      | 50               |
| EQZ265   | 1/8-27         | 65°      | 50               |
| EQZ290   | 1/8-27         | 90°      | 50               |
| EQZ4PTST | 1/4-18         | STRAIGHT | 25               |
| EQZ4PT65 | 1/4-18         | 65°      | 25               |

## SAE TAPERED FINE THREAD • YELLOW ZINC

| Part #   | Size           | Angle    | Package Quantity |
|----------|----------------|----------|------------------|
| EQZ4ST   | 1/4-28 X 0.54  | STRAIGHT | 100              |
| EQZ4ST11 | 1/4-28 X 11/16 | STRAIGHT | 50               |
| EQZ4ST15 | 1/4-28 X 15/16 | STRAIGHT | 50               |
| EQZ4ST18 | 1/4-28 X 1 1/8 | STRAIGHT | 50               |
| EQZ445   | 1/4-28         | 45°      | 50               |
| EQZ467   | 1/4-28         | 65°      | 50               |
| EQZ490   | 1/4-28         | 90°      | 50               |

## SAE PARALLEL FINE THREAD • YELLOW ZINC

| Part #    | Size          | Angle    | Package Quantity |
|-----------|---------------|----------|------------------|
| EQZ4STS   | 1/4-28 X 0.49 | STRAIGHT | 100              |
| EQZ5UNFST | 5/16-24       | STRAIGHT | 25               |
| EQZ5UNF45 | 5/16-24       | 45°      | 25               |
| EQZ5UNF90 | 5/16-24       | 90°      | 25               |
| EQZ6UNFST | 3/8-24        | STRAIGHT | 25               |

## THREAD FORMING • SAE FINE THREAD • YELLOW ZINC

| Part #  | Size   | Angle    | Package Quantity |
|---------|--------|----------|------------------|
| AV15068 | 1/4-28 | STRAIGHT | 50               |

# GREASE FITTINGS & DRIVE ZERKS

## GREASE FITTINGS \*CONTINUED FROM PREVIOUS PAGE

### METRIC • YELLOW ZINC

| Part #    | Size    | Angle    | Package Quantity |
|-----------|---------|----------|------------------|
| EQMZ6ST   | M6-1.0  | STRAIGHT | 25               |
| EQMZ645   | M6-1.0  | 45°      | 25               |
| EQMZ690   | M6-1.0  | 90°      | 25               |
| EQMZ8ST   | M8-1.25 | STRAIGHT | 25               |
| EQMZ845   | M8-1.25 | 45°      | 25               |
| EQMZ890   | M8-1.25 | 90°      | 25               |
| EQMZF8ST  | M8-1.0  | STRAIGHT | 25               |
| EQMZF890  | M8-1.0  | 90°      | 25               |
| EQMZF10ST | M10-1.0 | STRAIGHT | 25               |
| EQMZF1045 | M10-1.0 | 45°      | 25               |
| EQMZF1090 | M10-1.0 | 90°      | 25               |

### BUTTON HEAD • NATIONAL PIPE THREAD • YELLOW ZINC

| Part # | Size   | Angle    | Package Quantity |
|--------|--------|----------|------------------|
| EQZ6BH | 3/8-14 | STRAIGHT | 12               |



### FEMALE NATIONAL PIPE THREAD • YELLOW ZINC

| Part #   | Size   | Angle    | Package Quantity |
|----------|--------|----------|------------------|
| EQZ2STF  | 1/8-27 | STRAIGHT | 25               |
| EQZ245FT | 1/8-27 | 45°      | 25               |



### DRIVE ZERKS

| Part #  | Size | Angle    | Package Quantity |
|---------|------|----------|------------------|
| EQZD3   | 3/16 | STRAIGHT | 100              |
| EQZD365 | 3/16 | 65°      | 100              |
| EQZD4   | 1/4  | STRAIGHT | 100              |
| EQZD5   | 5/16 | STRAIGHT | 100              |



# SECTION 3: LUBRICANTS & CHEMICALS



# NOTES



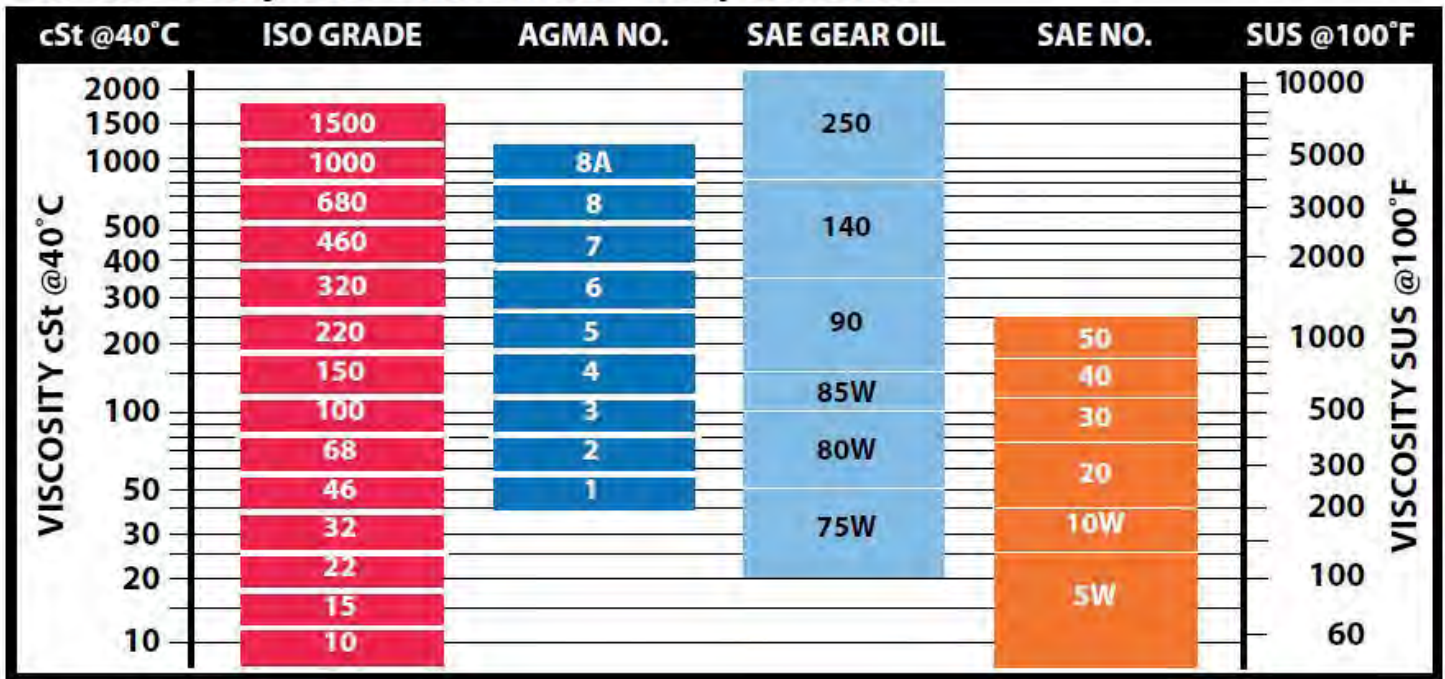
## LUBRIPLATE GENERAL APPLICATION RECOMMENDATIONS

LUBRICANTS & CHEMICALS

| APPLICATIONS                       | NORMAL TEMPERATURES  | HIGH TEMPERATURES                    | LOW TEMPERATURES                 | FOOD MACHINERY GRADE<br>NSF H-1 CLASS / FDA CFR<br>178.3570 |
|------------------------------------|--|--------------------------------------|----------------------------------|---|
| GENERAL GREASE                     | 1200-2 / SYN-1602  | HIGH TEMP / 1552 /<br>SYNXTREME HD-2 | MAG-1 / SYN-1601                 | FGL-1 / FGL-2 / SYNXTREME FG-2                              |
| GENERAL OIL                        | SPO-233 / SYN-LUBE-100   | SPO-266 / SYN-LUBE-320               | SPO-233 / SYN-LUBE-100           | FMO-350AW / SFGO ULTRA-68                                   |
| CENTRALIZED SYSTEMS / GREASE       | 930-AAA / 630-AAA / SYN-1600   | 930-AAA / SYNXTREME HD-0             | MAG-00 / 1550                    | FGL-0 / FGL-00 / SYNXTREME FG-0                             |
| CENTRALIZED SYSTEMS / OIL          | SPO-233 / SYN-LUBE-100   | SPO-277 / SYN-LUBE-460               | SPO-222 / SYN-LUBE-68            | FMO-350AW-500AW /<br>SFGO ULTRA 68                          |
| GEARBOXES (HELICAL, SPUR)          | SPO-255 / SYN-LUBE-220   | SPO-MG / SYN-LUBE-320                | SPO-244 / SYN-LUBE-150           | FMO-1100AW / SFGO ULTRA 220                                 |
| GEARBOXES (WORM)                   | SPO-277 / SYN-LUBE-460   | SPO-288 / SYN-LUBE-680               | SPO-MG / SYN-LUBE-320            | FMO-3800AW / SFGO ULTRA 680                                 |
| OPEN GEARS                         | GEAR SHIELD EXTRA HEAVY  | GEAR SHIELD XTRA HEAVY               | LOW TEMP GEAR SHIELD             | PURE TAC  |
| HYDRAULIC EQUIPMENT                | HO-1 / HO-2 / SYN-LUBE-68  | HO-2A / SYN-LUBE-100                 | LOW POUR HO / SYN-LUBE-22        | FMO-350AW / SFGO ULTRA 68                                   |
| AIR COMPRESSORS<br>(RECIPROCATING) | SYN-LUBE-68  | SYN-LUBE-100                         | SYN-LUBE-32                      | SFGO ULTRA-68 or 100  |
| AIR COMPRESSORS (ROTARY<br>SCREW)  | SYN-LUBE-46  | SYN-LUBE-46                          | SYN-LUBE-32                      | SFGO ULTRA-46 or 68   |
| HIGH SPEED BEARINGS (OIL)          | HO-0 / SYN-LUBE-32   | SPO-233 / SYN-LUBE-100               | No. 1 / SYN-LUBE-32              | FMO-350AW / SFGO ULTRA-68                                   |
| HIGH SPEED BEARINGS (GREASE)       | EMB / POLY HP-2 / SYNX HD-2  | 1552 / POLY HP-2 /<br>SYNXTREME HD-2 | MAG-1 / GR-132 / SYN-1601        | FGL-1 / SYNXTREME FG-2                                      |
| LOW SPEED BEARINGS (OIL)           | SPO-244 / SYN-LUBE-150   | SPO-255 / SYN-LUBE-220               | SPO-233 / SYN-LUBE-100           | FMO-500AW / SFGO ULTRA 100                                  |
| LOW SPEED BEARINGS (GREASE)        | 1242 / 1552 / SYN-1602   | HIGH TEMP / 1552 / SYNXTREME<br>HD-2 | MAG-1 / SYN-1601                 | FGL-2 / SYNXTREME FG-2                                      |
| WHEEL BEARINGS (GREASE)            | 1552 / SYNXTREME HD-2  | 1552 / SYNXTREME HD-2                | 1552 / SYNXTREME HD-2            | FGL-2 / SYNXTREME FG-2                                      |
| SLIDES / CAMS                      | 1241 / 1242 / SYN-1602   | 1444 / SYNXTREME HD-2                | MAG-1 / SYN-1601                 | FGL-2 / SYNXTREME FG-2                                      |
| MIST SYSTEMS                       | Mist Oil / SYN-LUBE-100  | Mist Oil / SYN-LUBE-100              | Rock Drill Oil 10R / SYN-LUBE-32 | FMO-350AW / SFGO ULTRA-68                                   |
| WIRE ROPE / CABLES / CHAINS        | Chain & Cable Fluid  | SPO-288                              | Chain & Cable Fluid              | FMO-350AW / SFGO ULTRA-7                                    |
| RUST / CORROSION PREVENTION        | Chain & Cable FI / SFGO ULTRA-7  | Chain & Cable FI / SFGO ULTRA-7      | Chain & Cable FI / SFGO ULTRA-7  | FMO-350AW / SFGO ULTRA-7                                    |
| ENGINE REBUILDING                  | 105  | 105                                  | 105                              | -   |
| MOLY GREASE (MOS)                  | 3000 / SYN-3002  | 3000 / SYN-3002                      | 3000W / SYN-3002                 | -   |
| REFRIGERATION COMPRESSORS          | 68N OR 68P Refrigeration Compressor Oil - Consult Data Sheet 5-23 and 5-23A for details. |                                      |                                  | RCO-68  |

# NOTES

## Oil Viscosity Classification Comparisons



LUBRICANTS & CHEMICALS

## NLGI GREASE CLASSIFICATIONS

| NLGI NO. | DESCRIPTION | WORKED PENETRATION ASTM @ 77°F / 25°C |
|----------|-------------|---------------------------------------|
| 000      | SEMI-FLUID  | 445 - 475                             |
| 00       | SEMI-FLUID  | 400 - 430                             |
| 0        | VERY-SOFT   | 355 - 385                             |
| 1        | SOFT        | 310 - 340                             |
| 2        | MEDIUM SOFT | 265 - 295                             |
| 3        | MEDIUM      | 220 - 250                             |
| 4        | HARD        | 175 - 205                             |
| 5-6      | VERY HARD   | 85 - 160                              |

# HYDRAULIC FLUIDS AND TRACTOR HYDRAULIC FLUIDS

## HYDRAULIC FLUIDS

Xtreme® True-Flo Anti Wear Hydraulic Oils are economical, general purpose fluids blended with anti-wear additives plus rust, oxidation, and foam inhibitors for use in industrial hydraulic systems and for hydraulic only systems in farm, logging, and construction equipment where hydraulic systems are separate from transmissions, wet clutches, and brakes. An OEM approved additive system is employed to impart maximum performance in hydraulic system applications.

| Part #   | Package Size | Description | SAE No. |
|----------|--------------|-------------|---------|
| CHFAW325 | 5 GAL. PAIL  | AW 32       | 10W     |
| CHFAW465 | 5 GAL. PAIL  | AW 46       | 20W     |



## TRACTOR HYDRAULIC FLUIDS

Xtreme® Pure-Flo and Premium Heavy Duty Tractor Hydraulic Fluids are universal hydraulic and transmission fluids for tractors, construction, and logging equipment where a single fluid services the transmission, wet clutch, wet brake, power steering, and final drives for two wheel and four wheel drive equipment. The Pure-Flo Tractor Hydraulic Fluid is a straight SAE 20W product which is more suited to warmer climates. The Xtreme Premium Heavy Duty Tractor Hydraulic Fluid is a SAE 10W-30 product which suits it for cold weather while maintaining full viscosity at operating temperatures.

| Part # | Package Size | Description |
|--------|--------------|-------------|
| CTHF5  | 5 GAL. PAIL  | PURE-FLO    |



| Part # | Package Size | Description        | Case Qty |
|--------|--------------|--------------------|----------|
| CTHF   | 1 GAL. JUG   | PREMIUM HEAVY DUTY | 4        |
| CTHF2  | 2 GAL. JUG   | PREMIUM HEAVY DUTY | 3        |
| CTHF5  | 5 GAL. PAIL  | PREMIUM HEAVY DUTY | -        |



LUBRICANTS & CHEMICALS

# GEAR OILS

Xtreme® GL-4 Gear Lubricants are blends of highly refined base stocks, extreme pressure (EP) additives, and rust, foam, and oxidation inhibitors. They are suitable for use in most automotive and industrial gearboxes and manual transmissions where GL-4 EP gear oils are recommended. They are excellent heat transfer fluids, are non-foaming and compatible with all brass and bronze bushings. They are not recommended for use in automotive and heavy duty differentials using offset spiral bevel gear sets.

| Part #    | Package Size | Description |
|-----------|--------------|-------------|
| CGLEP905  | 5 GAL. PAILS | EP 90       |
| CGLEP1405 | 5 GAL. PAIL  | EP 140      |

Xtreme® Hypoid GL-5 Limited Slip Gear Lubricants are premium quality gear oils for transmissions and final drives. They meet the toughest industry specifications for automotive extreme pressure (EP) gear lubricants in both the automotive and heavy duty differentials and manual transmissions. They are designed for EP offset spiral bevel and hypoid gear sets (ring and pinion gears). They are fully treated for use in high performance and heavy duty limited slip differentials.

| Part #    | Package Size | Description | Case Quantity |
|-----------|--------------|-------------|---------------|
| CGL80W90Q | 1 QT. BOTTLE | 80W-90      | 12            |
| CGL80W90G | 1 GAL. JUG   | 80W-90      | 4             |
| CGL80W905 | 5 GAL PAIL   | 80W-90      | -             |

| Part #     | Package Size | Description | Case Quantity |
|------------|--------------|-------------|---------------|
| CGL85W140Q | 1 QT. BOTTLE | 85W-140     | 12            |
| CGL85W140G | 1 GAL. JUG   | 85W-140     | 4             |



# SYNGARD™ SYNTHETIC GEAR OILS

Syngard™ Synthetic Gear Lubricants MT-1 are premium quality gear oils for transmissions and final drives. They meet or exceed the highest industry specifications for automotive and heavy duty gear oils. They are designed for extreme pressure use in heavy duty trucks, rear wheel drive trucks and automobiles, shaft drive motorcycles, and all types of farm, logging, and construction equipment where GL-5 heavy duty gear oils are recommended. They are fully treated for use in automotive, heavy duty synchro-mesh, and limited slip axles. They are suitable for extended drain intervals according to the manufacturers recommendation.



| Part #      | Package Size | Description | Case Quantity |
|-------------|--------------|-------------|---------------|
| CSGL75W90Q  | 1 QT. BOTTLE | 75W-90      | 12            |
| CSGL75W905  | 5 GAL. PAIL  | 75W-90      | -             |
| CSGL75W9055 | 55 GAL. DRUM | 75W-90      | -             |
| CSGL75W140Q | 1 QT. BOTTLE | 75W-140     | 12            |
| CSGL75W1405 | 5 GAL. PAIL  | 75W-140     | -             |

## LUCAS BRAND

Lucas Synthetic Gear Oils are non-foaming, super slick, and long lasting. They are especially designed for heavy duty, high performance, and high temperature applications.

| Part #      | Package Size | Description | Case Quantity |
|-------------|--------------|-------------|---------------|
| CGL75W90SL  | 1 QT. BOTTLE | 75W-90      | 12            |
| CGL75W90SLG | 1 GAL. JUG   | 75W-90      | 4             |

Syngard™ Full Synthetic Heavy Duty SAE 50 Transmission Fluid is designed for use in manual and automatic transmissions where non-EP oils are specified. Suitable for extended drain intervals and for oil lubricated wheel bearings on heavy duty trucks and trailers.



| Part #    | Package Size | Description |
|-----------|--------------|-------------|
| CSTFHD505 | 5 GAL. PAIL  | SAE 50      |

Lubriplate Syn-Lube series are multi purpose polyalphaolefin based synthetic fluids. They are zinc free and formulated with state of the art additives. They provide outstanding performance over extended drain intervals. They are recommended for gearboxes, bearings, chains, and recirculating systems.



| Part #     | Package Size | Description  | Case Quantity |
|------------|--------------|--------------|---------------|
| CL0974-057 | 1 GAL. JUG   | SYN LUBE 150 | 4             |



# ENGINE OILS

Xtreme® Non-Detergent Motor Oils are manufactured from virgin base oils and fortified with anti foam additives. They are for use in older vehicles where an economical lubricant is more important than long term protection.

| Part #   | Package Size | Description | Case Quantity |
|----------|--------------|-------------|---------------|
| CMOND10W | 1 QT. BOTTLE | ND 10       | 12            |
| CMOND20W | 1 QT. BOTTLE | ND 20       | 12            |
| CMOND30W | 1 QT. BOTTLE | ND 30       | 12            |

Xtreme® Synthetic Blend Gasoline Engine Oils are designed to give the ultimate in engine protection for cars, SUV's, and light trucks. They are certified for extended drain intervals according to the manufacturers recommendations. They are API approved and licensed.

| Part #  | Package Size | Description | API Service | Case Quantity |
|---------|--------------|-------------|-------------|---------------|
| CMO5W20 | 1 QT. BOTTLE | 5W-20       | SN          | 12            |
| CMO5W30 | 1 QT. BOTTLE | 5W-30       | SN          | 12            |

Xtreme® High Performance Engine Oils are a versatile, premium quality crank case oil. They use state of the art base oils and additives.

| Part #   | Package Size | Description | API Service | Case Quantity |
|----------|--------------|-------------|-------------|---------------|
| CMOHD30W | 1 QT. BOTTLE | HD 30       | SN          | 12            |
| CMO10W30 | 1 QT. BOTTLE | 10W-30      | SN          | 12            |

Xtreme® Fleet Heavy Duty Engine Oils are a versatile, premium quality crank case oil for gasoline and diesel engines. They use state of the art additives and Group II base oils to meet current OEM and API requirements.

| Part #     | Package Size | Description | API Service | Case Quantity |
|------------|--------------|-------------|-------------|---------------|
| CMO10W305  | 5 GAL. PAIL  | 10W-30      | CI-4 PLUS   | -             |
| CMO15W40   | 1 QT. BOTTLE | 15W-40      | CI-4 PLUS   | 12            |
| CMO15W40G  | 1 GAL. JUG   | 15W-40      | CI-4 PLUS   | 4             |
| CMO15W405  | 5 GAL. PAIL  | 15W-40      | CI-4 PLUS   | -             |
| CMO15W4055 | 55 GAL. DRUM | 15W-40      | CI-4 PLUS   | -             |



# ENGINE OILS & FULL SYNTHETIC ENGINE OILS

## ENGINE OILS

### LUCAS BRAND

| Part #     | Package Size | Description | API Service | Case Quantity |
|------------|--------------|-------------|-------------|---------------|
| CMO15W40GL | 1 GAL. JUG   | 15W-40      | CI-4        | 4             |

Syngard™ Synthetic Blend Fleet Engine Oils are formulated using state of the art additives with premium synthetic and conventional base oils. They are approved for use with ultra low sulfur diesel fuels, engines equipped with exhaust gas recirculation and diesel particulate filters. They are also approved for use in Caterpillar® engines using ACERT® technology. They offer a significant improvement over former CI-4 Plus oils.

| Part #      | Package Size | Description | API Service | Case Quantity |
|-------------|--------------|-------------|-------------|---------------|
| CSMO15W40   | 1 QT. BOTTLE | 15W-40      | CJ-4        | 12            |
| CSMO15W405  | 5 GAL. PAIL  | 15W-40      | CJ-4        | -             |
| CSMO15W4055 | 55 GAL. DRUM | 15W-40      | CJ-4        | -             |



## FULL SYNTHETIC ENGINE OILS

Syngard™ Full Synthetic Engine Oils are formulated using state of the art additives with fully synthetic base oils. They are fully certified for extended drain intervals according to the engine manufacturers recommendations.

| Part #   | Package Size | Description | API Service | Case Quantity |
|----------|--------------|-------------|-------------|---------------|
| CSMO0W20 | 1 QT. BOTTLE | 0W-20       | SN          | 6             |
| CSMO5W30 | 1 QT. BOTTLE | 5W-30       | SN          | 6             |
| CSMO5W40 | 1 GAL. JUG   | 5W-40       | CK-4        | 4             |



LUBRICANTS & CHEMICALS

# ANTIFREEZE & AUTOMATIC TRANSMISSION FLUID

## ANTIFREEZE

### CONVENTIONAL FULL STRENGTH

Conventional Antifreeze is made with ethylene glycol. It offers protection against freeze-ups, boil-overs, and corrosion.

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CA     | 1 GAL. JUG   | GREEN | 6             |
| CA55   | 55 GAL. DRUM | GREEN | -             |



### CONVENTIONAL 50/50

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CA50   | 1 GAL. JUG   | GREEN | 6             |

### LONG LIFE FULL STRENGTH

Long Life Antifreeze is made with ethylene glycol. It offers protection for 150,000 miles or 5 years and is compatible with all antifreeze including Dex-Cool®.

| Part # | Package Size | Color  | Case Quantity |
|--------|--------------|--------|---------------|
| CALL   | 1 GAL. JUG   | ORANGE | 6             |

### GLOBAL AUTOMOTIVE FULL STRENGTH

Global Antifreeze is made with ethylene glycol. It mixes with any color antifreeze and works with all makes and models of automobiles and light duty trucks. It also offers extended protection for 150,000 miles or 5 years.

| Part # | Package Size | Color           | Case Quantity |
|--------|--------------|-----------------|---------------|
| CAG    | 1 GAL. JUG   | GOLD/PALE GREEN | 6             |



## AUTOMATIC TRANSMISSION FLUID

Xtreme Multi-purpose ATF Dexron III/Mercon is a premium, multi-functional automatic transmission fluid designed to service most General Motors, Ford Motor Company and many Chrysler Corporation vehicles. This product may be used wherever General Motors Dexron®, Dexron® II, Dexron® IIE, Dexron® III and Ford Mercon is recommended.

| Part #  | Package Size | Color             | Case Quantity |
|---------|--------------|-------------------|---------------|
| CATFD3  | 1 QT. BOTTLE | DEXRON III/MERCON | 12            |
| CATFD35 | 5 GAL. PAIL  | DEXRON III/MERCON | -             |



Syngard Full Synthetic Heavy Duty Automatic Transmission Fluid is a full PAO synthetic transmission fluid for use where Allison TES 295, TES 389, C-4, or C-3 fluids are required. It services many heavy duty and dual rear wheel drive pickup trucks, commercial delivery vehicles, emergency vehicles, and other vehicles equipped with Allison heavy duty automatic transmissions.

| Part #   | Package Size | Description                |
|----------|--------------|----------------------------|
| CSATFHD5 | 5 GAL. PAIL  | FULLY SYNTHETIC HEAVY DUTY |



# BRAKE FLUID & POWER STEERING FLUID

## BRAKE FLUID

Brake Fluid comes in DOT 3/4 which is glycol based and DOT 5 which is silicone based. Each has its advantages and disadvantages so recommendations are based on application. DOT 3/4 is the much more widely used brake fluid.

| Part # | Package Size | Color | Case Quantity |
|--------|--------------|-------|---------------|
| CBF12  | 12OZ. CAN    | DOT 3 | 12            |
| CBFQ   | 1 QT. BOTTLE | DOT 3 | 12            |
| CBFG   | 1 GAL. JUG   | DOT 3 | 6             |
| CBF512 | 12OZ. CAN    | DOT 5 | 12            |



## POWER STEERING FLUID

| Part # | Package Size | Case Quantity |
|--------|--------------|---------------|
| CPSFQ  | 1 QT. BOTTLE | 12            |



LUBRICANTS & CHEMICALS

# MULTI-PURPOSE GREASE

Lubriplate 1200-2 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium type grease for general purpose use. Minimum purchase for grease tubes is 1 carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0102-006 | 1 GAL. CAN         | 1200-2      | 6             |
| CL0102-035 | 5 GAL. PAIL        | 1200-2      | -             |
| CL0102-098 | 14.5 OZ. CARTRIDGE | 1200-2      | 40            |



Lubriplate 1242 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium type grease for general purpose use. It is very similar to the 1200-2 but is just slightly more tacky. Minimum purchase for grease tubes is 1 carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0106-098 | 14.5 OZ. CARTRIDGE | 1242        | 40            |



Lubriplate 1552 Grease is a white colored NLGI #2 grease. It is a premium quality, lithium complex grease for use as a wheel bearing grease or a premium multi purpose grease. Minimum purchase for grease tubes is 1 carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0166-098 | 14.5 OZ. CARTRIDGE | 1552        | 40            |



Lubriplate Wheel Bearing Grease is a white colored NLGI #2 grease. It is a premium quality, lithium complex wheel bearing grease.

| Part #     | Package Size | Description   | Case Quantity |
|------------|--------------|---------------|---------------|
| CL0220-004 | 1LB. CAN     | WHEEL BEARING | 12            |
| CL0220-006 | 6LB. CAN     | WHEEL BEARING | 6             |



Gard High Temp Multi-Purpose Grease is a red colored NLGI #2 grease. It is an economical, lithium complex wheel bearing grease or for general purpose use. It can be used in temperatures ranging from -40° F to 350° F. Minimum purchase for grease tubes is 1 carton of 10 tubes.

| Part # | Package Size       | Description             | Case Quantity |
|--------|--------------------|-------------------------|---------------|
| CLCG   | 14.5 OZ. CARTRIDGE | HIGH TEMP MULTI-PURPOSE | 40            |

Lubriplate 3000 Grease is a black colored NLGI #2 tacky, moly lithium type grease. It provides a durable, tenacious film to protect against water and corrosion. It is used in heavy duty construction and mining equipment. Minimum purchase for the grease tubes is one carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0108-035 | 5 GAL. PAIL        | 3000        | -             |
| CL0108-098 | 14.5 OZ. CARTRIDGE | 3000        | 40            |



Lucas Red n Tacky Grease is a red colored NLGI #2 grease. It is very tacky and especially good for use in pins and bushings and places where a lot of staying power is needed. Minimum purchase is one carton of 10 tubes.

| Part # | Package Size       | Description | Case Quantity |
|--------|--------------------|-------------|---------------|
| CRNTG  | 14.5 OZ. CARTRIDGE | RED N TACKY | 60            |



# MULTI-PURPOSE GREASE & GREASES FOR SPECIAL APPLICATIONS

## MULTI-PURPOSE GREASE

Lucas X-Tra Heavy Duty Grease is a green colored NLGI #2 grease. It is virtually wash out proof, withstands high temperatures, and stays soft in very low temperatures. Minimum purchase is one carton of 10 tubes.

| Part # | Package Size       | Description     | Case Quantity |
|--------|--------------------|-----------------|---------------|
| CHDG   | 14.5 OZ. CARTRIDGE | XTRA HEAVY DUTY | 10            |



Lubriplate 630 Series Grease is a white colored lithium based grease. 630-AAA is an NLGI #0 and 630-AA is an NLGI #1. They are excellent multi-purpose greases used in Maytag wash machine repair and other applications.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0067-035 | 5 GAL. PAIL        | 630-AA      | -             |
| CL0067-092 | 100Z. SQUEEZE TUBE | 630-AA      | 12            |
| CL0068-035 | 5 GAL. PAIL        | 630-AAA     | -             |



Lubriplate 930-2 Grease is a white colored NLGI #2 bentone type grease. It is formulated for higher temperatures working well up to 375° F and for short intervals up to 400° F. Minimum purchase for the grease tubes is one carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0100-006 | 1 GAL. CAN         | 930-2       | 6             |
| CL0100-035 | 5 GAL. PAIL        | 930-2       | -             |
| CL0100-098 | 14.5 OZ. CARTRIDGE | 930-2       | 40            |



## GREASES FOR SPECIAL APPLICATIONS

Lubriplate MAG-00 Grease is an NLGI #00 lithium polymer type grease. It is a pourable grease and can be used in leaking gear boxes.

| Part #     | Package Size | Description |
|------------|--------------|-------------|
| CL0186-035 | 5 GAL. PAIL  | MAG-00      |



Lubriplate High Temp Grease is a white colored NLGI #2 bentone type grease. It is a multi-purpose grease which is workable from 40° F to 500° F with frequent lube intervals. Minimum purchase is one carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0161-098 | 14.5 OZ. CARTRIDGE | HIGH TEMP   | 40            |



Lubriplate EMB Grease is a white colored NLGI #2 lithium polymer type grease. It was developed specifically for electric motor bearings, fans, and other high speed bearings. Minimum purchase is one carton of 10 tubes.

| Part #     | Package Size       | Description            | Case Quantity |
|------------|--------------------|------------------------|---------------|
| CL0148-098 | 14.5 OZ. CARTRIDGE | ELECTRIC MOTOR BEARING | 40            |



Lubriplate FGL-2 Grease is a white colored NLGI #2 aluminum complex type grease. It is designed for use in the food and beverage processing industry. It is a class H-1 grease and is USDA authorized for lubricants with incidental contact with edible product. Minimum purchase is one carton of 10 tubes.

| Part #     | Package Size       | Description | Case Quantity |
|------------|--------------------|-------------|---------------|
| CL0232-098 | 14.5 OZ. CARTRIDGE | FOOD GRADE  | 40            |



LUBRICANTS & CHEMICALS

# GREASES FOR SPECIAL APPLICATIONS & SYNTHETIC GREASE

Lubriplate #105 Motor Assembly Grease is a white colored light bodied grease. It is designed especially for motor assembly. It provides lubrication during the initial start up before the motor oil has circulated and protects freshly machined engine parts.

| Part #     | Package Size       | Description    | Case Quantity |
|------------|--------------------|----------------|---------------|
| CL0034-094 | 100Z. SQUEEZE TUBE | MOTOR ASSEMBLY | 12            |

Lubriplate Spray Lube A is a white colored medium density lithium based grease. It sprays like a fluid, then congeals to a grease. It is excellent for latches, locks, hinges, battery terminals, and other hardware.

| Part #     | Package Size    | Description  | Case Quantity |
|------------|-----------------|--------------|---------------|
| CL0034-063 | 110Z. SPRAY CAN | SPRAY LUBE A | 12            |

Lubriplate Gear Shield Extra Heavy is a black colored NLGI #2.5 lithium based grease. It is for all types of open gears and especially for adverse conditions where gears are exposed to abrasive conditions.

| Part #     | Package Size    | Description             | Case Quantity |
|------------|-----------------|-------------------------|---------------|
| CL0152-063 | 110Z. SPRAY CAN | GEAR SHIELD EXTRA HEAVY | 12            |

Permatex Dielectric Tune-Up Grease protects electrical connections and wiring from salt, dirt, and corrosion. Prevents voltage leakage, spark plugs from fusing to boots, and is required for modern high energy ignition systems.

| Part #  | Package Size         | Description        | Case Quantity |
|---------|----------------------|--------------------|---------------|
| CP81150 | 0.330Z. SQUEEZE TUBE | DIELECTRIC TUNE-UP | 6             |



LUBRICANTS & CHEMICALS

## SYNTHETIC GREASE

Lubriplate Synxtreme HD-2 is a NLGI #2 calcium sulfonate complex grease. It is a high performance, extreme duty, multi-purpose, synthetic grease which provides unsurpassed anti-wear and extreme pressure protection. It is highly water resistant and works well over a wide range of temperature extremes and other adverse conditions.

| Part #     | Package Size    | Description    |
|------------|-----------------|----------------|
| CL0401-039 | 120LB. 1/4 DRUM | SYNXTREME HD-2 |

We stock the 125cc Flex Lubricator with Lubriplate Synxtreme HD-1/220 Grease. Lubriplate Synxtreme HD-1/220 is a NLGI #1 calcium sulfonate complex grease. It is a high performance, extreme duty, multi-purpose, synthetic grease which provides unsurpassed anti-wear and extreme pressure protection. It is highly water resistant and works well over a wide range of temperature extremes and other adverse conditions. Other types of lubricators and other types of lubricants are available in 5-6 days.

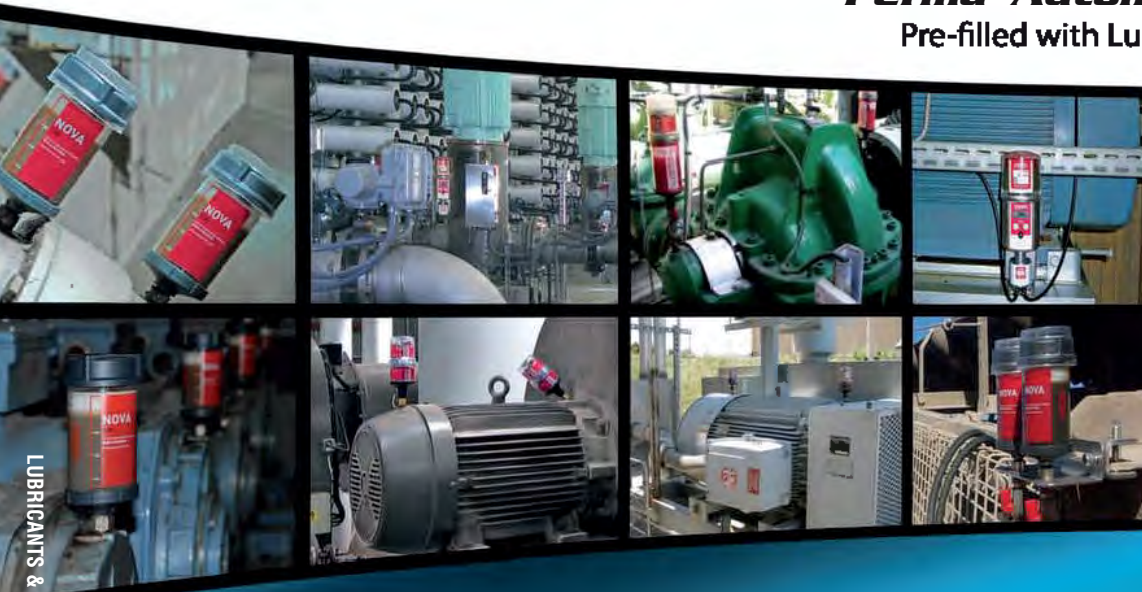
| Part #     | Package Size           | Description                          |
|------------|------------------------|--------------------------------------|
| CL0313-231 | 125CC PERMA LUBRICATOR | FLEX LUBRICATOR W/SYNXTREME HD-1/220 |

The Flex Lubricator comes with a 1/4 NPT. We stock the following adapters to adapt them to the threads in your bearing. Many other sizes and varieties of adapters are available.

| Part #     | Description                   |
|------------|-------------------------------|
| CLB100-000 | 1/4-18 FNPT X 1/8-27 MNPT     |
| CLB101-000 | 1/4-18 FNPT X 1/4-28 M        |
| CLB200-000 | 1/4-18 FNPT X 1/8-27 MNPT 45° |



**Perma® Automatic Lubricators**  
Pre-filled with Lubriplate® Greases and Oils.



LUBRICANTS & CHEMICALS

# Around The Clock Bearing Protection

Clean, Safe, Reliable and Consistent Machinery Lubrication.



Perma automatic lubricators provide clean, safe, reliable and consistent machinery lubrication every day around the clock. They are fully programmable and deliver the right amount of lubricant consistently, day after day, week after week. A wide range of types and sizes are available to meet your exact needs. All come ready to install pre-filled, available with a wide variety of Lubriplate Quality Greases and Oils. They save time, lower maintenance costs and improve workplace safety.

**Prevents Breakdowns** Provides Consistent Lubrication To Critical Machine Components.

**Fully Programmable** 1-12 Month Output Rates - For Precise Machine Lubrication Automatically.

**Cost Effective** Reduces Maintenance Time and Associated Downtime, Lowers Labor Costs, Improves Workplace Safety.



Backed By:



- Plant Surveys
- Tech Support
- Lubrication Software
- Machinery Tags
- Training
- Follow-Up Oil Analysis

## Lubriplate® Lubricants

Newark, NJ 07105 / Toledo, OH 43605  
1-800-733-4755 / E-Mail: [LubeXpert@lubriplate.com](mailto:LubeXpert@lubriplate.com)  
To visit us on Facebook, Twitter or LinkedIn, go to [www.lubriplate.com](http://www.lubriplate.com) and click on the desired icon.





# Perma Automatic Lubricators Pre-Filled with Lubriplate Lubricants

Perma automatic lubricators provide clean, safe, reliable and consistent machinery lubrication around the clock. They are fully programmable and deliver the right amount of lubricant consistently, day after day, week after week. A wide range of types and sizes are available to meet your exact needs. All come pre-filled, ready to install. They save time and labor costs.

**Only select products are available in Perma Lubricators. Check the bottom of chart for lubricant availability.**

**Part Numbers** - Add the desired Perma Package Part Number Suffix listed on the chart to the end of the desired Lubriplate Product Part Number.



| PERMA MODEL        | VOLUME SIZE | OUTPUT RATE                            | PRESSURE BUILD-UP | FEATURES / DETAILS                                      | PERMA PACKAGE PART NO. SUFFIX |
|--------------------|-------------|--|-------------------|---|-------------------------------|
| CLASSIC            | 120 cc      | 1 Month (Activator Screw)              | 65 PSI            | Metal Housing   | -101                          |
| CLASSIC            | 120 cc      | 3 Month (Activator Screw)              | 65 PSI            | Metal Housing   | -103                          |
| CLASSIC            | 120 cc      | 6 Month (Activator Screw)              | 65 PSI            | Metal Housing   | -106                          |
| CLASSIC            | 120 cc      | 12 Month (Activator Screw)             | 65 PSI            | Metal Housing   | -112                          |
| FUTURA             | 120 cc      | 1 Month (Activator Screw)              | 65 PSI            | Transparent Plastic Housing                             | -201                          |
| FUTURA             | 120 cc      | 3 Month (Activator Screw)              | 65 PSI            | Transparent Plastic Housing                             | -203                          |
| FUTURA             | 120 cc      | 6 Month (Activator Screw)              | 65 PSI            | Transparent Plastic Housing                             | -206                          |
| FUTURA             | 120 cc      | 12 Month (Activator Screw)             | 65 PSI            | Transparent Plastic Housing                             | -212                          |
| FLEX               | 60 cc       | 1 to 12 Mo. Programmable (Dial Select) | 73 PSI            | Transparent Plastic Housing - Control Dial on Top       | -230                          |
| FLEX               | 125 cc      | 1 to 12 Mo. Programmable (Dial Select) | 73 PSI            | Transparent Plastic Housing - Control Dial on Top       | -231                          |
| NOVA               | 130 cc      | Programmable Electronic (Push Button)  | 90 PSI            | LCD Display, Integrated Temperature Compensation        | -130                          |
| NOVA LC REFILL KIT | 130 cc      | -                                      | -                 | Refill Kit - Includes Pre-Filled NOVA LC Unit           | -131                          |
| STAR VARIO G2      | 60 cc       | 1, 3, 6, 12 Mo. Programmable           | 75 PSI            | LCD Display, Push Button Settings, Battery Operated     | -460                          |
| STAR VARIO G2      | 120 cc      | 1, 3, 6, 12 Mo. Programmable           | 75 PSI            | LCD Display, Push Button Settings, Battery Operated     | -412                          |
| STAR VARIO G2      | 250 cc      | 1, 3, 6, 12 Mo. Programmable           | 75 PSI            | LCD Display, Push Button Settings, Battery Operated     | -425                          |
| STAR CONTROL       | 60 cc       | Based on 100 Machine Hours             | 75 PSI            | PLC Controlled / 12-30 Volts DC                         | -560                          |
| STAR CONTROL       | 120 cc      | Based on 100 Machine Hours             | 75 PSI            | PLC Controlled / 12-30 Volts DC                         | -512                          |
| STAR CONTROL       | 250 cc      | Based on 100 Machine Hours             | 75 PSI            | PLC Controlled / 12-30 Volts DC                         | -525                          |
| STAR LC REFILL KIT | 60 cc       | -                                      | -                 | Refill Kit - Includes Pre-Filled LC Unit - Battery Pack | -660                          |
| STAR LC REFILL KIT | 120 cc      | -                                      | -                 | Refill Kit - Includes Pre-Filled LC Unit - Battery Pack | -612                          |
| STAR LC REFILL KIT | 250 cc      | -                                      | -                 | Refill Kit - Includes Pre-Filled LC Unit - Battery Pack | -625                          |
| PRO                | 250 cc      | 1 Day to 24 Mo. Programmable           | 360 PSI           | Battery Operated  | -725                          |
| PRO                | 500 cc      | 1 Day to 24 Mo. Programmable           | 360 PSI           | Battery Operated  | -750                          |
| PRO MP-6           | 250 cc      | 1 Day to 24 Mo. Programmable           | 360 PSI           | Battery Operated, 1-6 Lubrication Points                | -726                          |
| PRO MP-6           | 500 cc      | 1 Day to 24 Mo. Programmable           | 360 PSI           | Battery Operated, 1-6 Lubrication Points                | -756                          |
| PRO C              | 250 cc      | Based on 100 Machine Hours             | 360 PSI           | PLC Controlled / 12-30 Volts DC                         | -825                          |
| PRO C              | 500 cc      | Based on 100 Machine Hours             | 360 PSI           | PLC Controlled / 12-30 Volts DC                         | -850                          |
| PRO C MP-6         | 250 cc      | Based on 100 Machine Hours             | 360 PSI           | PLC Controlled / 12-30 Volts DC, 1-6 Lubrication Points | -826                          |
| PRO C MP-6         | 500 cc      | Based on 100 Machine Hours             | 360 PSI           | PLC Controlled / 12-30 Volts DC, 1-6 Lubrication Points | -856                          |
| PRO LV REFILL KIT  | 250 cc      | -                                      | -                 | Refill Kit - Includes Pre-Filled LV Unit - Battery Pack | -925                          |
| PRO LV REFILL KIT  | 500 cc      | -                                      | -                 | Refill Kit - Includes Pre-Filled LV Unit - Battery Pack | -950                          |

## LUBRIPLATE PRODUCTS AVAILABLE IN PERMA LUBRICATORS

|                               |   |
|-------------------------------|---|
| PETROLEUM-BASED GREASES       | No. 176 Pt. No. L0054-630-AA Pt. No. L0067-630-AAA Pt. No. L0068-730-0 Pt. No. L0083-730-1 Pt. No. L0084-730-2 Pt. No. L0085-930-AA Pt. No. L0096-1200-2 Pt. No. L0102-, 1240 Pt. No. L0105-, 1241 Pt. No. L0104-, 1242 Pt. No. L0106-, 1444 Pt. No. L0227-, 1551 Pt. No. L0165-, 1552 Pt. No. L0166-3000 Pt. No. L0108-, EMB Pt. No. L0148-, HIGH TEMP Pt. No. L0161-, MAG-00 Pt. No. L0186-, MAG-1 Pt. No. L0189-, X-357 Pt. No. L0149- |
| SYNTHETIC GREASES             | POLY HP-2 Pt. No. L0191-SYN-1600 Pt. No. L0300-, SYN-1601 Pt. No. L0301-, SYN-1602 Pt. No. L0302-, SYN-3001 Pt. No. L0315-, SYN-EMB Pt. No. L0335-SYNXTREME HD-1 Pt. No. L0402-, SYNXTREME HD-2 Pt. No. L0401-, SYNXTREME HD-2/220 Pt. No. L0312-   |
| OILS**                        | CHAIN & CABLE FLUID Pt. No. L0135-, CHAIN & CABLE HEAVY Pt. No. L0136-, SPO-222 Pt. No. L0242-, SPO-233 Pt. No. L0243-,   |
| FOOD GRADE GREASES NSF H-1    | CLEARPLEX-2 Pt. No. L0351-FGL-0 Pt. No. L0230-FGL-1 Pt. No. L0231-FGL-2 Pt. No. L0232-FML-1 Pt. No. L0144-FML-2 Pt. No. L0145-PURE TAC Pt. No. L0236-   |
| SYNTHETIC FG GREASES NSF H-1  | SFL-00 Pt. No. L0195-ŞFL-0 Pt. No. L0196-ŞFL-1 Pt. No. L0197-SYNXTREME FG-0 Pt. No. L0307-SYNXTREME FG-1 Pt. No. L0306-SYNXTREME FG-2 Pt. No. L0305-  |
| FOOD GRADE OILS** NSF H-1     | FMO-85-AW Pt. No. L0880-, FMO-200-AW Pt. No. L0881-, FMO-350-AW Pt. No. L0882-  |
| SYNTHETIC FG FLUIDS** NSF H-1 | SFGO ULTRA 32 Pt. No. L0915-, SFGO ULTRA 220 Pt. No. L0985-, SYN-H1-220 Pt. No. L0779-  |

\*\*Lubriplate Oils and Fluids are not available in Perma PRO Series Lubricators.

# GREASE GUNS AND ACCESSORIES

| Part #   | Description                      |
|----------|----------------------------------|
| EQGGLA   | LEVER ACTION GREASE GUN          |
| EQGGPG   | PISTOL GRIP GREASE GUN           |
| EQGGW    | 12" FLEXIBLE GREASE GUN WHIP     |
| EQGGW18  | 18" FLEXIBLE GREASE GUN WHIP     |
| EQGGCP   | PREMIUM GREASE GUN COUPLER (TIP) |
| EQGGCLNL | LOCK-N-LUBE GREASE GUN COUPLER   |



Lock-n-Lube Grease Gun Couplers have the following advantages:

- Will not leak once locked on.
- Hands-free, does not release under pressure
- Rated up to 10,000 PSI.
- Will not leak once locked on.
- 1/8" NPT thread. Compatible with all grease guns.
- Works on all Zerk fittings, SAE and metric.
- Comes with free replacement seal and jaws. Fully rebuildable.
- NEW: easily releases from clogged grease fittings, even under pressure.

# METAL WORKING FLUIDS

Lubriplate Metal Working Fluid is a specially developed product for metalworking operations. It is excellent for drilling, tapping, sawing, and grinding. It comes in an aerosol can for easy application.



| Part #     | Package Size | Description         | Case Quantity |
|------------|--------------|---------------------|---------------|
| CL0185-063 | 12OZ. CAN    | METAL WORKING FLUID | 12            |

Lubriplate No. 405 Dark Cutting Oil is a heavy-duty cutting oil and is recommended for difficult machining operations. Excellent for high carbon steels, alloys, and stainless steels but not recommended for brass, bronze, copper, or aluminum.



| Part #     | Package Size | Description | Case Quantity |
|------------|--------------|-------------|---------------|
| CL0587-057 | 1 GAL. JUG   | #405        | 4             |
| CL0587-060 | 5 GAL. PAIL  | #405        | -             |

Viking Ultra Lube is formulated to cling to a surface better than most cutting and drilling fluids.

| Part # | Package Size  | Description | Case Quantity |
|--------|---------------|-------------|---------------|
| CUL    | 4 OZ BOTTLE   | ULTRA LUBE  | 12            |
| CUL16  | 16 OZ. BOTTLE | ULTRA LUBE  | 12            |

## WATER SOLUBLE

Lubriplate Cut-n-Cool is a heavy duty, water soluble cutting oil fortified with sulfur and chlorine which delivers substantially longer tool life, improved finish, and more accurate cuts. It may stain brass, bronze, and copper if not cleaned off work shortly after use.



| Part #     | Package Size | Description | Case Quantity |
|------------|--------------|-------------|---------------|
| CL0514-057 | 1 GAL. JUG   | CUT-N-COOL  | 4             |
| CL0514-060 | 5 GAL. PAIL  | CUT-N-COOL  | -             |

## SUGGESTED DILUTION RATIOS FOR CUT-N-COOL

| Operation                            | Starting Dilution |
|--------------------------------------|-------------------|
| CENTERLESS, ID, OD, SURFACE GRINDING | 33 TO 1           |
| MILLING, DRILLING, TURNING           | 20 TO 1           |
| TAPPING, REAMING, SAWING             | 10 TO 1           |

# METAL WORKING FLUIDS & COMPOUNDS

## WATER SOLUBLE

Fiske's HP-76 is a synthetic, water soluble fluid recommended for grinding and machining. It is recommended for ferrous, non-ferrous, and exotic metals. It is known for its low foaming properties.

| Part #     | Package Size | Description | Case Quantity |
|------------|--------------|-------------|---------------|
| CF0534-056 | 1 GAL. JUG   | HP-76       | 4             |

## SUGGESTED DILUTION RATIOS FOR HP-76

| Operation                                 | Starting Dilution |
|---|-------------------|
| TURNING, FACING, SHAPING                  | 15 TO 1           |
| MILLING, PLANING, REAMING, BORING, SAWING | 10 TO 1           |
| DRILLING                                  | 20 TO 1           |
| TAPPING, BROACHING (LIGHT), STAMPING      | 5 TO 1            |
| GRINDING                                  | 50 TO 1           |

## GRINDING COMPOUND

Permatex Valve Grinding Compound is an aid to valve grinding and seating operations to remove burrs, surface defects, carbon, gum, and corrosion. It can be used for lapping and grinding chromium. It mixes with water to form an easy-to-use paste.

| Part #  | Package Size        | Description             | Case Quantity |
|---------|---------------------|-------------------------|---------------|
| CP80036 | 1.5OZ. SQUEEZE TUBE | VALVE GRINDING COMPOUND | 12            |



# AIR COMPRESSOR OIL, AIR TOOL LUBRICANT, & VACUUM PUMP OIL

## AIR COMPRESSOR OIL

Lubriplate Air Compressor Oils are formulated to reduce carbon and varnish buildup. They contain fluid zinc to effectively fight friction and wear thus reducing heat and foaming.

| Part #     | Package Size | Description | SAE No. | Case Quantity |
|------------|--------------|-------------|---------|---------------|
| CL0704-057 | 1 GAL. JUG   | AC-0        | 10      | 4             |
| CL0705-057 | 1 GAL. JUG   | AC-1        | 20      | 4             |
| CL0706-057 | 1 GAL. JUG   | AC-2        | 20      | 4             |
| CL0706-054 | 1 QT. JUG    | AC-2        | 20      | 12            |
| CL0707-057 | 1 GAL. JUG   | AC-2A       | 30      | 4             |
| CL0707-054 | 1 QT. JUG    | AC-2A       | 30      | 12            |
| CL0710-057 | 1 GAL. JUG   | AC-4        | 40      | 4             |



## SYNTHETIC AIR COMPRESSOR OIL

| Part #     | Package Size | Description | SAE No. | Case Quantity |
|------------|--------------|-------------|---------|---------------|
| CL0971-057 | 1 GAL. JUG   | SYN LUBE 46 | 20      | 4             |
| CL0935-057 | 1 GAL. JUG   | SYNAC 100   | 30      | 4             |

## AIR TOOL LUBRICANT

Lubriplate Air Tool Lubricant is designed for both rotary and reciprocating types of air tools. It is proven as an excellent air line lubricant and removes gumming and sludge.

| Part #     | Package Size | Description        | Case Quantity |
|------------|--------------|--------------------|---------------|
| CL0713-054 | 1 QT. BOTTLE | AIR TOOL LUBRICANT | 12            |
| CL0713-057 | 1 GAL. JUG   | AIR TOOL LUBRICANT | 4             |
| CL0713-060 | 5 GAL. PAIL  | AIR TOOL LUBRICANT | -             |



## VACUUM PUMP OIL

Lubriplate Vacuum Pump Oil is a high performance, non-detergent mineral oil recommended for use in most rotary vane and rotary lobe vacuum pumps. It is designed to alleviate sludge, carbon deposits, and contamination problems commonly found in industrial vacuum pumps.

| Part #     | Package Size | Description     | Case Quantity |
|------------|--------------|-----------------|---------------|
| CL0945-057 | 1 GAL. JUG   | VACUUM PUMP OIL | 4             |
| CL0945-060 | 5 GAL. PAIL  | VACUUM PUMP OIL | -             |



# WAY LUBE, HYDRAULIC JACK OIL, & CHAIN AND BAR LUBE

## HYDRAULIC JACK OIL

LUBRIPLATE Hydraulic Jack Oil is a heavy duty, high pressure, anti-wear, and non-corrosive hydraulic fluid recommended for hydraulic jacks and similar applications.

| Part #     | Package Size | Description        | Case Quantity |
|------------|--------------|--------------------|---------------|
| CL0768-054 | 1 QT. JUG    | HYDRAULIC JACK OIL | 12            |

## WAY LUBE

Fiske's Way Lube 68 is a medium weight oil designed for combination machine tool way lubrication and bearing lubrication. It contains lubricity and tacky agents to improve both its anti-wear capability and adhesiveness.

| Part #     | Package Size | Description |
|------------|--------------|-------------|
| CF0570-060 | 5 GAL. PAIL  | WAY LUBE    |

## CHAIN & BAR LUBE

Xtreme Chain & Bar Lube is blended with virgin base oils only. They receive a treatment of polymer wetting and tackiness additives. All Season Chain & Bar Lube is designed to use year round.

| Part #   | Package Size | Description | Case Quantity |
|----------|--------------|-------------|---------------|
| CCBLSG   | 1 GAL. JUG   | SUMMERGRADE | 4             |
| CCBLWG   | 1 GAL. JUG   | WINTERGRADE | 4             |
| CCBLSG55 | 55 GAL. DRUM | SUMMERGRADE | -             |
| CCBLWG55 | 55 GAL. DRUM | WINTERGRADE | -             |



LUBRICANTS & CHEMICALS

# 2-CYCLE ENGINE OIL, 5TH WHEEL AND SLIDER LUBE, FOOD MACHINERY OIL & FUEL ADDITIVES

## 2-CYCLE ENGINE OIL

Syngard™ Synthetic Blend 2-Cycle Engine Oil is designed to give the ultimate in engine protection for all air cooled 2-cycle engines. It is blended using synthetic and conventional base stocks and state-of-the-art additive technology. The 6.4 oz. bottle size is convenient to mix 2.5 gallons 50 to 1 or 2 gallons 40 to 1.

| Part # | Package Size  | Description          | Case Quantity |
|--------|---------------|----------------------|---------------|
| CSCS0  | 6.4OZ. BOTTLE | 2-CYCLE OIL          | 24            |
| C0016  | 16 OZ. BOTTLE | 2-CYCLE OUTBOARD OIL | 12            |
| C0032  | 1 QT. BOTTLE  | 2-CYCLE OUTBOARD OIL | 12            |
| C00128 | 1 GAL. JUG    | 2-CYCLE OUTBOARD OIL | 4             |

## 5TH WHEEL & SLIDER LUBE

Lucas 5th Wheel & Slider Lube is a clean inexpensive alternative to grease for 5th wheels and sliders. It is an easy solution to the problem of dry 5th wheels and slider rails and it is virtually waterproof so it won't wash off of slider rails on wet roads.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| CFWL   | 16OZ. BOTTLE | 5TH WHEEL LUBE | 12            |



## FOOD MACHINERY OIL

Lubriplate FMO-350-AW is a food machinery oil. It is Class H-1 so it can be used where there is incidental contact with food.

| Part #     | Package Size | Description | Case Quantity |
|------------|--------------|-------------|---------------|
| CL0882-063 | 12OZ. CAN    | FMO-350-AW  | 12            |



## FUEL ADDITIVES

Lucas Upper Cylinder Lubricant (Fuel Treatment) is formulated for both gasoline and diesel engines. It is a blend of super slick oils and high detergents to clean and add lubricity to fuel.

| Part # | Package Size    | Description    | Case Quantity |
|--------|-----------------|----------------|---------------|
| CFT5   | 5.25 OZ. BOTTLE | FUEL TREATMENT | 24            |
| CFTQ   | 1 QT. BOTTLE    | FUEL TREATMENT | 12            |
| CFT    | 1 GAL. JUG      | FUEL TREATMENT | 4             |



STP Diesel Fuel Treatment & Injector Cleaner cleans and contains cetane improvers to boost cold start performance.

| Part # | Package Size | Description      | Case Quantity |
|--------|--------------|------------------|---------------|
| CDT    | 20OZ. BOTTLE | DIESEL TREATMENT | 6             |



Power Service Diesel Fuel Supplement is an anti-gel/winterizer intended for use in temperatures below 30° F. It prevents fuel gelling, fuel filters from plugging with wax, and boosts cetane for better cold starts.

| Part # | Package Size | Description            | Case Quantity |
|--------|--------------|------------------------|---------------|
| CDFS   | 1 QT. BOTTLE | DIESEL FUEL SUPPLEMENT | 12            |
| CDCBQ  | 1 QT. BOTTLE | DIESEL CETANE BOOST    | 12            |



# FUEL ADDITIVES & FUEL AND OIL ADDITIVES

## FUEL ADDITIVES

Howe's Diesel Treat is a diesel fuel anti-gel. It also adds lubricity and displaces water out of fuel.

| Part # | Package Size    | Description             | Case Quantity |
|--------|-----------------|-------------------------|---------------|
| CHL    | 1/2 GAL. BOTTLE | DIESEL TREAT & ANTI GEL | 6             |



Lucas Bio Medic Fuel Sterilizer is designed to control biological and organic growth in diesel fuel. It can be used to sterilize infected fuel or for preventative maintenance.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CBMFS  | 1 GAL. JUG   | FUEL STERILIZER | 4             |

Lead Substitute prevents valve seat damage in older engines which were designed for leaded gasoline.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CLS    | 12OZ. BOTTLE | LEAD SUBSTITUTE | 12            |



## FUEL & OIL ADDITIVES

Seafoam Motor Treatment is petroleum based and can be added to oil or fuel. It cleans, stabilizes fuel, controls moisture, and adds lubricity. It is safe to use with all engine components.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CMT    | 16OZ. BOTTLE | MOTOR TREATMENT | 24            |



Marvel Mystery Oil can be added to fuel or oil. When added to fuel it cleans and adds lubricity. When added to oil it breaks down deposits of carbon and sludge which prevents valve sticking and clatter.

| Part # | Package Size | Description        | Case Qty |
|--------|--------------|--------------------|----------|
| CMMOQ  | 1 QT. BOTTLE | MARVEL MYSTERY OIL | 6        |
| CMMOG  | 1 GAL. JUG   | MARVEL MYSTERY OIL | 4        |





# OIL AND TRANSMISSION ADDITIVES

## OIL ADDITIVES

Lucas Heavy Duty Oil Stabilizer is a 100% petroleum based product formulated to eliminate dry starts, reduce friction, heat, and wear in engines.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| COSQ   | 1 QT. BOTTLE | OIL STABILIZER | 12            |
| COS    | 1 GAL. JUG   | OIL STABILIZER | 4             |

Lucas Synthetic Oil Stabilizer is light enough for an import and tough enough for a semi. It is especially for equipment which requires synthetic oil or needs enhanced performance.

| Part # | Package Size | Description              | Case Quantity |
|--------|--------------|--------------------------|---------------|
| CSOSQ  | 1 QT. BOTTLE | SYNTHETIC OIL STABILIZER | 12            |



## TRANSMISSION ADDITIVES

Lubegard® ATF Protectant can be used with any ATF (except Ford type F and CVT applications) to prevent overheating, extend fluid life, reduce foaming and oxidation, and protect seals.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| CATFLR | 100Z BOTTLE  | ATF PROTECTANT | 12            |



Lubegard® Highly Friction Modified ATF Supplement eliminates the need to stock multiple highly friction modified ATFs. Just use a standard ATF and add Lubegard® HFM ATF Supplement. It also contains the benefits of Lubegard® ATF Protectant.

| Part # | Package Size | Description                             | Case Quantity |
|--------|--------------|---|---------------|
| CATFLB | 100Z BOTTLE  | HIGHLY FRICTION MODIFIED ATF SUPPLEMENT | 12            |



Lubegard® M-V ATF Supplement eliminates the need to stock Mercon V ATF. Just use a standard ATF and add Lubegard® M-V ATF Supplement. It also contains the benefits of Lubegard® ATF Protectant.

| Part #  | Package Size | Description        | Case Quantity |
|---------|--------------|--------------------|---------------|
| CATFLM5 | 100Z BOTTLE  | M-V ATF SUPPLEMENT | 12            |



Lucas Transmission Fix is a non-solvent formula that stops slip, hesitation, and rough shifting in worn transmissions. It also stops most seal leaks.

| Part # | Package Size | Description      | Case Quantity |
|--------|--------------|------------------|---------------|
| CTF    | 24OZ. BOTTLE | TRANSMISSION FIX | 12            |



Seafoam Transtune is designed to use in transmission, power steering, and hydraulic systems. It cleans components and removes moisture, does not harm or swell seals and does not alter viscosity of transmission fluid.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CTT    | 16OZ. BOTTLE | TRANSTUNE   | 12            |



# TRANSMISSION, POWER STEERING AND MISC. ADDITIVES

## TRANSMISSION ADDITIVES

Lubegard® Shudder Fixx® is used with any ATF (except Type F and CVT applications) to eliminate torque converter shudder problems.

| Part # | Package Size | Description  | Case Quantity |
|--------|--------------|--------------|---------------|
| CSFL   | 20Z. TUBE    | SHUDDER FIXX | 24            |

Lubegard® Kooler Kleen is used to safely flush contaminants from the transmission cooler and lines to prevent them from entering a newly installed transmission. It doesn't leave any residue behind to contaminate new fluid and doesn't harm seals.

| Part # | Package Size | Description  | Case Quantity |
|--------|--------------|--------------|---------------|
| CKKL   | 13.25OZ. CAN | KOOLER KLEEN | 12            |



## POWER STEERING ADDITIVES

Lubegard® Power Steering Protectant is useful in eliminating noises, stiffness, stickiness, improving performance, reducing wear, and preventing fluid breakdown. It also converts standard fluids into a premium universal fluid.

| Part # | Package Size | Description               | Case Quantity |
|--------|--------------|---------------------------|---------------|
| CPSPL  | 4OZ. BOTTLE  | POWER STEERING PROTECTANT | 12            |

Lucas Power Steering Stop Leak is effective in reducing slack, squeals, and hard spots in worn rack and pinions.

| Part # | Package Size | Description              | Case Quantity |
|--------|--------------|--------------------------|---------------|
| CPSSLQ | 1 QT. BOTTLE | POWER STEERING STOP LEAK | 12            |



## MISC. ADDITIVES

Lubegard® Kool-It® is very effective in preventing electrolysis, corrosion, and pitting in cooling systems. It is compatible with all types of antifreeze.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CKIL   | 16OZ BOTTLE  | KOOL-IT     | 12            |

Lucas Hydraulic Boost stops leaks in hydraulic systems and increases hydraulic pressure.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CHB    | 1 GAL. JUG   | HYDRAULIC BOOST | 4             |

Lucas Hub Oil was formulated to stop leaks in steering axles and trailer hubs on heavy duty trucks.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CHO    | 1 QT. BOTTLE | HUB OIL     | 12            |

Isopropyl Gas line Antifreeze removes water from fuel and is safer for the system than methanol because it allows the water to mix with the fuel and removes it from the system.

| Part # | Package Size | Description                   | Case Quantity |
|--------|--------------|-------------------------------|---------------|
| CIGA   | 10OZ. BOTTLE | ISOPROPYL GAS LINE ANTIFREEZE | 24            |

Bar's Leak Cooling System Treatment is a great way to prevent and stop leaks in a cooling system.

| Part # | Package Size       | Description              | Case Quantity |
|--------|--------------------|--------------------------|---------------|
| CBLCG  | 100-5 GRAM TABLETS | COOLING SYSTEM STOP LEAK | 1             |



LUBRICANTS & CHEMICALS

# PENETRATING OILS

WD-40 is a penetrant and lubricant which displaces moisture and protects.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CWD40  | 12OZ. CAN    | WD-40       | 12            |
| CWD40G | 1 GAL. JUG   | WD-40       | 4             |

| Part #  | Description                      |
|---------|----------------------------------|
| EQWD40D | WD-40 HAND PUMP SPRAY APPLICATOR |



Stoner Skid penetrates, lubricates, cleans, and protects. It leaves a very thin coating to help protect metals and prevent future seizing.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CSK    | 10OZ. CAN    | SKID        | 12            |



Cyclo Breakaway Penetrant penetrates quickly and leaves a long lasting lubricant. It is excellent at stopping annoying squeaks and protecting against rust and corrosion.

| Part # | Package Size | Description     | Case Quantity |
|--------|--------------|-----------------|---------------|
| CCBP   | 13OZ. CAN    | CYCLO BREAKAWAY | 12            |



Gibbs Brand Lubricant is an excellent penetrant, lubricant, and cleaner. It stops and eliminates corrosion, displaces moisture, and provides long lasting protection for storage.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CGPL   | 12OZ. CAN    | GIBBS       | 12            |



CRC Freeze-Off® is a unique formula that immediately drops the temperature of the area in direct contact with the spray. The freezing effect cracks rusted surfaces, allowing Freeze-Off® to reach deeper & work more effectively than other penetrants. Low VOC Formula.

| Part # | Package Size | Description                | Case Quantity |
|--------|--------------|----------------------------|---------------|
| CFO    | 11.5 OZ. CAN | FREEZE-OFF SUPER PENETRANT | 12            |

B'laster PB50 All Purpose Lube is a penetrant and lubricant which displaces moisture and protects. It is B'laster's equivalent of WD-40.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CPB50  | 8OZ. CAN     | PB50        | 12            |



B'laster Penetrating Catalyst is a penetrant which breaks loose surface tension on rusted/frozen parts. It also provides minimal lubricating action.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CPBB   | 11OZ. CAN    | PB BLASTER  | 12            |
| CPBBG  | 1 GAL. JUG   | PB BLASTER  | 4             |



Seafoam Deep Creep penetrates rusted parts and lubricates moving metal parts, disperses moisture, and cuts through grease, engine varnish, and road tar. It withstands heat so it can be used with a torch to loosen badly rusted parts.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CDC    | 12OZ CAN     | DEEP CREEP  | 12            |



Lubriplate Chain & Cable Fluid is a superior penetrating oil that cleans and lubricates without gumming. It is ideal for chains, cables, and other moving metal parts.

| Part #     | Package Size    | Description         | Case Quantity |
|------------|-----------------|---------------------|---------------|
| CL0135-063 | 12OZ CAN        | CHAIN & CABLE FLUID | 12            |
| CL0135-035 | 5 GAL. PAIL     | CHAIN & CABLE FLUID | -             |
| CL0135-039 | 16 GAL 1/4 DRUM | CHAIN & CABLE FLUID | -             |



# DRY LUBES

Stoner E408 Dry Film Mold Release is an extremely versatile release agent and anti-stick lubricant for molded materials such as plastics, rubber, composites, and similar materials. This dry, anti-stick surface coating provides fast, easy part removal from molds and multiple part releases per application. E408 contains no silicones, oils, or waxes and most molded parts do not require cleaning prior to painting, hotstamping, plating, or similar decorating.



| Part # | Package Size | Description                  | Case Quantity |
|--------|--------------|------------------------------|---------------|
| CDFT   | 12 OZ CAN    | STONER DRY FILM MOLD RELEASE | 12            |

B'laster Dry Lube is formulated with Teflon™ Fluoropolymer, which helps reduce friction and wear, protect surfaces and enhance performance. Use it on locks and catches, hinges, cables, window and door tracks, rope and conveyor belts. It provides superior lubrication and is safe for use on most plastics.



| Part # | Package Size | Description                | Case Quantity |
|--------|--------------|----------------------------|---------------|
| CPBDL  | 9.3 OZ. CAN  | B'LASTER DRY LUBE W/TEFLON | 12            |

WD-40® SPECIALIST® DIRT & DUST RESISTANT DRY LUBE PTFE SPRAY lubricates and provides superior long-lasting corrosion protection with no oily residue. It dries quickly and resists dirt, dust and oil. WD-40 Specialist Dirt & Dust Resistant Dry Lube PTFE Spray reduces friction and wear on blades and bits, door and window tracks, slides, conveyor belts, rollers, hinges, power tools and equipment. Our dry lubricant is also ideal for releasing molded parts, and it's 50-state VOC compliant.

| Part #  | Package Size | Description              | Case Quantity |
|---------|--------------|--------------------------|---------------|
| CWD40DL | 10 OZ. CAN   | WD40 DRY LUBE PTFE SPRAY | 6             |

LUBRICANTS & CHEMICALS

# CLEANING CHEMICALS

Master Carb & Choke Cleaner is oxygen sensor and catalytic converter safe.

| Part # | Package Size | Description          | Case Quantity |
|--------|--------------|----------------------|---------------|
| CCC20  | 16.25OZ. CAN | CARB & CHOKE CLEANER | 12            |



Seafoam Spray is for internal engine use only. It cleans varnish and deposit buildup in 2 cycle and 4 cycle engines.

| Part # | Package Size | Description   | Case Quantity |
|--------|--------------|---------------|---------------|
| CSES   | 12OZ. CAN    | SEAFOAM SPRAY | 12            |



CRC Brakleen (5089) is formulated to quickly and effectively remove grease, oils, and dirt from brake parts. It is a chlorinated, non-flammable formula.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CBK    | 19OZ. CAN    | BRAKLEEN    | 12            |



Mag 1 Non-Chlorinated Brake Cleaner is formulated to quickly and effectively remove grease, oils, and dirt from brake parts. It is a non-chlorinated, flammable formula.

| Part # | Package Size | Description                   | Case Quantity |
|--------|--------------|-------------------------------|---------------|
| CBCNC  | 14OZ. CAN    | NON-CHLORINATED BRAKE CLEANER | 12            |



Electric Contact Cleaner and Electric Motor Cleaner quickly and effectively degrease and remove dirt and other foreign matter from electrical devices and parts, that may cause electrical failure. The Electric Contact Cleaner is a quick dry formula.

| Part # | Package Size | Description                        | Case Quantity |
|--------|--------------|------------------------------------|---------------|
| CECC   | 11 OZ. CAN   | QUICK DRY ELECTRIC CONTACT CLEANER | 12            |

|      |              |                       |    |
|------|--------------|-----------------------|----|
| CEMC | 14.5 OZ. CAN | ELECTIC MOTOR CLEANER | 12 |
|------|--------------|-----------------------|----|

B'laster Air Tool Conditioner is designed to restore and prolong air tool life by cleaning, coating, and lubricating tools. It breaks loose deposits which accumulate over time and inhibits rust.

| Part # | Package Size | Description          | Case Quantity |
|--------|--------------|----------------------|---------------|
| CATC   | 11OZ. CAN    | AIR TOOL CONDITIONER | 12            |



Battery Terminal Cleaner and Battery Terminal Protector are specifically designed for battery terminal cleaning and protection.

| Part # | Package Size | Description              | Case Quantity |
|--------|--------------|--------------------------|---------------|
| CBTC   | 6 OZ. CAN    | BATTERY TERMINAL CLEANER | 12            |
| CBP    | 6 OZ. CAN    | BATTERY PROTECTOR        | 12            |

XENIT contains NO soap or water. Instead, it contains more powerful ingredients like Citrus 66, a natural cleaning solvent. Unlike most water-based cleaners that just lift and carry dirt, XENIT's MicroActive cleaning action loosens and breaks down the complex molecules found in sticky materials and difficult stains. XENIT leaves no residue, has a pleasant orange scent, and contains a disinfectant to help kill germs and odors.

| Part # | Package Size | Description          | Case Quantity |
|--------|--------------|----------------------|---------------|
| CXCCS  | 10 OZ. CAN   | XENIT CITRUS CLEANER | 12            |



Anti-Spatter Spray: Environmentally safe spray reduces welding spatter. Made of non-toxic ingredients

| Part # | Package Size | Description                | Case Quantity |
|--------|--------------|----------------------------|---------------|
| CWASS  | 12 OZ. CAN   | WELDING ANTI-SPATTER SPRAY | 12            |

# STARTING FLUID & SILICONE LUBRICANT

## STARTING FLUID

Starting Fluid saves batteries in cold weather. It contains upper cylinder lubricant and works down to -65° F. Premium starting fluid contains 50% ether and has twice the starting power of regular starting fluid.

| Part # | Package Size | Description            | Case Quantity |
|--------|--------------|------------------------|---------------|
| CSFR   | 11OZ CAN     | REGULAR STARTING FLUID | 12            |
| CSFPB  | 11OZ CAN     | PREMIUM STARTING FLUID | 12            |
| CSFPS  | 7.5OZ. CAN   | PREMIUM STARTING FLUID | 12            |



## SILICONE LUBRICANT

Johnsen's Silicone Lubricant is an all purpose lubricant. It prolongs life, prevents squeaks, and lubricates.



Stoner Food Grade Silicone Spray is a versatile lubricant which reduces friction and prevents sticking for faster, quieter, and more efficient machine operation.



| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| CSS    | 10OZ. CAN    | SILICONE SPRAY | 12            |

| Part #  | Package Size | Description               | Case Quantity |
|---------|--------------|---------------------------|---------------|
| CSSA635 | 9OZ. CAN     | FOOD GRADE SILICONE SPRAY | 12            |

# BELT DRESSING, BRAKE FINISHING, FLOOR DRY

## BELT DRESSING

Permatex Belt Dressing extends belt life by penetrating the cord fibers of v-belts to restore pliability, flexibility, and prevent slippage due to heat, cold, dampness, and dust.

| Part #  | Package Size | Description   | Case Quantity |
|---------|--------------|---------------|---------------|
| CP80073 | 12OZ CAN     | BELT DRESSING | 12            |



## BRAKE FINISHING

Lubegard® Squeak Relief is a brake job finishing treatment which stops squeals without changing pedal feel or the break in properties of the linings. It also prevents brake surface rust/oxidation and is effective on all brake systems.

| Part # | Package Size | Description   | Case Quantity |
|--------|--------------|---------------|---------------|
| CSRL   | 11OZ. CAN    | SQUEAK RELIEF | 6             |



LUBRICANTS & CHEMICALS

## FLOOR DRY

Diatomaceous Earth soaks up better than clay products and so is less expensive to use.

| Part # | Package Size | Description                  |
|--------|--------------|------------------------------|
| CFDD25 | 25 LB. BAG   | DIATOMACEOUS EARTH FLOOR DRY |

Nviro Clean Spill Remediation soaks up spills so fast you pour it on and sweep it off. You can sift out the used product and reuse the rest. It is environmentally friendly and it is super easy to use and soaks up far more liquid per volume than competitive products saving time and money!

| Part # | Package Size | Description                          |
|--------|--------------|--------------------------------------|
| CFDN5  | 5 LB. BAG    | NVIROCLEAN SPILL REMEDIATION PRODUCT |
| CFDN20 | 20 LB. BAG   | NVIROCLEAN SPILL REMEDIATION PRODUCT |

# WELD COMPOUNDS

## COLD WELD COMPOUNDS

Master PermaWeld is a cold bonding compound. Full cure is 16 hours. Once cured it can be drilled, tapped, machined, filed, and sanded. It is resistant to diesel, gas, oil, water, and antifreeze.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CPW    | 2/10Z. TUBES | PERMAWELD   | 6             |



Pro Seal Proweld Quik is a quick set epoxy steel and sets in 4 minutes. It resists temperatures up to 300° F. It can be drilled, tapped, machined, filed, and sanded. It is resistant to diesel, gas, oil, water, and antifreeze.

| Part #   | Package Size | Description  | Case Quantity |
|----------|--------------|--------------|---------------|
| CPS64605 | 2/10Z. TUBES | PROWELD QUIK | 12            |





# ANTISEIZE, THREAD SEALANT W/PTFE (PIPE DOPE), & SLIME

## ANTISEIZE

Permatex Antiseize Lubricant is used during assembly to prevent galling, corrosion, and seizing. It withstands temperatures of up to 1600° F for the aluminum antiseize and up to 1800 F for the copper antiseize.

| Part #  | Package Size          | Description                  | Case Quantity |
|---------|-----------------------|------------------------------|---------------|
| CP81343 | 1OZ. TUBE             | ALUMINUM ANTISEIZE LUBRICANT | 12            |
| CP80078 | 8OZ. BOTTLE W/BRUSH   | ALUMINUM ANTISEIZE LUBRICANT | 12            |
| CP81464 | 8.5OZ. AEROSOL CAN    | ALUMINUM ANTISEIZE LUBRICANT | 12            |
| CP31163 | 16 OZ. BOTTLE W/BRUSH | COPPER ANTISEIZE LUBRICANT   | 12            |



## THREAD SEALANT W/PTFE (PIPE DOPE)

Permatex Thread Sealant w/PTFE is a general purpose fitting sealant which out performs tapes and pipe dopes. It seals and resists pressure in air, oil, diesel, and hydraulic systems. Withstands temperatures of -65° F to 300° F.

| Part #  | Package Size | Description             | Case Quantity |
|---------|--------------|-------------------------|---------------|
| CP80632 | 4OZ BOTTLE   | THREAD SEALANT W/TEFLON | 12            |
| CP80633 | 16OZ. BOTTLE | THREAD SEALANT W/TEFLON | 12            |



Permatex High Temp Thread Sealant locks and seals threaded fittings. It resists leakage, vibration loosening, moisture, hydraulic fluids and diesel fuels. It lubricates threads for easy assembly and disassembly. Won't shred or wear like Teflon® tape. Parts may be repositioned up to 4 hours after application. Temperature range -65°F to 400°F (-54°C to 204°C). Contains PTFE.

| Part #  | Package Size  | Description              | Case Quantity |
|---------|---------------|--------------------------|---------------|
| CP59235 | 1.69 OZ. TUBE | HIGH TEMP THREAD SEALANT | 6             |

## SLIME

Slime Tire Sealant is formulated for use in all pneumatic tires. Once installed slime remains liquid and will not harden or dry out. As a treated tire rotates centrifugal force pushes the sealant to the tread area treating punctures. It is not intended to repair sidewall punctures, bead leaks, damaged rims, or faulty valves. On high speed, over the road tires it should be used as a temporary repair only.

| Part # | Package Size | Description           | Case Quantity |
|--------|--------------|-----------------------|---------------|
| CTS16  | 16OZ. BOTTLE | TUBELESS TIRE SEALANT | 6             |
| CTS32  | 32OZ. BOTTLE | TUBELESS TIRE SEALANT | 6             |
| CTSG   | 1 GAL. JUG   | TUBELESS TIRE SEALANT | 2             |



Slime Tube Sealant is formulated for use in all tube tires. Once installed slime remains liquid and will not harden or dry out. As a treated tire rotates centrifugal force pushes the sealant to the tread area treating punctures. It is not intended to repair sidewall punctures, bead leaks, damaged rims, or faulty valves. On high speed, over the road tires it should be used as a temporary repair only.

| Part # | Package Size | Description  | Case Quantity |
|--------|--------------|--------------|---------------|
| CTST16 | 16OZ. BOTTLE | TUBE SEALANT | 6             |



# SHOP TOWELS, PIG PRODUCTS, PIG MATS & CAR CARE PRODUCTS

## SHOP TOWELS

Scott Shop Towels are strong, absorbent, multipurpose, and disposable. They are excellent for tough jobs.

| Part # | Package Size  | Description           | Case Quantity |
|--------|---------------|-----------------------|---------------|
| EQST   | 55 TOWEL ROLL | SHOP TOWELS ON A ROLL | 30            |
| EQSTB  | 200 TOWEL BOX | SHOP TOWELS IN A BOX  | 8             |



| Part # | Description               |
|--------|---------------------------|
| EQSTH  | HOOK FOR SHOP TOWEL ROLLS |

LUBRICANTS & CHEMICALS

## PIG PRODUCTS

Pig Products are the best products for absorbing, containing, and controlling leaks, drips, and spills.

## PIG MATS

| Part # | Size      | Description            | Absorbency      | Bag Quantity |
|--------|-----------|------------------------|-----------------|--------------|
| EQP460 | 15" X 20" | OIL-ONLY ABSORBENT MAT | UP TO 22OZ./PAD | 125          |

## CAR CARE PRODUCTS

Aerosol Glass Cleaner is specially formulated for cleaning and shining glass and similar surfaces.

| Part # | Package Size | Description           | Case Quantity |
|--------|--------------|-----------------------|---------------|
| CGCM   | 18OZ. CAN    | AEROSOL GLASS CLEANER | 12            |



Gunk Glass Cleaner with ammonia cleans glass without streaking. It comes in a hand pump spray bottle.

| Part # | Package Size | Description   | Case Quantity |
|--------|--------------|---------------|---------------|
| CGCG   | 33OZ. BOTTLE | GLASS CLEANER | 12            |



RainX Rain Repellant helps improve visibility by repelling rain, sleet, and snow. It helps easily remove frost, ice, salt, mud, and bugs from treated windows.

| Part # | Package Size  | Description          | Case Quantity |
|--------|---------------|----------------------|---------------|
| CRX    | 3.5OZ. BOTTLE | RAINX RAIN REPELLANT | 12            |



Master Tire Care Foam cleans, shines, and protects tires in one step. There is no wiping and no mess.

| Part # | Package Size | Description    | Case Quantity |
|--------|--------------|----------------|---------------|
| CTCF   | 15OZ.CAN     | TIRE CARE FOAM | 12            |



Prime Blend Rubberized Undercoat seals and protects vehicles against moisture, rust, and corrosion. It also helps quiet squeaks and deadens noise. It is quick drying and paintable.

| Part # | Package Size | Description  | Case Quantity |
|--------|--------------|--------------|---------------|
| CUPB   | 18OZ.        | UNDERCOATING | 12            |



# HAND CLEANERS

Crystal Green Hand Cleaner cleans and conditions. It is for use with or without water. It liquefies, emulsifies, dissolves, and floats away oil, grease, tar, dirt, ink, and paint.

| Part #  | Package Size | Description   | Case Quantity |
|---------|--------------|---------------|---------------|
| CHCCGN  | 1 GAL. JUG   | CRYSTAL GREEN | 4             |
| CHCCGNQ | 1 QT. BOTTLE | CRYSTAL GREEN | 12            |

| Part # | Description                                   |
|--------|---|
| EQHCP  | REPLACEMENT HAND CLEANER PUMP FOR GALLON JUGS |



Permatex Fast Orange Hand Cleaner is biodegradable, waterless, petroleum solvent free, and contains no harsh chemicals. Pure, fresh smelling, natural citrus power does the cleaning. It is available smooth, or with pumice. The fine pumice provides an abrasive to remove the toughest dirt.

| Part #   | Package Size  | Description          | Case Quantity |
|----------|---------------|----------------------|---------------|
| CP23-122 | 15 OZ. BOTTLE | FAST ORANGE SMOOTH   | 12            |
| CP23-218 | 1 GAL. JUG    | FAST ORANGE SMOOTH   | 4             |
| CP25-219 | 1 GAL. JUG    | FAST ORANGE W/PUMICE | 4             |



Gojo Orange Hand Cleaner w/Pumice is a quick acting lotion formula with pumice scrubbing particles for cleaning a broad range of industrial soils, medium dirt, and grease. It uses citrus power to do the cleaning.

| Part #   | Package Size | Description              | Case Quantity |
|----------|--------------|--------------------------|---------------|
| CHCGJOPG | 1 GAL. JUG   | GOJO ORANGE HAND CLEANER | 2             |



Gojo Power Gold Hand Cleaner is a highly effective fast acting hand cleaner for removing the heaviest grease, tar, and oil. It contains no harsh solvents. The scrubbing particles are natural and non-irritating.

| Part #    | Package Size    | Description             | Case Quantity |
|-----------|-----------------|-------------------------|---------------|
| CHCGJPG2L | 1/2 GAL. JUG    | POWER GOLD HAND CLEANER | 2             |
| CHCGJPGWC | 2L BAG IN A BOX | POWER GOLD HAND CLEANER | 4             |



# PAINT



Seymour of Sycamore is the manufacturer of quality spray paints and chemicals since 1949. Seymour spray paint is quite simply, the best spray paint available. With high solids content it covers more quickly than the competition. It does not run or sag, resists heat and chemicals, and protects against weather.

## SPRAY PAINT

### MRO® HIGH SOLIDS

A superior industrial spray paint with the highest solid content of all Seymour paints. Formulated for maintenance operations where maximum performance is required. This high solids paint does not run or sag, and gives twice the coverage of conventional spray paints. Resists oil, gas, heat and sunlight.

| Part #   | Seymour Part # | Color                          |
|----------|----------------|--------------------------------|
| CSPMFB   | 620-1433       | FLAT BLACK                     |
| CSPMGB   | 620-1415       | GLOSS BLACK                    |
| CSPMFW   | 620-1412       | FLAT WHITE                     |
| CSPMGW   | 620-1413       | GLOSS WHITE                    |
| CSPMGL   | 620-1418       | LIGHT MACHINERY GRAY (ANSI 70) |
| CSPMG    | 620-1416       | GRAY (ANSI 61)                 |
| CSPMDMG  | 620-1417       | DARK MACHINERY GRAY (ANSI 49)  |
| CSPMCG   | 620-1448       | CASCADE GREEN                  |
| CSPMDG   | 620-1449       | DARK GREEN                     |
| CSPMIR   | 620-1441       | IHC RED                        |
| CSPMLB   | 620-1430       | LIFT BLUE                      |
| CSPMOO   | 620-1450       | OMAHA ORANGE                   |
| CSPMRY   | 620-1446       | RYDER YELLOW                   |
| CSPMSB   | 620-1427       | SAFETY BLUE                    |
| CSPMSY   | 620-1419       | SAFETY YELLOW                  |
| CSPMA    | 620-1411       | ALUMINUM                       |
| CSPMSS   | 620-1460       | STAINLESS STEEL                |
| CSPMGP   | 620-1431       | GRAY PRIMER                    |
| CSPMRIOP | 620-1407       | RED IRON OXIDE PRIMER          |



### HI-TECH®

A premium grade spray paint formulated for general purpose applications where maximum indoor/outdoor coating performance is required. Hi-Tech provides a tough finish that inhibits rust and resists heat and gasoline. Available in a complete line of high gloss colors, with some available in semi-gloss and flat finishes. Hides well, dries fast, and resists chipping and peeling.

| Part # | Seymour Part # | Color                  |
|--------|----------------|------------------------|
| CSPHGC | 16-121         | GLOSS CLEAR UV LACQUER |
| CSPHGB | 16-139         | SEMI GLOSS BLACK       |



LUBRICANTS & CHEMICALS

# PAINT

## SPRAY PAINT

### SPRUCE®

Spruce General Use spray paint is formulated to give you a full service line of quality, low priced aerosol products.

- Designed for close-up (8-10") spraying
- Eliminates wasted paint, over-spraying and sag
- Does not contain lead, CFC's or chlorinated solvents

| Part #  | Seymour Part # | Color                    |
|---------|----------------|--------------------------|
| CSPSGB  | 98-3           | GLOSS BLACK              |
| CSPSGLY | 98-34          | GLOSS LIGHT YELLOW       |
| CSPSGW  | 98-2           | GLOSS WHITE              |
| CSPSCA  | 98-1           | CHROME ALUMINUM LACQUER  |
| CSPSSGB | 98-38          | SEMI-GLOSS BLACK LACQUER |



LUBRICANTS & CHEMICALS

### STRIPE® INVERTED TIP MARKING PAINT • WATER & SOLVENT BASED

A fast drying marking paint designed to be sprayed in an inverted position. Uses a patented technology to cut the environmental impact in half (as compared to standard solvent based marking paint). Produces vivid marks, does not clog, and is safe for grass. The solvent based formulation works well in low temperatures. Meets APWA color standards.

| Part #   | Seymour Part # | Color                           |
|----------|----------------|---------------------------------|
| CSPMAFB  | 20-369         | FLUORESCENT BLUE WATERBASED     |
| CSPMAFG  | 20-368         | FLUORESCENT GREEN WATERBASED    |
| CSPMAFO  | 20-357         | FLUORESCENT ORANGE WATERBASED   |
| CSPMAFP  | 20-379         | FLUORESCENT PINK WATERBASED     |
| CSPMAFY  | 20-376         | FLUORESCENT YELLOW WATERBASED   |
| CSPMAW   | 20-352         | WHITE WATERBASED                |
| CSPMASFO | 20-957         | FLUORESCENT ORANGE SOLVENTBASED |



### STRIPE® EXTRA TRAFFIC MARKER MARKING PAINT

Formulated for heavy-duty application in high traffic areas. This marker offers maximum adhesion and durability. Stripe Extra is easily applied and dries quickly to provide a durable coating. Non-bleed formulation is ideal for freshly paved parking lots.

| Part #    | Seymour Part # | Color              |
|-----------|----------------|--------------------|
| CSPMAETFY | 20-781         | FLOURESCENT YELLOW |
| CSPMAETY  | 20-786         | YELLOW             |



# PAINT & SPECIALTY COATINGS

## SPRAY PAINT

### FARM & INDUSTRY

Farm and Industry paint is not only environmentally safer, but economical to use. More coverage and better hide per can requires fewer cans to get the job done. Seymour's Farm and Industry spray enamel is heat resistant to 300°F, and dries quickly to a hard, long-lasting finish. Offered in a wide variety of factory-matched colors that won't fade, chip, crack or peel and is resistant to many chemicals including gasoline, oil and grease. Excellent for touch-up on farm tractors, implements, industrial and construction equipment.

| Part #    | Seymour Part # | Color                |
|-----------|----------------|----------------------|
| CSPFIFB   | 16-242         | FORD BLUE            |
| CSPFINJDG | 16-268         | NEW EQUIPMENT GREEN  |
| CSPFINJDY | 16-266         | NEW EQUIPMENT YELLOW |



## SPECIALTY COATINGS

### EPOXY

A specially formulated coating that dries to form a porcelain hard finish with exceptional durability. Resists most harsh cleaners and chemicals. High gloss finish that is resistant to chipping, cracking and peeling. Able to withstand heavy use which makes it ideal for use in kitchens, bathrooms, on machinery and floors.

| Part # | Seymour Part # | Color           |
|--------|----------------|-----------------|
| CSEAW  | EP-502         | APPLIANCE WHITE |



### HOT SPOT®

A special formulation that can withstand temperatures up to 1200°F on a continuous basis. A porcelain-like bond is formed at high temperatures. Resists blistering, peeling, discoloration, or loss of adhesion.

| Part # | Seymour Part # | Color           |
|--------|----------------|-----------------|
| CSPHSB | 16-1203        | HIGH HEAT BLACK |



# SPECIALTY COATINGS

## RUST CONVERTER

Seymour Rust Converter can be applied to any iron or steel surface to penetrate rust and turn it into a protective black coating.

| Part # | Seymour Part # | Color |
|--------|----------------|-------|
| CSPRC  | 16-45          | BLACK |



## OE SHINY GALV-ZINC RICH

Seymour O.E. Shiny Galv contains 65% zinc. It is considered a sacrificial coating and meets ASTM A780 specifications.

| Part # | Seymour Part # | Color            |
|--------|----------------|------------------|
| CSPSG  | 16-842         | SHINY GALVANIZED |



## SEAL-IT

Seymour Seal-It is a multi-purpose sealant for small cracks and will not lose flexibility. It resists water, protects against UV sunlight, and will not crack in cold weather. It is ideal for small cracks on roofs, around windows, and doors and can be topcoated with oil and latex paints.

| Part # | Seymour Part # | Color |
|--------|----------------|-------|
| CSPSI  | 20-148         | BLACK |



# TOOL CRIB® CHEMICALS

Seymour Chain & Cable Lube is a lightweight black lubricant which penetrates deeply and prolongs the life of any size chain or wire by keeping it supple and preventing rust.

| Part # | Seymour Part # | Product                      |
|--------|----------------|------------------------------|
| CTCCL  | 620-1502       | CHAIN & CABLE LUBE WITH MOLY |



Seymour Penetrating Lubricant is a lightweight penetrating fluid with penetrants, lubricants, and rust inhibitors. It leaves behind an anti-rust film for continued protection.

| Part # | Seymour Part # | Product                              |
|--------|----------------|--------------------------------------|
| CTCPL  | 620-1543       | SUPER STRENGTH PENETRATING LUBRICANT |



LUBRICANTS & CHEMICALS



# SECTION 4: TOOLS & ABRASIVES



# NOTES

## VIKING DRILL

Viking Drill offers America's finest high-speed steel cutting tools. They offer twist drills, annular cutters, carbide tipped hole cutters, taps & dies, hole enlarging tools, premium carbide burrs, and a number of other specialty cutting tools.

## RUKO

Ruko manufactures and distributes high quality drilling and cutting tools. Their product offering includes: Drills, Countersinks, Thread Cutting Tools, Annular Cutters, Burrs, Hole Saws, Jig-Saw Blades, Reciprocating Blades, Deburring Tools, and Knockout-Punches.

## TENRYU

Tenryu is globally known as a premier manufacturer of quality saw blades. They offer over 3,000 types of carbide blades for woodworking, metalworking, plastic cutting, and machining other composite materials.

## DRILL BIT DECIMAL EQUIVALENT CHART

| Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal |
|------------|---------|------------|---------|------------|---------|------------|---------|
| M0.1       | 0.0039  | 71         | 0.0260  | 53         | 0.0595  | 39         | 0.0995  |
| 97         | 0.0059  | M0.7       | 0.0276  | M1.55      | 0.0610  | 38         | 0.1015  |
| 96         | 0.0063  | 70         | 0.0280  | 1/16       | 0.0625  | M2.6       | 0.1024  |
| 95         | 0.0067  | 69         | 0.0292  | M1.6       | 0.0630  | 37         | 0.1040  |
| 94         | 0.0071  | M0.75      | 0.0295  | 52         | 0.0635  | M2.7       | 0.1063  |
| 93         | 0.0075  | 68         | 0.0310  | M1.65      | 0.0650  | 36         | 0.1065  |
| 92         | 0.0079  | 1/32       | 0.0312  | M1.7       | 0.0669  | 7/64       | 0.1094  |
| M0.2       | 0.0079  | M0.8       | 0.0315  | 51         | 0.0670  | 35         | 0.1100  |
| 91         | 0.0083  | 67         | 0.0320  | M1.75      | 0.0689  | M2.8       | 0.1102  |
| 90         | 0.0087  | 66         | 0.0330  | 50         | 0.0700  | 34         | 0.1110  |
| 89         | 0.0091  | M0.85      | 0.0335  | M1.8       | 0.0709  | 33         | 0.1130  |
| 88         | 0.0095  | 65         | 0.0350  | M1.85      | 0.0728  | M2.9       | 0.1142  |
| 87         | 0.0100  | M0.9       | 0.0354  | 49         | 0.0730  | 32         | 0.1160  |
| 86         | 0.0105  | 64         | 0.0360  | M1.9       | 0.0748  | M3.0       | 0.1181  |
| 85         | 0.0110  | 63         | 0.0370  | 48         | 0.0760  | 31         | 0.1200  |
| 84         | 0.0115  | M0.95      | 0.0374  | M1.95      | 0.0768  | M3.1       | 0.1220  |
| M0.3       | 0.0118  | 62         | 0.0380  | 5/64       | 0.0781  | 1/8        | 0.1250  |
| 83         | 0.0120  | 61         | 0.0390  | 47         | 0.0785  | M3.2       | 0.1260  |
| 82         | 0.0125  | M1.0       | 0.0394  | M2.0       | 0.0787  | 30         | 0.1285  |
| 81         | 0.0130  | 60         | 0.0400  | M2.05      | 0.0807  | M3.3       | 0.1299  |
| 80         | 0.0135  | 59         | 0.0410  | 46         | 0.0810  | M3.4       | 0.1339  |
| M0.35      | 0.0138  | M1.05      | 0.0413  | 45         | 0.0820  | 29         | 0.1360  |
| 79         | 0.0145  | 58         | 0.0420  | M2.1       | 0.0827  | M3.5       | 0.1378  |
| 1/64       | 0.0156  | 57         | 0.0430  | M2.15      | 0.0846  | 28         | 0.1405  |
| M0.4       | 0.0157  | M1.1       | 0.0433  | 44         | 0.0860  | 9/64       | 0.1406  |
| 78         | 0.0160  | M1.15      | 0.0453  | M2.2       | 0.0866  | M3.6       | 0.1417  |
| M0.45      | 0.0177  | 56         | 0.0465  | M2.25      | 0.0886  | 27         | 0.1440  |
| 77         | 0.0180  | 3/64       | 0.0469  | 43         | 0.0890  | M3.7       | 0.1457  |
| M0.5       | 0.0197  | M1.2       | 0.0472  | M2.3       | 0.0906  | 26         | 0.1470  |
| 76         | 0.0200  | M1.25      | 0.0492  | M2.35      | 0.0925  | 25         | 0.1495  |
| 75         | 0.0210  | M1.3       | 0.0512  | 42         | 0.0935  | M3.8       | 0.1496  |
| M0.55      | 0.0217  | 55         | 0.0520  | 3/32       | 0.0938  | 24         | 0.1520  |
| 74         | 0.0225  | M1.35      | 0.0531  | M2.4       | 0.0945  | M3.9       | 0.1535  |
| M0.6       | 0.0236  | 54         | 0.0550  | 41         | 0.0960  | 23         | 0.1540  |
| 73         | 0.0240  | M1.4       | 0.0551  | M2.45      | 0.0965  | 5/32       | 0.1562  |
| 72         | 0.0250  | M1.45      | 0.0571  | 40         | 0.0980  | 22         | 0.1570  |
| M0.65      | 0.0256  | M1.5       | 0.0591  | M2.5       | 0.0984  | M4.0       | 0.1575  |

TOOLS & ABRASIVES

# NOTES

## DRILL BIT DECIMAL EQUIVALENT CHART

| Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal | Drill Size | Decimal |
|------------|---------|------------|---------|------------|---------|------------|---------|
| 21         | 0.1590  | D          | 0.2460  | T          | 0.3580  | 5/8        | 0.6250  |
| 20         | 0.1610  | M6.3       | 0.2480  | M9.1       | 0.3583  | M16.0      | 0.6299  |
| M4.1       | 0.1614  | 1/4        | 0.2500  | 23/64      | 0.3594  | 41/64      | 0.6406  |
| M4.2       | 0.1654  | E          | 0.2500  | M9.2       | 0.3622  | M16.5      | 0.6496  |
| 19         | 0.1660  | M6.4       | 0.2520  | M9.3       | 0.3661  | 21/32      | 0.6562  |
| M4.3       | 0.1693  | M6.5       | 0.2559  | U          | 0.3680  | M17.0      | 0.6693  |
| 18         | 0.1695  | F          | 0.2570  | M9.4       | 0.3701  | 43/64      | 0.6719  |
| 11/64      | 0.1719  | M6.6       | 0.2598  | M9.5       | 0.3740  | 11/16      | 0.6875  |
| 17         | 0.1730  | G          | 0.2610  | 3/8        | 0.3750  | M17.5      | 0.6890  |
| M4.4       | 0.1732  | M6.7       | 0.2638  | V          | 0.3770  | 45/64      | 0.7031  |
| 16         | 0.1770  | 17/64      | 0.2656  | M9.6       | 0.3780  | M18.0      | 0.7087  |
| M4.5       | 0.1772  | H          | 0.2660  | M9.7       | 0.3819  | 23/32      | 0.7188  |
| 15         | 0.1800  | M6.8       | 0.2677  | M9.8       | 0.3858  | M18.5      | 0.7283  |
| M4.6       | 0.1811  | M6.9       | 0.2717  | W          | 0.3860  | 47/64      | 0.7344  |
| 14         | 0.1820  | I          | 0.2720  | M9.9       | 0.3898  | M19.0      | 0.7480  |
| 13         | 0.1850  | M7.0       | 0.2756  | 25/64      | 0.3906  | 3/4        | 0.7500  |
| M4.7       | 0.1850  | J          | 0.2770  | M10.0      | 0.3937  | 49/64      | 0.7656  |
| 3/16       | 0.1875  | M7.1       | 0.2950  | X          | 0.3970  | M19.5      | 0.7677  |
| 12         | 0.1890  | K          | 0.2810  | M10.2      | 0.4016  | 25/32      | 0.7812  |
| M4.8       | 0.1890  | 9/32       | 0.2812  | Y          | 0.4040  | M20.0      | 0.7874  |
| 11         | 0.1910  | M7.2       | 0.2835  | M10.3      | 0.4055  | 51/64      | 0.7969  |
| M4.9       | 0.1929  | M7.3       | 0.2874  | 13/32      | 0.4062  | M20.5      | 0.8071  |
| 10         | 0.1935  | L          | 0.2900  | Z          | 0.4130  | 13/16      | 0.8125  |
| 9          | 0.1960  | M7.4       | 0.2913  | M10.5      | 0.4134  | M21.0      | 0.8268  |
| M5.0       | 0.1969  | M          | 0.2950  | 27/64      | 0.4219  | 53/64      | 0.8281  |
| 8          | 0.1990  | M7.5       | 0.2953  | M10.8      | 0.4252  | 27/32      | 0.8438  |
| M5.1       | 0.2008  | 19/64      | 0.2969  | M11.0      | 0.4331  | M21.5      | 0.8465  |
| 7          | 0.2010  | M7.6       | 0.2992  | 7/16       | 0.4375  | 55/64      | 0.8594  |
| 13/64      | 0.2031  | N          | 0.3020  | M11.2      | 0.4409  | M22.0      | 0.8661  |
| 6          | 0.2040  | M7.7       | 0.3031  | M11.5      | 0.4528  | 7/8        | 0.8750  |
| M5.2       | 0.2047  | M7.8       | 0.3071  | 29/64      | 0.4531  | M22.5      | 0.8858  |
| 5          | 0.2055  | M7.9       | 0.3110  | M11.8      | 0.4646  | 57/64      | 0.8906  |
| M5.3       | 0.2087  | 5/16       | 0.3125  | 15/32      | 0.4688  | M23.0      | 0.9055  |
| 4          | 0.2090  | M8.0       | 0.3150  | M12.0      | 0.4724  | 29/32      | 0.9062  |
| M5.4       | 0.2126  | O          | 0.3160  | M12.2      | 0.4803  | 59/64      | 0.9219  |
| 3          | 0.2130  | M8.1       | 0.3189  | 31/64      | 0.4844  | M23.5      | 0.9252  |
| M5.5       | 0.2165  | M8.2       | 0.3228  | M12.5      | 0.4921  | 15/16      | 0.9375  |
| 7/32       | 0.2188  | P          | 0.3230  | 1/2        | 0.5000  | M24.0      | 0.9449  |
| M5.6       | 0.2205  | M8.3       | 0.3268  | M13.0      | 0.5118  | 61/64      | 0.9531  |
| 2          | 0.2210  | 21/64      | 0.3281  | 33/64      | 0.5156  | M24.5      | 0.9646  |
| M5.7       | 0.2244  | M8.4       | 0.3307  | 17/32      | 0.5312  | 31/32      | 0.9688  |
| 1          | 0.2280  | Q          | 0.3320  | M13.5      | 0.5315  | M25.0      | 0.9843  |
| M5.8       | 0.2283  | M8.5       | 0.3346  | 35/64      | 0.5469  | 63/64      | 0.9844  |
| M5.9       | 0.2323  | M8.6       | 0.3386  | M14.0      | 0.5512  | 1          | 1.0000  |
| A          | 0.2340  | R          | 0.3390  | 9/16       | 0.5625  |            |         |
| 15/64      | 0.2344  | M8.7       | 0.3425  | M14.5      | 0.5709  |            |         |
| M6.0       | 0.2362  | 11/32      | 0.3438  | 37/64      | 0.5781  |            |         |
| B          | 0.2380  | M8.8       | 0.3465  | M15.0      | 0.5906  |            |         |
| M6.1       | 0.2402  | S          | 0.3480  | 19/32      | 0.5938  |            |         |
| C          | 0.2420  | M8.9       | 0.3504  | 39/64      | 0.6094  |            |         |
| M6.2       | 0.2441  | M9.0       | 0.3543  | M15.5      | 0.6102  |            |         |

# NOTES

## TAP DRILL CHART

| Thread   | Drill | Thread   | Drill | Thread   | Drill | Thread  | Drill |
|----------|-------|----------|-------|----------|-------|---------|-------|
| 0-80     | 3/64  | M3.5-.6  | M2.9  | 3/8-24   | Q     | 3/4-10  | 21/32 |
| M1.6-.35 | M1.25 | M4.0-.7  | M3.3  | M10-1.5  | M8.5  | 3/4-16  | 11/16 |
| 1-64     | 54    | 8-32     | 29    | M10-1.25 | 11/32 | M20-2.5 | M17.5 |
| M1.8-.35 | M1.45 | 8-36     | 29    | 7/16-14  | U     | M20-1.5 | M18.5 |
| 1-72     | 53    | M4.5-.75 | 26    | 7/16-20  | 25/64 | 7/8-9   | 49/64 |
| M2.0-.4  | M1.6  | 10-24    | 25    | M12-1.75 | Y     | M22-2.5 | M19.5 |
| 2-56     | 51    | 10-32    | 21    | 1/2-13   | 27/64 | M22-1.5 | M20.5 |
| M2.2-.45 | M1.75 | M5.0-.8  | M4.2  | M12-1.25 | M10.8 | 7/8-14  | 13/16 |
| 2-64     | 50    | 12-24    | 16    | 1/2-20   | 29/64 | M24-3.0 | M21   |
| 3-48     | 47    | 12-28    | 14    | M14-2.0  | M12.0 | M24-2.0 | M22   |
| M2.5-.45 | M2.05 | M6-1.0   | M5.0  | 9/16-12  | 31/64 | 1-8     | 7/8   |
| 3-56     | 45    | 1/4-20   | 7     | M14-1.5  | M12.5 | 1-12    | 59/64 |
| 4-40     | 43    | 1/4-28   | 3     | 9/16-18  | 33/64 | 1-14    | 15/16 |
| 4-48     | 42    | M7-1.0   | M6.0  | M16-2.0  | M14.0 |         |       |
| M3.0-.5  | M2.5  | 5/16-18  | F     | 5/8-11   | 17/32 |         |       |
| 5-40     | 38    | M8-1.25  | H     | M16-1.5  | M14.5 |         |       |
| 5-44     | 37    | 5/16-24  | I     | 5/8-18   | 37/64 |         |       |
| 6-32     | 36    | M8-1.0   | M7.0  | M18-2.5  | M15.5 |         |       |
| 6-40     | 33    | 3/8-16   | 5/16  | M18-1.5  | M16.5 |         |       |

TOOLS & ABRASIVES

## PIPE THREAD CHART

|              |         |
|--------------|---------|
| 1/16-27      | D       |
| 1/8-27       | 11/32   |
| 1/4-18       | 7/16    |
| 3/8-18       | 37/64   |
| 1/2-14       | 23/32   |
| 3/4-14       | 59/64   |
| 1-11 1/2     | 1 5/32  |
| 1 1/4-11 1/2 | 1 1/2   |
| 1 1/2-11 1/2 | 1 47/64 |
| 2-11 1/2     | 2 7/32  |

Cutting tools are Viking brand unless otherwise noted.

# JOBBER LENGTH DRILL BITS

## TYPE 240-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 240-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 240-UB comes in jobber length with round shanks.

### Fractional

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBH04 | 1/16  | 1 7/8          | 7/8          | 12            |
| HKDBH05 | 5/64  | 2              | 1            | 12            |
| HKDBH06 | 3/32  | 2 1/4          | 1 1/4        | 12            |
| HKDBH07 | 7/64  | 2 5/8          | 1 1/2        | 12            |
| HKDBH08 | 1/8   | 2 3/4          | 1 5/8        | 12            |
| HKDBH09 | 9/64  | 2 7/8          | 1 3/4        | 12            |
| HKDBH10 | 5/32  | 3 1/8          | 2            | 12            |
| HKDBH11 | 11/64 | 3 1/4          | 2 1/8        | 12            |
| HKDBH12 | 3/16  | 3 1/2          | 2 5/16       | 12            |
| HKDBH13 | 13/64 | 3 5/8          | 2 7/16       | 12            |
| HKDBH14 | 7/32  | 3 3/4          | 2 1/2        | 12            |
| HKDBH15 | 15/64 | 3 7/8          | 2 5/8        | 12            |
| HKDBH16 | 1/4   | 4              | 2 3/4        | 12            |
| HKDBH17 | 17/64 | 4 1/8          | 2 7/8        | 12            |
| HKDBH18 | 9/32  | 4 1/4          | 2 15/16      | 12            |

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBH19 | 19/64 | 4 3/8          | 3 1/16       | 6             |
| HKDBH20 | 5/16  | 4 1/2          | 3 3/16       | 6             |
| HKDBH21 | 21/64 | 4 5/8          | 3 5/16       | 6             |
| HKDBH22 | 11/32 | 4 3/4          | 3 7/16       | 6             |
| HKDBH23 | 23/64 | 4 7/8          | 3 1/2        | 6             |
| HKDBH24 | 3/8   | 5              | 3 5/8        | 6             |
| HKDBH25 | 25/64 | 5 1/8          | 3 3/4        | 6             |
| HKDBH26 | 13/32 | 5 1/4          | 3 7/8        | 6             |
| HKDBH27 | 27/64 | 5 3/8          | 3 15/16      | 6             |
| HKDBH28 | 7/16  | 5 1/2          | 4 1/16       | 6             |
| HKDBH29 | 29/64 | 5 5/8          | 4 3/16       | 6             |
| HKDBH30 | 15/32 | 5 3/4          | 4 5/16       | 6             |
| HKDBH31 | 31/64 | 5 7/8          | 4 3/8        | 6             |
| HKDBH32 | 1/2   | 6              | 4 1/2        | 6             |

For drill bits larger than 1/2" see Type 280UB 1/2" shank drill bits.

### Wire

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBH#01 | #1   | 3 7/8          | 2 5/8        | 12            |
| HKDBH#02 | #2   | 3 7/8          | 2 5/8        | 12            |
| HKDBH#03 | #3   | 3 3/4          | 2 1/2        | 12            |
| HKDBH#04 | #4   | 3 3/4          | 2 1/2        | 12            |
| HKDBH#05 | #5   | 3 3/4          | 2 1/2        | 12            |
| HKDBH#06 | #6   | 3 3/4          | 2 1/2        | 12            |
| HKDBH#07 | #7   | 3 5/8          | 2 7/16       | 12            |
| HKDBH#08 | #8   | 3 5/8          | 2 7/16       | 12            |
| HKDBH#10 | #10  | 3 5/8          | 2 7/16       | 12            |
| HKDBH#11 | #11  | 3 1/2          | 2 5/16       | 12            |
| HKDBH#12 | #12  | 3 1/2          | 2 5/16       | 12            |
| HKDBH#13 | #13  | 3 1/2          | 2 5/16       | 12            |
| HKDBH#15 | #15  | 3 3/8          | 2 3/16       | 12            |
| HKDBH#18 | #18  | 3 1/4          | 2 1/8        | 12            |
| HKDBH#19 | #19  | 3 1/4          | 2 1/8        | 12            |
| HKDBH#20 | #20  | 3 1/4          | 2 1/8        | 12            |
| HKDBH#21 | #21  | 3 1/4          | 2 1/8        | 12            |

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBH#22 | #22  | 3 1/8          | 2            | 12            |
| HKDBH#23 | #23  | 3 1/8          | 2            | 12            |
| HKDBH#24 | #24  | 3 1/8          | 2            | 12            |
| HKDBH#25 | #25  | 3              | 1 7/8        | 12            |
| HKDBH#26 | #26  | 3              | 1 7/8        | 12            |
| HKDBH#27 | #27  | 3              | 1 7/8        | 12            |
| HKDBH#28 | #28  | 2 7/8          | 1 3/4        | 12            |
| HKDBH#29 | #29  | 2 7/8          | 1 3/4        | 12            |
| HKDBH#30 | #30  | 2 3/4          | 1 5/8        | 12            |
| HKDBH#31 | #31  | 2 3/4          | 1 5/8        | 12            |
| HKDBH#32 | #32  | 2 3/4          | 1 5/8        | 12            |
| HKDBH#33 | #33  | 2 5/8          | 1 1/2        | 12            |
| HKDBH#34 | #34  | 2 5/8          | 1 1/2        | 12            |
| HKDBH#35 | #35  | 2 5/8          | 1 1/2        | 12            |
| HKDBH#36 | #36  | 2 1/2          | 1 7/16       | 12            |
| HKDBH#37 | #37  | 2 1/2          | 1 7/16       | 12            |
| HKDBH#38 | #38  | 2 1/2          | 1 7/16       | 12            |

# JOBBER LENGTH DRILL BITS

## TYPE 240-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

### Wire

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBH#39 | #39  | 2 3/8          | 1 3/8        | 12            |
| HKDBH#40 | #40  | 2 3/8          | 1 3/8        | 12            |
| HKDBH#41 | #41  | 2 3/8          | 1 3/8        | 12            |
| HKDBH#42 | #42  | 2 1/4          | 1 1/4        | 12            |
| HKDBH#43 | #43  | 2 1/4          | 1 1/4        | 12            |
| HKDBH#44 | #44  | 2 1/8          | 1 1/8        | 12            |
| HKDBH#45 | #45  | 2 1/8          | 1 1/8        | 12            |
| HKDBH#47 | #47  | 2              | 1            | 12            |
| HKDBH#49 | #49  | 2              | 1            | 12            |
| HKDBH#50 | #50  | 2              | 1            | 12            |

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBH#51 | #51  | 2              | 1            | 12            |
| HKDBH#52 | #52  | 1 7/8          | 7/8          | 12            |
| HKDBH#53 | #53  | 1 7/8          | 7/8          | 12            |
| HKDBH#54 | #54  | 1 7/8          | 7/8          | 12            |
| HKDBH#55 | #55  | 1 7/8          | 7/8          | 12            |
| HKDBH#56 | #56  | 1 3/4          | 3/4          | 12            |
| HKDBH#57 | #57  | 1 3/4          | 3/4          | 12            |
| HKDBH#58 | #58  | 1 5/8          | 11/16        | 12            |
| HKDBH#59 | #59  | 1 5/8          | 11/16        | 12            |
| HKDBH#60 | #60  | 1 5/8          | 11/16        | 12            |

### Letter

| Part # | Size | Overall Length | Flute Length | Pack Quantity |
|--------|------|----------------|--------------|---------------|
| HKDBHA | A    | 3 7/8          | 2 5/8        | 12            |
| HKDBHB | B    | 4              | 2 3/4        | 12            |
| HKDBHC | C    | 4              | 2 3/4        | 12            |
| HKDBHD | D    | 4              | 2 3/4        | 12            |
| HKDBHE | E    | 4              | 2 3/4        | 12            |
| HKDBHF | F    | 4 1/8          | 2 7/8        | 12            |
| HKDBHG | G    | 4 1/8          | 2 7/8        | 12            |
| HKDBHH | H    | 4 1/8          | 2 7/8        | 12            |
| HKDBHI | I    | 4 1/8          | 2 7/8        | 12            |
| HKDBHJ | J    | 4 1/8          | 2 7/8        | 12            |
| HKDBHK | K    | 4 1/4          | 2 15/16      | 12            |
| HKDBHL | L    | 4 1/4          | 2 15/16      | 12            |
| HKDBHM | M    | 4 3/8          | 3 1/16       | 6             |

| Part # | Size | Overall Length | Flute Length | Pack Quantity |
|--------|------|----------------|--------------|---------------|
| HKDBHN | N    | 4 3/8          | 3 1/16       | 6             |
| HKDBHO | O    | 4 1/2          | 3 3/16       | 6             |
| HKDBHP | P    | 4 5/8          | 3 5/16       | 6             |
| HKDBHQ | Q    | 4 3/4          | 3 7/16       | 6             |
| HKDBHR | R    | 4 3/4          | 3 7/16       | 6             |
| HKDBHS | S    | 4 7/8          | 3 1/2        | 6             |
| HKDBHT | T    | 4 7/8          | 3 1/2        | 6             |
| HKDBHU | U    | 5              | 3 5/8        | 6             |
| HKDBHV | V    | 5              | 3 5/8        | 6             |
| HKDBHW | W    | 5 1/8          | 3 3/4        | 6             |
| HKDBHX | X    | 5 1/8          | 3 3/4        | 6             |
| HKDBHY | Y    | 5 1/4          | 3 7/8        | 6             |
| HKDBHZ | Z    | 5 1/4          | 3 7/8        | 6             |

## TYPE 240-UB SETS

| Part #        | # of Pieces | Description                             |
|---------------|-------------|---|
| HKDBS240UB15  | 15          | 1/16-1/2 BY 32NDS                       |
| HKDBS240UB    | 29          | 1/16-1/2 BY 64THS                       |
| HKDBS240UBU   | 29          | 1/16-1/2 BY 64THS IN AN ULTRA-DEX INDEX |
| HKDBS240UB26  | 26          | A-Z*                                    |
| HKDBS240UB60  | 60          | #1-#60*                                 |
| HKDBS240UB115 | 115         | 1/16-1/2 BY 64THS & A-Z & #1-#60*       |

\*Sets marked with an asterisk are non-stock. They have a 4-5 day lead time.



# JOBBER LENGTH DRILL BITS

## TYPE 240 • HIGH SPEED STEEL • 118° POINT



Type 240 Drill Bits are high speed steel with a black surface treatment which prevents chip welding and increases abrasion resistance. They perform well in a wide variety of ferrous metal drilling applications and are also recommended for wood and plastics. Type 240 comes in jobber length with a round shank.

### Fractional

| Part # | Size  | Overall Length | Flute Length | Pack Quantity |
|--------|-------|----------------|--------------|---------------|
| HKDB03 | 3/64  | 1 3/4          | 3/4          | 12            |
| HKDB04 | 1/16  | 1 7/8          | 7/8          | 12            |
| HKDB05 | 5/64  | 2              | 1            | 12            |
| HKDB06 | 3/32  | 2 1/4          | 1 1/4        | 12            |
| HKDB07 | 7/64  | 2 5/8          | 1 1/2        | 12            |
| HKDB08 | 1/8   | 2 3/4          | 1 5/8        | 12            |
| HKDB09 | 9/64  | 2 7/8          | 1 3/4        | 12            |
| HKDB10 | 5/32  | 3 1/8          | 2            | 12            |
| HKDB11 | 11/64 | 3 1/4          | 2 1/8        | 12            |
| HKDB12 | 3/16  | 3 1/2          | 2 5/16       | 12            |
| HKDB13 | 13/64 | 3 5/8          | 2 7/16       | 12            |
| HKDB14 | 7/32  | 3 3/4          | 2 1/2        | 12            |
| HKDB15 | 15/64 | 3 7/8          | 2 5/8        | 12            |
| HKDB16 | 1/4   | 4              | 2 3/4        | 12            |
| HKDB17 | 17/64 | 4 1/8          | 2 7/8        | 12            |

| Part # | Size  | Overall Length | Flute Length | Pack Quantity |
|--------|-------|----------------|--------------|---------------|
| HKDB18 | 9/32  | 4 1/4          | 2 15/16      | 12            |
| HKDB19 | 19/64 | 4 3/8          | 3 1/16       | 6             |
| HKDB20 | 5/16  | 4 1/2          | 3 3/16       | 6             |
| HKDB21 | 21/64 | 4 5/8          | 3 5/16       | 6             |
| HKDB22 | 11/32 | 4 3/4          | 3 7/16       | 6             |
| HKDB23 | 23/64 | 4 7/8          | 3 1/2        | 6             |
| HKDB24 | 3/8   | 5              | 3 5/8        | 6             |
| HKDB25 | 25/64 | 5 1/8          | 3 3/4        | 6             |
| HKDB26 | 13/32 | 5 1/4          | 3 7/8        | 6             |
| HKDB27 | 27/64 | 5 3/8          | 3 15/16      | 6             |
| HKDB28 | 7/16  | 5 1/2          | 4 1/16       | 6             |
| HKDB29 | 29/64 | 5 5/8          | 4 3/16       | 6             |
| HKDB30 | 15/32 | 5 3/4          | 4 5/16       | 6             |
| HKDB31 | 31/64 | 5 7/8          | 4 3/8        | 6             |
| HKDB32 | 1/2   | 6              | 4 1/2        | 6             |

### Wire

| Part #  | Size | Overall Length | Flute Length | Pack Quantity |
|---------|------|----------------|--------------|---------------|
| HKDB#04 | #4   | 3 3/4          | 2 1/2        | 12            |
| HKDB#09 | #9   | 3 5/8          | 2 7/16       | 12            |
| HKDB#12 | #12  | 3 1/2          | 3 5/16       | 12            |
| HKDB#14 | #14  | 3 3/8          | 2 3/16       | 12            |
| HKDB#16 | #16  | 3 3/8          | 2 3/16       | 12            |
| HKDB#17 | #17  | 3 3/8          | 2 3/16       | 12            |
| HKDB#26 | #26  | 3              | 1 7/8        | 12            |
| HKDB#27 | #27  | 3              | 1 7/8        | 12            |
| HKDB#33 | #33  | 2 5/8          | 1 1/2        | 12            |

| Part #  | Size | Overall Length | Flute Length | Pack Quantity |
|---------|------|----------------|--------------|---------------|
| HKDB#34 | #34  | 2 5/8          | 1 1/2        | 12            |
| HKDB#41 | #41  | 2 3/8          | 1 3/8        | 12            |
| HKDB#46 | #46  | 2 1/8          | 1 1/8        | 12            |
| HKDB#48 | #48  | 2              | 1            | 12            |
| HKDB#74 | #74  | 1              | 1/4          | 12            |
| HKDB#76 | #76  | 7/8            | 3/16         | 12            |
| HKDB#78 | #78  | 7/8            | 3/16         | 12            |
| HKDB#80 | #80  | 3/4            | 1/8          | 12            |

Don't see the number size you need? Number size drill bits are available in 4-5 days down to size #97.

## TYPE 240 SETS



| Part #   | # of Pieces | Description       |
|----------|-------------|-------------------|
| HKDBS240 | 29          | 1/16-1/2 BY 64THS |

## TYPE 240-B • HIGH SPEED STEEL • 118° POINT



Type 240-B are high speed steel with a bright finish. They perform well in a wide variety of drilling applications.

| Part #  | Size | Overall Length | Flute Length | Pack Quantity |
|---------|------|----------------|--------------|---------------|
| HKDBB12 | 3/16 | 3 1/2          | 2 5/16       | 12            |

# JOBBER LENGTH DRILL BITS & REDUCED SHANK DRILL BITS

## JOBBER LENGTH DRILL BITS

### TYPE 240-D • M42 COBALT • 135° SPLIT POINT



Type 240-D Drill Bits are manufactured from M42 high speed steel with 8% cobalt. Body and clearance are gold surface treated for maximum lubricity. The cobalt steel has a high red hardness which allows speeds up to 30% higher than regular high speed steel drills. They are recommended for use in drilling hard tough metals, free machining stainless steel, high temperature alloys, titanium, and certain plastics. They require rigidly held positive feed drilling equipment. Type 240-D comes in jobber length with round shanks.

#### Fractional

| Part #  | Size | Overall Length | Flute Length | Pack Quantity |
|---------|------|----------------|--------------|---------------|
| HKDBC04 | 1/16 | 1 7/8          | 7/8          | 12            |
| HKDBC06 | 3/32 | 2 1/4          | 1 1/4        | 12            |
| HKDBC07 | 7/64 | 2 5/8          | 1 1/2        | 12            |
| HKDBC08 | 1/8  | 2 3/4          | 1 5/8        | 12            |
| HKDBC12 | 3/16 | 3 1/2          | 2 5/16       | 12            |
| HKDBC14 | 7/32 | 3 3/4          | 2 1/2        | 12            |

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBC16 | 1/4   | 4              | 2 3/4        | 12            |
| HKDBC18 | 9/32  | 4 1/4          | 2 15/16      | 12            |
| HKDBC22 | 11/32 | 4 3/4          | 3 7/16       | 6             |
| HKDBC26 | 13/32 | 5 1/4          | 3 7/8        | 6             |
| HKDBC30 | 15/32 | 5 3/4          | 4 5/16       | 6             |
| HKDBC32 | 1/2   | 6              | 4 1/2        | 6             |

Don't see the size you need? Non-stock sizes are available in 4-5 days.

## REDUCED SHANK DRILL BITS

### TYPE 278-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



#### Fractional

| Part #    | Size | Overall Length | Flute Length | Pack Quantity |
|-----------|------|----------------|--------------|---------------|
| HKDBHRS32 | 1/2  | 6              | 4 1/2        | 6             |

Type 278-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 278-UB has a 3/8" reduced round shank.

### TYPE 280-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



#### Fractional

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBH33 | 33/64 | 6              | 3 1/8        | 1             |
| HKDBH34 | 17/32 | 6              | 3 1/8        | 1             |
| HKDBH35 | 35/64 | 6              | 3 1/8        | 1             |
| HKDBH36 | 9/16  | 6              | 3 1/8        | 1             |
| HKDBH37 | 37/64 | 6              | 3 1/8        | 1             |
| HKDBH38 | 19/32 | 6              | 3 1/8        | 1             |
| HKDBH39 | 39/64 | 6              | 3 1/8        | 1             |

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBH40 | 5/8   | 6              | 3 1/8        | 1             |
| HKDBH41 | 41/64 | 6              | 3 1/8        | 1             |
| HKDBH42 | 21/32 | 6              | 3 1/8        | 1             |
| HKDBH43 | 43/64 | 6              | 3 1/8        | 1             |
| HKDBH44 | 11/16 | 6              | 3 1/8        | 1             |
| HKDBH45 | 45/64 | 6              | 3 1/8        | 1             |
| HKDBH46 | 23/32 | 6              | 3 1/8        | 1             |

Type 280-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 280-UB has a 1/2" reduced shank with 3 flats on the shank.



# REDUCED SHANK DRILL BITS

## TYPE 280-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

### Fractional

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBH47 | 47/64 | 6              | 3 1/8        | 1             |
| HKDBH48 | 3/4   | 6              | 3 1/8        | 1             |
| HKDBH49 | 49/64 | 6              | 3 1/8        | 1             |
| HKDBH50 | 25/32 | 6              | 3 1/8        | 1             |
| HKDBH51 | 51/64 | 6              | 3 1/8        | 1             |
| HKDBH52 | 13/16 | 6              | 3 1/8        | 1             |
| HKDBH53 | 53/64 | 6              | 3 1/8        | 1             |
| HKDBH54 | 27/32 | 6              | 3 1/8        | 1             |
| HKDBH55 | 55/64 | 6              | 3 1/8        | 1             |
| HKDBH56 | 7/8   | 6              | 3 1/8        | 1             |
| HKDBH57 | 57/64 | 6              | 3 1/8        | 1             |
| HKDBH58 | 29/32 | 6              | 3 1/8        | 1             |
| HKDBH59 | 59/64 | 6              | 3 1/8        | 1             |
| HKDBH60 | 15/16 | 6              | 3 1/8        | 1             |
| HKDBH61 | 61/64 | 6              | 3 1/8        | 1             |

| Part #  | Size   | Overall Length | Flute Length | Pack Quantity |
|---------|--------|----------------|--------------|---------------|
| HKDBH62 | 31/32  | 6              | 3 1/8        | 1             |
| HKDBH63 | 63/64  | 6              | 3 1/8        | 1             |
| HKDBH64 | 1      | 6              | 3 1/8        | 1             |
| HKDBH66 | 1 1/32 | 6              | 3 1/8        | 1             |
| HKDBH68 | 1 1/16 | 6              | 3 1/8        | 1             |
| HKDBH70 | 1 3/32 | 6              | 3 1/8        | 1             |
| HKDBH72 | 1 1/8  | 6              | 3 1/8        | 1             |
| HKDBH74 | 1 5/32 | 6              | 3 1/8        | 1             |
| HKDBH76 | 1 3/16 | 6              | 3 1/8        | 1             |
| HKDBH80 | 1 1/4  | 6              | 3 1/8        | 1             |
| HKDBH84 | 1 5/16 | 6              | 3 1/8        | 1             |
| HKDBH88 | 1 3/8  | 6              | 3            | 1             |
| HKDBH92 | 1 7/16 | 6              | 3            | 1             |
| HKDBH96 | 1 1/2  | 6              | 3            | 1             |

### TYPE 280-UB • SETS

| Part #      | # of Pieces | Description       |
|-------------|-------------|-------------------|
| HKDBS280UB4 | 4           | 9/16, 5/8, 3/4, 1 |
| HKDBS280UB8 | 8           | 9/16-1 BY 1/16THS |



## TYPE 281-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 281-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 281-UB has a 3/4 reduced round shank.

### Fractional

| Part #   | Size  | Overall Length | Flute Length | Pack Quantity |
|----------|-------|----------------|--------------|---------------|
| HKDBH656 | 7/8   | 5 1/2          | 3 1/4        | 1             |
| HKDBH664 | 1     | 5 1/2          | 3 1/4        | 1             |
| HKDBH672 | 1 1/8 | 5 27/32        | 3 1/2        | 1             |
| HKDBH688 | 1 3/8 | 5 29/32        | 3 1/2        | 1             |

# MECHANICS LENGTH DRILL BITS

## TYPE 250-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 250-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 250-UB comes in a mechanic length with 3 flats on the shank.

### Fractional

| Part #  | Size  | Overall Length | Flute Length | Pack Quantity |
|---------|-------|----------------|--------------|---------------|
| HKDBM04 | 1/16  | 1 7/8          | 7/8          | 12            |
| HKDBM05 | 5/64  | 2              | 1            | 12            |
| HKDBM06 | 3/32  | 2 1/4          | 1 1/4        | 12            |
| HKDBM07 | 7/64  | 2 3/8          | 1 5/16       | 12            |
| HKDBM08 | 1/8   | 2 1/2          | 1 7/16       | 12            |
| HKDBM09 | 9/64  | 2 5/8          | 1 9/16       | 12            |
| HKDBM10 | 5/32  | 2 3/4          | 1 11/16      | 12            |
| HKDBM11 | 11/64 | 2 7/8          | 1 13/16      | 12            |
| HKDBM12 | 3/16  | 3              | 1 7/8        | 12            |
| HKDBM13 | 13/64 | 3 1/8          | 1 15/16      | 12            |
| HKDBM14 | 7/32  | 3 1/4          | 2            | 12            |
| HKDBM15 | 15/64 | 3 3/8          | 2 1/16       | 12            |
| HKDBM16 | 1/4   | 3 1/2          | 2            | 12            |
| HKDBM17 | 17/64 | 3 5/8          | 2 1/8        | 12            |
| HKDBM18 | 9/32  | 3 3/4          | 2 1/4        | 12            |
| HKDBM19 | 19/64 | 3 7/8          | 2 3/8        | 6             |
| HKDBM20 | 5/16  | 4              | 2 1/2        | 6             |
| HKDBM21 | 21/64 | 4 1/16         | 2 9/16       | 6             |
| HKDBM22 | 11/32 | 4 1/8          | 2 5/8        | 6             |
| HKDBM23 | 23/64 | 4 3/16         | 2 11/16      | 6             |
| HKDBM24 | 3/8   | 4 1/4          | 2 11/16      | 6             |
| HKDBM25 | 25/64 | 4 5/16         | 2 3/4        | 6             |
| HKDBM26 | 13/32 | 4 3/8          | 2 13/16      | 6             |
| HKDBM27 | 27/64 | 4 7/16         | 2 7/8        | 6             |
| HKDBM28 | 7/16  | 4 1/2          | 2 15/16      | 6             |
| HKDBM29 | 29/64 | 4 5/8          | 3            | 6             |
| HKDBM30 | 15/32 | 4 3/4          | 3 1/8        | 6             |
| HKDBM31 | 31/64 | 4 7/8          | 3 1/4        | 6             |
| HKDBM32 | 1/2   | 5              | 3 3/8        | 6             |

## TYPE 250-UB • SETS

| Part #       | # of Pieces | Description                             |
|--------------|-------------|---|
| HKDBS250UB15 | 15          | 1/16-1/2 BY 32NDS                       |
| HKDBS250UB   | 29          | 1/16-1/2 BY 64THS                       |
| HKDBS250UBU  | 29          | 1/16-1/2 BY 64THS IN AN ULTRA-DEX INDEX |



# SCREW MACHINE LENGTH DRILL BITS

## TYPE 260-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 260-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 260-UB comes in a screw machine length with a round shank.

### Fractional

| Part #   | Size  | Overall Length | Flute Length | Pack Quantity |
|----------|-------|----------------|--------------|---------------|
| HKDBSH08 | 1/8   | 1 7/8          | 7/8          | 12            |
| HKDBSH09 | 9/64  | 1 15/16        | 15/16        | 12            |
| HKDBSH12 | 3/16  | 2 3/16         | 1 1/8        | 12            |
| HKDBSH13 | 13/64 | 2 1/4          | 1 3/16       | 12            |
| HKDBSH16 | 1/4   | 2 1/2          | 1 3/8        | 12            |
| HKDBSH18 | 9/32  | 2 11/16        | 1 1/2        | 12            |
| HKDBSH20 | 5/16  | 2 13/16        | 1 5/8        | 6             |

### Wire

| Part #    | Size | Overall Length | Flute Length | Pack Quantity |
|-----------|------|----------------|--------------|---------------|
| HKDBSH#29 | #29  | 1 15/16        | 15/16        | 12            |

## TYPE 260 • HIGH SPEED STEEL • 118° POINT



Type 260 are high speed steel with a bright finish. The short length makes them especially rigid for greater drilling accuracy. They perform well in a wide variety of drilling applications.

### Fractional

| Part #  | Size | Overall Length | Flute Length | Pack Quantity |
|---------|------|----------------|--------------|---------------|
| HKDBS08 | 1/8  | 1 7/8          | 7/8          | 12            |
| HKDBS09 | 9/64 | 1 15/16        | 15/16        | 12            |
| HKDBS10 | 5/32 | 2 1/16         | 1            | 12            |
| HKDBS12 | 3/16 | 2 3/16         | 1 1/8        | 12            |

### Wire

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBS#30 | #30  | 1 15/16        | 15/16        | 12            |

Don't see the size you need? Non-stock sizes are available in 4-5 days.

# EXTRA LENGTH DRILL BITS

## TYPE XGT-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

### Fractional

| Part #   | Size      | Flute Length | Pack Quantity |
|----------|-----------|--------------|---------------|
| HKDBH116 | 11/64 X 6 | 4            | 3             |
| HKDBH136 | 13/64 X 6 | 4            | 3             |
| HKDBH146 | 7/32 X 6  | 4            | 3             |
| HKDBH166 | 1/4 X 6   | 4            | 3             |
| HKDBH186 | 9/32 X 6  | 4            | 3             |
| HKDBH206 | 5/16 X 6  | 4            | 3             |
| HKDBH226 | 11/32 X 6 | 4            | 3             |
| HKDBH089 | 1/8 X 9   | 6            | 3             |
| HKDBH169 | 1/4 X 9   | 6            | 3             |
| HKDBH189 | 9/32 X 9  | 6            | 3             |
| HKDBH209 | 5/16 X 9  | 6            | 3             |
| HKDBH229 | 11/32 X 9 | 6            | 3             |
| HKDBH249 | 3/8 X 9   | 6            | 3             |



Type XGT-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Gyroidal torsion flute and land construction yields exceptional performance in deep hole drilling applications. Type XGT-UB comes with a round shank.

## TYPE 211 • AIRCRAFT TYPE B • HIGH SPEED STEEL • 135° SPLIT POINT

### Fractional

| Part #  | Size     | Flute Length | Pack Quantity |
|---------|----------|--------------|---------------|
| HKDB086 | 1/8 X 6  | 1 5/8        | 6             |
| HKDB096 | 9/64 X 6 | 1 3/4        | 6             |
| HKDB106 | 5/32 X 6 | 2            | 6             |
| HKDB126 | 3/16 X 6 | 2 5/16       | 6             |
| HKDB146 | 7/32 X 6 | 2 1/2        | 6             |
| HKDB166 | 1/4 X 6  | 2 3/4        | 6             |
| HKDB206 | 5/16 X 6 | 3 3/16       | 6             |
| HKDB246 | 3/8 X 6  | 3 5/8        | 6             |



Type 211 are high speed steel drill bits. They have a black oxide surface treatment for increased lubricity and enhanced chip removal. They are used especially for drilling holes in hard to reach places.

## TYPE 212 • WELDED CONSTRUCTION • HIGH SPEED STEEL • 135° SPLIT POINT

### Fractional

| Part #   | Size      | Flute Length | Pack Quantity |
|----------|-----------|--------------|---------------|
| HKDB1612 | 1/4 X 12  | 2 3/4        | 1             |
| HKDB2012 | 5/16 X 12 | 3 3/16       | 1             |
| HKDB2412 | 3/8 X 12  | 3 5/8        | 1             |
| HKDB3212 | 1/2 X 12  | 4 1/2        | 1             |

Type 212 are high speed steel drill bits. They have a black oxide surface treatment for increased lubricity and enhanced chip removal. They are used especially for drilling holes in hard to reach places.

## TYPE 210 • TAPER LENGTH • HIGH SPEED STEEL • 118° POINT

### Fractional

| Part #  | Size         | Flute Length | Pack Quantity |
|---------|--------------|--------------|---------------|
| HKDBT09 | 9/64 X 5 3/8 | 3            | 12            |
| HKDBT12 | 3/16 X 5 3/4 | 3 3/8        | 12            |
| HKDBT32 | 1/2 X 7 3/4  | 4 3/4        | 1             |

Type 210 are high speed steel drill bits. They have a bright finish. They are recommended for mild drilling applications where longer drill bits are required.

### Wire

| Part #   | Size        | Flute Length | Pack Quantity |
|----------|-------------|--------------|---------------|
| HKDBT#25 | #25 X 5 3/8 | 3            | 12            |

# LEFT HAND DRILL BITS & BOLT EXTRACTORS

## LEFT HAND DRILL BITS

### TYPE 240-AL • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 240-AL Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are ideal for removing broken studs. Type 240-AL comes in jobber length with a round shank.

### Fractional

| Part #    | Size  | Overall Length | Flute Length | Pack Quantity |
|-----------|-------|----------------|--------------|---------------|
| HKDBHLH04 | 1/16  | 1 7/8          | 7/8          | 6             |
| HKDBHLH05 | 5/64  | 2              | 1            | 6             |
| HKDBHLH06 | 3/32  | 2 1/4          | 1 1/4        | 6             |
| HKDBHLH07 | 7/64  | 2 5/8          | 1 1/2        | 6             |
| HKDBHLH08 | 1/8   | 2 3/4          | 1 5/8        | 6             |
| HKDBHLH09 | 9/64  | 2 7/8          | 1 3/4        | 6             |
| HKDBHLH10 | 5/32  | 3 1/8          | 2            | 6             |
| HKDBHLH11 | 11/64 | 3 1/4          | 2 1/8        | 6             |
| HKDBHLH12 | 3/16  | 3 1/2          | 2 5/16       | 6             |
| HKDBHLH13 | 13/64 | 3 5/8          | 2 7/16       | 6             |
| HKDBHLH14 | 7/32  | 3 3/4          | 2 1/2        | 6             |
| HKDBHLH15 | 15/64 | 3 7/8          | 2 5/8        | 6             |

| Part #    | Size  | Overall Length | Flute Length | Pack Quantity |
|-----------|-------|----------------|--------------|---------------|
| HKDBHLH16 | 1/4   | 4              | 2 3/4        | 6             |
| HKDBHLH18 | 9/32  | 4 1/4          | 2 15/16      | 6             |
| HKDBHLH19 | 19/64 | 4 3/8          | 3 1/16       | 3             |
| HKDBHLH20 | 5/16  | 4 1/2          | 3 3/16       | 3             |
| HKDBHLH22 | 11/32 | 4 3/4          | 3 1/2        | 3             |
| HKDBHLH23 | 23/64 | 4 7/8          | 3 1/2        | 3             |
| HKDBHLH24 | 3/8   | 5              | 3 5/8        | 3             |
| HKDBHLH26 | 13/32 | 5 1/4          | 3 7/8        | 3             |
| HKDBHLH27 | 27/64 | 5 3/8          | 3 15/16      | 3             |
| HKDBHLH28 | 7/16  | 5 1/2          | 4 1/16       | 3             |
| HKDBHLH30 | 15/32 | 5 3/4          | 4 5/16       | 3             |
| HKDBHLH32 | 1/2   | 6              | 4 1/2        | 3             |

TOOLS & ABRASIVES

## BOLT EXTRACTORS

### TYPE 420 • HI-CARBON STEEL • SPIRAL STYLE



Type 420 Screw & Pipe Extractors Spiral Style remove broken screws, bolts, studs, and pipes without damage to threads.

| Part # | Extractor # | To Remove Screw Dia.   | Point Diameter | Shank Size | Drill Size | Pack Quantity |
|--------|-------------|------------------------|----------------|------------|------------|---------------|
| HKBES2 | EX-2        | 5/32 TO 7/32           | .080           | 3/16       | 7/64       | 5             |
| HKBES3 | EX-3        | 7/32 TO 9/32           | 1/8            | 1/4        | 5/32       | 5             |
| HKBES4 | EX-4        | 9/32 TO 3/8 & 1/8 PIPE | 3/16           | 5/16       | 1/4        | 5             |
| HKBES5 | EX-5        | 3/8 TO 5/8 & 1/4 PIPE  | 1/4            | 7/16       | 17/64      | 5             |

### TYPE 421-UB • FORGED HI-CARBON STEEL SUPER PREMIUM • SQUARE STYLE



Type 421-UB Studout™ Screw & Pipe Extractors Square Style remove broken screws, bolts, studs, and pipes with minimal deformation of the broken part. The square style also will not chew up or expand the object being removed.

| Part #  | Extractor # | To Remove Screw Dia. | Point Diameter | Shank Size | Drill Size | Pack Quantity |
|---------|-------------|----------------------|----------------|------------|------------|---------------|
| HKBESQ2 | E-2         | 9/32-11/32           | 11/64          | 1/4        | 3/16       | 5             |
| HKBESQ3 | E-3         | 11/32-1/2            | 7/32           | 5/16       | 1/4        | 5             |

**To remove the broken threaded part:** Drill a hole in the end of the broken part (left hand drills are recommended), then turn counterclockwise using a wrench on the exposed end of the extractor.

# QUICK RELEASE DRILL BITS & MASONRY DRILL BITS

## QUICK RELEASE DRILL BITS

### TYPE QR-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type QR-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. The 1/4" quick release hex shank suits them especially for hand held drills and impact tools. Type QR-UB are mechanics length.

#### Fractional

| Part #   | Size | Overall Length | Flute Length | Pack Quantity |
|----------|------|----------------|--------------|---------------|
| HKDBQR16 | 1/4  | 4              | 2            | 6             |
| HKDBQR20 | 5/16 | 4              | 2 1/2        | 3             |
| HKDBQR24 | 3/8  | 4 1/4          | 2 11/16      | 3             |

Don't see the size you need? Non-stock sizes are available in 4-5 days.

## MASONRY DRILL BITS

### TAPCON™ STYLE

#### Fractional

| Part #    | Size         | Pack Quantity |
|-----------|--------------|---------------|
| HKDBM1036 | 5/32 X 4 1/2 | 1             |
| HKDBM1044 | 5/32 X 5 1/2 | 1             |
| HKDBM1236 | 3/16 X 4 1/2 | 1             |



Tapcon™ Style Drill Bits are constructed of hardened alloy steel with a close tolerance carbide tip. They are designed especially for drilling holes for masonry anchor screws with self tapping threads.

### TYPE 390 • ROTARY STYLE • CARBIDE TIPPED

#### Fractional

| Part #    | Size     | Pack Quantity |
|-----------|----------|---------------|
| HKDBM1232 | 3/16 X 4 | 12            |
| HKDBM1248 | 3/16 X 6 | 12            |
| HKDBM1648 | 1/4 X 6  | 12            |
| HKDBM2048 | 5/16 X 6 | 6             |
| HKDBM2448 | 3/8 X 6  | 6             |
| HKDBM2848 | 7/16 X 6 | 6             |
| HKDBM3248 | 1/2 X 6  | 6             |



Type 390 Masonry Drill Bits are made with hardened steel bodies and are bright finished. They don't require any special equipment. Use them in any electric drill. They will drill through brick, tile, concrete, and marble.

## SDS SHANK IMPACT HAMMER

#### Fractional

| Part #       | Size         | Pack Quantity |
|--------------|--------------|---------------|
| HKDBMSDS126  | 3/16 X 6 1/4 | 1             |
| HKDBMSDS128  | 3/16 X 8 1/4 | 1             |
| HKDBMSDS169  | 1/4 X 9      | 1             |
| HKDBMSDS2410 | 3/8 X 10     | 1             |
| HKDBMSDS2412 | 3/8 X 12     | 1             |
| HKDBMSDS3210 | 1/2 X 10 1/4 | 1             |
| HKDBMSDS3212 | 1/2 X 12 1/4 | 1             |
| HKDBMSDS4012 | 5/8 X 12     | 1             |
| HKDBMSDS488  | 3/4 X 8      | 1             |
| HKDBMSDS4812 | 3/4 X 12     | 1             |



Impact Hammer Drills with an SDS Shank fit all rotary hammer drills that specify an SDS shank. The positive drive slots deliver maximum torque and hammering energy for faster drilling. They perform excellently over a wide variety of masonry applications.

# TAPER SHANK AND HARD STEEL DRILL BITS & METRIC DRILL BITS

## TAPER SHANK DRILL BITS

### TYPE 510 • HIGH SPEED STEEL • 118° POINT

#### Fractional

| Part #   | Size  | Overall Length | Flute Length | Taper Size |
|----------|-------|----------------|--------------|------------|
| HKDBTS44 | 11/16 | 9 1/4          | 5 3/8        | 2          |
| HKDBTS46 | 23/32 | 9 1/2          | 5 5/8        | 2          |



Taper Shank Drill Bits are high speed steel drill bits. They are designed to fit tapered holders. The clearance and flutes are black oxide surface treated. They are designed to perform well in a wide range of materials.

## HARD STEEL DRILL BITS

### TYPE 602 • STRAIGHT FLUTE • CARBIDE TIPPED

#### Fractional

| Part #       | Size | Overall Length | Pack Quantity |
|--------------|------|----------------|---------------|
| HKDBHS082.75 | 1/8  | 2 3/4          | 1             |
| HKDBHS123    | 3/16 | 3              | 1             |
| HKDBHS166    | 1/4  | 6              | 1             |
| HKDBHS206    | 5/16 | 6              | 1             |
| HKDBHS246    | 3/8  | 6              | 1             |
| HKDBHS326    | 1/2  | 6              | 1             |



Type 602 Hard Steel Drill Bits are made for use in drilling hardened steel in the range of 48 to 65 Rockwell C. They are used for drilling broken studs, springs, bolts, die sections, broken easy outs, extra tough or exotic metals, and brake drums.

## METRIC DRILL BITS

### TYPE 643-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT

#### Metric

| Part #    | Size | Overall Length | Flute Length   | Pack Quantity |
|-----------|------|----------------|----------------|---------------|
| HKMDBH03  | M3   | 2 3/4 (70MM)   | 1 5/8 (41MM)   | 10            |
| HKMDBH04  | M4   | 3 1/4 (83MM)   | 2 1/8 (54MM)   | 10            |
| HKMDBH045 | M4.5 | 3 3/8 (86MM)   | 2 13/64 (56MM) | 10            |
| HKMDBH05  | M5   | 3 5/8 (92MM)   | 2 7/16 (62MM)  | 10            |
| HKMDBH06  | M6   | 4 (102MM)      | 2 3/4 (70MM)   | 10            |
| HKMDBH067 | M6.7 | 4 1/8 (105MM)  | 2 7/8 (73MM)   | 10            |
| HKMDBH08  | M8   | 4 1/2 (114MM)  | 3 3/16 (81MM)  | 5             |
| HKMDBH085 | M8.5 | 4 3/4 (121MM)  | 3 27/64 (87MM) | 5             |
| HKMDBH09  | M9   | 4 7/8 (124MM)  | 3 1/2 (89MM)   | 5             |
| HKMDBH10  | M10  | 5 1/8 (130MM)  | 3 3/4 (95MM)   | 5             |



Type 643-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. They are recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. Type 643-UB comes in jobber length with round shanks.

# STEP DRILL BITS & COUNTERSINK/DRILL COMBOS

## STEP DRILL BITS

### TYPE 78-UB • ULTRA BOR SUPER PREMIUM • 135° SPLIT POINT



Type 78-UB Drill Bits are made of special Hi-Molybdenum tool steel. Body and clearance are gold surface treated for maximum lubricity. They are heat treated at 2185° F and then nitro-carburize finished at 950° F to be measurably harder than high-speed steel. The 135° split point gives fast penetration and accurate starting without the use of a center punch. Type 78-UB comes with 3 flats on the shank.

| Part #   | Size     | Shank Size | Step Increments | Step Thickness |
|----------|----------|------------|-----------------|----------------|
| HKSD1232 | 3/16-1/2 | 1/4        | 1/16            | 3/8            |
| HKSD0832 | 1/8-1/2  | 1/4        | 1/32            | 1/8            |

\*This size does not have a drill point.

### HIGH SPEED STEEL • 118° POINT



These High Speed Steel Step Drills are Ruko Brand. They come with a bright finish and are made in Germany.

| Part #   | Size      | Shank Size | Step Increments | Step Thickness |
|----------|-----------|------------|-----------------|----------------|
| HKSD1648 | 1/4-3/4   | 3/8        | 1/16            | 5/32           |
| HKSD1256 | 3/16-7/8  | 3/8        | 1/16            | 5/32           |
| HKSD2664 | 5/16-1*   | 3/8        | 1/16            | 5/32           |
| HKSD5688 | 7/8-1 3/8 | 3/8        | -               | -              |

\*Steps for this size are 5/16, 13/32 & 9/16 to 1 by 1/16.

## COUNTERSINK/DRILL COMBOS

### TYPE 296 • HIGH SPEED STEEL • 118° POINT



Type 296 Countersink/Drill Combos provide an easy way to drill your hole and countersink it in thin materials.

| Part # | Size | Body Diameter | Drill Dia. & Length | Overall Length | Pack Quantity |
|--------|------|---------------|---------------------|----------------|---------------|
| HKCS3  | 3    | 1/4           | 7/64 X 7/64         | 2              | 12            |
| HKCS4  | 4    | 5/16          | 1/8 X 1/8           | 2 1/8          | 6             |
| HKCS5  | 5    | 7/16          | 3/16 X 3/16         | 2 3/4          | 6             |

Don't see the size you need? Non-stock sizes are available in 4-5 days.



# DRILL BIT CABINET & TAPS

## DRILL BIT CABINET

Drill Bit Cabinets are an all-steel, sturdy construction cabinet. All compartments are permanently marked with size for easy identification.

| Part # | Size   |
|--------|--|
| EQDBRK | CABINET FOR FRACTIONAL SIZES 1/16-1/2 BY 64THS |

Drill bit cabinets are also available for wire sizes, letter sizes, metric sizes, larger sizes, and taps. Lead time is 4-5 days.



## TAPS

### TYPE 20-UB • ULTRA BOR SUPER PREMIUM • SPIRAL POINT • PLUG STYLE



#### Coarse Thread

| Part # | Thread  | Drill Size | Flutes | Pack Quantity |
|--------|---------|------------|--------|---------------|
| HKT004 | 4-40    | #43        | 2      | 3             |
| HKT005 | 5-40    | #38        | 2      | 3             |
| HKT006 | 6-32    | #36        | 2      | 3             |
| HKT008 | 8-32    | #29        | 2      | 3             |
| HKT12  | 10-24   | #25        | 2      | 3             |
| HKT012 | 12-24   | #16        | 2      | 3             |
| HKT16  | 1/4-20  | #7         | 2      | 3             |
| HKT20  | 5/16-18 | F          | 2      | 3             |
| HKT24  | 3/8-16  | 5/16       | 3      | 3             |
| HKT28  | 7/16-14 | U          | 3      | 3             |
| HKT32  | 1/2-13  | 27/64      | 3      | 3             |
| HKT40  | 5/8-11  | 17/32      | 3      | 1             |
| HKT48  | 3/4-10  | 21/32      | 3      | 1             |
| HKT56  | 7/8-9   | 49/64      | 3      | 1             |

Type 20-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Spiral point construction drives the chips ahead of the tap, permitting higher speeds with less torque. They are recommended for hard steel, aluminum, magnesium, and malleable cast iron and are ideal for production tapping of through holes.

#### Fine Thread

| Part #  | Thread  | Drill Size | Flutes | Pack Quantity |
|---------|---------|------------|--------|---------------|
| HKTF010 | 10-32   | #21        | 2      | 3             |
| HKTF16  | 1/4-28  | #3         | 2      | 3             |
| HKTF20  | 5/16-24 | I          | 2      | 3             |
| HKTF24  | 3/8-24  | Q          | 3      | 3             |
| HKTF28  | 7/16-20 | 25/64      | 3      | 3             |
| HKTF32  | 1/2-20  | 29/64      | 3      | 3             |

### TYPE 20 • GENERAL PURPOSE • SPIRAL POINT • PLUG STYLE



#### Coarse Thread

| Part #   | Thread | Drill Size | Flutes | Pack Quantity |
|----------|--------|------------|--------|---------------|
| HKT20008 | 8-32   | #29        | 2      | 3             |

Type 20 Taps are high speed steel taps with a bright polished finish. Spiral point construction drives the chips ahead of the tap, permitting higher speeds with less torque. They are recommended for higher tensile strength production tapping applications and are ideal for production tapping of through holes.

# TAPS

## TYPE 25-UB • ULTRA BOR SUPER PREMIUM • BOTTOMING STYLE



Type 25-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Bottoming style has only 1 1/2 threads chamfered. Use when tapping threads to the bottom of a hole.

### Coarse Thread

| Part # | Thread  | Drill Size | Flutes | Pack Quantity |
|--------|---------|------------|--------|---------------|
| HKTB16 | 1/4-20  | #7         | 4      | 3             |
| HKTB20 | 5/16-18 | F          | 4      | 3             |
| HKTB24 | 3/8-16  | 5/16       | 4      | 3             |
| HKTB28 | 7/16-14 | U          | 4      | 3             |
| HKTB32 | 1/2-13  | 27/64      | 4      | 3             |

### Fine Thread

| Part #  | Thread  | Drill Size | Flutes | Pack Quantity |
|---------|---------|------------|--------|---------------|
| HKTBF28 | 7/16-20 | 25/64      | 4      | 3             |

## MACHINE TAPS

### Coarse Thread

| Part #    | Thread          | Drill Size | Flutes | Pack Quantity |
|-----------|-----------------|------------|--------|---------------|
| TRT265516 | 5/16-18 X 3 1/2 | F          | 3      | 1             |

These Machine Taps are Ruko brand. They are made of cobalt alloyed high speed steel with a bright finish. They are extra long for difficult to reach places.

## TYPE 30-UB • TAPER PIPE • ULTRA BOR SUPER PREMIUM • PLUG STYLE

### National Pipe Thread

| Part # | Thread | Flutes | Pack Quantity |
|--------|--------|--------|---------------|
| HKTPT2 | 1/8-27 | 4      | 3             |
| HKTPT4 | 1/4-18 | 4      | 3             |
| HKTPT8 | 1/2-14 | 4      | 1             |



Type 30-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, threads black surface treated for wear resistance, body gold surface treated. Plug style has 3-5 threads chamfered.

## DIE & TAP

### Professional Quality Die Stock

| Part #  | For Die Size                |
|---------|-----------------------------|
| HKDSP16 | 1" HEX OR 1" ROUND          |
| HKDSP23 | 1 7/16" HEX OR 1 1/2" ROUND |

### Professional Quality Tap Wrench

| Part #   | For Tap Size       |
|----------|--------------------|
| HKTRW048 | #4 TO 1/2          |
| HKTRW412 | 1/4-3/4 OR 3/8 NPT |



# DIES & METRIC TAPS

## DIES

### TYPE 27-UB • ULTRA BOR SUPER PREMIUM • HEX



Type 27-UB Dies are manufactured from Hi-Molybdenum tool steel. They have a polished gold finish on the body with black surface treated threads for long life. They are used for threading rods, bolts, studs, and other external threads. The hex configuration allows both wrench and die stock use in threading.

#### Coarse Thread

| Part # | Thread  | Across Flats | Pack Quantity |
|--------|---------|--------------|---------------|
| HKD006 | 6-32    | 1            | 3             |
| HKD008 | 8-32    | 1            | 3             |
| HKD12  | 10-24   | 1            | 3             |
| HKD16  | 1/4-20  | 1            | 3             |
| HKD20  | 5/16-18 | 1            | 3             |
| HKD24  | 3/8-16  | 1            | 3             |
| HKD28  | 7/16-14 | 1            | 3             |
| HKD32  | 1/2-13  | 1            | 3             |
| HKD40  | 5/8-11  | 1 7/16       | 1             |
| HKD48  | 3/4-10  | 1 7/16       | 1             |

#### Fine Thread

| Part # | Thread  | Across Flats | Pack Quantity |
|--------|---------|--------------|---------------|
| HKDF12 | 10-32   | 1            | 3             |
| HKDF16 | 1/4-28  | 1            | 3             |
| HKDF20 | 5/16-24 | 1            | 3             |
| HKDF24 | 3/8-24  | 1            | 3             |
| HKDF28 | 7/16-20 | 1            | 3             |
| HKDF32 | 1/2-20  | 1            | 3             |

## METRIC TAPS

### TYPE 21-UB • ULTRA BOR SUPER PREMIUM • SPIRAL POINT • PLUG STYLE

#### Coarse Thread

| Part # | Thread   | Drill Size | Flutes | Pack Quantity |
|--------|----------|------------|--------|---------------|
| HKMT04 | M4-0.7   | M3.3       | 2      | 3             |
| HKMT05 | M5-0.8   | M4.2       | 2      | 3             |
| HKMT06 | M6-1.0   | M5         | 2      | 3             |
| HKMT07 | M7-1.0   | M6         | 2      | 3             |
| HKMT08 | M8-1.25  | H          | 2      | 3             |
| HKMT10 | M10-1.5  | M8.5       | 3      | 3             |
| HKMT12 | M12-1.75 | Y          | 3      | 3             |
| HKMT16 | M16-2.0  | M14        | 3      | 1             |



Type 21-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Spiral point construction drives the chips ahead of the tap, permitting higher speeds with less torque. They are recommended for hard steel, aluminum, magnesium, and malleable cast iron and are ideal for production tapping of through holes.

### TYPE 31-UB • ULTRA BOR SUPER PREMIUM • TAPER STYLE

#### Fine Thread

| Part #   | Thread   | Drill Size | Flutes | Pack Quantity |
|----------|----------|------------|--------|---------------|
| HKMTFT10 | M10-1.25 | 11/32      | 4      | 3             |



Type 31-UB Taps are manufactured from special Hi-Tungsten and Hi-Molybdenum tool steels, gold surface treated for maximum lubricity. Taper style taps have 8-10 chamfered threads and are ideal for starting threads square and in places where threads are tough to start.

# METRIC TAPS, METRIC DIES & REAMERS

## METRIC TAPS

### TYPE 780 • HI-CARBON • PLUG STYLE



Type 780 Taps are manufactured from tough carbon steel. They are ideal where a low cost tap is desired.

#### Coarse Thread

| Part #   | Thread | Drill Size | Flutes | Pack Quantity |
|----------|--------|------------|--------|---------------|
| HKMTHC04 | M4-0.7 | M3.3       | 3      | 3             |

#### Extra Fine Thread

| Part #     | Thread  | Drill Size | Flutes | Pack Quantity |
|------------|---------|------------|--------|---------------|
| HKMTEFHC10 | M10-1.0 | 23/64      | 4      | 3             |

## METRIC DIES

### TYPE 27-UB • ULTRA BOR SUPER PREMIUM • HEX



Type 27-UB Dies are manufactured from Hi-Molybdenum tool steel. They have a polished gold finish on the body with black surface treated threads for long life. They are used for threading rods, bolts, studs, and other external threads. The hex configuration allows both wrench and die stock use in threading.

#### Coarse Thread

| Part # | Thread  | Across Flats | Pack Quantity |
|--------|---------|--------------|---------------|
| HKMD04 | M4-0.7  | 1            | 3             |
| HKMD05 | M5-0.8  | 1            | 3             |
| HKMD06 | M6-1.0  | 1            | 3             |
| HKMD08 | M8-1.25 | 1            | 3             |

Don't see the size you need? Non-stock sizes are available in 4-5 days.

## REAMERS

### TYPE 50-UB • ULTRA BOR SUPER PREMIUM

| Part # | Size  | Min. Starting Hole Size | Overall Length | Shank Dia. |
|--------|-------|-------------------------|----------------|------------|
| HKR24  | 3/8   | 5/16                    | 4 5/8          | 3/8        |
| HKR32  | 1/2   | 3/8                     | 5 7/8          | 1/2        |
| HKR36  | 9/16  | 7/16                    | 5 7/8          | 1/2        |
| HKR40  | 5/8   | 7/16                    | 6 3/8          | 1/2        |
| HKR48  | 3/4   | 1/2                     | 6 3/8          | 1/2        |
| HKR56  | 7/8   | 19/32                   | 6 7/8          | 1/2        |
| HKR64  | 1     | 7/8                     | 6 7/8          | 1/2        |
| HKR80  | 1 1/4 | 1                       | 6 7/8          | 1/2        |



Type 50-UB Car Reamers are made of Hi-Tungsten tool steel. They have a gold surface treated body and clearance for maximum lubricity. They can only be used to enlarge existing holes. They have a left hand spiral with a right hand cut. The left hand spiral eliminates the tendency to hog into holes. They are especially designed for reaming structural steel plate in truck frames, rail cars, bridges, and structural steel assemblies.

# REAMERS, HOLE HOGS™ & HOLE CUTTERS

## REAMERS

### TYPE 50-UB SETS

| Part # | # of Pieces | Description        |
|--------|-------------|--------------------|
| HKRS   | 4           | 3/8, 1/2, 5/8, 3/4 |



## HOLE HOGS™

### TYPE 284-UB • ULTRA BOR SUPER PREMIUM

| Part # | Size | Min. Starting Hole Size | Overall Length | Flute Length |
|--------|------|-------------------------|----------------|--------------|
| HKHH24 | 3/8  | 1/4                     | 4 5/16         | 1 7/8        |
| HKHH32 | 1/2  | 5/16                    | 4 5/16         | 1 7/8        |
| HKHH40 | 5/8  | 25/64                   | 4 5/16         | 1 7/8        |
| HKHH48 | 3/4  | 15/32                   | 4 5/16         | 1 7/8        |



Type 284-UB Core Drills are made of Hi-Molybdenum tool steel. They have a gold surface treated body and clearance for maximum lubricity. They can only be used to enlarge existing holes. The 4 flute design eliminates the catching and hogging-in experienced with standard drills.

### HOLE HOG™ SETS

| Part #  | # of Pieces | Description                             |
|---------|-------------|---|
| HKHHS6S | 6           | 3/8, 1/2, 5/8 CORE DRILL W/PILOT DRILLS |



## HOLE CUTTERS

### TYPE CHD-UB • ULTRA BOR SUPER PREMIUM • CARBIDE TIPPED

| Part #   | Size   | Shank Size |
|----------|--------|------------|
| HKHCED14 | 7/8    | 3/8        |
| HKHCED16 | 1      | 3/8        |
| HKHCED17 | 1 1/16 | 3/8        |
| HKHCED18 | 1 1/8  | 3/8        |
| HKHCED20 | 1 1/4  | 3/8        |
| HKHCED22 | 1 3/8  | 3/8        |
| HKHCED24 | 1 1/2  | 3/8        |
| HKHCED28 | 1 3/4  | 3/8        |
| HKHCED32 | 2      | 3/8        |
| HKHCED36 | 2 1/4  | 3/8        |
| HKHCED40 | 2 1/2  | 3/8        |



Type CHD-UB Deep Hole Carbide Tipped Holecutters easily cut holes in pipe and steel plate up to 1" thick and easily produce overlapping and interrupted holes. They have a 3 flatted shank for keyless chucks. They produce holes 3 times faster than bi-metal hole saws.

Don't see the size you need? Non-stock sizes are available in 4-5 days.

# ABRASIVES



Camel Grinding Wheels offers a complete line of premium abrasives.

## CGW ABRASIVE BELTS



CGW Abrasive Belts are available in nearly any size and shape, in 12 to 1000 grit, in aluminum oxide, zirconia, ceramic, and silicone carbide materials, and with all types of backing.

| Part #           | Size       | Material       | Grit | Weight | Backing |
|------------------|------------|----------------|------|--------|---------|
| TCBA.51360R145   | 1/2 X 13   | ALUMINUM OXIDE | 60   | X      | R145    |
| TCBA.513320R145  | 1/2 X 13   | ALUMINUM OXIDE | 320  |        | R145    |
| TCBA142100A3     | 1 X 42     | ALUMINUM OXIDE | 100  | X      | R145    |
| TCBA321120A3     | 3 X 21     | ALUMINUM OXIDE | 120  | X      | R145    |
| TCBA32440A3X     | 3 X 24     | ALUMINUM OXIDE | 40   | X      | XA167   |
| TCBA623280XW341  | 6 X 232    | ALUMINUM OXIDE | 80   | X      | XW341   |
| TCBA6232120XW341 | 6 X 232    | ALUMINUM OXIDE | 120  | X      | XW341   |
| TCBA920120K35F   | 9 X 20     | ALUMINUM OXIDE | 120  | J      | K35F    |
| TCBA3760150PAOX  | 37 X 60    | ALUMINUM OXIDE | 150  | X      | PAOX    |
| TCBA3760180PAOX  | 37 X 60    | ALUMINUM OXIDE | 180  | X      | PAOX    |
| TCBA4375120XW341 | 43 X 75    | ALUMINUM OXIDE | 120  | X      | XW341   |
| TCBZ.51850Z3     | 1/2 X 18   | ZIRCONIA       | 50   | X      | R205    |
| TCBZ2.56036R205  | 2 1/2 X 60 | ZIRCONIA       | 36   | X      | R205    |
| TCBZ2.56040R205  | 2 1/2 X 60 | ZIRCONIA       | 40   | X      | R205    |
| TCBZ2.56050R205  | 2 1/2 X 60 | ZIRCONIA       | 50   | X      | R205    |
| TCBZ42440PZ628   | 4 X 24     | ZIRCONIA       | 40   |        | PZ628   |
| TCBZ46040R205    | 4 X 60     | ZIRCONIA       | 40   | X      | R205    |
| TCBZ64840Y       | 6 X 48     | ZIRCONIA       | 40   | X      | R205    |
| TCBZ64860Y       | 6 X 48     | ZIRCONIA       | 60   | X      | R205    |
| TCBC2.56036      | 2 1/2 X 60 | CERAMIC        | 36   | Y      | PCERY   |

# ABRASIVES

## DIE GRINDER • CUT-OFF WHEELS • ALUMINUM OXIDE • MADE IN USA

| Part #   | Size (OD X Thickness X Arbor) | Spec     | RPM   | Box Qty |
|----------|-------------------------------|----------|-------|---------|
| TCC35689 | 2 X 1/32 X 3/8                | A60-R-BF | 30000 | 50      |
| TCC35501 | 3 X 1/32 X 3/8                | A60-R-BF | 23900 | 50      |
| TCC35502 | 3 X 1/16 X 1/4                | A36-R-BF | 23900 | 50      |
| TCC35503 | 3 X 1/16 X 3/8                | A36-R-BF | 23900 | 50      |



## DIE GRINDER • CUT-OFF WHEELS • ZIRCONIA ALUMINUM OXIDE • MADE IN USA

ZA: Zirconia Aluminum Oxide – Metal, steel and stainless. Longer lasting life and easy cutting action.

| Part #   | Size (OD X Thickness X Arbor) | Spec      | RPM   | Box Qty |
|----------|-------------------------------|-----------|-------|---------|
| TCC36176 | 3 X 1/32 X 3/8                | ZA60-T-BF | 23900 | 50      |
| TCC36173 | 3 X 1/16 X 1/4                | ZA36-T-BF | 23900 | 50      |
| TCC36174 | 3 X 1/16 X 3/8                | ZA36-T-BF | 23900 | 50      |
| TCC36180 | 4 X 1/32 X 3/8                | ZA60-T-BF | 19100 | 50      |
| TCC36178 | 4 X 1/16 X 3/8                | ZA36-T-BF | 19100 | 50      |



TOOLS & ABRASIVES

**Please Note:** It is extremely important to use the cut-off wheel designed for your saw. Using the incorrect wheel can result in serious injury or death!

## CHOP SAW • CUT-OFF WHEELS • ALUMINUM OXIDE

Aluminum Oxide – Metal & Steel. 14" available in single (SR) and double (DR) fiberglass reinforced. Fast Cut: Economical choice for metal, steel and general applications.

| Part #   | Size (OD X Thickness X Arbor) | Spec     | Reinforced | RPM  | Box Qty |
|----------|-------------------------------|----------|------------|------|---------|
| TCC70113 | 14 X 3/32 X 1                 | A30-P-BF | SINGLE     | 4400 | 10      |
| TCC35576 | 14 X 3/32 X 1                 | A36-P-BF | DOUBLE     | 4400 | 10      |



# ABRASIVES

## HIGH SPEED • CUT-OFF WHEELS

EB – Electronically Balanced. All 12-14" wheels are automatically balanced during manufacturing. All 12-14" wheels are guaranteed to be less than and 3.5 grams out of balance. CGW wheels are safer, cause less vibration and are more consistent. CGW uses heavy duty fiberglass reinforcement, so our 12-14" high speed wheels meet speed specifications for all machines on the market. Premium 14" A24R, A24T, AC & 16" wheels are triple reinforced to provide extra safety. 12 & 14" wheels can be used with both gas and electric high speed machines.



### Aluminum Oxide Material for Cutting Metal Triple Reinforced

| Part #   | Size (OD X Thickness X Arbor) | Spec     | Reinforced | RPM  | Box Qty |
|----------|-------------------------------|----------|------------|------|---------|
| TCC35599 | 14 X 5/32 X 20MM              | A24-R-BF | TRIPLE     | 5500 | 10      |
| TCC35600 | 14 X 5/32 X 1                 | A24-R-BF | TRIPLE     | 5500 | 10      |

### Aluminum Oxide Silicone Carbide Mix for Cutting Ductile Iron Triple Reinforced

| Part #   | Size (OD X Thickness X Arbor) | Spec      | Reinforced | RPM  | Box Qty |
|----------|-------------------------------|-----------|------------|------|---------|
| TCC35602 | 14 X 5/32 X 1                 | AC24-R-BF | TRIPLE     | 5500 | 10      |

### Silicone Carbide Material for Cutting Stone and Concrete Triple Reinforced

| Part #   | Size (OD X Thickness X Arbor) | Spec     | Reinforced | RPM  | Box Qty |
|----------|-------------------------------|----------|------------|------|---------|
| TCC36117 | 14 X 5/32 X 1                 | C24-R-BF | TRIPLE     | 4400 | 10      |

## METAL & STEEL • CUT-OFF WHEELS • TYPE 1

ZA60-TB-Flex: Flexible wheel design for fast cutting and easy work penetration.

ZA-36-T-Rigid: Thicker (.045), rigid wheel design for fast cutting and longer life.

A60-T: Maximum cutting speeds with minimal burrs. Provides excellent finish with reduced vibration.



| Part #   | Size (OD X Thickness X Arbor) | Spec         | RPM   | Box Qty |
|----------|-------------------------------|--------------|-------|---------|
| TCC45010 | 4-1/2 X .035 X 7/8            | ZA60-TB-FLEX | 13300 | 25      |
| TCC45224 | 4-1/2 X .040 X 7/8            | A60-T        | 13300 | 25      |
| TCC35514 | 4-1/2 X .045 X 7/8            | ZA36-T-RIGID | 13300 | 25      |
| TCC35517 | 6 X .045 X 7/8                | ZA36-T-RIGID | 10200 | 25      |
| TCC45012 | 6 X .040 X 7/8                | ZA60-TB-FLEX | 10200 | 25      |
| TCC35518 | 7 X 1/16 X 7/8                | ZA36-T-RIGID | 8500  | 25      |



# ABRASIVES

## STAINLESS STEEL • CUT-OFF WHEELS • TYPE 1

**WA60-T:** Higher percentage of patented, specially treated white aluminum oxide grain and premium fiberglass. Provides up to 10% more cuts better finish, reduces burning and produces fewer burrs.



| Part #   | Size (OD X Thickness X Arbor) | Spec   | RPM   | Box Qty |
|----------|-------------------------------|--------|-------|---------|
| TCC45230 | 4-1/2 X .045 X 7/8            | WA60-T | 13300 | 25      |

## METAL & STEEL • CUT-OFF WHEELS • TYPE 27

**ZA60-S:** Zirconia and Aluminum Oxide mixture. General purpose wheel. Zirconia grain allows for faster cutting and longer life. Excellent on Steel/Stainless.

**A60-T:** Maximum cutting speeds with minimal burrs. Provides excellent finish with reduced vibration.



| Part #   | Size (OD X Thickness X Arbor) | Spec   | RPM   | Box Qty |
|----------|-------------------------------|--------|-------|---------|
| TCC45002 | 4-1/2 X .045 X 7/8            | ZA60-S | 13300 | 25      |
| TCC45103 | 4-1/2 X .045 X 7/8            | A60-T  | 13300 | 25      |
| TCC45141 | 4-1/2 X .045 X 5/8-11         | ZA60-S | 13300 | 10      |

## CUTTING & NOTCHING WHEELS • TYPE 27

**ZA24T:** Zirconia aluminum oxide grain mixture with T-grade bond. High performance design for fast cutting and longer life. Excellent cutting of ferrous metals and stainless steels.



| Part #   | Size (OD X Thickness X Arbor) | Spec   | RPM  | Box Qty |
|----------|-------------------------------|--------|------|---------|
| TCC45215 | 7 X 1/8 X 5/8-11              | ZA24-T | 8600 | 10      |

# ABRASIVES

## ECONOMY GRINDING WHEELS • TYPE 27

**A24N Fast Cut:** Aluminum Oxide Grain. Soft N-grade bond for fast stock removal. Excellent ratio of stock removal/wheel loss. Economical choice for metal and low-grade stainless.

**A24R Fast Cut:** Aluminum Oxide Grain. Economical choice for fast metal grinding. Premium Grain.



| Part #   | Size (OD X Thickness X Arbor) | Spec | RPM   | Box Qty |
|----------|-------------------------------|------|-------|---------|
| TCG35622 | 4-1/2 X 1/4 X 7/8             | A24N | 13300 | 25      |
| TCG70099 | 4-1/2 X 1/4 X 7/8             | A30N | 13300 | 25      |
| TCG35642 | 7 X 1/4 X 7/8                 | A24N | 8600  | 25      |
| TCG36262 | 7 X 1/4 X 5/8-11              | A24R | 8600  | 10      |
| TCG36264 | 9 X 1/4 X 5/8-11              | A24R | 6600  | 10      |

## ULTRA GRINDING WHEELS • TYPE 27

**ZA24T:** Zirconia Aluminum Oxide Grain Zirconia grain is sharper, cuts faster, and lasts longer than aluminum oxide grain. T-grade bond for fast cutting and longer life. Recommended for steel, cast iron, and stainless steel.

**A24R:** Aluminum Oxide Grain #1 selling 1/4" Depressed Center Grinding Wheel. R-grade bond for longer life and excellent stock removal.



| Part #   | Size (OD X Thickness X Arbor) | Spec  | RPM   | Box Qty |
|----------|-------------------------------|-------|-------|---------|
| TCG35620 | 4-1/2 X 1/4 X 7/8             | A24R  | 13300 | 25      |
| TCG35624 | 4-1/2 X 1/4 X 7/8             | ZA24T | 13300 | 25      |
| TCG35625 | 4-1/2 X 1/4 X 5/8-11          | ZA24T | 13300 | 10      |
| TCG35645 | 7 X 1/4 X 5/8-11              | ZA24T | 8600  | 10      |

## PREMIUM GRINDING WHEELS • TYPE 27

The fastest CGW Metal Removal Wheel

High concentration of ceramic grain provides for very fast grinding and long life. Contains less than 0.1% of sulfur & chlorine and virtually no iron. Use on: stainless steel, mild steel, hard face, titanium, inconel, aluminum. AS (ceramic grain) and L (special grains).



| Part #   | Size (OD X Thickness X Arbor) | Spec       | RPM   | Box Qty |
|----------|-------------------------------|------------|-------|---------|
| TCG49543 | 4-1/2 X 5/32 X 7/8            | 36 GRIT    | 13300 | 25      |
| TCG49750 | 4-1/2 X 1/8 X 7/8             | ASL-36P-BF | 13300 | 25      |
| TCG49751 | 4-1/2 X 1/8 X 5/8-11          | ASL-36P-BF | 13300 | 10      |

# ABRASIVES

## RED EZ STRIP WHEELS

Non woven wheels for cleaning welds and fast removal of rust, scaling, oxidation, paints, sealants, and other clogging materials. EZ strip wheels can be used on stainless steel, steel, aluminum, titanium, non-ferrous metals, fiber glass, stone and wood. Red EZ strip wheels are more rigid for faster working on angled and irregular surfaces.



| Part #   | Size (OD X Arbor) | RPM   | Box Qty | Box Qty |
|----------|-------------------|-------|---------|---------|
| TCE59204 | 4-1/2 X 7/8       | 11000 | 10      | 25      |
| TCE59208 | 5 X 7/8           | 9800  | 10      | 25      |
| TCE59206 | 7 X 7/8           | 7000  | 10      | 10      |

## RED EZ STRIP WHEELS • ROLL ON

| Part #   | Size (OD X Thickness)                     | RPM   | Box Qty |
|----------|---|-------|---------|
| TCE59060 | 59060 2 X 1/2 RED ROLL ON EZ STRIP WHEELS | 16000 | 10      |



# ABRASIVES

## PREMIUM Z3 • US MADE • FLAP DISCS

Fastest grain removal in the marketplace for carbon based steels (26% more than the competition) and second best after CGW Z-Stainless discs on stainless steels, while offering excellent life. Recommended for aggressive use and heavy duty applications. Active grinding agent provides cool cutting with light pressure. Special optimized resin bond offers maximum cutting capacity, strong edge stability and long life. Premium Zirconia Alumina grain with a poly/cotton heat treated backing. The poly/cotton combination provides low stretch and strength for the high Zirconia concentration that Z3<sup>®</sup> contains. XL provides more material and longer disc life.



| Part #   | Size (OD X Arbor) | Grit | Type | Thickness | RPM   | Box Qty |
|----------|-------------------|------|------|-----------|-------|---------|
| TCF42301 | 4-1/2 X 7/8       | 36   | 27   | REGULAR   | 13300 | 10      |
| TCF42305 | 4-1/2 X 7/8       | 80   | 27   | REGULAR   | 13300 | 10      |
| TCF42306 | 4-1/2 X 7/8       | 120  | 27   | REGULAR   | 13300 | 10      |
| TCF42314 | 4-1/2 X 5/8-11    | 60   | 27   | REGULAR   | 13300 | 10      |
| TCF42315 | 4-1/2 X 5/8-11    | 80   | 27   | REGULAR   | 13300 | 10      |
| TCF42321 | 4-1/2 X 7/8       | 36   | 29   | REGULAR   | 13300 | 10      |
| TCF42322 | 4-1/2 X 7/8       | 40   | 29   | REGULAR   | 13300 | 10      |
| TCF42324 | 4-1/2 X 7/8       | 60   | 29   | REGULAR   | 13300 | 10      |
| TCF42325 | 4-1/2 X 7/8       | 80   | 29   | REGULAR   | 13300 | 10      |
| TCF42326 | 4-1/2 X 7/8       | 120  | 29   | REGULAR   | 13300 | 10      |
| TCF42731 | 7 X 5/8-11        | 36   | 29   | REGULAR   | 8600  | 10      |
| TCF42735 | 7 X 5/8-11        | 80   | 29   | REGULAR   | 8600  | 10      |
| TCF42341 | 4-1/2 X 7/8       | 36   | 27   | XL        | 13300 | 10      |
| TCF42342 | 4-1/2 X 7/8       | 40   | 27   | XL        | 13300 | 10      |
| TCF42345 | 4-1/2 X 7/8       | 80   | 27   | XL        | 13300 | 10      |
| TCF42352 | 4-1/2 X 5/8-11    | 40   | 27   | XL        | 13300 | 10      |
| TCF42542 | 5 X 7/8           | 40   | 27   | XL        | 12200 | 10      |
| TCF42364 | 4-1/2 X 7/8       | 60   | 29   | XL        | 13300 | 10      |
| TCF42365 | 4-1/2 X 7/8       | 80   | 29   | XL        | 13300 | 10      |
| TCF30002 | 2 X ROLL ON       | 40   | 27   | REGULAR   | 24000 | 10      |
| TCF30004 | 2 X ROLL ON       | 60   | 27   | REGULAR   | 24000 | 10      |
| TCF30012 | 3 X ROLL ON       | 40   | 27   | REGULAR   | 24000 | 10      |
| TCF30014 | 3 X ROLL ON       | 60   | 27   | REGULAR   | 24000 | 10      |

# ABRASIVES

## PREMIUM • US MADE • Z3 TRIMMABLE • COMPACT FLAP DISCS

Time is Money. Trimming the backing allows for more of the disc to be used for fewer disc changes and better production rates. Easy Trimming. Simply angle the backing edge against a hard metal to expose more flap material. Easier Heavy Duty Jobs. Stiff backing construction paired with a compacted 4 degree flap angle make grinding easier, quieter and with less vibration.



| Part #   | Size (OD X Arbor) | Grit | Type | Thickness | RPM   | Box Qty |
|----------|-------------------|------|------|-----------|-------|---------|
| TCF30144 | 4-1/2 X 5/8-11    | 60   | 27   | REGULAR   | 13300 | 10      |

## US MADE • Z-PC FLAP DISCS

Quality zirconia grain with a poly/cotton heat treated backing. The poly/cotton backing provides low stretch and strength. For steel and stainless steel.



| Part #   | Size (OD X Arbor) | Grit | Type | Thickness | RPM   | Box Qty |
|----------|-------------------|------|------|-----------|-------|---------|
| TCF41702 | 4-1/2 X 7/8       | 40   | 27   | REGULAR   | 13300 | 10      |
| TCF41704 | 4-1/2 X 7/8       | 60   | 27   | REGULAR   | 13300 | 10      |
| TCF41724 | 4-1/2 X 7/8       | 60   | 29   | REGULAR   | 13300 | 10      |
| TCF41971 | 7 X 5/8-11        | 36   | 29   | REGULAR   | 8600  | 10      |
| TCF41972 | 7 X 5/8-11        | 40   | 29   | REGULAR   | 8600  | 10      |

## PREMIUM • US MADE • A3 W/CALCIUM STEARATE • FLAP DISCS

Premium Blue fired AO grain with a polyester heat treated backing. Made with non-loading, heavy white calcium coating. A3 Material with Calcium Stearate coating liquefies under heat keeping the material cooler and preventing loading with soft materials. Use of buffing compound will extend the life of the disc. Recommended use: 36 grit for rough grinding, heavy stock removal or weld removal. 60 grit for deburring, cleaning, finish preparation. Use on soft metals such as aluminum and blending stainless steel.



| Part #   | Size (OD X Arbor) | Grit | Type | Thickness | RPM   | Box Qty |
|----------|-------------------|------|------|-----------|-------|---------|
| TCF43084 | 4-1/2 X 7/8       | 60   | 27   | REGULAR   | 13300 | 10      |
| TCF43184 | 5 X 7/8           | 60   | 29   | REGULAR   | 12200 | 10      |
| TCF43261 | 7 X 7/8           | 36   | 29   | REGULAR   | 8600  | 10      |

# ABRASIVES

## ALUMINUM OXIDE • FIRM FLAP WHEELS

Firm, quality aluminum oxide coated abrasive material. The flaps, arranged like a fan around the shaft of the tool, provide for consistent cutting action, maximum performance and long life. Use on all ferrous and non-ferrous materials, stainless steel, iron, brass, aluminum, plastic, fiberglass, wood and glass. Excellent for working in small, difficult to reach places. CGW flap wheels have more flaps compared to leading flap wheel manufacturers.



| Part #    | Size (OD X Thickness X Shank) | Grit | RPM   | Box Qty |
|-----------|-------------------------------|------|-------|---------|
| TCFW37100 | 3/4 X 3/4 X 1/4               | 120  | 30000 | 10      |
| TCFW37105 | 3/4 X 3/4 X 1/4               | 320  | 30000 | 10      |
| TCFW39910 | 1 X 1 X 1/4                   | 120  | 30000 | 10      |
| TCFW39914 | 1 X 1 X 1/4                   | 320  | 30000 | 10      |
| TCFW39916 | 1-1/2 X 1/2 X 1/4             | 80   | 25000 | 10      |
| TCFW39923 | 1 1/2 X 1 X 1/4               | 120  | 25000 | 10      |
| TCFW41630 | 1 1/2 X 1 X 1/4               | 320  | 25000 | 10      |
| TCFW39934 | 2 X 1 X 1/4                   | 120  | 25000 | 10      |
| TCFW39937 | 2 X 1 X 1/4                   | 320  | 25000 | 10      |
| TCFW39943 | 2 1/2 X 1 X 1/4               | 120  | 20000 | 10      |
| TCFW41511 | 2 1/2 X 1 X 1/4               | 320  | 20000 | 10      |
| TCFW41515 | 3 X 1 1/2 X 1/4               | 120  | 20000 | 10      |
| TCFW41518 | 3 X 1 1/2 X 1/4               | 320  | 20000 | 10      |

## ALUMINUM OXIDE • FLEX FLAP WHEELS

Premium quality AO flap wheel made with a flexible x-wt. cotton backing for faster cut rate vs. traditional AO flap wheels. Flexible, yet strong flaps for easy working on hard-to-reach places. Fast and cool cutting action. Use on ferrous and non-ferrous metals

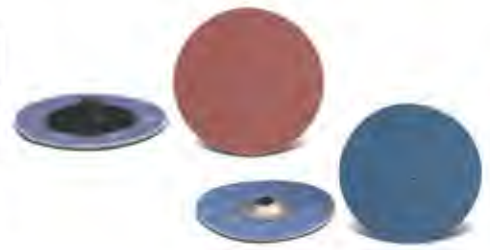


| Part #    | Size (OD X Thickness X Shank) | Grit | RPM   | Box Qty |
|-----------|-------------------------------|------|-------|---------|
| TCFW70212 | 5/8 X 5/8 X 1/4               | 80   | 30000 | 10      |
| TCFW71000 | 3/4 X 3/4 X 1/4               | 60   | 30000 | 10      |
| TCFW71001 | 3/4 X 3/4 X 1/4               | 80   | 30000 | 10      |
| TCFW71002 | 3/4 X 3/4 X 1/4               | 120  | 30000 | 10      |
| TCFW71034 | 1 X 1 X 1/4                   | 60   | 30000 | 10      |
| TCFW71035 | 1 X 1 X 1/4                   | 80   | 30000 | 10      |
| TCFW71036 | 1 X 1 X 1/4                   | 120  | 30000 | 10      |
| TCFW71040 | 1-1/2 X 1 X 1/4               | 40   | 25000 | 10      |
| TCFW71042 | 1-1/2 X 1 X 1/4               | 80   | 25000 | 10      |
| TCFW71090 | 2 X 1 X 1/4                   | 80   | 25000 | 10      |
| TCFW71115 | 2-1/2 X 1 X 1/4               | 80   | 25000 | 10      |
| TCFW41515 | 3 X 1 1/2 X 1/4               | 120  | 20000 | 10      |
| TCFW41518 | 3 X 1 1/2 X 1/4               | 320  | 20000 | 10      |

# ABRASIVES

## QUICK CHANGE DISCS

| Part #   | Size | Material       | Grit | Style   | Box Qty |
|----------|------|----------------|------|---------|---------|
| TCQ59528 | 2    | ALUMINUM OXIDE | 50   | ROLL ON | 50      |
| TCQ59635 | 2    | ALUMINUM OXIDE | 40   | TURN ON | 50      |
| TCQ59637 | 2    | ALUMINUM OXIDE | 60   | TURN ON | 50      |
| TCQ59638 | 2    | ALUMINUM OXIDE | 80   | TURN ON | 50      |
| TCQ59591 | 2    | ZIRCONIA       | 60   | ROLL ON | 50      |
| TCQ59830 | 2    | CERAMIC        | 36   | ROLL ON | 50      |



Strong 2-ply design for flat or contoured work.

## ALUMINUM OXIDE • RESIN FIBRE DISCS

A premium quality AO disc designed for long life, high stock removal and cool cutting action on metal and welds. Sharp, heat-treated and blue fired AO grain electrostatically coated to a heavy duty vulcanized fibre backing with heat resistant phenolic resins. Fast, cool cutting performance.



| Part #   | Size (OD X Arbor) | Grit | Style    | Box Qty |
|----------|-------------------|------|----------|---------|
| TCR48012 | 4-1/2 X 7/8       | 36   | STANDARD | 25      |

## ZIRCONIA • RESIN FIBRE DISCS

High concentration of Zirconia and heat-treated Aluminum Oxide grain provides twice the cutting action of premium AO discs and is extremely heat resistant. The special fracturing characteristics of the Zirconia grain provide a consistent action throughout the disc's life. High performance on blending welds, stainless steel, inconel, titanium and tool steel.



| Part #   | Size (OD X Arbor) | Grit | Style    | Box Qty |
|----------|-------------------|------|----------|---------|
| TCR48124 | 7 X 7/8           | 50   | STANDARD | 25      |

## CERAMIC • RESIN FIBRE DISCS

Premium ceramic grain is extremely hard and self-sharpening during operation. Ceramic grain breaks down with less pressure than Zirconia discs without heat damage. Grinding aid keeps the disc cool while grinding hard materials and aluminum.



| Part #   | Size (OD X Arbor) | Grit | Style      | Box Qty |
|----------|-------------------|------|------------|---------|
| TCR48204 | 7 X 7/8           | 50   | STANDARD   | 25      |
| TCR48205 | 7 X 7/8           | 60   | STANDARD   | 25      |
| TCR48882 | 4-1/2 X 7/8       | 36   | QUICK LOCK | 25      |

## ZIRCONIA PREMIUM • RESIN FIBRE DISCS

Made with premium grains using **NEW** world class state-of-the-art electrostatic coating process. Heavy duty vulcanized fibre for extended disc life and over 30% less curling during storage (discs stay flatter).



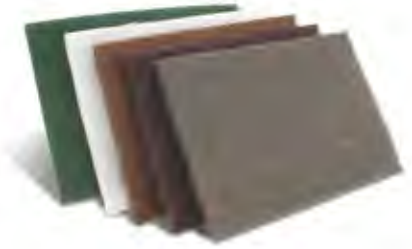
| Part #   | Size (OD X Arbor) | Grit | Style    | Box Qty |
|----------|-------------------|------|----------|---------|
| TCR49472 | 4 1/2 X 7/8       | 36   | STANDARD | 25      |
| TCR49476 | 5 X 7/8           | 24   | STANDARD | 25      |
| TCR49477 | 5 X 7/8           | 36   | STANDARD | 25      |
| TCR49484 | 7 X 7/8           | 60   | STANDARD | 25      |

# ABRASIVES

## PREMIUM SURFACE CONDITIONING HAND PADS

Strong, yet flexible premium pad construction for surface preparation.

| Part #    | Color | Spec       | Box Qty |
|-----------|-------|------------|---------|
| TCSC36283 | GREY  | ULTRA FINE | 20      |



## INTERLEAF FLAP DISCS

Grind and finish with one disc – save time and money. Stainless steel finishing, light grinding, deburring. Alternating flaps of non-woven and coated abrasive materials provide uniform, consistent finishes with very little heat. Top size aluminum oxide poly cotton material for cool, yet fast cutting action for long life. European made non-woven material for non-smearing high grade finishes. Three grit levels of discs for a variety of work including stainless steel, aluminum, brass, steel sheet metal. Please operate at 3,000 RPM for optimal performance



| Part #    | Size (OD X Arbor) | Grit       | Type | Box Qty |
|-----------|-------------------|------------|------|---------|
| TCSC49686 | 4-1/2 X 7/8       | COARSE/120 | 29   | 10      |
| TCSC49687 | 4-1/2 X 7/8       | MEDIUM/180 | 29   | 10      |

## SURFACE CONDITIONING FLAP DISCS

Premium surface conditioning material for surface preparation. Three different grits for blending, deburring, and cleaning. For steel and stainless steel. Operate at 3,000 RPM for optimal performance.



| Part #    | Size (OD X Arbor) | Spec/Color    | Type | Box Qty |
|-----------|-------------------|---------------|------|---------|
| TCSC70122 | 4-1/2 X 7/8       | MEDIUM/MAROON | 29   | 10      |

## PREMIUM SURFACE CONDITIONING QUICK CHANGE DISCS

| Part #    | Size | Spec/Color   | Style   | Box Qty |
|-----------|------|--------------|---------|---------|
| TCSC59503 | 2    | COARSE/BROWN | ROLL ON | 50      |
| TCSC59506 | 3    | COARSE/BROWN | ROLL ON | 25      |



## HEAVY DUTY SURFACE CONDITIONING QUICK CHANGE DISCS

| Part #    | Size | Spec/Color    | Style   | Box Qty |
|-----------|------|---------------|---------|---------|
| TCSC59740 | 2    | MEDIUM/MAROON | ROLL ON | 50      |



TOOLS & ABRASIVES



# ABRASIVES

## FINISH PRO SURFACE CONDITIONING QUICK CHANGE DISCS

| Part #    | Size | Spec/Color    | Style   | Box Qty |
|-----------|------|---------------|---------|---------|
| TCSC59743 | 2    | COARSE/BROWN  | ROLL ON | 50      |
| TCSC59744 | 2    | MEDIUM/MAROON | ROLL ON | 50      |
| TCSC59746 | 3    | COARSE/BROWN  | ROLL ON | 25      |
| TCSC59747 | 3    | MEDIUM/MAROON | ROLL ON | 25      |



## GOLD • C WEIGHT • PAPER DISCS W/MYLAR

**THE PASCO ADVANTAGE:** Made with a strong .0005 Mylar film for superior edge tear resistance. The PASCO Advantage outperforms other "C" weight gold discs. Stearated paper with heat treated aluminum oxide grain and a full phenolic bond system provides uniform scratch pattern. Open coat disc delivers fast cut and exceptionally long life.



| Part #    | Size | Grit | Style       | Box Qty |
|-----------|------|------|-------------|---------|
| TCSD49762 | 5    | 80   | ROLL        | 100     |
| TCSD49767 | 5    | 220  | ROLL        | 100     |
| TCSD49777 | 6    | 80   | ROLL        | 100     |
| TCSD49781 | 6    | 180  | ROLL        | 100     |
| TCSD49782 | 6    | 220  | ROLL        | 100     |
| TCSD49792 | 5    | 80   | W/TAB       | 100     |
| TCSD50965 | 5    | 800  | W/TAB       | 100     |
| TCSD49816 | 6    | 400  | W/TAB       | 100     |
| TCSD50985 | 6    | 800  | W/TAB       | 100     |
| TCSD49855 | 5    | 150  | W/TAB 8 VAC | 100     |

## WHITE GOLD • C WEIGHT • PAPER DISCS

| Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|
| TCSD50391 | 5    | 80   | W/TAB | 100     |
| TCSD50392 | 5    | 100  | W/TAB | 100     |
| TCSD50393 | 5    | 120  | W/TAB | 100     |
| TCSD50394 | 5    | 150  | W/TAB | 100     |
| TCSD50395 | 5    | 180  | W/TAB | 100     |
| TCSD50396 | 5    | 220  | W/TAB | 100     |
| TCSD50399 | 5    | 320  | W/TAB | 100     |
| TCSD50400 | 5    | 400  | W/TAB | 100     |

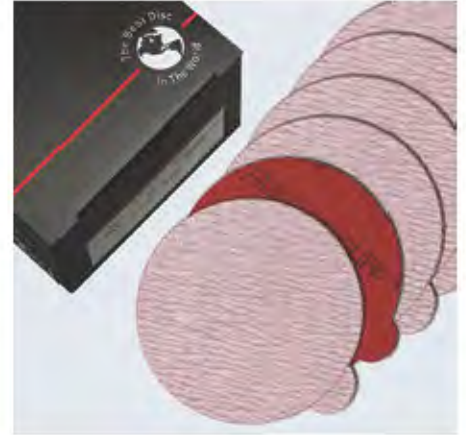


# ABRASIVES

## LONG LIFE • FILM BACKED DISCS

Heat treated aluminum oxide grain on a strong .003" Mylar backing with full phenolic resin bond for better grain adhesion and longer life. Outperforms paper discs by up to 300%! Non-loading zinc stearate treatment. Strong yet pliable film for a superior finish.

| Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|
| TCSD52405 | 5    | 80   | W/TAB | 100     |
| TCSD52408 | 5    | 150  | W/TAB | 100     |
| TCSD52410 | 5    | 220  | W/TAB | 100     |
| TCSD52413 | 5    | 400  | W/TAB | 100     |
| TCSD52200 | 5    | 800  | W/TAB | 100     |
| TCSD52416 | 6    | 60   | W/TAB | 50      |



## J WEIGHT • CLOTH BACKED DISCS

Tough, durable "J" wgt. 65/35% polyester/cotton cloth is an outstanding product for the right applications and is worth the higher cost of cloth disc compared to paper. Applications: wood sanding, mold sanding, contour sanding, breaking edges.

| Part #    | Size | Grit | Style | Box Qty |
|-----------|------|------|-------|---------|
| TCSD51658 | 5    | 80   | W/TAB | 50      |



## X WEIGHT • CLOTH BACKED DISCS

X-weight resin bond cloth disc for general purpose work.

| Part #    | Size | Grit | Box Qty | Box Qty |
|-----------|------|------|---------|---------|
| TCSD52640 | 5    | 80   | 50      | 50      |
| TCSD52687 | 12   | 150  | 25      |         |



## J WEIGHT • CLOTH BACKED • SANDING SHEETS

Used extensively for metal working and maintenance departments.

| Part #    | Size   | Grit | Pkg Qty | Box Qty |
|-----------|--------|------|---------|---------|
| TCSP44917 | 9 X 11 | 400  | 50      | 50      |



TOOLS & ABRASIVES

# ABRASIVES

## PREMIUM • ALUMINUM OXIDE • SHOP ROLLS

Premium shop roll backing is more flexible for longer working life. High quality friable grain. Material is easily torn to the length and/or shape needed. For multiple types of work including cleaning, deburring and polishing.



| Part #    | Size       | Grit | Style | Box Qty |
|-----------|------------|------|-------|---------|
| TCSR63062 | 1" X 50 YD | 60   | ROLL  | 100     |
| TCSR63063 | 1" X 50 YD | 80   | ROLL  | 100     |
| TCSR63064 | 1" X 50 YD | 100  | ROLL  | 100     |
| TCSR63065 | 1" X 50 YD | 120  | ROLL  | 100     |
| TCSR63066 | 1" X 50 YD | 150  | ROLL  | 100     |
| TCSR63067 | 1" X 50 YD | 180  | W/TAB | 100     |
| TCSR63068 | 1" X 50 YD | 220  | W/TAB | 100     |
| TCSR63070 | 1" X 50 YD | 320  | W/TAB | 100     |
| TCSR63071 | 1" X 50 YD | 400  | W/TAB | 100     |

| Part #    | Size           | Grit | Style       | Box Qty |
|-----------|----------------|------|-------------|---------|
| TCSR63073 | 1 1/2" X 50 YD | 80   | W/TAB 8 VAC | 100     |
| TCSR63075 | 1 1/2" X 50 YD | 120  |             |         |
| TCSR63077 | 1-1/2" X 50 YD | 180  |             |         |
| TCSR63079 | 1-1/2" X 50 YD | 240  |             |         |
| TCSR63080 | 1-1/2" X 50 YD | 320  |             |         |
| TCSR63098 | 2" X 50 YD     | 40   |             |         |
| TCSR63083 | 2" X 50 YD     | 80   |             |         |
| TCSR63085 | 2" X 50 YD     | 120  |             |         |
| TCSR63087 | 2" X 50 YD     | 180  |             |         |

## MADE IN USA • END BRUSHES

| Part #   | Spec                         | Wire Size | Shank | RPM   | Box Qty |
|----------|------------------------------|-----------|-------|-------|---------|
| TCW60131 | 1 KNOTTED END BRUSH CARBON   | 0.020     | 1/4   | 22000 | 12      |
| TCW60140 | 3/4 CRIMPED END BRUSH CARBON | 0.014     | 1/4   | 22000 | 12      |



## MADE IN USA • WHEEL BRUSHES

| Part #   | Spec                                | Wire Size | Shank | RPM   | Box Qty |
|----------|-------------------------------------|-----------|-------|-------|---------|
| TCW60160 | 1-1/2 CRIMPED RADIAL CONCAVE CARBON | .012      | 1/4   | 20000 | 10      |
| TCW60161 | 2-1/2 CRIMPED RADIAL CONCAVE CARBON | .014      | 1/4   | 20000 | 10      |
| TCW60162 | 3 CRIMPED RADIAL CONCAVE CARBON     | .014      | 1/4   | 20000 | 10      |
| TCW60170 | 2 CRIMPED CARBON                    | .014      | 1/4   | 25000 | 10      |
| TCW60171 | 3 CRIMPED CARBON                    | .014      | 1/4   | 25000 | 10      |
| TCW60172 | 3 CRIMPED STAINLESS                 | .014      | 1/4   | 25000 | 10      |



# ABRASIVES

## STAINLESS STEEL SCRATCH BRUSHES

| Part #    | Spec   | Material        | Box Qty |
|-----------|--------|-----------------|---------|
| TCSB60202 | 3 X 19 | STAINLESS STEEL | 12      |
| TCSB60211 | 3 X 7  | STAINLESS STEEL | 36      |



## ECONOMY WHEEL BRUSHES

| Part #   | Spec                              | Wire Size | Arbor  | RPM   | Box Qty |
|----------|-----------------------------------|-----------|--------|-------|---------|
| TCW60523 | 6 KNOTTED STRINGER<br>BEAD CARBON | .020      | 5/8-11 | 12000 | 5       |



## ECONOMY CUP BRUSHES

| Part #   | Spec                 | Wire Size | Arbor  | RPM   | Box Qty |
|----------|----------------------|-----------|--------|-------|---------|
| TCW60535 | 2-3/4 KNOTTED CARBON | .014      | 5/8-11 | 12500 | 5       |



## ECONOMY END BRUSHES

| Part #   | Spec              | Wire Size | Shank | RPM   | Box Qty |
|----------|-------------------|-----------|-------|-------|---------|
| TCW60580 | 1" KNOTTED CARBON | .020      | 1/4   | 20000 | 5       |



TOOLS & ABRASIVES

# TENRYU SAW BLADES

## STEEL-PRO® SERIES



Steel Pro® Saw Blades cut ferrous metals more quickly, cleanly, and easily. The tips are made of specially formulated C-6 grade carbide. They make fast, clean, and cool cuts that leave the work piece edge free of burrs. They outlast abrasive discs by up to 30 times, cut up to 10 times faster, eliminate dust, and reduce sparks.

| Part #     | Tenryu Part # | Size                      |
|------------|---------------|---------------------------|
| TTSP0725   | PRF-18538BW   | 7¼" 38 TOOTH 5/8 KO ARBOR |
| TTSP072520 | PRF-18538BW2  | 7¼" 38 TOOTH 20MM ARBOR   |
| TTSP14     | PRF-35572D    | 14" 72 TOOTH 1" ARBOR     |

## STEEL-PRO® STABILIZER SERIES



Steel Pro® Stabilizer Saw Blades provide all the benefits of standard Steel Pro® blades while also eliminating the need for blade plate stabilizers. They cut straighter, have a longer cutting life, and reduce the scattering of steel debris.

| Part #    | Tenryu Part # | Size                     |
|-----------|---------------|--------------------------|
| TTS0725   | PRF-18536BWK  | 7¼" 36 TOOTH 5/8 ARBOR   |
| TTS072520 | PRF-18536BWK2 | 7¼" 36 TOOTH 20MM ARBOR  |
| TTS08     | PRF-20348BWK  | 8" 48 TOOTH 5/8 KO ARBOR |
| TTS14     | PRF-35572DK   | 14" 72 TOOTH 1" ARBOR    |

## HEAVY METAL SERIES



Heavy Metal Saw Blades are for ferrous metal. They provide affordability, quick cutting, and long cut life.

| Part # | Tenryu Part # | Size                  |
|--------|---------------|-----------------------|
| TTHM12 | HM-30554DX    | 12" 54 TOOTH 1" ARBOR |
| TTHM14 | PRF-35566DX   | 14" 66 TOOTH 1" ARBOR |

## ALUMI-CUT SERIES



Alumi-Cut Saw Blades are for cutting non-ferrous materials. They provide excellent results in aluminum, copper, brass, and bronze. The bodies are fully hardened, expertly tensioned, tool steel for true and accurate cuts.

| Part #  | Tenryu Part # | Size                      |
|---------|---------------|---------------------------|
| TTA725  | AC-18560D     | 7¼" 60 TOOTH 5/8 KO ARBOR |
| TTA85   | AC-21660DN    | 8½" 60 TOOTH 5/8 KO ARBOR |
| TTA10   | AC-25580DN    | 10" 80 TOOTH 5/8 ARBOR    |
| TTA1280 | AC-30580DN    | 12" 80 TOOTH 1" ARBOR     |
| TTA12   | AC-305100DN   | 12" 100 TOOTH 1" ARBOR    |
| TTA14   | AC355100DN    | 14" 100 TOOTH 1" ARBOR    |

# TENRYU SAW BLADES & HOLE SAWS

## TENRYU SAW BLADES CORD-FREE SERIES



Cord-Free Saw Blades for Wood feature ultra-thin, perfectly tensioned steel plates for true run and to save battery power. The teeth are precision honed, high grade carbide for easy, smooth cuts and long life.

| Part #     | Tenryu Part # | Size                         |
|------------|---------------|------------------------------|
| TTCFW06524 | CF-16524W     | 6 1/2" 24 TOOTH 5/8 KO ARBOR |
| TTCFW06540 | CF-16540W     | 6 1/2" 40 TOOTH 5/8 KO ARBOR |

## POWER TOOL SERIES



Power Tool Saw Blades for Miter Saws are wood cutting blades which feature a thin kerf design which is easier on miter saw motors and brakes. They have fully hardened, expertly tensioned tool steel bodies and fine grain tungsten carbide tips with fine honing for keen edges.

| Part #  | Tenryu Part # | Size                  |
|---------|---------------|-----------------------|
| TTPT012 | PT-30580      | 12" 80 TOOTH 1" ARBOR |

Don't see the saw blade you are looking for? Tenryu stocks nearly any type and size of circular blade. All Tenryu blades are available in 1-2 days.

## HOLE SAWS

### BI-METAL C08 HOLE SAWS FINE TOOTHED



Ruko Bi-Metal Co8 Hole Saws are high quality and are made in Germany. The teeth contain 8% cobalt for more endurance in hard materials. They are fine tooth for smoother cuts in metals. They are suitable for use in wood, plastics, aluminum, brass, and steel. Cutting depth is 1 1/2"

| Part #  | Size   | Part #  | Size  |
|---------|--------|---------|-------|
| TRHSF14 | 7/8    | TRHSF40 | 2 1/2 |
| TRHSF16 | 1      | TRHSF44 | 2 3/4 |
| TRHSF17 | 1 1/16 | TRHSF48 | 3     |
| TRHSF18 | 1 1/8  | TRHSF50 | 3 1/8 |
| TRHSF20 | 1 1/4  | TRHSF54 | 3 3/8 |
| TRHSF22 | 1 3/8  | TRHSF58 | 3 5/8 |
| TRHSF24 | 1 1/2  | TRHSF64 | 4     |
| TRHSF32 | 2      | TRHSF72 | 4 1/2 |
| TRHSF34 | 2 1/8  | TRHSF80 | 5     |

## HOLE SAW KITS



| Part #  | # of Pieces | Items Included   |
|---------|-------------|--|
| TRHSS   | 12          | "3/4, 7/8, 1, 1 1/8, 1 3/8, 1 1/2, 1 3/4, 2, 2 1/4, 2 1/2, A2, & A4 ARBOR HOLDERS"   |
| TRHSS19 | 19          | 5/8, 3/4, 21MM, 15/16, 1, 1 1/8, 1 1/4, 37MM, 40MM, 1 7/8, 2, 2 1/8, 2 3/8, 2 7/8, 3 1/4, A1 & A2 ARBORS, PILOT DRILL, 12" EXTENSION |

# HOLE SAWS & RECIPROCATING BLADES

## HOLE SAWS

### HOLE SAW ACCESSORIES



| Part #    | Description                | Fits                      |
|-----------|----------------------------|---------------------------|
| TRHSPD164 | 1/4 X 3 15/16 PILOT DRILLS | A1, A2, A5, A6, A7 ARBORS |
| TRHSA1    | A1 HSS HOLE SAW ARBOR      | 9/16-1 3/16 HOLE SAWS     |
| TRHSA2    | A2 HSS HOLE SAW ARBOR      | 1 1/4-6 HOLE SAWS         |

## RECIPROCATING BLADES

### Tooth Spacing

In order to prevent the teeth from breaking off or the blade from snapping, at least three teeth should be cutting at the same time. The thickness of the work piece should determine whether a coarse- or fine-toothed saw blade is to be used. The following information can be used as a rule of thumb for selecting the correct saw blade for the job in hand: A tooth spacing of 0.027" to 0.079" is suitable for thin materials and fine cuts. A tooth spacing of 0.098" to 0.157" is suitable for thick materials and coarse cuts.

### HSS Bi-Metal

HSS bi-metal saw blades are the correct choice where the material to be cut and the conditions of use subject the saw-blade to extreme stresses. The teeth of the saw blade are made of HSS steel whereas the spine is made of a softer and more elastic HCS steel. This combination of materials makes the HSS bi-metal saw blades highly flexible and gives them high cutting performance and long service life at the same time.

### HSS BI METAL RECIPROCATING BLADES

| Part #      | Size               | Teeth Per Inch | Application                              | Image |
|-------------|--------------------|----------------|--|-------|
| TRR33189175 | 6 X 3/4 X .050     | 6              | WOOD W/NAILS, METAL, SOLID PLASTICS, FRP |       |
| TRR33189015 | 6 X 3/4 X .039     | 10             | WOOD W/NAILS, METAL, ALUMINUM            |       |
| TRR33189155 | 6 X 3/4 X .039     | 14             | METAL (PLATES, PIPES)                    |       |
| TRR33189085 | 6 X 3/4 X .039     | 18             | METAL (THIN SHEETING)                    |       |
| TRR33189065 | 6 X 3/4 X .039     | 24             | METAL (THIN SHEETING)                    |       |
| TRR33189095 | 8 X 3/4 X .039     | 10             | WOOD W/NAILS, METAL, ALUMINUM            |       |
| TRR33189185 | 8 X 3/4 X .050     | 10-14          | METAL (MEDIUM TO THICK SHEETING)         |       |
| TRR33189135 | 8 7/8 X 3/4 X .039 | 18             | METAL (THIN SHEETING)                    |       |
| TRR33189365 | 9 X 3/4 X .050     | 6              | WOOD W/NAILS, METAL, SOLID PLASTICS, FRP |       |
| TRR33189285 | 9 X 3/4 X .039     | 10-14          | WOOD W/NAILS, METAL, ALUMINUM            |       |
| TRR33189165 | 9 X 3/4 X .039     | 14             | METAL (THIN SHEETING)                    |       |
| TRR33189375 | 12 X 3/4 X .050    | 6              | WOOD W/NAILS, METAL, SOLID PLASTICS, FRP |       |
| TRR33189105 | 12 X 3/4 X .039    | 10-14          | WOOD W/NAILS, METAL, ALUMINUM, PLASTIC   |       |
| TRR33189295 | 12 X 3/4 X .050    | 10-14          | WOOD W/NAILS, METAL, ALUMINUM, PLASTIC   |       |

# RECIPROCATING BLADES, HACKSAW BLADES, & JIG-SAW BLADES

## RECIPROCATING BLADES

### HSS BI METAL RECIPROCATING DEMOLITION BLADES

| Part #      | Size            | Teeth Per Inch | Application                     |
|-------------|-----------------|----------------|---------------------------------|
| TRR33189865 | 6 X 7/8 X .0625 | 8-10           | METAL (PLATES, PIPES)           |
| TRR33189885 | 9 X 7/8 X .0625 | 6              | WOOD W/NAILS, METAL, CHIP BOARD |
| TRR33189895 | 9 X 7/8 X .0625 | 8-10           | METAL (PLATES, PIPES)           |



### HCS RECIPROCATING BLADES

| Part #      | Size            | Teeth Per Inch | Application     |
|-------------|-----------------|----------------|-----------------|
| TRR33189055 | 6 X 3/4 X .050  | 3              | WOOD (NO NAILS) |
| TRR33189245 | 6 X 3/4 X .050  | 6              | WOOD (NO NAILS) |
| TRR33189445 | 8 X 3/4 X .050  | 6-10           | WOOD (NO NAILS) |
| TRR33189045 | 12 X 3/4 X .050 | 6              | WOOD (NO NAILS) |



## HACKSAW BLADES

### RUKO BRAND • BI-METAL

| Part # | Teeth Per Inch | Length | Pack Quantity |
|--------|----------------|--------|---------------|
| TRHB   | 18             | 12"    | 10            |

Ruko Hacksaw Blades are made in Germany. The cutting edge is made of hard molybdenum high speed steel and the saw blade body is made of alloyed heat-treated steel. These combine to make the blade extremely wear resistant and unbreakable. It is an ideal blade for high demands.

## JIG-SAW BLADES

| Part #    | Size            | Teeth Per Inch | Application  | Material          |
|-----------|-----------------|----------------|--|-------------------|
| TRJT101B  | 4 X 5/16 X .055 | 10             | HARDWOOD, SOFT WOOD, PLYWOOD, SOFT PLASTICS  | HIGH SPEED STEEL  |
| TRJT118A  | 3 X 5/16 X .039 | 24             | THIN METALS, HARD & SOFT WOOD, THIN FIBERGLASS   | HIGH SPEED STEEL  |
| TRJT118AF | 3 X 5/16 X .039 | 21             | METALS UP TO 4MM THICK   | HIGH SPEED STEEL  |
| TRJT118B  | 3 X 5/16 X .039 | 14             | NON FERROUS METALS UP TO 4MM THICK, ALUMINUM UP TO 10MM THICK, HARD PLASTICS UP TO 8MM THICK | HIGH SPEED STEEL  |
| TRJT127D  | 4 X 5/16 X .039 | 8              | THICKER METALS, PLASTICS   | HIGH SPEED STEEL  |
| TRJT144D  | 4 X 5/16 X .051 | 6              | HARDWOOD, SOFT WOOD, SOFT PLASTICS, PLEXIGLAS, ROUGH AND FAST CUTS                           | HIGH CARBON STEEL |
| TRJT144DF | 4 X 5/16 X .051 | 6              | HARDWOOD, SOFT WOOD, WOOD W/NAILS, ROUGH AND HEAVY CUTS                                      | HIGH SPEED STEEL  |
| TRJT318A  | 4 X 5/16 X .039 | 4              | PROFILED METALS, MILD STEEL, ALUMINUM, THINNER MATERIALS                                     | HIGH SPEED STEEL  |
| TRJT318B  | 4 X 5/16 X .051 | 4              | PROFILED METALS, MILD STEEL, ALUMINUM, THICKER MATERIALS                                     | HIGH SPEED STEEL  |



# APEX DRIVE BITS & SOCKETS



Apex Drive Bits & Sockets are a premium US made tool. They offer a precision fit and the hardest heat treat in the industry.

## EXTENSION BITS FOR SOCKETS

| Part # | Size     | Hex Drive | Pack Quantity |
|--------|----------|-----------|---------------|
| TAE162 | 1/4 X 2" | 1/4       | 5             |
| TAE242 | 3/8 X 2" | 1/4       |               |
| TAE322 | 1/2 X 2" | 1/4       |               |
| TAE323 | 1/2 X 3" | 1/4       |               |



## SOCKET HEAD INSERT BITS

| Part # | Size          | Hex Drive | Pack Quantity |
|--------|---------------|-----------|---------------|
| TAH101 | 5/32 X 1 5/16 | 1/4       | 5             |
| TAH121 | 3/16 X 1 5/16 | 1/4       |               |
| TAH161 | 1/4 X 1 5/16  | 1/4       |               |



## SOCKET HEAD POWER DRIVE BITS

| Part # | Size      | Hex Drive |
|--------|-----------|-----------|
| TAH102 | 5/32 X 2" | 1/4       |
| TAH122 | 3/16 X 2" | 1/4       |
| TAH162 | 1/4 X 2"  | 1/4       |
| TAHM52 | 5MM X 2"  | 1/4       |



## MAGNETIC NUTSETTERS

| Part #   | Size           | Hex Drive |
|----------|----------------|-----------|
| TAN16175 | 1/4 X 1-3/4"   | 1/4       |
| TAN16256 | 1/4 X 2-9/16"  | 1/4       |
| TAN20175 | 5/16 X 1-3/4"  | 1/4       |
| TAN20256 | 5/16 X 2-9/16" | 1/4       |
| TAN204   | 5/16 X 4"      | 1/4       |
| TAN206   | 5/16 X 6"      | 1/4       |
| TAN24175 | 3/8 X 1-3/4"   | 1/4       |
| TAN24256 | 3/8 X 2-9/16"  | 1/4       |
| TAN244   | 3/8 X 4"       | 1/4       |
| TAN246   | 3/8 X 6"       | 1/4       |



| Part #   | Size          | Hex Drive |
|----------|---------------|-----------|
| TAN28256 | 7/16 X 2-9/16 | 1/4       |
| TAN322   | 1/2 X 2"      | 1/4       |
| TAN7MM   | 7MM X 44.5MM  | 1/4       |
| TAN8MM   | 8MM X 44.5MM  | 1/4       |

# APEX DRIVE BITS & SOCKETS

## PHILLIPS INSERT BITS

| Part #  | Size        | Hex Drive |
|---------|-------------|-----------|
| TAP11   | #1 X 1"     | 1/4       |
| TAP21   | #2 X 1"     | 1/4       |
| TAP4125 | #4 X 1-1/4" | 5/16      |

## PHILLIPS POWER DRIVE BITS

| Part #  | Size        | Hex Drive |
|---------|-------------|-----------|
| TAP1275 | #1 X 2-3/4" | 1/4       |
| TAP16   | #1 X 6"     | 1/4       |
| TAP22   | #2 X 2"     | 1/4       |
| TAP2275 | #2 X 2-3/4" | 1/4       |
| TAP235  | #2 X 3-1/2" | 1/4       |
| TAP26   | #2 X 6"     | 1/4       |
| TAP32   | #3 X 2"     | 1/4       |
| TAP3275 | #3 X 2-3/4" | 1/4       |



| Part #  | Size        | Hex Drive |
|---------|-------------|-----------|
| TAP335  | #3 X 3-1/2" | 1/4       |
| TAP3354 | #3 X 3-1/2" | 1/4       |
| TAP36   | #3 X 6"     | 1/4       |

## PHILLIPS POWER DRIVE BITS • INTERMEDIATE HARDNESS

| Part #  | Size        | Hex Drive |
|---------|-------------|-----------|
| TAP22I  | #2 X 2"     | 1/4       |
| TAP235I | #2 X 3 1/2" | 1/4       |
| TAP335I | #3 X 3 1/2" | 1/4       |

Intermediate hardness should be used when you have problems with a bit shattering or breaking.



# APEX DRIVE BITS & SOCKETS

## SLOTTED POWER DRIVE BITS

| Part #   | Size      | Hex Drive |
|----------|-----------|-----------|
| TAS10122 | 10-12 X 2 | 1/4       |
| TAS12142 | 12-14 X 2 | 1/4       |

## SQUARE POWER DRIVE BITS

| Part #  | Size        | Hex Drive |
|---------|-------------|-----------|
| TAS12   | #1 X 2"     | 1/4       |
| TAS1275 | #1 X 2 3/4" | 1/4       |
| TAS21   | #2 X 1"     | 1/4       |
| TAS22   | #2 X 2"     | 1/4       |
| TAS2275 | #2 X 2 3/4" | 1/4       |
| TAS235  | #2 X 3 1/2" | 1/4       |

## TORX INSERT BITS

| Part # | Size         | Hex Drive |
|--------|--------------|-----------|
| TAT301 | T30 X 1"     | 1/4       |
| TAT401 | T40 X 1"     | 1/4       |
| TAT501 | T50 X 1 1/4" | 5/16      |

## TORX POWER DRIVE BITS

| Part #   | Size         | Hex Drive |
|----------|--------------|-----------|
| TAT082   | T8 X 2"      | 1/4       |
| TAT10275 | T10 X 2-3/4" | 1/4       |
| TAT106   | T10 X 6"     | 1/4       |
| TAT15275 | T15 X 2-3/4" | 1/4       |
| TAT156   | T15 X 6"     | 1/4       |
| TAT202   | T20 X 2"     | 1/4       |
| TAT20275 | T20 X 2-3/4" | 1/4       |
| TAT206   | T20 X 6"     | 1/4       |
| TAT25275 | T25 X 2-3/4" | 1/4       |
| TAT256   | T25 X 6"     | 1/4       |
| TAT272   | T27 X 2"     | 1/4       |



| Part # | Size    | Hex Drive |
|--------|---------|-----------|
| TAS26  | #2 X 6" | 1/4       |
| TAS32  | #3 X 2" | 1/4       |



| Part #   | Size         | Hex Drive |
|----------|--------------|-----------|
| TAT2735  | T27 X 3 1/2" | 1/4       |
| TAT276   | T27 X 6"     | 1/4       |
| TAT30275 | T30 X 2-3/4" | 1/4       |
| TAT306   | T30 X 6"     | 1/4       |
| TAT402   | T40 X 2"     | 1/4       |
| TAT40275 | T40 X 2-3/4" | 1/4       |

# MAGNETIC NUT SETTERS, SQUARE DRIVE BITS, PHILLIPS DRIVE BITS & TORX® DRIVE BITS

## MAGNETIC NUT SETTERS

| Part #     | Size | Length | Pack Quantity |
|------------|------|--------|---------------|
| HKMNS16    | 1/4  | 1 3/4  | 5             |
| HKMNS16256 | 1/4  | 2 9/16 | 5             |
| HKMNS20    | 5/16 | 1 3/4  | 5             |
| HKMNS20256 | 5/16 | 2 9/16 | 5             |
| HKMNS204   | 5/16 | 4      | 5             |
| HKMNS206   | 5/16 | 6      | 5             |
| HKMNS24    | 3/8  | 1 3/4  | 5             |
| HKMNS24256 | 3/8  | 2 9/16 | 5             |



| Part #   | Size | Length | Pack Quantity |
|----------|------|--------|---------------|
| HKMNS244 | 3/8  | 4      | 5             |
| HKMNS246 | 3/8  | 6      | 5             |
| HKMNS28  | 7/16 | 2      | 5             |
| HKMNS32  | 1/2  | 1 3/4  | 5             |

## SQUARE DRIVE BITS

| Part #      | Size | Length  | Pack Quantity |
|-------------|------|---------|---------------|
| HKSDB#12    | #1   | 1 15/16 | 10            |
| HKSDB#12.75 | #1   | 2 3/4   | 10            |
| HKSDB#21    | #2   | 1       | 10            |
| HKSDB#22    | #2   | 1 15/16 | 10            |
| HKSDB#22.75 | #2   | 2 3/4   | 10            |
| HKSDB#23.5  | #2   | 3 1/2   | 10            |
| HKSDB#26    | #2   | 6       | 10            |



2 Piece Square Drive Bits are a longer lasting, better quality bit.

| Part #     | Size | Length  | Pack Quantity |
|------------|------|---------|---------------|
| HKSDB#32   | #3   | 1 15/16 | 10            |
| HKSDB2P#22 | #2   | 2"      | 10            |
| HKSDB2P#23 | #2   | 3"      | 10            |

## PHILLIPS DRIVE BITS

| Part #      | Size | Length  | Pack Quantity |
|-------------|------|---------|---------------|
| HKPDB#11    | #1   | 1       | 10            |
| HKPDB#12.75 | #1   | 2 3/4   | 10            |
| HKPDB#16    | #1   | 6       | 10            |
| HKPDB#21    | #2   | 1       | 10            |
| HKPDB#22    | #2   | 1 15/16 | 10            |
| HKPDB#22.75 | #2   | 2 3/4   | 10            |
| HKPDB#23.5  | #2   | 3 1/2   | 10            |
| HKPDB#26    | #2   | 6       | 10            |
| HKPDB#32    | #3   | 1 15/16 | 10            |



| Part #      | Size | Length | Pack Quantity |
|-------------|------|--------|---------------|
| HKPDB#32.75 | #3   | 2 3/4  | 10            |
| HKPDB#33.5  | #3   | 3 1/2  | 10            |
| HKPDB#36    | #3   | 6      | 10            |

## TORX® DRIVE BITS

| Part #       | Size | Length  | Pack Quantity |
|--------------|------|---------|---------------|
| HKTDBT102.75 | T10  | 2 3/4   | 10            |
| HKTDBT152.75 | T15  | 2 3/4   | 10            |
| HKTDBT156    | T15  | 6       | 10            |
| HKTDBT202    | T20  | 1 15/16 | 10            |
| HKTDBT202.75 | T20  | 2 3/4   | 10            |
| HKTDBT252.75 | T25  | 2 3/4   | 10            |
| HKTDBT256    | T25  | 6       | 10            |
| HKTDBT272    | T27  | 1 15/16 | 10            |



| Part #       | Size | Length | Pack Quantity |
|--------------|------|--------|---------------|
| HKTDBT301    | T30  | 1      | 10            |
| HKTDBT302.75 | T30  | 2 3/4  | 10            |
| HKTDBT401    | T40  | 1      | 10            |
| HKTDBT402.75 | T40  | 2 3/4  | 10            |

# BIT HOLDER, EXTENSION BARS & ALLEN WRENCHES

## BIT HOLDER

### SUPER MAGNETIC

| Part # | Size     | Length | Pack Quantity |
|--------|----------|--------|---------------|
| HKBHM  | 1/4" HEX | 2 3/8  | 5             |



## EXTENSION BARS

| Part # | Size     | Length | Pack Quantity |
|--------|----------|--------|---------------|
| HKEDB4 | 1/4" SQ. | 2 9/16 | 5             |
| HKEDB6 | 3/8" SQ. | 2 9/16 | 5             |
| HKEDB8 | 1/2" SQ. | 2 9/16 | 5             |



Extension Bars provide a simple way to use your sockets with a drill.

## ALLEN WRENCHES



Allen Wrenches are made in USA. Stock sizes are marked with a \*. Lead time on non-stock sizes is 2-3 days.

| Part #  | Size  | Arm   | Pack Quantity |
|---------|-------|-------|---------------|
| HKAW028 | 0.028 | SHORT | 100           |
| HKAW035 | 0.035 | SHORT | 100           |
| HKAW050 | 0.050 | SHORT | 100           |
| HKAW04  | 1/16  | SHORT | 100           |
| HKAW05  | 5/64  | SHORT | 100           |
| HKAW06  | 3/32* | SHORT | 100           |
| HKAW07  | 7/64  | SHORT | 100           |
| HKAW08  | 1/8*  | SHORT | 100           |
| HKAW09  | 9/64  | SHORT | 100           |
| HKAW10  | 5/32* | SHORT | 100           |
| HKAW12  | 3/16* | SHORT | 100           |
| HKAW14  | 7/32  | SHORT | 50            |
| HKAW16  | 1/4   | SHORT | 50            |
| HKAW20  | 5/16* | SHORT | 50            |
| HKAW24  | 3/8*  | SHORT | 25            |
| HKAW28  | 7/16  | SHORT | 10            |
| HKAW32  | 1/2   | SHORT | 10            |
| HKAW36  | 9/16  | SHORT | 10            |
| HKAW40  | 5/8   | SHORT | 10            |
| HKAW48  | 3/4   | SHORT | 10            |
| HKAW56  | 7/8   | SHORT | 10            |
| HKAW64  | 1     | SHORT | 5             |

| Part #  | Size  | Arm   | Pack Quantity |
|---------|-------|-------|---------------|
| HKAW80  | 1 1/4 | SHORT | 1             |
| HKAW96  | 1 1/2 | SHORT | 1             |
| HKAWL04 | 1/16  | LONG  | 100           |
| HKAWL05 | 5/64  | LONG  | 100           |
| HKAWL06 | 3/32  | LONG  | 100           |
| HKAWL07 | 7/64  | LONG  | 100           |
| HKAWL08 | 1/8   | LONG  | 100           |
| HKAWL09 | 9/64  | LONG  | 100           |
| HKAWL10 | 5/32  | LONG  | 100           |
| HKAWL12 | 3/16  | LONG  | 100           |
| HKAWL14 | 7/32  | LONG  | 50            |
| HKAWL16 | 1/4   | LONG  | 50            |
| HKAWL20 | 5/16  | LONG  | 50            |
| HKAWL24 | 3/8   | LONG  | 25            |
| HKAWL28 | 7/16  | LONG  | 10            |
| HKAWL32 | 1/2   | LONG  | 10            |
| HKAWL36 | 9/16  | LONG  | 1             |
| HKAWL40 | 5/8   | LONG  | 1             |
| HKAWL48 | 3/4   | LONG  | 1             |
| HKAWL56 | 7/8   | LONG  | 1             |
| HKAWL64 | 1     | LONG  | 1             |

# EMERY SCREEN, HAND BLIND RIVET TOOLS, & PNEUMATIC BLIND RIVET TOOLS

## EMERY SCREEN



Emery Screen is mainly used in hand metalworking. It is used in fitting work and to clean up corrosion, etc. Screen has an advantage over cloth since it does not hold the sanded particles in during sanding.

| Part #   | Grit     | Roll Length |
|----------|----------|-------------|
| EQEC180S | 180 GRIT | 25 YARDS    |

## HAND BLIND RIVET TOOLS

### PROFERRED BRAND

Part #: TPT01002

HR-705 Proferred Hand Operated Rivet Tool 2 Jaw Nosepiece 3/32", 1/8", 5/32", 3/16

#### Features

- Chrome steel and heat treated jaw & jaw case.
- High grade aluminum die cast housing.
- Carbon steel forged & heat treated handle.

Part #: TPT01003

HR-730 Proferred Hand Operated Lever Tool 3 Jaw Nosepiece 1/8", 5/32", 3/16", 7/32", 1/4"

#### Features

- Lever design reduces physical strength for all rivet sizes.
- Grip design for comfort, safety and utility.

## PNEUMATIC BLIND RIVET TOOLS

### VALUE RIVET BRAND

Marson Part #: V-2/M79014

Air-Hydraulic tool

- Sets 1/8"-3/16" diameter rivets in all materials
- Pulling force: 1870 lbs;
- Stroke: .551"
- Recommended airline pressure: 85-95 lb. Psi.
- Weight: 3.2 lbs.

Marson Part #: V-4/M79060

Air-Hydraulic tool

- Sets 3/32"-1/4" diameter rivets in all materials.
- Pulling force: 3055 lb.
- Stroke: .562"
- Recommended airline pressure: 85-95 lb. Psi.
- Weight: 4.2 lbs.



# PNEUMATIC BLIND RIVET TOOLS

## MARSON BRAND

These next-generation, professional-series air/hydraulic riveters are designed to be light weight and well-balanced. Both are engineered to maximize stroke and pull force with a 3-jaw set. For added convenience, you can direct connect or use the attached swivel. Each tool is supplied with nosepieces to set rivets in all alloys, and comes complete with adjustment service wrenches, hydraulic fluid, fluid applicator, spare jaws, and a removable swivel air connection line with an air OFF/ ON valve built in. An adjustable vacuum system control allows you to control the force of air needed to hold the rivet in place. Or, you may operate with the vacuum system turned off. Recommended air pressure is 70-95 PSI.



Marson Part #: MP-3V/M39045

- Stroke: 3/4"
- Pulling Force: 1,800 lbs.
- Capacity: 3/32" – 3/16", all alloys
- Weight: 2.9 lbs.



Marson Part #: MP-4V/M39048

- Stroke: 1"
- Pulling Force: 3,420 lbs.
- Capacity: 5/32" – 1/4", all alloys,
- 1/4" monobolt nosepiece included
- Weight: 3.7 lbs.

Each of these proven, professional tools features a one-piece molded frame and front swivel air inlet for maximum operator comfort and durability. An external vacuum adjustment offers convenient air flow control for rivet placement and mandrel disposal. This allows the operator to install rivets in any orientation using one hand, and freeing up the other for assembly. Spent mandrels are conveniently collected in the bottle for disposal, encouraging a safer, clean work environment. Tools come complete with oil, replacement jaws, and nosepieces. Recommended air pressure: 85-95 psi.

Marson Part #: 302-E/M39062

- Stroke: .812"
- Pulling Force: 2,000 lbs.
- Capacity: 3/32" – 3/16" diameter in all alloys and up to 1/4" in aluminum/steel combinations.
- Weight: 4 lbs.



# PNEUMATIC RIVET NUT TOOLS

## MARSON BRAND



### SST Series

The versatile, low cost, Spin/Spin pneumatic rivet nut production tool now comes with a quick-change nosepiece assembly and standard socket head cap screw for convenient replacement and change over. For added ease of operation, the Spin/Spin offers a superior ergonomic design, lightweight body, and operates without stroke adjustment. Available models come with 2 front assemblies of your choice.

| Part #        | RPM | Recommended Sizes | Optional Sizes |
|---------------|-----|-------------------|----------------|
| TMSST3/M39803 | 600 | 1/4-20            | 10-24, 5/16-18 |
| TMSST4/M39804 | 400 | 5/16-18, 3/8-16   | -              |



### 140-SP/M39223

The 140-SP features advanced Spin/Pull action, along with 3,057 lbs. of pull force, in a smaller tool. Just hold the Rivet Nut onto the mandrel end and engage. The tool will automatically spin the nut on. Insert the Rivet Nut in the hole and pull the trigger to set the fastener. Then toggle to the bottom trigger and reverse spin the mandrel off. Easy installation in seconds. Comes supplied with inch mandrels and nosepieces 6-32" through 1/4-20" conveniently stored in a durable carry case. Mandrels and nosepieces for 4mm through 6mm can be purchased separately. Weight 4.9 lbs.

| Part #        | Sizes               |
|---------------|---------------------|
| TM140SP/39223 | 6-32 THROUGH 1/4-20 |

TOOLS & ABRASIVES



# SECTION 5: HOSE, PIPE, TUBE, & FITTINGS



# BRASS PIPE FITTINGS

Brass Pipe Fittings are for plumbing and industrial applications. They have a maximum working pressure of 1000 PSI and work in temperature ranges of -65°F to 250°F.

## BRASS CLOSE NIPPLES



| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQBF28131 | 1/8  | 0.75   | 10      |
| EQBF28132 | 1/4  | 0.88   | 10      |
| EQBF28133 | 3/8  | 1      | 10      |
| EQBF28134 | 1/2  | 1.12   | 5       |
| EQBF28135 | 3/4  | 1.31   | 5       |

## BRASS HEX NIPPLES



| Part #    | Size | Length | Hex  | Pkg Qty |
|-----------|------|--------|------|---------|
| EQBF28212 | 1/4  | 1.38   | 9/16 | 10      |
| EQBF28214 | 1/2  | 1.81   | 7/8  | 5       |

## BRASS COUPLINGS



| Part #     | Size | Length | Hex   | Pkg Qty |
|------------|------|--------|-------|---------|
| EQBF28058L | 1/8  | 0.75   | 1/2   | 10      |
| EQBF28059L | 1/4  | 0.88   | 5/8   | 10      |
| EQBF28060L | 3/8  | 1      | 13/16 | 10      |
| EQBF28061L | 1/2  | 1.19   | 15/16 | 5       |
| EQBF28062L | 3/4  | 1.19   | 1 1/4 | 5       |

## BRASS UNIONS



| Part #    | Size | Length | Hex    | Pkg Qty |
|-----------|------|--------|--------|---------|
| EQBF28068 | 1/4  | 1.31   | 1 1/16 | 10      |

## BRASS NIPPLES



| Part #    | Size        | Pkg Qty |
|-----------|-------------|---------|
| EQBF28148 | 3/8 X 1 1/2 | 10      |

## BRASS REDUCING HEX NIPPLES



| Part #     | Size      | Length | Hex    | Pkg Qty |
|------------|-----------|--------|--------|---------|
| EQBF28220L | 1/4 X 1/8 | 1      | 9/16   | 10      |
| EQBF28221  | 3/8 X 1/8 | 1.22   | 11/16  | 10      |
| EQBF28222L | 3/8 X 1/4 | 1.19   | 11/16  | 10      |
| EQBF28223L | 1/2 X 1/4 | 1.34   | 7/8    | 5       |
| EQBF28224L | 1/2 X 3/8 | 1.41   | 7/8    | 5       |
| EQBF28225  | 3/4 X 1/2 | 1.5    | 1 1/16 | 5       |

## BRASS REDUCING COUPLINGS



| Part #     | Size      | Length | Hex    | Pkg Qty |
|------------|-----------|--------|--------|---------|
| EQBF28181L | 1/4 X 1/8 | 0.94   | 5/8    | 10      |
| EQBF28183L | 3/8 X 1/4 | 1      | 13/16  | 10      |
| EQBF28184L | 1/2 X 1/4 | 1.11   | 1      | 5       |
| EQBF28185L | 1/2 X 3/8 | 1.19   | 15/16  | 5       |
| EQBF28189  | 3/4 X 1/2 | 1.19   | 1 3/16 | 5       |

HOSE, PIPE, TUBES & FITTINGS

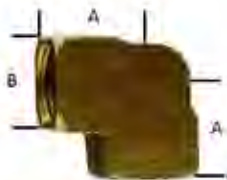
# BRASS PIPE FITTINGS

## BRASS REDUCER BUSHINGS



| Part #     | Size      | Length | Hex    | Pkg Qty |
|------------|-----------|--------|--------|---------|
| EQBF28102L | 1/4 X 1/8 | 0.62   | 9/16   | 10      |
| EQBF28103  | 3/8 X 1/8 | 0.75   | 11/16  | 10      |
| EQBF28104L | 3/8 X 1/4 | 0.69   | 11/16  | 10      |
| EQBF28105L | 1/2 X 1/8 | 0.81   | 13/16  | 5       |
| EQBF28106L | 1/2 X 1/4 | 0.81   | 13/16  | 5       |
| EQBF28107L | 1/2 X 3/8 | 0.81   | 13/16  | 5       |
| EQBF28108  | 3/4 X 1/8 | 0.94   | 1 1/16 | 5       |
| EQBF28109L | 3/4 X 1/4 | 0.94   | 1 1/16 | 5       |
| EQBF28110L | 3/4 X 3/8 | 0.94   | 1 1/16 | 5       |
| EQBF28111L | 3/4 X 1/2 | 0.94   | 1 1/16 | 5       |
| EQBF28112  | 1 X 1/4   | 1.15   | 1 3/8  | 5       |
| EQBF28113  | 1 X 3/8   | 1.12   | 1 3/8  | 5       |
| EQBF28114  | 1 X 1/2   | 1.31   | 1 7/16 | 5       |
| EQBF28115  | 1 X 3/4   | 1.31   | 1 3/8  | 5       |

## BRASS 90° FEMALE ELBOW



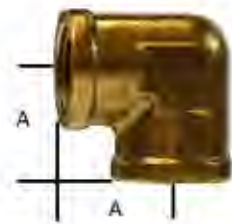
| Part #    | Size | A    | B    | Pkg Qty |
|-----------|------|------|------|---------|
| EQBF28001 | 1/8  | 0.55 | .56  | 10      |
| EQBF28002 | 1/4  | 0.78 | .68  | 10      |
| EQBF28003 | 3/8  | 0.84 | .81  | 10      |
| EQBF28004 | 1/2  | 1.09 | 1    | 5       |
| EQBF28005 | 3/4  | 1.16 | 1.25 | 5       |

## BRASS ADAPTERS



| Part #     | Size (FIP X MIP) | Length | Hex    | Pkg Qty |
|------------|------------------|--------|--------|---------|
| EQBF28190  | 1/8 X 1/8        | 0.88   | 9/16   | 10      |
| EQBF28191L | 1/4 X 1/8        | 0.94   | 5/8    | 10      |
| EQBF28192L | 1/4 X 1/4        | 1      | 5/8    | 10      |
| EQBF28193L | 3/8 X 1/4        | 1.12   | 13/16  | 10      |
| EQBF28194L | 3/8 X 3/8        | 1.24   | 13/16  | 10      |
| EQBF28199  | 1/2 X 1/4        | 1.46   | 1 1/16 | 5       |
| EQBF28195L | 1/2 X 3/8        | 1.19   | 15/16  | 5       |
| EQBF28196  | 1/2 X 1/2        | 1.66   | 1 1/16 | 5       |
| EQBF28207  | 3/4 X 3/8        | 1.59   | 1 1/4  | 5       |
| EQBF28208  | 3/4 X 1/2        | 1.69   | 1 3/8  | 5       |
| EQBF28209  | 3/4 X 3/4        | 1.69   | 1 3/8  | 5       |

## BRASS 90° FORGED FEMALE REDUCING ELBOW



| Part #    | Size      | A    | Body Width | Pkg Qty |
|-----------|-----------|------|------------|---------|
| EQBF28014 | 1/4 X 1/8 | 0.72 | .69        | 10      |
| EQBF28015 | 3/8 X 1/4 | 0.81 | .81        | 10      |
| EQBF28016 | 1/2 X 3/8 | 1    | 1          | 5       |

## BRASS 90° STREET ELBOW



| Part #     | Size      | A    | B    | C    | Pkg Qty |
|------------|-----------|------|------|------|---------|
| EQBF28156  | 1/8       | 0.48 | .66  | 0.56 | 10      |
| EQBF28156S | 1/8 SHORT | 0.34 | .57  | 0.5  | 10      |
| EQBF28157  | 1/4       | 0.72 | .91  | 0.68 | 10      |
| EQBF28158  | 3/8       | 0.78 | .97  | 0.81 | 10      |
| EQBF28159  | 1/2       | 1.03 | 1.25 | 1    | 5       |
| EQBF28169  | 3/4       | 1.12 | 1.38 | 1.25 | 5       |

# BRASS PIPE FITTINGS

## BRASS 90° FORGED REDUCING STREET ELBOW



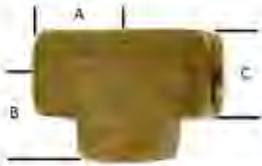
| Part #     | Size      | A    | B    | C    | Pkg Qty |
|------------|-----------|------|------|------|---------|
| EQBF28260  | 1/8 X 1/4 | 0.5  | .87  | 0.71 | 10      |
| EQBF28261B | 1/4 X 1/8 | 0.53 | .72  | 0.69 | 10      |
| EQBF28262  | 1/4 X 3/8 | 0.93 | 1.06 | 0.59 | 10      |
| EQBF28263  | 3/8 X 1/4 | 0.58 | .94  | 0.81 | 10      |
| EQBF28264  | 3/8 X 1/2 | 0.97 | 1.36 | 1    | 10      |
| EQBF28265  | 1/2 X 3/8 | 0.96 | 1.37 | 1    | 5       |

## BRASS 45° STREET ELBOW



| Part #    | Size | A    | B   | C    | Pkg Qty |
|-----------|------|------|-----|------|---------|
| EQBF28230 | 1/8  | 0.5  | .38 | 0.56 | 10      |
| EQBF28231 | 1/4  | 0.72 | .56 | 0.68 | 10      |
| EQBF28232 | 3/8  | 0.78 | .56 | 0.81 | 10      |
| EQBF28233 | 1/2  | 1    | .75 | 1    | 5       |
| EQBF28234 | 3/4  | 1.06 | .75 | 1.25 | 5       |

## BRASS TEE



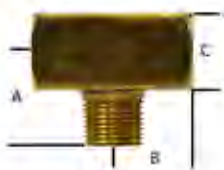
| Part #    | Size | A    | B    | C    | Pkg Qty |
|-----------|------|------|------|------|---------|
| EQBF28024 | 1/8  | 0.55 | .55  | 0.56 | 10      |
| EQBF28025 | 1/4  | 0.78 | .78  | 0.68 | 10      |
| EQBF28026 | 3/8  | 0.84 | .84  | 0.81 | 10      |
| EQBF28027 | 1/2  | 1.09 | 1.09 | 1    | 5       |
| EQBF28036 | 3/4  | 1.16 | 1.16 | 1.25 | 5       |

## BRASS STREET TEE



| Part #    | Size | A    | B   | C    | Pkg Qty |
|-----------|------|------|-----|------|---------|
| EQBF28230 | 1/8  | 0.5  | .38 | 0.56 | 10      |
| EQBF28231 | 1/4  | 0.72 | .56 | 0.68 | 10      |
| EQBF28232 | 3/8  | 0.78 | .56 | 0.81 | 10      |
| EQBF28233 | 1/2  | 1    | .75 | 1    | 5       |
| EQBF28234 | 3/4  | 1.06 | .75 | 1.25 | 5       |

## BRASS BRANCH TEE



| Part #    | Size | A    | B    | C    | Pkg Qty |
|-----------|------|------|------|------|---------|
| EQBF28281 | 1/8  | 0.66 | .55  | 0.56 | 10      |
| EQBF28282 | 1/4  | 0.91 | .78  | 0.68 | 10      |
| EQBF28283 | 3/8  | 0.97 | .84  | 0.81 | 10      |
| EQBF28284 | 1/2  | 1.25 | 1.09 | 1    | 5       |
| EQBF28285 | 3/4  | 1.38 | 1.16 | 1.25 | 5       |

## BRASS CROSS



| Part #    | Size | Length | Width | Pkg Qty | Pkg Qty |
|-----------|------|--------|-------|---------|---------|
| EQBF28041 | 1/8  | 1.1    | .56   | 10      | 10      |
| EQBF28042 | 1/4  | 1.56   | .68   | 10      | 10      |
| EQBF28043 | 3/8  | 1.68   | .81   | 10      | 10      |
| EQBF28044 | 1/2  | 2.18   | 1     | 5       | 5       |
| EQBF28045 | 3/4  | 2.32   | 1.25  | 5       | 5       |

HOSE, PIPE, TUBES & FITTINGS

# BRASS PIPE FITTINGS & BRASS PUSH-IN FITTINGS

## BRASS PIPE FITTINGS

### BRASS HEX CAP



| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF28075 | 1/8  | 0.47   | 9/16  | 10      |
| EQBF28076 | 1/4  | 0.6    | 11/16 | 10      |
| EQBF28077 | 3/8  | 0.69   | 13/16 | 10      |
| EQBF28078 | 1/2  | 0.78   | 15/16 | 5       |
| EQBF28079 | 3/4  | 0.94   | 1 1/4 | 5       |

### BRASS HEX PLUG



| Part #     | Size | Length | Hex    | Style | Pkg Qty |
|------------|------|--------|--------|-------|---------|
| EOBF28201  | 1/8  | 0.55   | 7/16   | CORED | 10      |
| EOBF28202  | 1/4  | 0.62   | 9/16   | CORED | 10      |
| EOBF28203  | 3/8  | 0.72   | 11/16  | CORED | 10      |
| EOBF28203S | 3/8  | 0.66   | 11/16  | SOLID | 10      |
| EOBF28204  | 1/2  | 0.81   | 7/8    | CORED | 5       |
| EOBF28205  | 3/4  | 0.94   | 1 1/16 | CORED | 5       |

### BRASS SQUARE PLUG



| Part #    | Size | Length | Square | Pkg Qty |
|-----------|------|--------|--------|---------|
| EQBF28086 | 3/8  | 0.8    | 7/16   | 10      |
| EQBF28087 | 1/2  | 1.07   | 9/16   | 5       |

## BRASS PUSH-IN FITTINGS

Push-In Tube Fittings offer cost savings and easy assembly. They have a maximum working pressure equal to the plastic tubing used and work between -10°F and 200°F.

### BRASS PUSH-IN UNIONS



| Part #    | Size | Length | OD  | Pkg Qty |
|-----------|------|--------|-----|---------|
| EQBF20017 | 1/8  | 1.07   | .38 | 10      |
| EQBF20019 | 1/4  | 1.5    | .44 | 10      |
| EQBF20020 | 3/8  | 1.44   | .56 | 10      |

### BRASS PUSH-IN UNION TEES



| Part #    | Size | A   | Body | Pkg Qty |
|-----------|------|-----|------|---------|
| EQBF20028 | 1/4  | .92 | .37  | 10      |
| EQBF20029 | 3/8  | .98 | .5   | 10      |

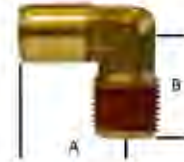
# BRASS PUSH-IN FITTINGS

## BRASS PUSH-IN MALE ADAPTERS



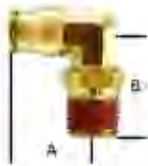
| Part #    | Tube OD X NPT | Length | Hex   | Pkg Qty |
|-----------|---------------|--------|-------|---------|
| EQBF20054 | 1/4 X 1/8     | .93    | 7/16  | 10      |
| EQBF20055 | 1/4 X 1/4     | .93    | 9/16  | 10      |
| EQBF20056 | 1/4 X 3/8     | .94    | 11/16 | 10      |
| EQBF20058 | 3/8 X 1/4     | 1.11   | 9/16  | 10      |
| EQBF20059 | 3/8 X 3/8     | 1.02   | 11/16 | 10      |
| EQBF20062 | 3/8 X 1/2     | 1.02   | 7/8   | 5       |

## BRASS PUSH-IN 90° MALE ELBOWS



| Part #    | Size      | A    | B    | Body Size | Pkg Qty |
|-----------|-----------|------|------|-----------|---------|
| EQBF20065 | 1/8 X 1/8 | .69  | .69  | .31       | 10      |
| EQBF20068 | 1/4 X 1/8 | .89  | .75  | .37       | 10      |
| EQBF20069 | 1/4 X 1/4 | .95  | .96  | .37       | 10      |
| EQBF20064 | 1/2 X 1/2 | 1.16 | 1.66 | .62       | 5       |

## BRASS PUSH-IN 90° SWIVEL MALE ELBOWS



| Part #    | Size      | A    | B    | Hex   | Pkg Qty |
|-----------|-----------|------|------|-------|---------|
| EQBF20083 | 3/8 X 1/4 | .99  | 1.15 | 9/16  | 10      |
| EQBF20084 | 3/8 X 3/8 | 1    | 1.24 | 11/16 | 10      |
| EQBF20085 | 1/2 X 3/8 | 1.16 | 1.34 | 11/16 | 5       |
| EQBF20092 | 1/2 X 1/2 | 1.16 | 1.61 | 5/8   | 5       |

## BRASS PUSH-IN MALE BRANCH TEES



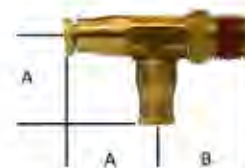
| Part #    | Size      | A   | B   | Body Size | Pkg Qty |
|-----------|-----------|-----|-----|-----------|---------|
| EQBF20115 | 1/4 X 1/8 | .92 | .74 | .37       | 10      |
| EQBF20116 | 1/4 X 1/4 | .91 | .93 | .37       | 10      |

## BRASS PUSH-IN SWIVEL MALE BRANCH TEES



| Part #    | Size      | A   | B    | Hex   | Pkg Qty |
|-----------|-----------|-----|------|-------|---------|
| EQBF20107 | 3/8 X 1/4 | .96 | 1.14 | 1/2   | 10      |
| EQBF20108 | 3/8 X 3/8 | .96 | 1.23 | 11/16 | 10      |

## BRASS PUSH-IN SWIVEL MALE RUN TEES



| Part #    | Size      | A   | B    | Hex  | Pkg Qty |
|-----------|-----------|-----|------|------|---------|
| EQBF20164 | 3/8 X 1/4 | .94 | 1.19 | 9/16 | 10      |
| EQBF20165 | 3/8 X 3/8 | .96 | 1.24 | 1/2  | 10      |

HOSE, PIPE, TUBES & FITTINGS

# BRASS COMPRESSION FITTINGS

Compression Fittings are for use with copper, aluminum, and thermoplastic tubing. They are for temperature range -65°F to 200°F and have a fair resistance to vibration. Not recommended for use with steel tubing.

## CHART FOR WORKING PRESSURES AND THREAD SIZE

| Tube OD          | 3/16   | 1/4     | 5/16   | 3/8     | 1/2      | 5/8      | 3/4 |
|------------------|--------|---------|--------|---------|----------|----------|-----|
| THREAD SIZE      | 3/8-24 | 7/16-24 | 1/2-24 | 9/16-24 | 11/16-20 | 13/16-18 | 1-8 |
| WORKING PRESSURE | 400    | 300     | 300    | 200     | 200      | 150      | 100 |

## BRASS COMPRESSION SLEEVE



| Part #    | Size      | Length | OD  | Pkg Qty |
|-----------|-----------|--------|-----|---------|
| EQBF18002 | 3/16      | .22    | .27 | 10      |
| EQBF18003 | 1/4       | .25    | .34 | 10      |
| EQBF18004 | 5/16      | .25    | .41 | 10      |
| EQBF18005 | 3/8       | .25    | .47 | 10      |
| EQBF18007 | 1/2       | .38    | .59 | 5       |
| EQBF20062 | 3/8 X 1/2 | 1.02   | 7/8 | 5       |

## BRASS COMPRESSION NUT



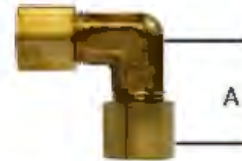
| Part #    | Size | Thread   | Length | Hex   | Pkg Qty |
|-----------|------|----------|--------|-------|---------|
| EQBF18035 | 1/4  | 7/16-24  | .44    | 1/2   | 10      |
| EQBF18036 | 5/16 | 1/2-24   | .44    | 9/16  | 10      |
| EQBF18037 | 3/8  | 9/16-24  | .47    | 5/8   | 10      |
| EQBF18039 | 1/2  | 11/16-20 | .62    | 13/16 | 5       |

## BRASS COMPRESSION UNION



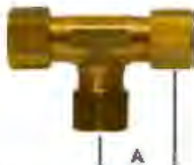
| Part #     | Size | Length | Hex  | Pkg Qty |
|------------|------|--------|------|---------|
| EQBF18063  | 3/16 | .75    | 3/8  | 10      |
| EQBF18064L | 1/4  | .79    | 7/16 | 10      |
| EQBF18065  | 5/16 | .88    | 1/2  | 10      |
| EQBF18066  | 3/8  | .98    | 9/16 | 10      |

## BRASS COMPRESSION UNION 90° ELBOW



| Part #    | Size | A   | Body Size | Pkg Qty |
|-----------|------|-----|-----------|---------|
| EQBF18123 | 3/16 | .61 | .37       | 10      |
| EQBF18124 | 1/4  | .66 | .38       | 10      |
| EQBF18125 | 5/16 | .69 | .47       | 10      |
| EQBF18126 | 3/8  | .72 | .43       | 10      |

## BRASS COMPRESSION UNION TEE



| Part #    | Size | A   | Body Size | Pkg Qty |
|-----------|------|-----|-----------|---------|
| EQBF18102 | 3/16 | .59 | .36       | 10      |
| EQBF18103 | 1/4  | .63 | .36       | 10      |
| EQBF18104 | 5/16 | .72 | .5        | 10      |
| EQBF18105 | 3/8  | .75 | .5        | 10      |

## BRASS COMPRESSION FEMALE ADAPTER



| Part #    | Size (Comp X FIP) | Length | Hex | Pkg Qty |
|-----------|-------------------|--------|-----|---------|
| EQBF18148 | 1/4 X 1/2         | 1.02   | 7/8 | 10      |

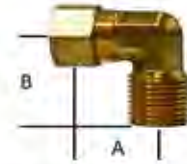
# BRASS COMPRESSION FITTINGS

## BRASS COMPRESSION MALE ADAPTER



| Part #     | Size (Comp X MIP) | Length | Hex   | Pkg Qty |
|------------|-------------------|--------|-------|---------|
| EQBF18180L | 1/4 X 1/4         | .94    | 9/16  | 10      |
| EQBF18188L | 3/8 X 1/4         | 1.03   | 9/16  | 10      |
| EQBF18189L | 3/8 X 3/8         | 1.09   | 11/16 | 10      |

## BRASS COMPRESSION 90° MALE ELBOW



| Part #    | Size      | A   | B   | Body Size | Pkg Qty |
|-----------|-----------|-----|-----|-----------|---------|
| EQBF18220 | 1/8 X 1/8 | .59 | .75 | .34       | 10      |
| EQBF18225 | 1/4 X 1/4 | .65 | .94 | .36       | 10      |
| EQBF18233 | 3/8 X 1/4 | .75 | .82 | .46       | 10      |
| EQBF18234 | 3/8 X 3/8 | .81 | .94 | .46       | 10      |

## BRASS COMPRESSION BALL CHECK VALVE



Minimum working pressure 3 PSI

| Part #    | Tube OD X NPT | Length | Hex | Pkg Qty |
|-----------|---------------|--------|-----|---------|
| EQBF18094 | 1/4 X 1/8     | .88    | .44 | 10      |

HOSE, PIPE, TUBES & FITTINGS



# BRASS HOSE BARB FITTINGS

These hose barb fittings are intended for use with a hose clamp or crimped ferrule. They are rated for a maximum 150 PSI and work from -40° to 160°F.

## HOSE CLAMP POSITION

| Hose Size | Distance from Stop Ring |
|-----------|-------------------------|
| 1/4       | 1/4                     |
| 5/16      | 1/4                     |
| 3/8       | 1/8                     |

| Hose Size | Distance from Stop Ring |
|-----------|-------------------------|
| 1/2       | 1/8                     |
| 5/8       | 1/8                     |
| 3/4       | 1/8                     |

## BRASS HOSE BARB MALE ADAPTER

| Part #    | Size (Hose X MIP) | Barb Length | Length | Hex   | Pkg Qty |
|-----------|-------------------|-------------|--------|-------|---------|
| EQBF32001 | 1/8 X 1/8         | .69         | 1.19   | 7/16  | 10      |
| EQBF32002 | 3/16 X 1/8        | .75         | 1.19   | 7/16  | 10      |
| EQBF32003 | 3/16 X 1/4        | .69         | 1.37   | 9/16  | 10      |
| EQBF32004 | 1/4 X 1/8         | .97         | 1.47   | 7/16  | 10      |
| EQBF32005 | 1/4 X 1/4         | .97         | 1.72   | 9/16  | 10      |
| EQBF32006 | 1/4 X 3/8         | .97         | 1.72   | 11/16 | 10      |
| EQBF32008 | 5/16 X 1/8        | .97         | 1.47   | 7/16  | 10      |
| EQBF32009 | 5/16 X 1/4        | .97         | 1.72   | 9/16  | 10      |
| EQBF32010 | 5/16 X 3/8        | .97         | 1.76   | 11/16 | 10      |
| EQBF32011 | 3/8 X 1/8         | .97         | 1.53   | 9/16  | 10      |
| EQBF32012 | 3/8 X 1/4         | .97         | 1.75   | 9/16  | 10      |
| EQBF32013 | 3/8 X 3/8         | .96         | 1.72   | 11/16 | 10      |
| EQBF32014 | 3/8 X 1/2         | .97         | 1.97   | 7/8   | 10      |
| EQBF32302 | 1/2 X 1/8         | .95         | 1.57   | 9/16  | 5       |
| EQBF32015 | 1/2 X 1/4         | .97         | 1.72   | 9/16  | 5       |
| EQBF32016 | 1/2 X 3/8         | .97         | 1.76   | 11/16 | 5       |



| Part #    | Size (Hose X MIP) | Barb Length | Length | Hex    | Pkg Qty |
|-----------|-------------------|-------------|--------|--------|---------|
| EQBF32017 | 1/2 X 1/2         | .96         | 1.87   | 7/8    | 5       |
| EQBF32018 | 1/2 X 3/4         | .97         | 1.94   | 1 1/16 | 5       |
| EQBF32304 | 5/8 X 1/4         | .92         | 1.67   | 11/16  | 5       |
| EQBF32019 | 5/8 X 3/8         | .97         | 1.76   | 11/16  | 5       |
| EQBF32020 | 5/8 X 1/2         | .96         | 1.87   | 7/8    | 5       |
| EQBF32021 | 5/8 X 3/4         | .96         | 1.87   | 1 1/16 | 5       |
| EQBF32306 | 3/4 X 3/8         | .87         | 1.65   | 13/16  | 5       |
| EQBF32022 | 3/4 X 1/2         | .96         | 1.87   | 7/8    | 5       |
| EQBF32023 | 3/4 X 3/4         | .96         | 1.87   | 1 1/16 | 5       |
| EQBF32316 | 3/4 X 1           | 1.15        | 2.55   | 1 3/8  | 5       |
| EQBF32025 | 1 X 1             | 1.19        | 2.48   | 1 3/8  | 5       |
| EQBF32028 | 1 1/4 X 1         | 1.19        | 2.55   | 1 3/8  | 3       |

## BRASS HOSE BARB MENDER

| Part #    | Size (Hose X Hose) | Barb Length | Length | OD  | Pkg Qty |
|-----------|--------------------|-------------|--------|-----|---------|
| EQBF32092 | 3/16 X 3/16        | .77         | 1.62   | .36 | 10      |
| EQBF32093 | 1/4 X 1/4          | .96         | 2      | .37 | 10      |
| EQBF32094 | 5/16 X 5/16        | .96         | 2      | .39 | 10      |
| EQBF32375 | 3/8 X 5/16         | .97         | 2      | .56 | 10      |
| EQBF32095 | 3/8 X 3/8          | .94         | 2      | .51 | 10      |
| EQBF32096 | 1/2 X 1/2          | .96         | 2      | .62 | 5       |
| EQBF32097 | 5/8 X 5/8          | .96         | 2.05   | .75 | 5       |



| Part #    | Size (Hose X Hose) | Barb Length | Length | OD   | Pkg Qty |
|-----------|--------------------|-------------|--------|------|---------|
| EQBF32098 | 3/4 X 3/4          | 1.15        | 2.5    | .87  | 5       |
| EQBF32099 | 1 X 1              | 1.44        | 3      | 1.02 | 5       |

HOSE, PIPE, TUBES & FITTINGS

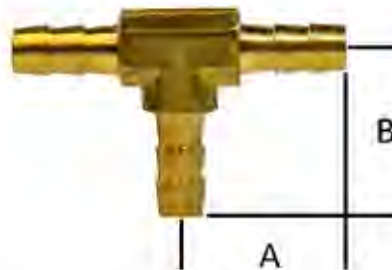
# BRASS HOSE BARB FITTINGS

## BRASS HOSE BARB MALE 90° ELBOW



| Part #    | Size (Hose X NPT) | A    | B    | Barb Length | Body Size | Pkg Qty |
|-----------|-------------------|------|------|-------------|-----------|---------|
| EQBF32308 | 3/16 X 1/8        | .95  | .7   | .66         | 0.37      | 10      |
| EQBF32038 | 1/4 X 1/8         | 1.01 | .81  | .71         | 0.47      | 10      |
| EQBF32039 | 1/4 X 1/4         | 1.01 | .87  | .63         | 0.47      | 10      |
| EQBF32309 | 1/4 X 3/8         | 1.08 | .97  | .73         | 0.69      | 10      |
| EQBF32036 | 5/16 X 1/8        | 1.01 | .81  | .63         | 0.47      | 10      |
| EQBF32040 | 5/16 X 1/4        | 1.01 | .87  | .63         | 0.47      | 10      |
| EQBF32310 | 5/16 X 3/8        | 1.06 | .94  | .63         | 0.5       | 10      |
| EQBF32046 | 3/8 X 1/8         | 1.01 | .81  | .63         | 0.47      | 10      |
| EQBF32041 | 3/8 X 1/4         | 1.02 | .88  | .65         | 0.47      | 10      |
| EQBF32042 | 3/8 X 3/8         | 1.09 | .93  | .68         | 0.5       | 10      |
| EQBF32047 | 3/8 X 1/2         | 1.11 | 1.09 | .63         | 0.59      | 10      |
| EQBF32048 | 1/2 X 1/4         | 1.06 | 1.00 | .68         | 0.59      | 5       |
| EQBF32043 | 1/2 X 3/8         | 1.06 | 1.09 | .69         | 0.59      | 5       |
| EQBF32311 | 1/2 X 1/2         | 1.31 | 1.19 | .87         | 0.56      | 5       |
| EQBF32044 | 5/8 X 3/8         | 1.12 | 1.06 | .61         | 0.56      | 5       |
| EQBF32045 | 5/8 X 1/2         | 1.12 | 1.12 | .66         | 0.59      | 5       |
| EQBF32312 | 5/8 X 3/4         | 1.46 | 1.26 | .93         | 1.06      | 5       |
| EQBF32313 | 3/4 X 1/2         | 1.31 | 1.28 | .87         | 0.85      | 5       |
| EQBF32314 | 3/4 X 3/4         | 1.46 | 1.26 | .91         | 1.06      | 5       |

## BRASS HOSE BARB TEE



| Part #    | Size | A    | B    | Body Size | Pkg Qty |
|-----------|------|------|------|-----------|---------|
| EQBF32365 | 1/4  | 1    | 1    | .44       | 10      |
| EQBF32366 | 5/16 | 1    | 1    | .44       | 10      |
| EQBF32126 | 3/8  | 1.01 | 1.01 | .43       | 10      |
| EQBF32400 | 1/2  | 1.02 | 1    | .43       | 5       |
| EQBF32361 | 5/8  | 1.26 | 1.26 | .75       | 5       |
| EQBF32363 | 3/4  | 1.26 | 1.26 | .88       | 5       |

## BRASS HOSE BARB 90° ELBOW



| Part #    | Size        | A    | B    | Body Size | Pkg Qty |
|-----------|-------------|------|------|-----------|---------|
| EQBF32413 | 1/4 X 1/4   | 1.01 | 1.01 | .44       | 10      |
| EQBF32425 | 5/16 X 5/16 | 1.15 | 1.15 | .48       | 10      |
| EQBF32415 | 3/8 X 1/4   | 1.00 | 1.00 | .44       | 10      |
| EQBF32416 | 3/8 X 3/8   | 1.02 | 1.02 | .44       | 10      |
| EQBF32418 | 1/2 X 1/4   | 1.24 | 1.08 | .5        | 5       |
| EQBF32419 | 1/2 X 3/8   | 1.22 | 1.09 | .5        | 5       |
| EQBF32420 | 1/2 X 1/2   | 1.24 | 1.24 | .5        | 5       |

## BRASS PUSH ON HOSE BARB MENDER



| Part #    | Size | OAL  | Pkg Qty |
|-----------|------|------|---------|
| EQBF30300 | 1/4  | 1.87 | 10      |
| EQBF30305 | 5/16 | 1.8  | 10      |
| EQBF30301 | 3/8  | 2    | 10      |

HOSE, PIPE, TUBES & FITTINGS

# BRASS HOSE BARB FITTINGS & BRASS DOT AIR BRAKE NYLON TUBING FITTINGS

## BRASS PUSH ON HOSE BARB MALE ADAPTER



| Part #    | Size (Hose X MIP) | Barb Length | OAL  | Hex   | Pkg Qty |
|-----------|-------------------|-------------|------|-------|---------|
| EQBF30200 | 1/4 X 1/8         | .87         | 1.43 | 1/2   | 10      |
| EQBF30201 | 1/4 X 1/4         | .87         | 1.66 | 9/16  | 10      |
| EQBF30212 | 5/16 X 1/8        | .77         | 1.42 | 7/16  | 10      |
| EQBF30213 | 5/16 X 1/4        | .87         | 1.66 | 9/16  | 10      |
| EQBF30202 | 3/8 X 1/8         | .97         | 1.53 | 1/2   | 10      |
| EQBF30203 | 3/8 X 1/4         | .89         | 1.69 | 9/16  | 10      |
| EQBF30204 | 3/8 X 3/8         | .97         | 1.76 | 11/16 | 10      |

## BRASS PUSH ON HOSE BARB 90° MALE ELBOW



| Part #    | Size (Hose X MIP) | A    | B   | Body Size | Pkg Qty |
|-----------|-------------------|------|-----|-----------|---------|
| EQBF30372 | 1/4 X 1/8         | .98  | .75 | 0.5       | 10      |
| EQBF30373 | 1/4 X 1/4         | 1.04 | .95 | 0.56      | 10      |
| EQBF30374 | 5/16 X 1/8        | 1.02 | .94 | 0.5       | 10      |
| EQBF30375 | 5/16 X 1/4        | 1.09 | .94 | 0.56      | 10      |
| EQBF30370 | 3/8 X 1/8         | 1.11 | .75 | 0.5       | 10      |
| EQBF30371 | 3/8 X 1/4         | 1.12 | .9  | 0.56      | 10      |
| EQBF30376 | 3/8 X 3/8         | 1.21 | .92 | 0.7       | 10      |

## BRASS DOT AIR BRAKE NYLON TUBING FITTINGS

DOT Air Brake Fittings are easy to assemble and have built in tube support. They have a maximum operating pressure of 150 PSI, fair resistance to vibration, and can be used in temperatures between -40° and 200°F. Use them with Nylon Tubing SAE J844 Type A and B.

### BRASS DOT AIR BRAKE NYLON TUBING SLEEVES



| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQBF38001 | 1/4  | .3     | 10      |
| EQBF38002 | 3/8  | .39    | 10      |
| EQBF38003 | 1/2  | .43    | 5       |
| EQBF38004 | 5/8  | .48    | 5       |
| EQBF38005 | 3/4  | .53    | 5       |

### BRASS DOT AIR BRAKE NYLON TUBING NUTS



| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF38010 | 1/4  | .45    | 9/16  | 10      |
| EQBF38011 | 3/8  | .63    | 5/8   | 10      |
| EQBF38012 | 1/2  | .72    | 13/16 | 5       |
| EQBF38013 | 5/8  | .77    | 15/16 | 5       |

# BRASS DOT AIR BRAKE NYLON TUBING FITTINGS

## BRASS DOT AIR BRAKE NYLON TUBING INSERTS



| Part #    | Size | Length | OD  | Pkg Qty |
|-----------|------|--------|-----|---------|
| EQBF38040 | 1/4  | .66    | .15 | 10      |
| EQBF38041 | 3/8  | .84    | .24 | 10      |
| EQBF38042 | 1/2  | 1      | .37 | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING UNIONS



| Part #    | Size | Length | Hex   | Pkg Qty |
|-----------|------|--------|-------|---------|
| EQBF38019 | 1/4  | .85    | 7/16  | 10      |
| EQBF38020 | 3/8  | 1.1    | 9/16  | 10      |
| EQBF38021 | 1/2  | 1.31   | 11/16 | 5       |
| EQBF38022 | 5/8  | 1.43   | 13/16 | 5       |
| EQBF38023 | 3/4  | 1.6    | 1     | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING MALE ADAPTERS

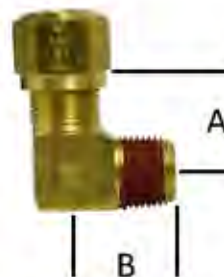
| Part #    | Size (Tube X NPT) | Length | Hex    | Pkg Qty |
|-----------|-------------------|--------|--------|---------|
| EQBF38073 | 1/4 X 1/8         | .88    | 7/16   | 10      |
| EQBF38074 | 1/4 X 1/4         | 1.09   | 9/16   | 10      |
| EQBF38075 | 1/4 X 3/8         | 1.07   | 11/16  | 10      |
| EQBF38076 | 3/8 X 1/8         |        | 9/16   | 10      |
| EQBF38077 | 3/8 X 1/4         | 1.2    | 9/16   | 10      |
| EQBF38078 | 3/8 X 3/8         | 1.24   | 11/16  | 10      |
| EQBF38079 | 3/8 X 1/2         | 1.43   | 7/8    | 10      |
| EQBF38080 | 1/2 X 1/4         |        | 11/16  | 5       |
| EQBF38081 | 1/2 X 3/8         | 1.32   | 11/16  | 5       |
| EQBF38082 | 1/2 X 1/2         | 1.51   | 7/8    | 5       |
| EQBF38087 | 1/2 X 3/4         | 1.57   | 1 1/16 | 5       |



| Part #    | Size (Tube X NPT) | Length | Hex    | Pkg Qty |
|-----------|-------------------|--------|--------|---------|
| EQBF38083 | 5/8 X 3/8         | 1.39   | 13/16  | 5       |
| EQBF38084 | 5/8 X 1/2         |        | 7/8    | 5       |
| EQBF38088 | 5/8 X 3/4         |        | 1 1/16 | 5       |
| EQBF38085 | 3/4 X 1/2         | 1.68   | 1      | 5       |
| EQBF38086 | 3/4 X 3/4         | 1.71   | 1 1/16 | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING 90° MALE ELBOWS

| Part #    | Size (Tube X NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|
| EQBF38091 | 1/4 X 1/8         | .61  | .65  | 10      |
| EQBF38092 | 1/4 X 1/4         | .67  | .86  | 10      |
| EQBF38093 | 1/4 X 3/8         | .72  | .85  | 10      |
| EQBF38094 | 3/8 X 1/8         | .72  | .73  | 10      |
| EQBF38095 | 3/8 X 1/4         | .8   | .93  | 10      |
| EQBF38101 | 3/8 X 3/8         | .83  | .9   | 10      |
| EQBF38102 | 3/8 X 1/2         | .93  | 1.09 | 10      |
| EQBF38103 | 1/2 X 1/4         | .85  | .98  | 5       |
| EQBF38104 | 1/2 X 3/8         | .92  | .98  | 5       |
| EQBF38105 | 1/2 X 1/2         | 1.02 | 1.17 | 5       |
| EQBF38106 | 5/8 X 3/8         | 1    | 1.05 | 5       |



| Part #    | Size (Tube X NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|
| EQBF38107 | 5/8 X 1/2         | 1.1  | 1.25 | 5       |
| EQBF38110 | 5/8 X 3/4         | 1.09 | 1.24 | 5       |
| EQBF38108 | 3/4 X 1/2         | 1.19 | 1.33 | 5       |

HOSE, PIPE, TUBES & FITTINGS

# BRASS DOT AIR BRAKE NYLON TUBING FITTINGS

## BRASS DOT AIR BRAKE NYLON TUBING 45° MALE ELBOWS

| Part #    | Size (Tube X NPT) | A   | B   | Pkg Qty |
|-----------|-------------------|-----|-----|---------|
| EQBF38148 | 1/4 X 1/8         | .49 | .63 | 10      |
| EQBF38149 | 1/4 X 1/4         | .6  | .85 | 10      |
| EQBF38150 | 3/8 X 1/8         | .71 | .67 | 10      |
| EQBF38151 | 3/8 X 1/4         | .72 | .86 | 10      |
| EQBF38152 | 3/8 X 3/8         | .76 | .95 | 10      |
| EQBF38153 | 3/8 X 1/2         | .78 | 1.2 | 10      |
| EQBF38157 | 1/2 X 1/4         | .85 | .95 | 5       |
| EQBF38154 | 1/2 X 3/8         | .84 | .94 | 5       |



| Part #    | Size (Tube X NPT) | A   | B    | Pkg Qty |
|-----------|-------------------|-----|------|---------|
| EQBF38155 | 1/2 X 1/2         | .87 | 1.16 | 5       |
| EQBF38156 | 5/8 X 1/2         | 1   | 1.2  | 5       |
| EQBF38158 | 3/4 X 1/2         | 1.1 | 1.18 | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING TEES



| Part #    | Tube OD | A   | Pkg Qty |
|-----------|---------|-----|---------|
| EQBF38045 | 3/8     | .78 | 10      |

## BRASS DOT AIR BRAKE NYLON TUBING MALE BRANCH TEES



| Part #    | Size (Tube X NPT) | A    | B    | Pkg Qty |
|-----------|-------------------|------|------|---------|
| EQBF38136 | 1/4 X 1/8         | .61  | .65  | 10      |
| EQBF38137 | 1/4 X 1/4         | .67  | .86  | 10      |
| EQBF38138 | 3/8 X 1/8         | .71  | .73  | 10      |
| EQBF38139 | 3/8 X 1/4         | .78  | .91  | 10      |
| EQBF38140 | 3/8 X 3/8         | .83  | .9   | 10      |
| EQBF38133 | 1/2 X 1/4         | .87  | 1    | 5       |
| EQBF38141 | 1/2 X 3/8         | .92  | .98  | 5       |
| EQBF38142 | 1/2 X 1/2         | 1.02 | 1.17 | 5       |
| EQBF38143 | 5/8 X 1/2         | 1.09 | 1.24 | 5       |

## BRASS DOT AIR BRAKE NYLON TUBING MALE RUN TEES



| Part #    | Size (Tube X NPT X Tube) | A   | B   | Pkg Qty |
|-----------|--------------------------|-----|-----|---------|
| EQBF38125 | 1/4 X 1/8 X 1/4          | .61 | .65 | 10      |
| EQBF38126 | 1/4 X 1/4 X 1/4          | .68 | .86 | 10      |
| EQBF38127 | 3/8 X 1/4 X 3/8          | .78 | .91 | 10      |
| EQBF38128 | 3/8 X 3/8 X 3/8          | .83 | .9  | 10      |
| EQBF38129 | 1/2 X 3/8 X 1/2          | .92 | .98 | 5       |

# BRASS DOT PUSH-IN FITTINGS

DOT Push-In Tube Fittings offer cost savings and easy assembly. They meet D.O.T. FMVSS 571.106 SAE J1131 air brake system requirements. They have a maximum working pressure of 150 PSI and work between -40° and 200°F.

## NYLON DOT PUSH-IN PLUG



| Part #     | Size | OAL  | Pkg Qty |
|------------|------|------|---------|
| EQBF590400 | 1/4  | .81  | 10      |
| EQBF590600 | 3/8  | 1.34 | 10      |
| EQBF590800 | 1/2  | .99  | 5       |

## BRASS DOT PUSH-IN UNION



| Part #     | Size | OAL  | OD   | Pkg Qty |
|------------|------|------|------|---------|
| EQBF620532 | 5/32 | 1.18 | .39  | 10      |
| EQBF620400 | 1/4  | 1.22 | .47  | 10      |
| EQBF620600 | 3/8  | 1.77 | .67  | 10      |
| EQBF620800 | 1/2  | 2.01 | .81  | 5       |
| EQBF621000 | 5/8  | 2.42 | 1    | 5       |
| EQBF621200 | 3/4  | 2.48 | 1.18 | 5       |

## BRASS DOT PUSH-IN 90° UNION ELBOW



| Part #     | Size | A    | Body Size | Pkg Qty |
|------------|------|------|-----------|---------|
| EQBF650400 | 1/4  | 1.05 | .5        | 10      |
| EQBF650600 | 3/8  | 1.1  | .5        | 10      |
| EQBF650800 | 1/2  | 1.26 | .62       | 5       |

## BRASS DOT PUSH-IN UNION TEE



| Part #     | Size | A    | Body Size | Pkg Qty |
|------------|------|------|-----------|---------|
| EQBF640400 | 1/4  | 1.01 | .37       | 10      |
| EQBF640600 | 3/8  | 1.07 | .5        | 10      |
| EQBF640800 | 1/2  | 1.26 | .62       | 5       |
| EQBF641000 | 5/8  | 1.32 | .69       | 5       |

## BRASS DOT PUSH-IN MALE CONNECTOR

| Part #     | Size       | OAL  | Hex   | Pkg Qty |
|------------|------------|------|-------|---------|
| EQBF685322 | 5/32 X 1/8 | .79  | 7/16  | 10      |
| EQBF680402 | 1/4 X 1/8  | .96  | 7/16  | 10      |
| EQBF680404 | 1/4 X 1/4  | .88  | 9/16  | 10      |
| EQBF680406 | 1/4 X 3/8  | 1.2  | 11/16 | 10      |
| EQBF680602 | 3/8 X 1/8  | 1.16 | 11/16 | 10      |
| EQBF680604 | 3/8 X 1/4  | 1.19 | 11/16 | 10      |
| EQBF680606 | 3/8 X 3/8  | 1T   | 11/16 | 10      |
| EQBF680608 | 3/8 X 1/2  | 1.1  | 7/8   | 10      |
| EQBF680804 | 1/2 X 1/4  | 1.68 | 7/8   | 5       |
| EQBF680806 | 1/2 X 3/8  | 1.64 | 7/8   | 5       |



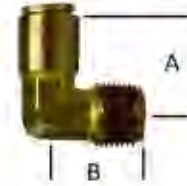
| Part #     | Size      | OAL  | Hex    | Pkg Qty |
|------------|-----------|------|--------|---------|
| EQBF680808 | 1/2 X 1/2 | 1.72 | 7/8    | 5       |
| EQBF681006 | 5/8 X 3/8 | 1.87 | 1 1/16 | 5       |
| EQBF681008 | 5/8 X 1/2 | 2.12 | 1 1/16 | 5       |
| EQBF681208 | 3/4 X 1/2 | 2.11 | 1 3/16 | 5       |
| EQBF681212 | 3/4 X 3/4 | 2.03 | 1 3/16 | 5       |

HOSE, PIPE, TUBES & FITTINGS

# BRASS DOT PUSH-IN FITTINGS

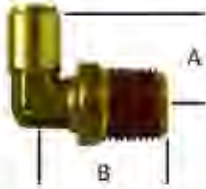
## BRASS DOT PUSH-IN MALE 90° ELBOW

| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF690402 | 1/4 X 1/8 | 1.02 | 1.02 | .55       | 10      |
| EQBF690404 | 1/4 X 1/4 | .87  | 1.02 | .71       | 10      |
| EQBF690406 | 1/4 X 3/8 | .94  | 1.1  | .87       | 10      |
| EQBF690602 | 3/8 X 1/8 | 1.08 | .87  | .9        | 10      |
| EQBF690604 | 3/8 X 1/4 | 1.01 | 1.02 | .9        | 10      |
| EQBF690606 | 3/8 X 3/8 | 1.14 | 1.1  | .9        | 10      |
| EQBF690608 | 3/8 X 1/2 | 1.14 | 1.38 | .94       | 10      |
| EQBF690804 | 1/2 X 1/4 | 1.22 | 1.14 | .87       | 5       |



| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF690806 | 1/2 X 3/8 | 1.26 | 1.14 | .87       | 5       |
| EQBF690808 | 1/2 X 1/2 | 1.28 | 1.38 | .94       | 5       |
| EQBF691006 | 5/8 X 3/8 | 1.44 | 1.22 | .87       | 5       |
| EQBF691008 | 5/8 X 1/2 | 1.54 | 1.42 | 1.18      | 5       |

## BRASS DOT PUSH-IN MALE 90° SWIVEL ELBOW



| Part #      | Size      | A    | B    | Hex   | Pkg Qty |
|-------------|-----------|------|------|-------|---------|
| EQBF690402S | 1/4 X 1/8 | .98  | .91  | 7/16  | 10      |
| EQBF690404S | 1/4 X 1/4 | 1.02 | .88  | 9/16  | 10      |
| EQBF690604S | 3/8 X 1/4 | 1.15 | 1.05 | 11/16 | 10      |
| EQBF690606S | 3/8 X 3/8 | 1.1  | 1.23 | 9/16  | 10      |
| EQBF690806S | 1/2 X 3/8 | 1.27 | 1.42 | 7/8   | 5       |
| EQBF690808S | 1/2 X 1/2 | 1.27 | 1.62 | 7/8   | 5       |
| EQBF690608  | 3/8 X 1/2 | 1.14 | 1.38 | .94   | 10      |

## BRASS DOT PUSH-IN MALE 45° SWIVEL ELBOW



| Part #      | Size      | A    | B    | Hex   | Pkg Qty |
|-------------|-----------|------|------|-------|---------|
| EQBF540402S | 1/4 X 1/8 | .99  | .98  | 7/16  | 10      |
| EQBF540404S | 1/4 X 1/4 | .77  | .94  | 9/16  | 10      |
| EQBF540602S | 3/8 X 1/8 | 1.07 | 1.08 | 7/16  | 10      |
| EQBF540604S | 3/8 X 1/4 | 1.07 | 1.13 | 9/16  | 10      |
| EQBF540606S | 3/8 X 3/8 | 1.08 | 1.23 | 11/16 | 10      |
| EQBF540804S | 1/2 X 1/4 | 1.22 | 1.22 | 9/16  | 5       |
| EQBF540806S | 1/2 X 3/8 | 1.2  | 1.31 | 11/16 | 5       |
| EQBF540808S | 1/2 X 1/2 | 1.2  | 1.61 | 7/8   | 5       |

## BRASS DOT PUSH-IN MALE RUN TEE



| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF710402 | 1/4 X 1/8 | .88  | .79  | .55       | 10      |
| EQBF710404 | 1/4 X 1/4 | .95  | .96  | .43       | 10      |
| EQBF710604 | 3/8 X 1/4 | 1.09 | .96  | .71       | 10      |
| EQBF710606 | 3/8 X 3/8 | 1.06 | 1.1  | .5        | 10      |
| EQBF710806 | 1/2 X 3/8 | 1.3  | 1.14 | .87       | 5       |

## BRASS DOT PUSH-IN MALE SWIVEL RUN TEE

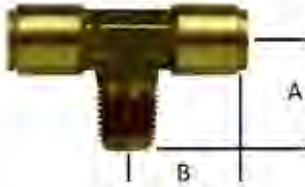


| Part #      | Size      | A    | B    | Hex  | Pkg Qty |
|-------------|-----------|------|------|------|---------|
| EQBF710402S | 1/4 X 1/8 | 1.01 | 1.01 | 7/16 | 10      |
| EQBF710404S | 1/4 X 1/4 | .88  | 1.23 | 9/16 | 10      |
| EQBF710604S | 3/8 X 1/4 | 1.07 | 1.07 | 9/16 | 10      |
| EQBF710606S | 3/8 X 3/8 | 1.06 | 1.17 | 1/2  | 10      |
| EQBF710804S | 1/2 X 1/4 | 1.21 | 1.22 | 9/16 | 5       |
| EQBF710806S | 1/2 X 3/8 | 1.24 | 1.28 | 5/8  | 5       |
| EQBF710808S | 1/2 X 1/2 | 1.24 | 1.58 | 5/8  | 5       |

# BRASS DOT PUSH-IN FITTINGS & FORGED BRASS VALVES

## BRASS DOT PUSH-IN FITTINGS

### BRASS DOT PUSH-IN MALE BRANCH TEE



| Part #     | Size      | A    | B    | Body Size | Pkg Qty |
|------------|-----------|------|------|-----------|---------|
| EQBF720402 | 1/4 X 1/8 | .79  | .85  | .55       | 10      |
| EQBF720404 | 1/4 X 1/4 | .96  | .89  | .43       | 10      |
| EQBF720604 | 3/8 X 1/4 | .96  | 1.08 | .71       | 10      |
| EQBF720606 | 3/8 X 3/8 | 1.1  | 1.14 | .77       | 10      |
| EQBF720804 | 1/2 X 1/4 | 1.13 | 1.22 | .87       | 5       |
| EQBF720806 | 1/2 X 3/8 | 1.07 | 1.26 | .62       | 5       |
| EQBF720808 | 1/2 X 1/2 | 1.42 | 1.34 | .94       | 5       |

### BRASS DOT PUSH-IN MALE SWIVEL BRANCH TEE

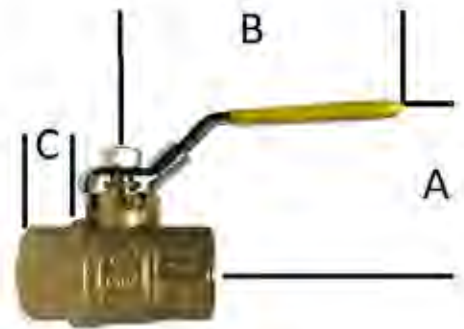


| Part #      | Size      | A    | B    | Hex   | Pkg Qty |
|-------------|-----------|------|------|-------|---------|
| EQBF720402S | 1/4 X 1/8 | .91  | .83  | 7/16  | 10      |
| EQBF720404S | 1/4 X 1/4 | 1.04 | 1.01 | 9/16  | 10      |
| EQBF720604S | 3/8 X 1/4 | 1.1  | 1.1  | 9/16  | 10      |
| EQBF720606S | 3/8 X 3/8 | 1.25 | 2.06 | 11/16 | 10      |
| EQBF720804S | 1/2 X 1/4 | 1.39 | 1.28 | 7/8   | 5       |
| EQBF720806S | 1/2 X 3/8 | 1.26 | 1.31 | 11/16 | 5       |
| EQBF720808S | 1/2 X 1/2 | 1.26 | 1.61 | 7/8   | 5       |

## FORGED BRASS VALVES

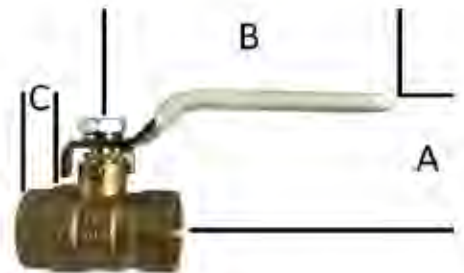
### FULL PORT • 600 PSI

| Part #     | Size  | Length | A    | B    | C    | Hex     |
|------------|-------|--------|------|------|------|---------|
| EQBF940171 | 1/4   | 1.75   | 1.92 | 3.54 | 0.46 | 25/32   |
| EQBF940172 | 3/8   | 1.75   | 1.92 | 3.54 | 0.46 | 25/32   |
| EQBF940173 | 1/2   | 2.05   | 2.08 | 3.54 | 0.52 | 1       |
| EQBF940174 | 3/4   | 2.36   | 2.30 | 3.78 | 0.56 | 1 1/4   |
| EQBF940175 | 1     | 2.75   | 2.68 | 4.52 | 0.66 | 1 1/2   |
| EQBF940176 | 1 1/4 | 3.30   | 3.14 | 4.52 | 0.70 | 1 13/16 |
| EQBF940177 | 1 1/2 | 3.66   | 3.61 | 5.51 | 0.72 | 2 3/32  |
| EQBF940178 | 2     | 4.18   | 3.68 | 5.51 | 0.74 | 2 5/8   |



### LEAD FREE • FULL PORT • 600 PSI

| Part #       | Size | Length | A    | B    | C    |
|--------------|------|--------|------|------|------|
| EQBF940154LF | 3/4  | 2.28   | 1.89 | 3.35 | .563 |



HOSE, PIPE, TUBES & FITTINGS



# IRON PIPE FITTINGS

These quality Iron Pipe Fittings are made with better molds to reduce parting lines and rough edges which results in better fluid flow. All are pressure tested to 300# class.

## BLACK STEEL NIPPLES SCHEDULE 40

| Part #    | Size                | Pkg Qty |
|-----------|---------------------|---------|
| EQPF57001 | 1/8 X CLOSE (3/4)   | 10      |
| EQPF57002 | 1/8 X 1 1/2         | 10      |
| EQPF57003 | 1/8 X 2             | 10      |
| EQPF57004 | 1/8 X 2 1/2         | 10      |
| EQPF57005 | 1/8 X 3             | 10      |
| EQPF57007 | 1/8 X 4             | 10      |
| EQPF57009 | 1/8 X 5             | 10      |
| EQPF57011 | 1/8 X 6             | 10      |
| EQPF57020 | 1/4 X CLOSE (7/8)   | 10      |
| EQPF57021 | 1/4 X 1 1/2         | 10      |
| EQPF57022 | 1/4 X 2             | 10      |
| EQPF57023 | 1/4 X 2 1/2         | 10      |
| EQPF57024 | 1/4 X 3             | 10      |
| EQPF57026 | 1/4 X 4             | 10      |
| EQPF57028 | 1/4 X 5             | 10      |
| EQPF57030 | 1/4 X 6             | 10      |
| EQPF57040 | 3/8 X CLOSE (1")    | 10      |
| EQPF57041 | 3/8 X 1-1/2         | 10      |
| EQPF57042 | 3/8 X 2             | 10      |
| EQPF57043 | 3/8 X 2 1/2         | 10      |
| EQPF57044 | 3/8 X 3             | 10      |
| EQPF57046 | 3/8 X 4             | 10      |
| EQPF57048 | 3/8 X 5             | 10      |
| EQPF57050 | 3/8 X 6             | 10      |
| EQPF57060 | 1/2 X CLOSE (1 1/8) | 5       |
| EQPF57061 | 1/2 X 1-1/2         | 5       |
| EQPF57062 | 1/2 X 2             | 5       |
| EQPF57063 | 1/2 X 2-1/2         | 5       |



| Part #    | Size                  | Pkg Qty |
|-----------|-----------------------|---------|
| EQPF57064 | 1/2 X 3               | 5       |
| EQPF57066 | 1/2 X 4               | 5       |
| EQPF57068 | 1/2 X 5               | 5       |
| EQPF57070 | 1/2 X 6               | 5       |
| EQPF57080 | 3/4 X CLOSE (1 3/8)   | 5       |
| EQPF57081 | 3/4 X 1-1/2           | 5       |
| EQPF57082 | 3/4 X 2               | 5       |
| EQPF57083 | 3/4 X 2 1/2           | 5       |
| EQPF57084 | 3/4 X 3               | 5       |
| EQPF57086 | 3/4 X 4               | 5       |
| EQPF57088 | 3/4 X 5               | 5       |
| EQPF57090 | 3/4 X 6               | 5       |
| EQPF57100 | 1 X CLOSE (1 1/2)     | 5       |
| EQPF57101 | 1 X 2                 | 5       |
| EQPF57102 | 1 X 2 1/2             | 5       |
| EQPF57103 | 1 X 3                 | 5       |
| EQPF57105 | 1 X 4                 | 5       |
| EQPF57107 | 1 X 5                 | 5       |
| EQPF57109 | 1 X 6                 | 5       |
| EQPF57120 | 1-1/4 X CLOSE (1 5/8) | 3       |
| EQPF57125 | 1 1/4 X 4             | 3       |
| EQPF57140 | 1-1/2 X CLOSE (1 3/4) | 3       |
| EQPF57160 | 2 X CLOSE (2)         | 3       |

## STEEL REDUCING HEX NIPPLES

| Part #     | Size      | Pkg Qty |
|------------|-----------|---------|
| EQPF540464 | 3/8 X 1/4 | 10      |



# IRON PIPE FITTINGS

## BLACK STEEL MERCHANT COUPLING

| Part #    | Size | OD   | Length | Pkg Qty |
|-----------|------|------|--------|---------|
| EQPF65770 | 1/8  | .59  | .78    | 10      |
| EQPF65771 | 1/4  | .73  | 1.18   | 10      |
| EQPF65772 | 3/8  | .86  | 1.18   | 10      |
| EQPF65773 | 1/2  | 1.06 | 1.56   | 5       |
| EQPF65774 | 3/4  | 1.31 | 1.62   | 5       |
| EQPF65775 | 1    | 1.57 | 2      | 5       |



| Part #    | Size  | OD   | Length | Pkg Qty |
|-----------|-------|------|--------|---------|
| EQPF65776 | 1 1/4 | 1.9  | 2.06   | 3       |
| EQPF65777 | 1 1/2 | 2.2  | 2.06   | 3       |
| EQPF65778 | 2     | 2.75 | 2.12   | 3       |

## BLACK STEEL HALF MERCHANT COUPLINGS

| Part #     | Size | Pkg Qty |
|------------|------|---------|
| EQPF65771H | 1/4  | 10      |
| EQPF65772H | 3/8  | 10      |
| EQPF65773H | 1/2  | 5       |



## BLACK IRON REDUCING COUPLINGS

| Part #    | Size      | Length | Pkg Qty |
|-----------|-----------|--------|---------|
| EQPF65430 | 1/4 X 1/8 | 1      | 10      |
| EQPF65431 | 3/8 X 1/8 | 1.13   | 10      |
| EQPF65432 | 3/8 X 1/4 | 1.13   | 10      |
| EQPF65433 | 1/2 X 1/8 | 1.25   | 5       |
| EQPF65434 | 1/2 X 1/4 | 1.25   | 5       |
| EQPF65435 | 1/2 X 3/8 | 1.25   | 5       |
| EQPF65439 | 3/4 X 1/8 | 1.44   | 5       |
| EQPF65436 | 3/4 X 1/4 | 1.44   | 5       |
| EQPF65437 | 3/4 X 3/8 | 1.44   | 5       |



| Part #    | Size      | Length | Pkg Qty |
|-----------|-----------|--------|---------|
| EQPF65438 | 3/4 X 1/2 | 1.44   | 5       |
| EQPF65459 | 1 X 1/4   | 1.69   | 5       |
| EQPF65440 | 1 X 3/8   | 1.69   | 5       |
| EQPF65441 | 1 X 1/2   | 1.69   | 5       |
| EQPF65442 | 1 X 3/4   | 1.69   | 5       |

## BLACK IRON UNIONS

| Part #    | Size  | Length | Pkg Qty |
|-----------|-------|--------|---------|
| EQPF65600 | 1/8   | 1.26   | 10      |
| EQPF65601 | 1/4   | 1.44   | 10      |
| EQPF65602 | 3/8   | 1.61   | 10      |
| EQPF65603 | 1/2   | 1.72   | 5       |
| EQPF65604 | 3/4   | 1.94   | 5       |
| EQPF65605 | 1     | 2.06   | 5       |
| EQPF65606 | 1 1/4 | 2.26   | 3       |
| EQPF65607 | 1 1/2 | 2.41   | 3       |
| EQPF65608 | 2     | 2.75   | 3       |



HOSE, PIPE, TUBES & FITTINGS

# IRON PIPE FITTINGS

## BLACK STEEL REDUCER BUSHINGS

| Part #    | Size (M X F) | Length | Hex Size | Pkg Qty |
|-----------|--------------|--------|----------|---------|
| EQPF67500 | 1/4 X 1/8    | 0.63   | 5/8      | 10      |
| EQPF67501 | 3/8 X 1/8    | 0.66   | 11/16    | 10      |
| EQPF67502 | 3/8 X 1/4    | 0.66   | 11/16    | 10      |
| EQPF67503 | 1/2 X 1/8    | 0.8    | 7/8      | 5       |
| EQPF67504 | 1/2 X 1/4    | 0.8    | 7/8      | 5       |
| EQPF67505 | 1/2 X 3/8    | 0.8    | 7/8      | 5       |



## BLACK IRON REDUCER BUSHINGS

| Part #    | Size (M X F) | Length | Hex Size | Pkg Qty |
|-----------|--------------|--------|----------|---------|
| EQPF65506 | 3/4 X 1/8    | 0.85   | 1 5/32   | 5       |
| EQPF65507 | 3/4 X 1/4    | 0.85   | 1 5/32   | 5       |
| EQPF65508 | 3/4 X 3/8    | 0.85   | 1 5/32   | 5       |
| EQPF65509 | 3/4 X 1/2    | 0.93   | 1 5/32   | 5       |
| EQPF65510 | 1 X 1/4      | 1.13   | 1 1/8    | 5       |
| EQPF65511 | 1 X 3/8      | 1.13   | 1 1/8    | 5       |
| EQPF65512 | 1 X 1/2      | 1.1    | 1 7/16   | 5       |
| EQPF65513 | 1 X 3/4      | 1.1    | 1 7/16   | 5       |
| EQPF65514 | 1-1/4 X 1/4  | 1.24   | 1 1/8    | 3       |
| EQPF65515 | 1-1/4 X 3/8  | 1.24   | 1 1/8    | 3       |
| EQPF65516 | 1-1/4 X 1/2  | 1.24   | 1 1/4    | 3       |
| EQPF65517 | 1-1/4 X 3/4  | 1.08   | 1 3/4    | 3       |
| EQPF65518 | 1-1/4 X 1    | 1.08   | 1 3/4    | 3       |
| EQPF65519 | 1-1/2 X 1/4  | 1.3    | 1 1/8    | 3       |
| EQPF65520 | 1-1/2 X 3/8  | 1.3    | 1 1/8    | 3       |
| EQPF65521 | 1-1/2 X 1/2  | 1.3    | 1 11/32  | 3       |



| Part #    | Size (M X F)  | Length | Hex Size | Pkg Qty |
|-----------|---------------|--------|----------|---------|
| EQPF65522 | 1-1/2 X 3/4   | 1.3    | 1 7/16   | 3       |
| EQPF65523 | 1-1/2 X 1     | 1.23   | 2        | 3       |
| EQPF65524 | 1-1/2 X 1-1/4 | 1.23   | 2        | 3       |
| EQPF65525 | 2 X 3/8       | 1.28   | 1 1/8    | 3       |
| EQPF65527 | 2 X 1/2       | 1.39   | 1 11/32  | 3       |
| EQPF65528 | 2 X 3/4       | 1.39   | 1 5/8    | 3       |
| EQPF65529 | 2 X 1         | 1.39   | 1 3/4    | 3       |
| EQPF65530 | 2 X 1-1/4     | 1.5    | 2 1/2    | 3       |
| EQPF65531 | 2 X 1 1/2     | 1.5    | 2 1/2    | 3       |

HOSE, PIPE, TUBES & FITTINGS

## BLACK IRON 90° ELBOWS

| Part #    | Size  | A    | Pkg Qty |
|-----------|-------|------|---------|
| EQPF65100 | 1/8   | 0.69 | 10      |
| EQPF65101 | 1/4   | 0.81 | 10      |
| EQPF65102 | 3/8   | 0.95 | 10      |
| EQPF65103 | 1/2   | 1.12 | 5       |
| EQPF65104 | 3/4   | 1.31 | 5       |
| EQPF65105 | 1     | 1.5  | 5       |
| EQPF65106 | 1 1/4 | 1.75 | 3       |
| EQPF65107 | 1 1/2 | 1.94 | 3       |
| EQPF65108 | 2     | 2.25 | 3       |



# IRON PIPE FITTINGS

## BLACK IRON 45° ELBOWS

| Part #    | Size  | A    | Pkg Qty |
|-----------|-------|------|---------|
| EQPF65180 | 1/8   | 0.63 | 10      |
| EQPF65181 | 1/4   | 0.73 | 10      |
| EQPF65182 | 3/8   | 0.8  | 10      |
| EQPF65183 | 1/2   | 0.88 | 5       |
| EQPF65184 | 3/4   | 0.98 | 5       |
| EQPF65185 | 1     | 1.12 | 5       |
| EQPF65186 | 1 1/4 | 1.29 | 3       |
| EQPF65187 | 1 1/2 | 1.43 | 3       |
| EQPF65188 | 2     | 1.68 | 3       |



## BLACK IRON 90° STREET ELBOWS

| Part #    | Size  | A    | B    | Pkg Qty |
|-----------|-------|------|------|---------|
| EQPF65160 | 1/8   | 0.69 | 1    | 10      |
| EQPF65161 | 1/4   | 0.8  | 1.17 | 10      |
| EQPF65162 | 3/8   | 0.95 | 1.48 | 10      |
| EQPF65163 | 1/2   | 1.1  | 1.59 | 5       |
| EQPF65164 | 3/4   | 1.28 | 1.85 | 5       |
| EQPF65165 | 1     | 1.47 | 2.1  | 5       |
| EQPF65166 | 1 1/4 | 1.75 | 2.57 | 3       |
| EQPF65167 | 1 1/2 | 1.9  | 2.63 | 3       |
| EQPF65168 | 2     | 2.21 | 3.19 | 3       |



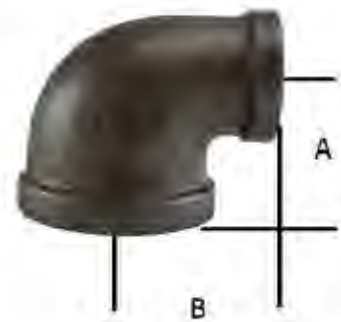
## BLACK IRON 45° STREET ELBOWS

| Part #    | Size  | A    | B    | Pkg Qty |
|-----------|-------|------|------|---------|
| EQPF65200 | 1/8   | 0.63 | 0.83 | 10      |
| EQPF65201 | 1/4   | 0.73 | 0.94 | 10      |
| EQPF65202 | 3/8   | 0.8  | 1.03 | 10      |
| EQPF65203 | 1/2   | 0.86 | 1.3  | 5       |
| EQPF65204 | 3/4   | 0.96 | 1.48 | 5       |
| EQPF65205 | 1     | 1.1  | 1.69 | 5       |
| EQPF65206 | 1 1/4 | 1.26 | 1.87 | 3       |
| EQPF65207 | 1 1/2 | 1.4  | 2.05 | 3       |



## BLACK IRON 90° REDUCING ELBOWS

| Part #    | Size      | A    | B    | Pkg Qty |
|-----------|-----------|------|------|---------|
| EQPF65122 | 3/8 X 1/4 | 0.88 | 0.9  | 10      |
| EQPF65123 | 1/2 X 1/4 | 0.97 | 0.98 | 5       |
| EQPF65124 | 1/2 X 3/8 | 1.04 | 1.03 | 5       |
| EQPF65126 | 3/4 X 3/8 | 1.12 | 1.13 | 5       |
| EQPF65127 | 3/4 X 1/2 | 1.2  | 1.22 | 5       |
| EQPF65130 | 1 X 1/2   | 1.26 | 1.4  | 5       |
| EQPF65131 | 1 X 3/4   | 1.37 | 1.45 | 5       |
| EQPF65207 | 1 1/2     | 1.4  | 2.05 | 3       |

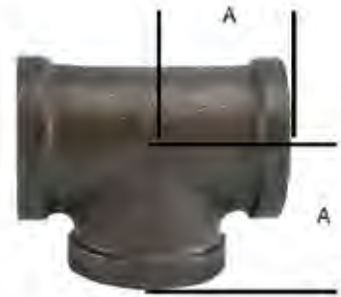


HOSE, PIPE, TUBES & FITTINGS

# IRON PIPE FITTINGS

## BLACK IRON TEES

| Part #    | Size  | A    | Pkg Qty |
|-----------|-------|------|---------|
| EQPF65250 | 1/8   | 0.69 | 10      |
| EQPF65251 | 1/4   | 0.81 | 10      |
| EQPF65252 | 3/8   | 0.95 | 10      |
| EQPF65253 | 1/2   | 1.12 | 5       |
| EQPF65254 | 3/4   | 1.31 | 5       |
| EQPF65255 | 1     | 1.5  | 5       |
| EQPF65256 | 1 1/4 | 1.75 | 3       |
| EQPF65257 | 1 1/2 | 1.94 | 3       |
| EQPF65258 | 2     | 2.26 | 3       |



## BLACK IRON REDUCING BRANCH TEES

| Part #    | Size (1 & 2) X 3 | A    | B    | Pkg Qty |
|-----------|------------------|------|------|---------|
| EQPF65273 | 3/8 X 1/4        | 0.81 | 0.9  | 10      |
| EQPF65276 | 1/2 X 1/4        | 0.97 | 0.98 | 5       |
| EQPF65279 | 1/2 X 3/8        | 1.04 | 1.03 | 5       |
| EQPF65282 | 3/4 X 1/4        | 1.05 | 1.08 | 5       |
| EQPF65283 | 3/4 X 3/8        | 1.12 | 1.13 | 5       |
| EQPF65286 | 3/4 X 1/2        | 1.2  | 1.18 | 5       |
| EQPF65268 | 1 X 1/4          | 1.11 | 1.22 | 5       |
| EQPF65269 | 1 X 3/8          | 1.18 | 1.27 | 5       |
| EQPF65291 | 1 X 1/2          | 1.26 | 1.4  | 5       |
| EQPF65298 | 1 X 3/4          | 1.37 | 1.45 | 5       |
| EQPF65328 | 2 X 3/4          | 1.6  | 1.97 | 3       |



## BLACK IRON CROSSES

| Part #    | Size | Length | Pkg Qty |
|-----------|------|--------|---------|
| EQPF65390 | 1/8  | 1.3    | 10      |
| EQPF65391 | 1/4  | 1.6    | 10      |
| EQPF65392 | 3/8  | 1.9    | 10      |
| EQPF65393 | 1/2  | 2.24   | 5       |
| EQPF65394 | 3/4  | 2.62   | 5       |
| EQPF65395 | 1    | 1.5    | 5       |



## BLACK STEEL HEX CAPS

| Part #    | Size | Length | Hex  | Pkg Qty |
|-----------|------|--------|------|---------|
| EQPF67470 | 1/8  | 0.53   | 9/16 | 10      |



HOSE, PIPE, TUBES & FITTINGS

# IRON PIPE FITTINGS

## BLACK IRON CAPS

| Part #    | Size  | Length | Pkg Qty |
|-----------|-------|--------|---------|
| EQPF65471 | 1/4   | 0.62   | 10      |
| EQPF65472 | 3/8   | 0.74   | 10      |
| EQPF65473 | 1/2   | 0.87   | 5       |
| EQPF65474 | 3/4   | 0.97   | 5       |
| EQPF65475 | 1     | 1.16   | 5       |
| EQPF65476 | 1 1/4 | 1.28   | 3       |
| EQPF65477 | 1 1/2 | 1.33   | 3       |
| EQPF65478 | 2     | 1.45   | 3       |
| EQPF65188 | 2     | 1.68   | 3       |



## BLACK STEEL SQUARE PLUGS

| Part #    | Size | Thread Length | Square Height | Square Width | Pkg Qty |
|-----------|------|---------------|---------------|--------------|---------|
| EQPF67670 | 1/8  | 0.33          | 0.24          | 0.28         | 10      |
| EQPF67671 | 1/4  | 0.45          | 0.38          | 0.37         | 10      |
| EQPF67672 | 3/8  | 0.5           | 0.31          | 0.43         | 10      |



## BLACK IRON SQUARE PLUGS

| Part #    | Size  | Thread Length | Square Height | Square Width | Pkg Qty |
|-----------|-------|---------------|---------------|--------------|---------|
| EQPF65653 | 1/2   | 0.58          | 0.38          | 0.56         | 5       |
| EQPF65654 | 3/4   | 0.65          | 0.44          | 0.63         | 5       |
| EQPF65655 | 1     | 0.75          | 0.5           | 0.82         | 5       |
| EQPF65656 | 1 1/4 | 0.82          | 0.56          | 0.94         | 3       |
| EQPF65657 | 1 1/2 | 0.85          | 0.62          | 1.13         | 3       |
| EQPF65658 | 2     | 0.98          | 0.68          | 1.31         | 3       |



## BLACK STEEL HEX PLUGS

| Part #    | Size | Length | Hex    | Pkg Qty |
|-----------|------|--------|--------|---------|
| EQPF67774 | 3/4  | 0.94   | 1 1/16 | 5       |



## GALVANIZED STEEL HOSE BARB X MALE PIPE ADAPTERS

| Part #     | Size  | Pkg Qty |
|------------|-------|---------|
| EQPF973906 | 1/2   | 5       |
| EQPF973907 | 3/4   | 5       |
| EQPF973908 | 1     | 5       |
| EQPF973909 | 1 1/4 | 3       |
| EQPF973910 | 1 1/2 | 3       |
| EQPF973911 | 2     | 3       |



HOSE, PIPE, TUBES & FITTINGS

# PNEUMATIC FITTINGS & QUICK DISCONNECTS

These couplings are widely used to connect compressed air and low pressure fluid lines. They are rated for 250# PSI and -4° to 176°F.

## STEEL FEMALE COUPLER INDUSTRIAL INTERCHANGE



| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28540S | 1/4       | 1/4         | 10      |
| EQAF98810  | 3/8       | 1/4         | 10      |
| EQAF98811  | 3/8       | 3/8         | 10      |

## BRASS FEMALE COUPLER INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28540 | 1/4       | 1/4         | 10      |

## STEEL MALE COUPLER INDUSTRIAL INTERCHANGE



| Part #     | Body Size | Thread Size | Pkg Qty |
|------------|-----------|-------------|---------|
| EQAF28552S | 1/4       | 1/4         | 10      |

## STEEL FEMALE PLUG INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28534 | 1/4       | 1/4         | 10      |
| EQAF98802 | 3/8       | 3/8         | 10      |
| EQAF99803 | 1/2       | 1/2         | 5       |

## STEEL MALE PLUG INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28546 | 1/4       | 1/4         | 10      |
| EQAF98814 | 3/8       | 1/4         | 10      |
| EQAF28547 | 1/4       | 3/8         | 10      |
| EQAF98815 | 3/8       | 3/8         | 10      |

## STEEL PUSH ON HOSE BARB COUPLER INDUSTRIAL INTERCHANGE



| Part #     | Body Size | Hose Barb | Pkg Qty |
|------------|-----------|-----------|---------|
| EQAF28565S | 1/4       | 1/4       | 10      |
| EQAF28566S | 1/4       | 3/8       | 10      |
| EQAF98842  | 3/8       | 3/8       | 10      |

HOSE, PIPE, TUBES & FITTINGS

# PNEUMATIC FITTINGS & QUICK DISCONNECTS

## STEEL PUSH ON HOSE BARB PLUG INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Hose Barb | Pkg Qty |
|-----------|-----------|-----------|---------|
| EQAF28558 | 1/4       | 1/4       | 10      |
| EQAF28561 | 1/4       | 3/8       | 10      |
| EQAF98830 | 3/8       | 3/8       | 10      |

## STEEL HOSE BARB COUPLER INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Hose Barb | Pkg Qty |
|-----------|-----------|-----------|---------|
| EQAF98841 | 3/8       | 3/8       | 10      |

## STEEL HOSE BARB PLUG INDUSTRIAL INTERCHANGE



| Part #    | Body Size | Hose Barb | Pkg Qty |
|-----------|-----------|-----------|---------|
| EQAF98828 | 3/8       | 3/8       | 10      |

## BRASS FEMALE COUPLER ARO 210 INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28584 | 1/4       | 1/4         | 10      |

## BRASS MALE COUPLER ARO 210 INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28593 | 1/4       | 1/4         | 10      |

## STEEL FEMALE PLUG ARO 210 INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28578 | 1/4       | 1/4         | 10      |

## STEEL MALE PLUG ARO 210 INTERCHANGE



| Part #    | Body Size | Thread Size | Pkg Qty |
|-----------|-----------|-------------|---------|
| EQAF28587 | 1/4       | 1/4         | 10      |

HOSE, PIPE, TUBES & FITTINGS



# PNEUMATIC FITTINGS & QUICK DISCONNECTS

## BALL FOOT CHUCK



| Part #    | Thread Size | Pkg Qty |
|-----------|-------------|---------|
| EQAF46600 | 1/4         | 10      |

## ANGLE FOOT CHUCK



| Part #     | Thread Size | Pkg Qty |
|------------|-------------|---------|
| EQAF320005 | 1/4         | 5       |

## HEAVY DUTY SAFETY BLOW GUN



| Part #     | Thread Size | Pkg Qty |
|------------|-------------|---------|
| EQAF320054 | 1/4         | 5       |

# HOSE CLAMPS

## WORM GEAR • PART STAINLESS

| Part # | Size | Clamp Range   | Box Quantity |
|--------|------|---------------|--------------|
| AHC004 | #4   | 7/32-5/8      | 10           |
| AHC006 | #6   | 7/16-25/32    | 10           |
| AHC008 | #8   | 7/16-1        | 10           |
| AHC010 | #10  | 1/2-1 1/16    | 10           |
| AHC012 | #12  | 1/2-1 1/4     | 10           |
| AHC016 | #16  | 11/16-1 1/2   | 10           |
| AHC020 | #20  | 3/4-1 3/4     | 10           |
| AHC024 | #24  | 1 1/16-2      | 10           |
| AHC028 | #28  | 1 1/4-2 1/4   | 10           |
| AHC032 | #32  | 1 9/16-2 1/2  | 10           |
| AHC036 | #36  | 1 13/16-2 3/4 | 10           |
| AHC040 | #40  | 2-3           | 10           |
| AHC044 | #44  | 2 1/4-3 1/4   | 10           |
| AHC048 | #48  | 2 1/2-3 1/2   | 10           |
| AHC052 | #52  | 2 3/4-3 3/4   | 10           |
| AHC056 | #56  | 2 1/8-4       | 10           |
| AHC064 | #64  | 2 1/2-4 1/2   | 10           |
| AHC072 | #72  | 3-5           | 10           |
| AHC104 | #104 | 5-7           | 10           |

| Part #   | Size | Clamp Range   | Box Quantity |
|----------|------|---------------|--------------|
| AHCI010* | #10  | 9/16-1 1/16   | 10           |
| AHCI012* | #12  | 9/16-1 1/4    | 10           |
| AHCI016* | #16  | 11/16-1 1/2   | 10           |
| AHCI020  | #20  | 3/4-1 3/4     | 10           |
| AHCI024* | #24  | 1 1/16-2      | 10           |
| AHCI028* | #28  | 1 5/16-2 1/4  | 10           |
| AHCI032* | #32  | 1 9/16-2 1/2  | 10           |
| AHCI036* | #36  | 1 13/16-2 3/4 | 10           |

\*Non-Stock. 1-2 week lead time.

## WORM GEAR • ALL STAINLESS

| Part #   | Size | Clamp Range | Box Quantity |
|----------|------|-------------|--------------|
| AHCSS004 | #4   | 1/4-5/8     | 10           |
| AHCSS006 | #6   | 5/16-7/8    | 10           |
| AHCSS008 | #8   | 7/16-1      | 10           |
| AHCSS010 | #10  | 1/2-1 1/16  | 10           |
| AHCSS012 | #12  | 1/2-1 1/4   | 10           |
| AHCSS016 | #16  | 11/16-1 1/2 | 10           |
| AHCSS020 | #20  | 3/4-1 3/4   | 10           |
| AHCSS024 | #24  | 1-2         | 10           |
| AHCSS028 | #28  | 1 1/4-2 1/4 | 10           |
| AHCSS032 | #32  | 1 1/2-2 1/2 | 10           |
| AHCSS036 | #36  | 1 3/4-2 3/4 | 10           |



These hose clamps are part stainless steel. The band is stainless steel and the screw and the screw housing are zinc plated steel. The #4 and #6 hose clamps have a 5/16" wide band, the #8 through #36 hose clamps have a 1/2" wide band, and the #40 through #104 hose clamps have a 9/16" wide band.

These hose clamps are also part stainless steel. The band and the screw housing are stainless steel and the screw is zinc plated steel. The band is 9/16 wide.

These hose clamps are all stainless steel. The #4 and #6 hose clamps have a 5/16" wide band, the #8 through #36 hose clamps have a 1/2" wide band.

# HOSE CLAMPS, MUFFLER CLAMPS, & MUFFLER HANGERS

## HOSE CLAMPS

### WIRE TYPE • STEEL

| Part #  | Hose OD | Box Quantity |
|---------|---------|--------------|
| AV05354 | 9/16    | 50           |



### SPRING ACTION • SPRING STEEL

| Part #  | Hose OD | Max Clamp Dia. In Free Position | Clamp Width | Box Quantity |
|---------|---------|---------------------------------|-------------|--------------|
| AV12684 | 1/2     | 0.460                           | 5/16        | 100          |



These clamps are phosphate coated and painted.

## MUFFLER CLAMPS

### HEAVY DUTY

| Part # | Size  | Case Quantity |
|--------|-------|---------------|
| AMC12  | 1 1/2 | 50            |
| AMC14  | 1 3/4 | 50            |
| AMC15  | 1 7/8 | 50            |
| AMC16  | 2     | 50            |
| AMC17  | 2 1/8 | 50            |
| AMC18  | 2 1/4 | 50            |

| Part # | Size  | Case Quantity |
|--------|-------|---------------|
| AMC20  | 2 1/2 | 50            |
| AMC22  | 2 3/4 | 50            |
| AMC24  | 3     | 50            |
| AMC28  | 3 1/2 | 50            |
| AMC32  | 4     | 50            |

Heavy Duty Muffler Clamps feature a 3/8 U-bolt.

## MUFFLER HANGERS

### SWIVELER

| Part # | Description             |
|--------|-------------------------|
| ASWL   | SWIVELER MUFFLER HANGER |



The Swiveler is a heavy duty universal 360° muffler hanger.

# BRAKE LINES

## POLY-VINYL COATED STEEL

| Part #   | Size       | Tube Quantity |
|----------|------------|---------------|
| ABLP0308 | 3/16 X 8   | 10            |
| ABLP0312 | 3/16 X 12  | 10            |
| ABLP0320 | 3/16 X 20  | 10            |
| ABLP0330 | 3/16 X 30  | 10            |
| ABLP0340 | 3/16 X 40  | 10            |
| ABLP0351 | 3/16 X 51  | 10            |
| ABLP0360 | 3/16 X 60  | 10            |
| ABLP0408 | 1/4 X 8    | 10            |
| ABLP0412 | 1/4 X 12   | 10            |
| ABLP0420 | 1/4 X 20   | 10            |
| ABLP0430 | 1/4 X 30   | 10            |
| ABLP0440 | 1/4 X 40   | 10            |
| ABLP0451 | 1/4 X 51   | 10            |
| ABLP0460 | 1/4 X 60   | 10            |
| ABLP0508 | 5/16 X 8   | 5             |
| ABLP0512 | 5/16 X 12* | 5             |
| ABLP0520 | 5/16 X 20  | 5             |
| ABLP0530 | 5/16 X 30* | 5             |
| ABLP0540 | 5/16 X 40* | 5             |
| ABLP0551 | 5/16 X 51* | 5             |
| ABLP0560 | 5/16 X 60* | 5             |

| Part #    | Size                  | Tube Quantity |
|-----------|-----------------------|---------------|
| ABLCP0325 | 3/16 X 25' COIL       | -             |
| ABLCP0425 | 1/4 X 25' COIL        | -             |
| ABLN03    | 3/16 BRAKE LINE NUT   | 5             |
| ABLN04    | 1/4 BRAKE LINE NUT    | 5             |
| ABLU03    | 3/16 BRAKE LINE UNION | 5             |
| ABLU04    | 1/4 BRAKE LINE UNION  | 5             |
| ABLU05    | 5/16 BRAKE LINE UNION | 5             |



Poly-Vinyl Coated Steel Brake Line has a rust and abrasion preventative coating which gives up to 30 times the corrosion protection.

Non-stock. We will stock these items as we run out of steel brake lines.

HOSE, PIPE, TUBES & FITTINGS

# PREMIUM FUEL LINE, FUEL INJECTION HOSE, & HEATER HOSE

## PREMIUM FUEL LINE

| Part #   | Size | Roll Size |
|----------|------|-----------|
| AFLT3    | 3/16 | 25'       |
| AFLT4    | 1/4  | 25'       |
| AFLT5    | 5/16 | 25'       |
| AFLT6    | 3/8  | 25'       |
| AFLT4250 | 1/4  | 250'      |
| AFLT5250 | 5/16 | 250'      |
| AFLT6250 | 3/8  | 250'      |

Premium Fuel Line is compliant with E-85, diesel, and bio-diesel fuels. It is similar to SAE J30R7 specs. Temperature range is -40° F to 257° F.



## FUEL INJECTION HOSE

| Part # | Size | Roll Size |
|--------|------|-----------|
| AHF14  | 1/4  | 10'       |
| AHF15  | 5/16 | 10'       |
| AHF16  | 3/8  | 10'       |

Fuel Injection Hose meets J30R9 specs. Temperature range is -29° F to 275° F.



## HEATER HOSE

### STANDARD BLACK

| Part #  | Size | Roll Size |
|---------|------|-----------|
| AHH5250 | 5/8  | 250'      |
| AHH6250 | 3/4  | 250'      |

Standard Black Heater Hose meets TH-STD-HH specs. Temperature range is -40° F to 212° F.

### PREMIUM RED

| Part # | Size | Roll Size |
|--------|------|-----------|
| AHHR4  | 1/2  | 50'       |
| AHHR5  | 5/8  | 50'       |
| AHHR6  | 3/4  | 50'       |
| AHHR8  | 1    | 50'       |

Premium Red Heater Hose is similar to specs SAE20R3 Class D2, and SAE J2387. Temperature range is -40° F to 257° F.



# AIR HOSE & WINDSHIELD WIPER/VACUUM TUBING

## AIR HOSE

### COILED YELLOW NYLON

| Part # | Size | Hose Length |
|--------|------|-------------|
| AHA50  | 1/4  | 50'         |



## WINDSHIELD WIPER/VACUUM TUBING

| Part #     | Size  | Fits Nipple | Roll Size |
|------------|-------|-------------|-----------|
| AWVTAGW18  | 7/64  | 1/8         | 50'       |
| AWVTAGW316 | 5/32* | 3/16        | 50'       |
| AWVTAGW14  | 7/32* | 1/4         | 50'       |
| AWVTAGW516 | 9/32  | 5/16        | 50'       |



Windshield Wiper/Vacuum Tubing is similar to SAE J1037 specs. Temperature range is -40° F to 257° F.

\*Non-stock. Lead time is 3-10 days.

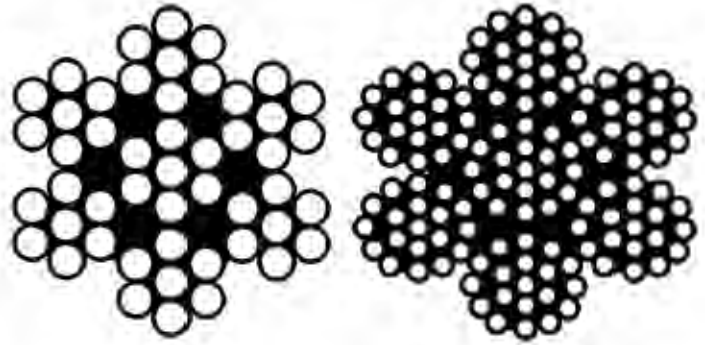
# SECTION 6: TOWING, CHAIN, & CABLE



# GALVANIZED STEEL CABLE & WIRE ROPE CLIPS (CABLE CLAMPS)

## GALVANIZED STEEL CABLE

| Part #       | Size | Construction | Feet per Roll | Working Load Limit* |
|--------------|------|--------------|---------------|---------------------|
| EQGC1250     | 1/16 | 7 X 7        | 250'          | 96                  |
| EQGC15500    | 3/32 | 7 X 7        | 500'          | 184                 |
| EQGC20707500 | 1/8  | 7 X 7        | 500'          | 340                 |
| EQGC2250     | 1/8  | 7 X 19       | 250'          | 400                 |
| EQGC20719500 | 1/8  | 7 X 19       | 500'          | 400                 |
| EQGC3250     | 3/16 | 7 X 19       | 250'          | 840                 |
| EQGC3500     | 3/16 | 7 X 19       | 500'          | 840                 |
| EQGC31000    | 3/16 | 7 X 19       | 1000'         | 840                 |
| EQGC4250     | 1/4  | 7 X 19       | 250'          | 1400                |
| EQGC4500     | 1/4  | 7 X 19       | 500'          | 1400                |
| EQGC41000    | 1/4  | 7 X 19       | 1000'         | 1400                |
| EQGC5250     | 5/16 | 7 X 19       | 250'          | 1960                |
| EQGC5500     | 5/16 | 7 X 19       | 500'          | 1960                |
| EQGC6250     | 3/8  | 7 X 19       | 250'          | 2880                |
| EQGC6500     | 3/8  | 7 X 19       | 500'          | 2880                |



7 x 7

7 x 19

We only sell cable by the roll. If an exact length is needed we can special order it. Lead time is 3-6 days for special orders.

\*Working load limit is based on a design factor of 5:1. Never exceed working load limit!  
We have many other sizes and types of cable and cable fittings available in 3-6 days.

## CLEAR VINYL COATED

| Part #     | Size                     | Construction | Feet per Roll | Working Load Limit* |
|------------|--------------------------|--------------|---------------|---------------------|
| EQGC2250V  | 1/8 VINYL COATED TO 3/16 | 7 X 19       | 250'          | 400                 |
| EQGC2500V  | 1/8 VINYL COATED TO 3/16 | 7 X 19       | 500'          | 400                 |
| EQGC21000V | 1/8 VINYL COATED TO 3/16 | 7 X 19       | 1000'         | 400                 |

## WIRE ROPE CLIPS (CABLE CLAMPS)



Malleable Cable Clamps are intended for use in making an eye termination in cable. Such assembly is for non-critical light duty use so no efficiency rating is given. The base is made of of cast iron and the U-bolt and nuts are steel.

| Part # | Size | Min # of Clips per Eye | Amount of Rope to Turn Back | Required Torque Ft. Lbs. |
|--------|------|------------------------|-----------------------------|--------------------------|
| EQCC1  | 1/16 | 2                      | 4 3/4"                      | 1.5                      |
| EQCC2  | 1/8  | 3                      | 4 3/4"                      | 3                        |
| EQCC3  | 3/16 | 3                      | 5 1/2"                      | 4.5                      |
| EQCC4  | 1/4  | 3                      | 7"                          | 15                       |
| EQCC5  | 5/16 | 3                      | 7 3/4"                      | 15                       |
| EQCC6  | 3/8  | 3                      | 9 1/2"                      | 30                       |
| EQCC8  | 1/2  | 4                      | 15 1/4"                     | 45                       |
| EQCC10 | 5/8  | 4                      | 16"                         | 75                       |
| EQCC12 | 3/4  | 5                      | 22 1/4"                     | 75                       |



# WIRE ROPE THIMBLES, WIRE ROPE SLEEVES, WIRE ROPE STOPS & 304 STAINLESS STEEL CABLE

## WIRE ROPE THIMBLES

| Part # | Size | A    | B    | C    | D    |
|--------|------|------|------|------|------|
| EQWRT2 | 1/8  | 1.93 | 1.06 | 1.31 | 0.68 |
| EQWRT3 | 3/16 | 1.93 | 1.06 | 1.31 | 0.68 |
| EQWRT4 | 1/4  | 1.96 | 1.06 | 1.31 | 0.68 |
| EQWRT5 | 5/16 | 2.12 | 1.25 | 1.50 | 0.81 |
| EQWRT6 | 3/8  | 2.37 | 1.46 | 1.62 | 0.93 |

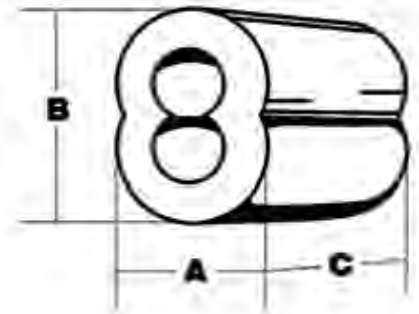


Wire Rope Thimbles are intended for use in making an eye termination in cable. Such assembly is for non-critical light duty use applications only.

## WIRE ROPE SLEEVES

### ALUMINUM • OVAL

| Part #    | Size | A    | B    | C    |
|-----------|------|------|------|------|
| EQOWRS01  | 1/16 | 0.17 | .25  | 0.38 |
| EQOWRS015 | 3/32 | 0.28 | 0.40 | 0.50 |
| EQOWRS02  | 1/8  | 0.34 | 0.50 | 0.63 |
| EQOWRS03  | 3/16 | 0.44 | 0.67 | 1.00 |
| EQOWRS04  | 1/4  | 0.54 | 0.82 | 1.13 |
| EQOWRS05  | 5/16 | 0.69 | 1.03 | 1.25 |

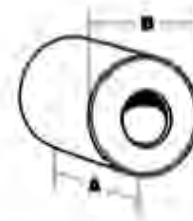


Wire Rope Sleeves are capable of supporting 90% of load strength of cable when properly applied.

## WIRE ROPE STOPS

### ALUMINUM

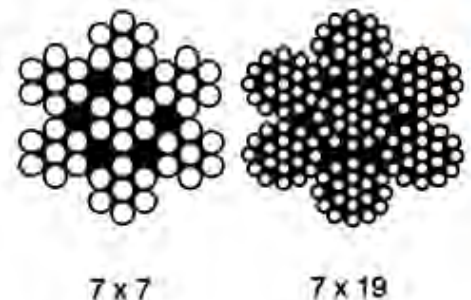
| Part # | Size | A    | B   |
|--------|------|------|-----|
| EQACS2 | 1/8  | 0.34 | .31 |
| EQACS3 | 3/16 | 0.44 | .34 |
| EQACS4 | 1/4  | 0.69 | .69 |



Wire Rope Stops are capable of supporting 1/3 the load strength of cable when properly attached.

## 304 STAINLESS STEEL CABLE

| Part #     | Size | Construction | Feet per Roll | Working Load Limit* |
|------------|------|--------------|---------------|---------------------|
| EQSSC1250  | 1/16 | 7 X 7        | 250'          | 96                  |
| EQSSC15250 | 3/32 | 7 X 7        | 250'          | 184                 |
| EQSSC2500  | 1/8  | 7 X 7        | 500'          | 340                 |
| EQSSC21000 | 1/8  | 7 X 19       | 1000'         | 340                 |
| EQSSC3250  | 3/16 | 7 X 19       | 250'          | 740                 |
| EQSSC3500  | 3/16 | 7 X 19       | 500'          | 740                 |
| EQSSC4250  | 1/4  | 7 X 19       | 250'          | 1280                |
| EQSSC5250  | 5/16 | 7 X 19       | 250'          | 1800                |



We only sell cable by the roll. If an exact length is needed we can special order it. Lead time is 3-6 days for special orders.

\*Working load limit is based on a design factor of 5:1. Never exceed working load limit!

# STAINLESS STEEL WIRE ROPE CLIPS (CABLE CLAMPS) & TURNBUCKLES

## STAINLESS STEEL WIRE ROPE CLIPS (CABLE CLAMPS)

| Part #  | Size | Min # of Clips per Eye | Amount of Rope to Turn Back |
|---------|------|------------------------|-----------------------------|
| EQSSCC2 | 1/8  | 2                      | 3 1/4"                      |
| EQSSCC3 | 3/16 | 2                      | 3 3/4"                      |
| EQSSCC4 | 1/4  | 2                      | 4 3/4"                      |
| EQSSCC5 | 5/16 | 2                      | 5 1/4"                      |
| EQSSCC6 | 3/8  | 2                      | 6 1/2"                      |



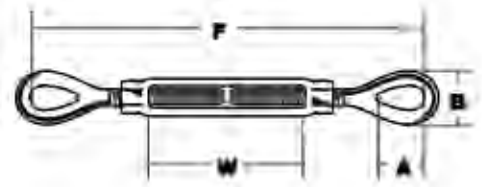
Stainless Steel Wire Rope Clips are intended for use in making an eye termination in cable. The efficiency rating of a properly prepared termination is 80% of the cable's strength.

## TURNBUCKLES

Turnbuckles are drop forged and hot dip galvanized.

### EYE-EYE

| Part #    | Size                |  | A    | B    | F (Closed) |
|-----------|---------------------|--|------|------|------------|
|           | Thread X Length (W) |  |      |      |            |
| LCT0536EE | 5/16 X 4 1/2        |  | 0.94 | 0.44 | 9.06       |
| LCT0872   | 1/2 X 9             |  | 1.44 | 0.72 | 16.08      |
| LCT1096   | 5/8 X 12            |  | 1.75 | 0.88 | 20.68      |



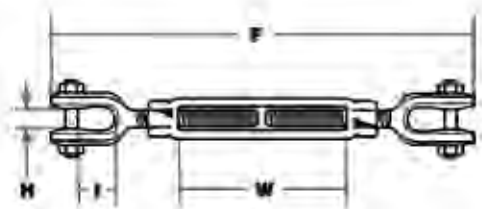
### JAW-EYE

| Part #    | Size                |  | A    | B    | F (Closed) | H    | I    |
|-----------|---------------------|--|------|------|------------|------|------|
|           | Thread X Length (W) |  |      |      |            |      |      |
| LCT0536   | 5/16 X 4 1/2        |  | 0.94 | 0.44 | 8.71       | 0.50 | 0.72 |
| LCT0872EJ | 1/2 X 9             |  | 1.44 | 0.72 | 15.29      | 0.65 | 1.06 |
| LCT1096EJ | 5/8 X 12            |  | 1.75 | 0.88 | 19.74      | 0.79 | 1.31 |



### JAW-JAW

| Part #     | Size                |  | F (Closed) | H    | I    |
|------------|---------------------|--|------------|------|------|
|            | Thread X Length (W) |  |            |      |      |
| LCT0536JJ  | 5/16 X 4 1/2        |  | 8.36       | 0.5  | 0.87 |
| LCT0658JJ  | 3/8 X 6             |  | 10.14      | 0.54 | 0.87 |
| LCT0848JJ  | 1/2 X 6             |  | 11.5       | 0.65 | 1.06 |
| LCT16192JJ | 1 X 24              |  | 34.72      | 1.34 | 2.06 |



# IDENTIFYING YOUR CHAIN

The first step in identifying Chains is to determine whether it is a WELDED chain or a WELDLESS chain.

## WELDED CHAINS

### HEAVY DUTY WELDED CHAINS

Heavy duty welded chains come in a number of grades and in sizes 3/16 and up.

Welded chains have each link formed by welding.

Grade 30 Proof Coil Chain is usually zinc plated giving it a silver color and if it is marked will have a G3 or similar marking stamped on the links. It is the lightest duty of the heavy duty welded chains.



Grade 43 High Test Chain is usually plain finish giving it a dark gray color. If it is marked it will have a G4 or something similar stamped on the links.



Grade 70 Transport Chain is usually yellow zinc plated giving it a gold color. It is stamped with a G7 or something similar on the links.



Grade 80 Alloy Chain is usually black. It is stamped with a G8 or something similar on the links.



### LIGHT DUTY WELDED CHAINS

Straight Link Machine Chain has short links and typically comes zinc plated giving it a silver color.



Straight Link Coil Chain has long links and typically comes zinc plated giving it a silver color.



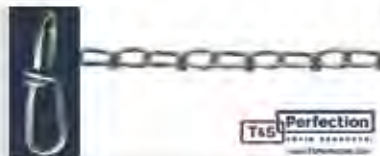
Twist Link Machine Chain has short links with each link twisted 90 degrees. It typically comes zinc plated giving it a silver color.



## WELDLESS CHAINS

Weldless chains contain no welds and each link is twisted to form the chain.

Double Loop Chain is twisted in two loops then twisted together in the middle so each link has a "double loop".



Single Jack chain is twisted into two loops but is not twisted together.



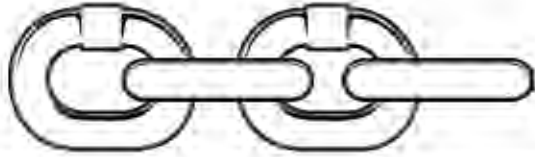
Sash Chain is made of small metal plates which interlock when they are bent into their finished shape.



# CHAIN-PROOF COIL GRADE 30, 304 STAINLESS STEEL, HIGH TEST GRADE 43 & TRANSPORT GRADE 70

## CHAIN-PROOF COIL GRADE 30

### ZINC PLATED



#### Not for overhead lifting!

Proof Coil Chain is a general purpose chain. It is made of low carbon steel and is frequently used for tow chains and logging chains.

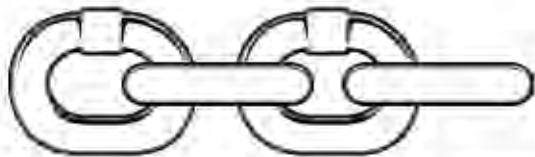
| Part #  | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity | WLL  |
|---------|------|-----------|--------------|---------------|--------------|---------------|------|
| LCPCZ35 | 3/16 | 0.197     | 0.320        | 1.000         | 150          | 1500          | 750  |
| LCPCZ3P | 3/16 | 0.187     | 0.430        | 0.950         | 250          | 1500          | 750  |
| LCPCZ3  | 3/16 | 0.217     | 0.400        | 0.950         | 150          | 1500          | 800  |
| LCPCZ4  | 1/4  | 0.280     | 0.450        | 1.200         | 141          | 800           | 1300 |
| LCPCZ5  | 5/16 | 0.320     | 0.590        | 1.270         | 92           | 550           | 1900 |
| LCPCZ6  | 3/8  | 0.390     | 0.620        | 1.360         | 63           | 400           | 2650 |
| LCPCZ8  | 1/2  | 0.510     | 0.750        | 1.700         | 40           | 200           | 4500 |

## CHAIN-304 STAINLESS STEEL

| Part #  | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity | WLL  |
|---------|------|-----------|--------------|---------------|--------------|---------------|------|
| LCPCSS2 | 1/8  | 0.125     | 0.25         | 0.94          | 100          | -             | 620  |
| LCPCSS3 | 3/16 | 0.187     | 0.31         | 1             | 100          | 1500          | 1150 |
| LCPCSS4 | 1/4  | 0.250     | 0.31         | 1.24          | 100          | 800           | 2600 |

## CHAIN-HIGH TEST GRADE 43

### SELF COLORED



#### Not for overhead lifting!

High Test Chain is a higher strength chain made from a higher carbon steel. It's working load limits are approximately twice that of proof coil.

| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity | WLL  |
|--------|------|-----------|--------------|---------------|--------------|---------------|------|
| LCHTP5 | 5/16 | 0.340     | 0.470        | 1.270         | 92           | 550           | 3900 |
| LCHTP6 | 3/8  | 0.390     | 0.570        | 1.360         | 63           | 400           | 5400 |

## CHAIN-TRANSPORT GRADE 70

### YELLOW CHROMATE FINISH



#### Not for overhead lifting!

Transport Chain is used primarily as a tie down for over-the-road equipment and is DOT approved for this. The yellow chromate plating makes it easily recognizable. It is made from heat treated carbon steel and has about 25% more strength than high test chains.

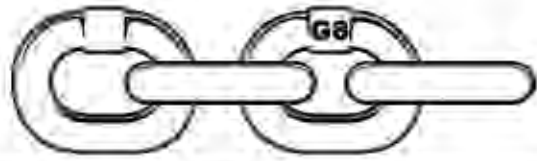
| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity | WLL   |
|--------|------|-----------|--------------|---------------|--------------|---------------|-------|
| LC704  | 1/4  | 0.280     | 0.460        | 1.200         | 141          | 800           | 3150  |
| LC705  | 5/16 | 0.340     | 0.480        | 1.290         | 92           | 550           | 4700  |
| LC706  | 3/8  | 0.390     | 0.570        | 1.360         | 63           | 400           | 6600  |
| LC708  | 1/2* | 0.510     | 0.750        | 1.700         | 40           | 200           | 11300 |

\*Lead time is 4-6 days on this size.

# CHAIN-ALLOY GRADE 80 & CHAIN HOOKS

## CHAIN-ALLOY GRADE 80

### SELF COLORED OR BLACK LACQUER FINISH



Alloy Chain is designed and approved for overhead lifting. Its alloy, heat-treated steel makes it ideal for making lifting slings and heavy duty tow chains.

| Part # | Size | Wire Dia. | Inside Width | Inside Length | Box Quantity | Drum Quantity | WLL   |
|--------|------|-----------|--------------|---------------|--------------|---------------|-------|
| LC804  | 1/4  | 0.280     | 0.410        | 0.860         | 141          | 800           | 3500  |
| LC805  | 5/16 | 0.320     | 0.460        | 0.940         | 92           | 550           | 4500  |
| LC806  | 3/8  | 0.390     | 0.550        | 1.220         | 63           | 400           | 7100  |
| LC808  | 1/2  | 0.510     | 0.750        | 1.570         | 40           | 200           | 12000 |

Need Grade 100 or Grade 120 chain? Call us for availability.

## CHAIN HOOKS

### CLEVIS GRAB • HIGH TEST

| Part # | Size | B    | E    | P    | R    | WLL  |
|--------|------|------|------|------|------|------|
| LCHGP4 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 2600 |
| LCHGP5 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 3900 |
| LCHGP6 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 5400 |
| LCHGP7 | 7/16 | 0.65 | 0.56 | 0.56 | 2.78 | 7200 |
| LCHGP8 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 9200 |



#### Not for overhead lifting!

High Test Clevis Grab Hooks are used with proof coil and high test chain. Typically they have a silver zinc finish.

### CLEVIS GRAB • GRADE 70

#### Not for overhead lifting!

Grade 70 Clevis Grab Hooks are marked with a G70 and are for use with tie down chains. They have a yellow chromate finish.

| Part #  | Size | B    | E    | P    | R    | WLL   |
|---------|------|------|------|------|------|-------|
| LCHG704 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 3150  |
| LCHG705 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 4700  |
| LCHG706 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 6600  |
| LCHG708 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 11300 |

### CLEVIS GRAB • ALLOY

#### Not for overhead lifting!

Alloy Clevis Grab Hooks have working load limits equivalent to Alloy Grade 80 Chain but they are not approved for overhead lifting. They have a yellow chromate finish. Hooks for overhead lifting are available in 3-6 days.

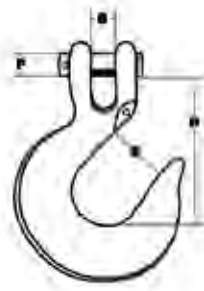
| Part #  | Size | B    | E    | P    | R    | WLL   |
|---------|------|------|------|------|------|-------|
| LCHG804 | 1/4  | 0.43 | 0.34 | 0.37 | 1.81 | 3500  |
| LCHG805 | 5/16 | 0.50 | 0.43 | 0.37 | 2.15 | 4500  |
| LCHG806 | 3/8  | 0.59 | 0.50 | 0.43 | 2.46 | 7100  |
| LCHG808 | 1/2  | 0.75 | 0.65 | 0.62 | 3.21 | 12000 |

# CHAIN HOOKS & COIL CHAIN STRAIGHT LINK

## CHAIN HOOKS

### CLEVIS SLIP • HIGH TEST

| Part # | Size | B    | E    | P    | R    | WLL  |
|--------|------|------|------|------|------|------|
| LCHSP4 | 1/4  | 0.40 | 0.93 | 0.37 | 2.56 | 2600 |
| LCHSP5 | 5/16 | 0.43 | 1.06 | 0.43 | 2.71 | 3900 |
| LCHSP6 | 3/8  | 0.47 | 1.31 | 0.46 | 3.25 | 5400 |
| LCHSP7 | 7/16 | 0.56 | 1.56 | 0.56 | 3.65 | 7200 |
| LCHSP8 | 1/2  | 0.75 | 1.68 | 0.62 | 4.00 | 9200 |



#### Not for overhead lifting!

High Test Clevis Slip Hooks are used with proof coil and high test chain. Typically they have a silver zinc finish.

### CLEVIS SAFETY SLIP GRADE 70

#### Not for overhead lifting!

Grade 70 Clevis Safety Slip Hooks are marked with a G70 and are for use with tie down chains. They have a yellow chromate finish. The latch is stainless steel.

| Part #   | Size | B    | E    | P    | R    | WLL  |
|----------|------|------|------|------|------|------|
| LCHSS704 | 1/4  | 0.40 | 0.93 | 0.37 | 2.56 | 2750 |
| LCHSS705 | 5/16 | 0.43 | 1.06 | 0.43 | 2.71 | 4300 |
| LCHSS706 | 3/8  | 0.47 | 1.31 | 0.46 | 3.25 | 5250 |
| LCHSS708 | 1/2  | 0.75 | 1.68 | 0.62 | 4.00 | 9200 |

### EYE GRAB • HIGH TEST

| Part # | Size | B    | E    | R    | WLL  |
|--------|------|------|------|------|------|
| LCHGE4 | 1/4  | 0.50 | 0.34 | 1.96 | 2600 |
| LCHGE5 | 5/16 | 0.56 | 0.43 | 2.25 | 3900 |
| LCHGE6 | 3/8  | 0.67 | 0.50 | 2.56 | 5400 |



#### Not for overhead lifting!

High Test Eye Grab Hooks are for use with proof coil and high test chains. They typically come self colored.

### EYE SLIP • HIGH TEST

| Part # | Size | B    | E    | R    | WLL  |
|--------|------|------|------|------|------|
| LCHSE4 | 1/4  | 0.50 | 0.93 | 2.53 | 1950 |
| LCHSE5 | 5/16 | 0.62 | 1.06 | 2.90 | 2875 |
| LCHSE6 | 3/8  | 0.71 | 1.31 | 3.31 | 4000 |



#### Not for overhead lifting!

High Test Eye Slip Hooks are for use with proof coil and high test chains. They typically come self colored.

### EYE SAFETY SLIP • HIGH TEST

| Part #  | Size | B    | E    | R    | WLL  |
|---------|------|------|------|------|------|
| LCHSSE5 | 5/16 | 0.62 | 1.06 | 2.90 | 2875 |

## COIL CHAIN STRAIGHT LINK

### ZINC PLATED

| Part # | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|--------|------|---------------|---------------|--------------|-----|
| LCLL10 | 1-0  | 0.177         | 1.250         | 0.320        | 415 |
| LCLL20 | 2-0  | 0.192         | 1.270         | 0.350        | 495 |



Coil Chain Straight Link is easily identified by its extra long links.

# MACHINE CHAIN STRAIGHT LINK, MACHINE CHAIN TWIST LINK, DOUBLE LOOP CHAIN, SINGLE JACK CHAIN & SASH CHAIN

## MACHINE CHAIN STRAIGHT LINK

### ZINC PLATED

| Part #  | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|---------|------|---------------|---------------|--------------|-----|
| LCSLM20 | 2-0  | 0.192         | 0.790         | 0.350        | 545 |



Machine Chain Straight Link is a short link welded chain. The short link makes it compact and flexible.

## MACHINE CHAIN TWIST LINK

### ZINC PLATED

| Part #  | Size | Wire Diameter | Inside Length | Inside Width | WLL |
|---------|------|---------------|---------------|--------------|-----|
| LCTLM50 | 5-0  | 0.250         | 1.000         | 0.380        | 925 |



Machine Chain Twist Link is identical to Straight Link except the twist in each link lets it lie flatter and makes it slightly more compact and flexible.

## DOUBLE LOOP CHAIN

### ZINC PLATED

| Part # | Size | Wire Diameter | Length per 100 Links | WLL |
|--------|------|---------------|----------------------|-----|
| LCDL5  | 5    | 0.062         | 92"                  | 55  |
| LCDL3  | 3    | 0.080         | 110"                 | 90  |
| LCDL1  | 1    | 0.105         | 154"                 | 155 |
| LCDL20 | 2-0  | 0.135         | 182"                 | 255 |



Double Loop Chain is a weldless chain. It is an all-purpose chain which is used for animal chains, swings, hanging light fixtures, and many other applications.

## SINGLE JACK CHAIN

### ZINC PLATED

| Part # | Size | Wire Diameter | Length per 100 Links | WLL |
|--------|------|---------------|----------------------|-----|
| LCJC18 | 18   | 0.047         | 39"                  | 5   |
| LCJC16 | 16   | 0.062         | 50"                  | 10  |



Single Jack Chain is a light-duty, weldless chain. It is suitable for many light duty tasks.

## SASH CHAIN

### ZINC PLATED

| Part # | Size | Wire Diameter | Length per 100 Links | WLL |
|--------|------|---------------|----------------------|-----|
| LCSC#8 | 8    | 0.035         | 55.5"                | 75  |



Sash Chain is generally used with standard sash fixtures but is also useful anywhere a strong, flat chain with smooth, rounded surfaces is needed.

Don't see the size you're looking for? Call us for availability!

TOWING, CHAIN, & CABLE

# SAFETY CHAIN, RAPID LINKS (QUICK LINKS), DOUBLE CLEVIS LINKS, & COLD SHUTS

## SAFETY CHAIN

### ZINC PLATED

| Part #      | Description                  | MGTW        |
|-------------|------------------------------|-------------|
| EQBPBSC3835 | 3/8 X 35" W/SAFETY SLIP HOOK | 10,000 LBS. |



Safety Chain comes ready to install on the trailer.

## RAPID LINKS (QUICK LINKS)

### ZINC PLATED

| Part # | Wire Size | Overall Length (A) | Opening (D) | WLL  |
|--------|-----------|--------------------|-------------|------|
| LCRL2  | 1/8       | 1 3/8              | 0.18        | 130  |
| LCRL3  | 3/16      | 1 7/8              | 0.25        | 400  |
| LCRL4  | 1/4       | 2 1/8              | 0.31        | 600  |
| LCRL5  | 5/16      | 3                  | 0.38        | 800  |
| LCRL6  | 3/8       | 3 1/8              | 0.44        | 1200 |
| LCRL7  | 7/16      | 3 1/2              | 0.56        | 3320 |
| LCRL8  | 1/2       | 4 1/8              | 0.61        | 4500 |



### 304 STAINLESS STEEL

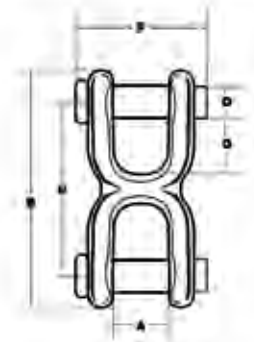
| Part #  | Wire Size | Overall Length (A) | Opening (D) | WLL |
|---------|-----------|--------------------|-------------|-----|
| LCSSRL2 | 1/8       | 1 1/2              | 1/4         | 220 |
| LCSSRL3 | 3/16      | 2                  | 1/4         | 660 |
| LCSSRL4 | 1/4       | 2 5/16             | 5/16        | 880 |

## DOUBLE CLEVIS LINKS

### DROP FORGED LOW CARBON STEEL • ZINC PLATED

Double Clevis Links have a drop forged carbon steel body and alloy pins. They are designed for use with high test or transport chain.

| Part # | Size     | A    | B    | C    | D    | F    | G    | WLL   |
|--------|----------|------|------|------|------|------|------|-------|
| LCDCL4 | 1/4-5/16 | 0.44 | 2.50 | 1.56 | 0.38 | 1.40 | 0.45 | 4700  |
| LCDCL6 | 3/8      | 0.53 | 2.81 | 1.85 | 0.44 | 1.65 | 0.50 | 6600  |
| LCDCL8 | 7/16-1/2 | 0.65 | 3.62 | 2.30 | 0.56 | 2.08 | 0.63 | 11250 |



## COLD SHUTS

### ZINC PLATED

| Part # | Size | Inside Width | Inside Length |
|--------|------|--------------|---------------|
| LCCS3  | 3/16 | 0.34         | 0.94          |
| LCCS4  | 1/4  | 0.38         | 1.19          |
| LCCS5  | 5/16 | 0.44         | 1.38          |
| LCCS6  | 3/8  | 0.63         | 1.50          |
| LCCS8  | 1/2  | 0.75         | 1.88          |
| LCCS12 | 3/4  | 1.00         | 2.50          |



Cold Shuts are designed for use with proof coil chain. Use one size larger cold shut than chain size and weld shut after closing.

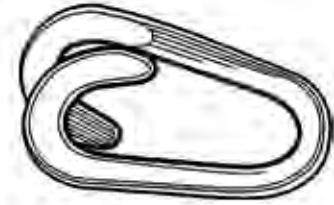


# REPAIR LINKS, ALLOY CONNECTING LINKS, & SCREW PIN ANCHOR SHACKLES (CLEVISES)

## REPAIR LINKS

### ZINC PLATED

| Part #   | Size | Inside Width | Inside Length |
|----------|------|--------------|---------------|
| LCREL3   | 3/16 | 0.50         | 1 1/2         |
| LCREL416 | 1/4  | 0.63         | 2             |
| LCREL5   | 5/16 | 0.75         | 2             |
| LCREL6   | 3/8  | 0.75         | 2             |
| LCREL8   | 1/2  | 1.00         | 2 1/2         |



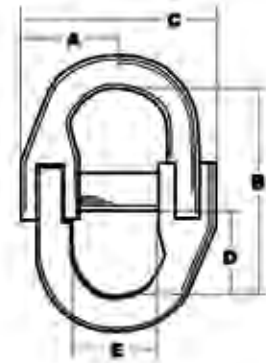
Repair Links are designed for use with proof coil chain. Use one size larger repair link than chain size and weld shut after closing.

## ALLOY CONNECTING LINKS

### ZINC PLATED

Alloy Connecting Links are designed to use with Grade 80 chain. They can be used for overhead lifting.

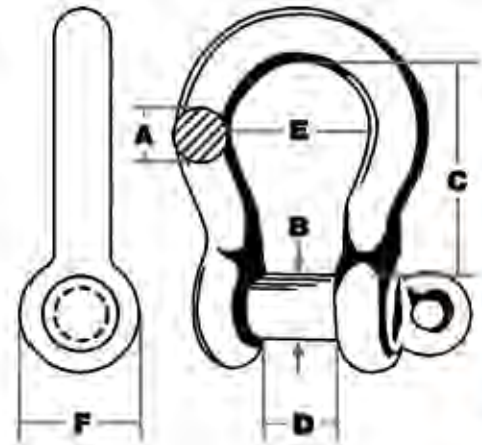
| Part #  | Size       | A    | B    | C    | D    | E    | WLL   |
|---------|------------|------|------|------|------|------|-------|
| LCACL45 | 1/4 (9/32) | 0.33 | 1.88 | 1.85 | 0.78 | 0.63 | 3500  |
| LCACL5  | 5/16       | 0.36 | 2.18 | 1.97 | 0.91 | 0.66 | 4500  |
| LCACL6  | 3/8        | 0.45 | 2.53 | 2.50 | 1.03 | 0.85 | 7100  |
| LCACL8  | 1/2        | 0.59 | 3.36 | 3.22 | 1.44 | 1.09 | 12000 |



## SCREW PIN ANCHOR SHACKLES (CLEVISES)

### HOT DIP GALVANIZED

| Part # | Size (A) | B    | C    | D    | E    | F    | WLL   |
|--------|----------|------|------|------|------|------|-------|
| LCAS03 | 3/16     | 0.25 | 0.75 | 0.38 | 0.59 | 0.56 | 650   |
| LCAS04 | 1/4      | 0.31 | 1.13 | 0.47 | 0.78 | 0.69 | 1000  |
| LCAS05 | 5/16     | 0.38 | 1.25 | 0.53 | 0.84 | 0.81 | 1300  |
| LCAS06 | 3/8      | 0.44 | 1.50 | 0.66 | 1.03 | 0.97 | 1500  |
| LCAS07 | 7/16     | 0.50 | 1.75 | 0.72 | 1.16 | 1.13 | 2000  |
| LCAS08 | 1/2      | 0.63 | 2.00 | 0.81 | 1.31 | 1.31 | 3000  |
| LCAS10 | 5/8      | 0.75 | 2.50 | 1.06 | 1.69 | 1.56 | 4420  |
| LCAS12 | 3/4      | 0.88 | 3.00 | 1.25 | 2.00 | 1.88 | 6000  |
| LCAS14 | 7/8      | 1.00 | 3.25 | 1.44 | 2.25 | 2.13 | 8000  |
| LCAS16 | 1        | 1.13 | 3.75 | 1.69 | 2.50 | 2.38 | 10000 |



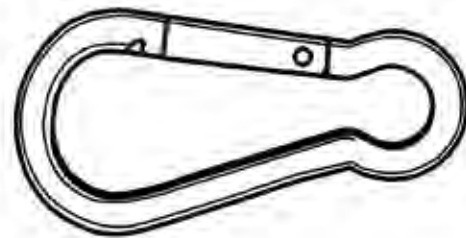
TOWING, CHAIN, & CABLE

# SPRING LINKS, S-HOOKS, DOUBLE END SNAPS & CHAIN BINDERS

## SPRING LINKS

### ZINC PLATED

| Part # | Wire Size | Overall Length | WLL |
|--------|-----------|----------------|-----|
| LCSL3  | 3/16      | 2 1/8          | 70  |
| LCSL4  | 1/4       | 2 1/2          | 140 |
| LCSL5  | 5/16      | 3 1/8          | 280 |
| LCSL6  | 3/8       | 3 1/2          | 400 |
| LCSL7  | 7/16      | 4 3/4          | 500 |



### 304 STAINLESS STEEL

| Part #  | Wire Size | Overall Length | WLL |
|---------|-----------|----------------|-----|
| LCSSSL3 | 3/16      | 2 1/8          | 140 |
| LCSSSL4 | 1/4       | 2 1/2          | 280 |

## S-HOOKS

### ZINC PLATED

| Part #  | Wire Size | Overall Length | Overall Width |
|---------|-----------|----------------|---------------|
| LCHS3   | 3/16      | 1 3/4          | 7/8           |
| LCHS416 | 1/4       | 2 1/4          | 1 1/4         |
| LCHS524 | 5/16      | 3              | 1 5/8         |
| LCHS6   | 3/8       | 3 3/4          | 2 1/8         |



## DOUBLE END SNAPS

### DIE CAST ZINC • NICKEL PLATED

| Part #   | Overall Length |
|----------|----------------|
| LCDES528 | 3 1/2          |



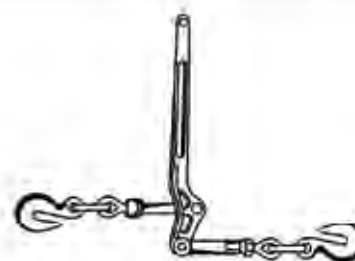
## CHAIN BINDERS

### LEVER TYPE

| Part # | Chain Size                  | Type  | WLL  |
|--------|-----------------------------|-------|------|
| EQLB04 | 1/4 GRADE 30 OR 43          | LEVER | 2600 |
| EQLB06 | 5/16 GRADE 70, 3/8 GRADE 43 | LEVER | 5400 |

### RATCHET TYPE

| Part #  | Chain Size                  | Type    | WLL  |
|---------|-----------------------------|---------|------|
| EQLBR06 | 5/16 GRADE 70, 3/8 GRADE 70 | RATCHET | 6600 |



Don't see the size you're looking for? Call us for availability!

# HITCH BALLS, BALL MOUNTS & TRAILER COUPLERS

## LOCKING HITCH PINS

| Part #      | Description    | Pin Diameter | Receiver Tube Size |
|-------------|----------------|--------------|--------------------|
| EQBPBLHP200 | BENT PIN STYLE | 5/8          | 2"                 |
| EQBPBLHP300 | BONE STYLE     | 5/8          | 2"                 |



## HITCH BALLS

### ZINC PLATED

| Part #     | Ball Diameter | Shank Diameter | Shank Length | MGTW  | Discount Quantity |
|------------|---------------|----------------|--------------|-------|-------------------|
| EQHB17812  | 1 7/8         | 3/4            | 1 3/4        | 2000  | 10                |
| EQHB212    | 2             | 3/4            | 1 3/4        | 3500  | 10                |
| EQHB212L   | 2             | 3/4            | 2 3/8        | 3500  | 10                |
| EQHB216    | 2*            | 1              | 2 3/4        | 10000 | 10                |
| EQHB251616 | 2 5/16        | 1              | 2 1/8        | 6000  | 10                |
| EQHB251620 | 2 5/16        | 1 1/4          | 2 1/2        | 10000 | 10                |



\*Chrome Finish.

Don't see the size you need? Call us for availability!

## BALL MOUNTS

| Part #      | Description                                  | Shank Size | Hole Size | Drop | Weight Rating |
|-------------|--|------------|-----------|------|---------------|
| EQBP1803051 | HEAVY DUTY FORGED CONSTRUCTION               | 2"         | 1 1/4"    | 2"   | 20,000 LBS.   |
| EQBP1803306 | HEAVY DUTY WELDED CONSTRUCTION KIT W/2" BALL | 2"         | -         | 2"   | 5,000 LBS.    |
| EQBP1803405 | HEAVY DUTY WELDED CONSTRUCTION               | 2 1/2"     | 1 1/4"    | 3"   | 12,000 LBS.   |

## TRAILER COUPLERS

### STRAIGHT TONGUE

| Part #      | Description            | MGTW      |
|-------------|------------------------|-----------|
| EQBP0091050 | 1 7/8" BALL 2" CHANNEL | 2000 LBS. |
| EQBP0091058 | 2" BALL 2" CHANNEL     | 3500 LBS. |

### ADJUSTABLE EYE ASSEMBLY

| Part #     | Description | MVL       | MGTW       |
|------------|-------------|-----------|------------|
| EQBPB18128 | 3 POSITION  | 2000 LBS. | 12000 LBS. |



Trailer Coupler Adjustable Eye Assemblies feature:

- Ductile Cast Iron Eye
- Formed Steel Channel
- 3" ID Eye
- 1 9/16" Eye Section

TOWING, CHAIN, & CABLE

# JACKS & RUBBER STRAPS (TARP STRAPS)

## JACKS

| Part #       | Description                                | Capacity   | Travel | Wind |
|--------------|--|------------|--------|------|
| EQBP0091410H | 4" SQ. HEAVY DUTY SPRING RETURN W/SIDE PIN | 10000 LBS. | 12"    | SIDE |
| EQID77147    | PIPE MOUNT SWIVEL                          | 5000 LBS.  | 15"    | SIDE |
| EQID77147T   | PIPE MOUNT SWIVEL                          | 5000 LBS.  | 10"    | TOP  |



## RUBBER STRAPS (TARP STRAPS)

| Part # | Length | Case Quantity |
|--------|--------|---------------|
| EQRS09 | 9"     | 50            |
| EQRS15 | 15"    | 50            |
| EQRS22 | 22"    | 50            |
| EQRS31 | 31"    | 50            |

Rubber Straps are made in the USA of UV resistant EPDM rubber for a strong, durable rubber strap.



# SECTION 7: ELECTRICAL



# BUTT CONNECTORS & RING TERMINALS

## MAX TEMPERATURES, AMPERES, AND VOLTAGE

Vinyl Insulated Terminals Max Temperature: 167° F

Nylon Insulated Terminals Max Temperature: 221° F

Polypropylene Insulated Terminals Max Temperature: 221° F

### Tin Plated Brass Terminals

Max Voltage: 300 volts

Max Amperes:

22-18 Gauge: 10 amps

16-14 Gauge: 15 amps

12-10 Gauge: 24 amps

### Tin Plated Copper Terminals

Max Voltage: 600 volts

Max Amperes:

22-18 Gauge: 19 amps

16-14 Gauge: 27 amps

12-10 Gauge: 48 amps

## BUTT CONNECTORS

### BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Package Quantity | Discount Quantity |
|--------|------------|--------|------------------|-------------------|
| ELBCVR | 22-18      | RED    | 100              | 500               |
| ELBCVB | 16-14      | BLUE   | 100              | 500               |
| ELBCVY | 12-10      | YELLOW | 100              | 500               |
| ELBC8  | 8          | RED    | 50               | 250               |
| ELBC6  | 6          | BLUE   | 25               | 125               |



### COPPER (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Package Quantity | Discount Quantity |
|--------|------------|--------|------------------|-------------------|
| ELBCNR | 22-18      | RED    | 100              | 500               |
| ELBCNB | 16-14      | BLUE   | 100              | 500               |
| ELBCNY | 12-10      | YELLOW | 100              | 500               |



### STEP DOWN • NYLON INSULATED

| Part #   | Wire Gauge     | Color       | Package Quantity | Discount Quantity |
|----------|----------------|-------------|------------------|-------------------|
| ELBCSDBR | 22-18 TO 16-14 | RED TO BLUE | 100              | 500               |



## RING TERMINALS

### COPPER (TIN PLATED) • VINYL INSULATED

| Part #  | Wire Gauge | Color  | Stud Size | Package Quantity | Discount Quantity |
|---------|------------|--------|-----------|------------------|-------------------|
| ELRTR06 | 22-16      | RED    | #6        | 100              | 500               |
| ELRTR08 | 22-16      | RED    | #8        | 100              | 500               |
| ELRTR10 | 22-16      | RED    | #10       | 100              | 500               |
| ELRTR4  | 22-16      | RED    | 1/4       | 100              | 500               |
| ELRTB06 | 16-14      | BLUE   | #6        | 100              | 500               |
| ELRTB08 | 16-14      | BLUE   | #8        | 100              | 500               |
| ELRTB10 | 16-14      | BLUE   | #10       | 100              | 500               |
| ELRTB4  | 16-14      | BLUE   | 1/4       | 100              | 500               |
| ELRTB5  | 16-14      | BLUE   | 5/16      | 100              | 500               |
| ELRTB6  | 16-14      | BLUE   | 3/8       | 100              | 500               |
| ELRTB8  | 16-14      | BLUE   | 1/2       | 100              | 500               |
| ELRTY06 | 12-10      | YELLOW | #6        | 100              | 500               |

| Part #  | Wire Gauge | Color  | Stud Size | Package Quantity | Discount Quantity |
|---------|------------|--------|-----------|------------------|-------------------|
| ELRTY08 | 12-10      | YELLOW | #8        | 100              | 500               |
| ELRTY10 | 12-10      | YELLOW | #10       | 100              | 500               |
| ELRTY4  | 12-10      | YELLOW | 1/4       | 100              | 500               |
| ELRTY5  | 12-10      | YELLOW | 5/16      | 100              | 500               |
| ELRTY6  | 12-10      | YELLOW | 3/8       | 100              | 500               |
| ELRTY8  | 12-10      | YELLOW | 1/2       | 100              | 500               |
| ELRT84  | 8          | RED    | 1/4       | 50               | 250               |
| ELRT86  | 8          | RED    | 3/8       | 50               | 250               |
| ELRT66  | 6          | BLUE   | 3/8       | 25               | 125               |
| ELRT68  | 6          | BLUE   | 1/2       | 25               | 125               |
| ELRT44  | 4          | YELLOW | 1/4       | 25               | 125               |
| ELRT46  | 4          | YELLOW | 3/8       | 25               | 125               |



# SNAP SPADES, SPADES & HOOKS

## SNAP SPADES

### COPPER (TIN PLATED) • VINYL INSULATED

| Part #  | Wire Gauge | Color  | Stud Size | Package Quantity | Discount Quantity |
|---------|------------|--------|-----------|------------------|-------------------|
| ELSSR06 | 22-16      | RED    | #6        | 100              | 500               |
| ELSSR08 | 22-16      | RED    | #8        | 100              | 500               |
| ELSSR10 | 22-16      | RED    | #10       | 100              | 500               |
| ELSSB06 | 16-14      | BLUE   | #6        | 100              | 500               |
| ELSSB08 | 16-14      | BLUE   | #8        | 100              | 500               |
| ELSSB10 | 16-14      | BLUE   | #10       | 100              | 500               |
| ELSSY08 | 12-10      | YELLOW | #8        | 100              | 500               |
| ELSSY10 | 12-10      | YELLOW | #10       | 100              | 500               |



### COPPER (TIN PLATED) • NYLON INSULATED

| Part #   | Wire Gauge | Color | Stud Size | Package Quantity | Discount Quantity |
|----------|------------|-------|-----------|------------------|-------------------|
| ELSSBN10 | 16-14      | BLUE  | #10       | 100              | 500               |



## SPADES

### COPPER (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Stud Size | Package Quantity | Discount Quantity |
|--------|------------|--------|-----------|------------------|-------------------|
| ELSR06 | 22-16      | RED    | #6        | 100              | 500               |
| ELSR08 | 22-16      | RED    | #8        | 100              | 500               |
| ELSR10 | 16-14      | BLUE   | #10       | 100              | 500               |
| ELSB10 | 16-14      | BLUE   | #10       | 100              | 500               |
| ELSY4  | 12-10      | YELLOW | 1/4       | 100              | 500               |



## HOOKS

### COPPER (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color | Stud Size | Package Quantity | Discount Quantity |
|--------|------------|-------|-----------|------------------|-------------------|
| ELHR10 | 22-18      | RED   | #10       | 100              | 500               |
| ELHB10 | 16-14      | BLUE  | #10       | 100              | 500               |



# QUICK CONNECTS & FULLY INSULATED QUICK CONNECTS

## QUICK CONNECTS

### FEMALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Quantity | Discount Quantity |
|--------|------------|--------|-----------|------------------|-------------------|
| ELFQR  | 22-16      | RED    | 0.250     | 100              | 500               |
| ELFQB  | 16-14      | BLUE   | 0.250     | 100              | 500               |
| ELFQB3 | 16-14      | BLUE   | 0.187     | 100              | 500               |
| ELFQY  | 12-10      | YELLOW | 0.250     | 100              | 500               |



### MALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Quantity | Discount Quantity |
|--------|------------|--------|-----------|------------------|-------------------|
| ELMQB  | 16-14      | BLUE   | 0.250     | 100              | 500               |
| ELMQB3 | 16-14      | BLUE   | 0.187     | 100              | 500               |
| ELMQY  | 12-10      | YELLOW | 0.250     | 100              | 500               |



### MALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color | Tab Width | Package Quantity | Discount Quantity |
|--------|------------|-------|-----------|------------------|-------------------|
| ELMQNB | 16-14      | BLUE  | 0.250     | 100              | 500               |



## FULLY INSULATED QUICK CONNECTS

### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color  | Tab Width | Package Quantity | Discount Quantity |
|---------|------------|--------|-----------|------------------|-------------------|
| ELFFQR  | 22-16      | RED    | 0.250     | 100              | 500               |
| ELFFQR3 | 22-18*     | RED    | 0.187     | 100              | 500               |
| ELFFQB  | 16-14      | BLUE   | 0.250     | 100              | 500               |
| ELFFQB3 | 16-14*     | BLUE   | 0.187     | 100              | 500               |
| ELFFQY  | 12-10      | YELLOW | 0.250     | 100              | 500               |



\*Vinyl insulated.

### FEMALE • OVAL • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color | Tab Width | Package Quantity | Discount Quantity |
|---------|------------|-------|-----------|------------------|-------------------|
| ELFFQOB | 16-14      | BLUE  | 0.250     | 100              | 500               |



### MALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Quantity | Discount Quantity |
|--------|------------|--------|-----------|------------------|-------------------|
| ELMFQR | 22-16      | RED    | 0.250     | 100              | 500               |
| ELMFQB | 16-14      | BLUE   | 0.250     | 100              | 500               |
| ELMFQY | 12-10      | YELLOW | 0.250     | 100              | 500               |



### MALE • OVAL • BRASS (TIN PLATED) • NYLON INSULATED

| Part #  | Wire Gauge | Color | Tab Width | Package Quantity | Discount Quantity |
|---------|------------|-------|-----------|------------------|-------------------|
| ELMFQOB | 16-14      | BLUE  | 0.250     | 100              | 500               |





# FLAGS, BULLETS, & QUICK SPLICES

## FLAGS

### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color  | Tab Width | Package Quantity | Discount Quantity |
|--------|------------|--------|-----------|------------------|-------------------|
| ELFLFR | 22-16      | RED    | 0.250     | 100              | 500               |
| ELFLFB | 16-14      | BLUE   | 0.250     | 100              | 500               |
| ELFLFY | 12-10      | YELLOW | 0.250     | 100              | 500               |



## BULLETS

### FEMALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Quantity | Discount Quantity |
|--------|------------|-------|-----------------|------------------|-------------------|
| ELBFR  | 22-16      | RED   | 0.156           | 100              | 500               |
| ELBFB  | 16-14      | BLUE  | 0.156           | 100              | 500               |



### FEMALE • BRASS (TIN PLATED) • NYLON INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Quantity | Discount Quantity |
|--------|------------|-------|-----------------|------------------|-------------------|
| ELBFBN | 16-14      | BLUE  | 0.157           | 100              | 500               |



### MALE • BRASS (TIN PLATED) • VINYL INSULATED

| Part # | Wire Gauge | Color | Bullet Diameter | Package Quantity | Discount Quantity |
|--------|------------|-------|-----------------|------------------|-------------------|
| ELBMB  | 16-14      | BLUE  | 0.156           | 100              | 500               |



## QUICK SPLICES

### BRASS (TIN PLATED) • POLYPROPYLENE INSULATED

| Part #  | Wire Gauge     | Color  | Package Quantity | Discount Quantity |
|---------|----------------|--------|------------------|-------------------|
| ELSLR   | 22-18          | RED    | 100              | 500               |
| ELSLW   | 18-14          | WHITE  | 100              | 500               |
| ELSLB   | 16-14          | BLUE   | 100              | 500               |
| AV10385 | 18-14 TO 12-10 | TAN    | 100              | 500               |
| ELSLY   | 12-10          | YELLOW | 100              | 500               |



## MOISTURE RESISTANT

This Moisture Resistant Quick Splice contains a dielectric grease which provides a moisture resistant barrier in corrosive environments. This connector is rated for 600V, 194° F, 18 gauge: 7 amps, 16 gauge: 10 amps, 14 gauge: 15 amps.

| Part #  | Wire Gauge | Color | Package Quantity | Discount Quantity |
|---------|------------|-------|------------------|-------------------|
| ELTCBMR | 18-14      | BLUE  | 100              | 500               |

# PIGTAIL CONNECTOR, INSTANT TAP CONNECTORS & WIRE NUTS

## PIGTAIL CONNECTOR



This Pigtail Connector is self-stripping and capable of connecting 2 or 3 wires in the range of 22-14 gauge. It contains an EG-3 grease sealant which provides a moisture resistant seal. They are rated for 600V, and 221° F.

| Part # | Wire Gauge | Color | Package Quantity | Discount Quantity |
|--------|------------|-------|------------------|-------------------|
| ELPCW  | 22-14      | BLUE  | 100              | 500               |

## INSTANT TAP CONNECTORS

### BRASS (TIN PLATED) • NYLON INSULATED



Instant Tap Connectors provide an easy way to make a quick connect tap into a wire. Simply close over the wire and connect a quick connect male to the opposite end.

| Part # | Wire Gauge | Color | Package Quantity | Discount Quantity |
|--------|------------|-------|------------------|-------------------|
| ELITCB | 16-14      | BLUE  | 100              | 500               |

## WIRE NUTS

### SPRING LOADED



#### Features:

- UL listed, CSA approved components
- Flame Retardant thermoplastic insulation shell
- Fixed internal wire spring secures connection with optimum conductivity
- Anti-slip gripping ribs for improved twisting efficiency and comfort
- Deep skirt, offering superior protection against shorts and flashovers
- Threaded funnel entry smoothly guides wires into the connector

| Part # | Wire Gauge | Color  | Package Quantity | Discount Quantity |
|--------|------------|--------|------------------|-------------------|
| ELWNG  | 22-14      | GRAY   | 100              | 500               |
| ELWNB  | 22-14      | BLUE   | 100              | 500               |
| ELWNO  | 22-14      | ORANGE | 100              | 500               |

# WIRE NUTS & ALTERNATOR TERMINALS

## WIRE NUTS

### WINGED



#### Features:

- UL listed, CSA approved components
- Flame Retardant thermoplastic insulation shell
- Fixed internal wire spring secures connection with optimum conductivity
- Anti-slip gripping ribs for improved twisting efficiency and comfort
- Deep skirt, offering superior protection against shorts and flashovers
- Threaded funnel entry smoothly guides wires into the connector

| Part # | Wire Gauge | Color  | Package Quantity | Discount Quantity |
|--------|------------|--------|------------------|-------------------|
| ELWNWY | 18-10      | YELLOW | 100              | 500               |
| ELWNWR | 18-8       | RED    | 100              | 500               |
| ELWNWG | 18-8       | GRAY   | 100              | 500               |
| ELWNWB | 14-6       | BLUE   | 100              | 500               |

### GROUNDING CONNECTOR

| Part #  | Wire Gauge | Color | Package Quantity | Discount Quantity |
|---------|------------|-------|------------------|-------------------|
| ELWNGRE | 14-10      | GREEN | 100              | 500               |

### HEX WINGED

In addition to the features that other wire nuts have these wire nuts have a 5/16 hex so they can be driven with a socket.

| Part # | Wire Gauge | Color | Package Quantity | Discount Quantity |
|--------|------------|-------|------------------|-------------------|
| ELWNWT | 22-8       | TAN   | 100              | 500               |

## ALTERNATOR TERMINALS

### BRASS

| Part #  | Wire Gauge | Type   | Package Quantity |
|---------|------------|--------|------------------|
| AV08776 | 16-14      | FEMALE | 50               |
| AV08774 | 16-14      | MALE   | 50               |



**3 WAY CONNECTORS, PIGGY BACK TERMINALS, DOUBLE MALE SINGLE FEMALE ADAPTER & UNINSULATED BUTT CONNECTORS**

**3 WAY CONNECTORS**  
**VINYL INSULATED**



| Part # | Wire Gauge | Type | Stud Size | Package Quantity |
|--------|------------|------|-----------|------------------|
| EL3WCB | 16-14      | BLUE | #8        | 25               |

**PIGGY BACK TERMINALS**



| Part # | Wire Gauge | Type | Package Quantity |
|--------|------------|------|------------------|
| ELPBT1 | 16-14      | BLUE | 100              |

**DOUBLE MALE SINGLE FEMALE ADAPTER**



| Part #  | Tab Width | Package Quantity |
|---------|-----------|------------------|
| AV08788 | 0.250     | 25               |

**UNINSULATED BUTT CONNECTORS**

| Part # | Wire Gauge | Package Quantity |
|--------|------------|------------------|
| ELBCU1 | 1          | 10               |
| ELBCU6 | 6          | 25               |
| ELBCUB | 16-14      | 100              |

# UNINSULATED RING TERMINALS, UNINSULATED QUICK CONNECTS, HEAT SHRINK BUTT CONNECTORS & HEAT SHRINK RING TERMINALS

## UNINSULATED RING TERMINALS

| Part #   | Wire Gauge | Stud Size | Package Quantity |
|----------|------------|-----------|------------------|
| ELRTU810 | 8          | #10       | 50               |
| ELRTU65  | 6          | 5/16      | 25               |

## UNINSULATED QUICK CONNECTS

| Part # | Wire Gauge | Tab Width | Type   | Package Quantity |
|--------|------------|-----------|--------|------------------|
| ELFQUY | 12-10      | 0.250     | FEMALE | 100              |
| ELMQUY | 12-10      | 0.250     | MALE   | 100              |

Don't see the wire connector you need? Call us for availability!

## HEAT SHRINK BUTT CONNECTORS

Heat Shrink Terminals provide an electrical connection which is sealed against moisture and other corrosive elements. After crimping heat is applied shrinking the insulation to around the connection and enabling the adhesive which lines the inside to melt and flow evenly for a sealed connection.

### SOLDER & CRIMP



### CRIMP ONLY



Heat Shrink, Solder, Crimpable Butt Connectors are an ultra performance terminal. They provide protection against pullout and corrosion.

| Part #     | Wire Gauge | Color  | Package Quantity |
|------------|------------|--------|------------------|
| ELHSBCSSCR | 22-18      | RED    | 100              |
| ELHSBCSSCB | 16-14      | BLUE   | 100              |
| ELHSBCSSCY | 12-10      | YELLOW | 100              |

| Part #  | Wire Gauge | Color  | Package Quantity |
|---------|------------|--------|------------------|
| ELHSBCR | 22-18      | RED    | 100              |
| ELHSBCB | 16-14      | BLUE   | 100              |
| ELHSBCY | 12-10      | YELLOW | 100              |

## HEAT SHRINK RING TERMINALS

| Part #    | Wire Gauge | Color | Stud Size | Package Quantity |
|-----------|------------|-------|-----------|------------------|
| ELHSRTR06 | 22-18      | RED   | #6        | 100              |
| ELHSRTR08 | 22-18      | RED   | #8        | 100              |
| ELHSRTR10 | 22-18      | RED   | #10       | 100              |
| ELHSRTR4  | 22-18      | RED   | 1/4       | 100              |
| ELHSRTR5  | 22-18      | RED   | 5/16      | 100              |
| ELHSRTR6  | 22-18      | RED   | 3/8       | 100              |
| ELHSRTB06 | 16-14      | BLUE  | #6        | 100              |
| ELHSRTB08 | 16-14      | BLUE  | #8        | 100              |
| ELHSRTB10 | 16-14      | BLUE  | #10       | 100              |
| ELHSRTB4  | 16-14      | BLUE  | 1/4       | 100              |
| ELHSRTB5  | 16-14      | BLUE  | 5/16      | 100              |



| Part #    | Wire Gauge | Color  | Stud Size | Package Quantity |
|-----------|------------|--------|-----------|------------------|
| ELHSRTB6  | 16-14      | BLUE   | 3/8       | 100              |
| ELHSRTY10 | 12-10      | YELLOW | #10       | 100              |
| ELHSRTY4  | 12-10      | YELLOW | 1/4       | 100              |
| ELHSRTY5  | 12-10      | YELLOW | 5/16      | 100              |
| ELHSRTY6  | 12-10      | YELLOW | 3/8       | 100              |

# HEAT SHRINK SNAP SPADES, HEAT SHRINK SPADES, HEAT SHRINK FULLY INSULATED QUICK CONNECTS & HEAT SHRINK BULLETS

## HEAT SHRINK SNAP SPADES

| Part #   | Wire Gauge | Color | Stud Size | Package Quantity |
|----------|------------|-------|-----------|------------------|
| ELHSSB08 | 16-14      | BLUE  | #8        | 100              |



## HEAT SHRINK SPADES

| Part #   | Wire Gauge | Color  | Stud Size | Package Quantity |
|----------|------------|--------|-----------|------------------|
| ELHSSR08 | 22-18      | RED    | #8        | 100              |
| ELHSSR10 | 22-18      | RED    | #10       | 100              |
| ELHSSB08 | 16-14      | BLUE   | #8        | 100              |
| ELHSSB10 | 16-14      | BLUE   | #10       | 100              |
| ELHSSY10 | 12-10      | YELLOW | #10       | 100              |
| ELHSSY4  | 12-10      | YELLOW | 1/4       | 100              |

## HEAT SHRINK FULLY INSULATED QUICK CONNECTS

| Part #   | Wire Gauge | Color  | Stud Size | Package Quantity |
|----------|------------|--------|-----------|------------------|
| ELHSFFQB | 16-14      | BLUE   | FEMALE    | 100              |
| ELHSFFQY | 12-10      | YELLOW | FEMALE    | 100              |
| ELHSMFQB | 16-14      | BLUE   | MALE      | 100              |
| ELHSMFQY | 12-10      | YELLOW | MALE      | 100              |



## HEAT SHRINK BULLETS

| Part #  | Wire Gauge | Color | Stud Size | Package Quantity |
|---------|------------|-------|-----------|------------------|
| ELHSBFB | 16-14      | BLUE  | FEMALE    | 100              |
| ELHSBMB | 16-14      | BLUE  | MALE      | 100              |



Don't see the heat shrink terminal you need? Call us for availability!

# NYAX HEAT SHRINK ELECTRICAL TERMINALS

Nyax Heat Shrink Terminals shrink at a lower temperature (90°C) and up to 40% faster than polyolefin or nylon, saving installation costs and reducing the potential for wire insulation damage. Nyax is also see through for easy visual inspection.

## HEAT SHRINK BUTT CONNECTORS PERMASEAL

| Part #   | Wire Gauge | Color  | Package Quantity |
|----------|------------|--------|------------------|
| ELPHSBCB | 22-18      | RED    | 100              |
| ELPHSBCR | 16-14      | BLUE   | 100              |
| ELPHSBCY | 12-10      | YELLOW | 100              |



## HEAT SHRINK STEP DOWN BUTT CONNECTORS PERMASEAL

| Part #      | Wire Gauge     | Color  | Package Quantity |
|-------------|----------------|--------|------------------|
| ELPHSBCSDBR | 16-14 TO 22-18 | BLUE   | 100              |
| ELPHSBCSDYB | 12-10 TO 16-14 | YELLOW | 100              |

## HEAT SHRINK RING TERMINALS PERMASEAL

| Part #     | Wire Gauge | Color  | Stud Size | Package Quantity |
|------------|------------|--------|-----------|------------------|
| ELPHSRTR06 | 22-18      | RED    | #6        | 100              |
| ELPHSRTR10 | 22-18      | RED    | #10       | 100              |
| ELPHSRTB10 | 16-14      | BLUE   | #10       | 100              |
| ELPHSRTB4  | 16-14      | BLUE   | 1/4       | 100              |
| ELPHSRTB6  | 16-14      | BLUE   | 3/8       | 100              |
| ELPHSRTY8  | 12-10      | YELLOW | 1/2       | 100              |



## HEAT SHRINK SPADES PERMASEAL

| Part #    | Wire Gauge | Color  | Stud Size | Package Quantity |
|-----------|------------|--------|-----------|------------------|
| ELPHSSY10 | 12-10      | YELLOW | 10        | 100              |



## HEAT SHRINK FULLY INSULATED QUICK CONNECTS PERMASEAL

| Part #    | Wire Gauge | Color  | Type   | Tab Width | Package Quantity |
|-----------|------------|--------|--------|-----------|------------------|
| ELPHSFFQB | 16-14      | BLUE   | FEMALE | 0.250     | 100              |
| ELPHSFFQY | 12-10      | YELLOW | FEMALE | 0.250     | 100              |
| ELPHSMFQB | 16-14      | BLUE   | MALE   | 0.250     | 100              |

## HEAT SHRINK QUICK CONNECTS PERMASEAL

| Part #   | Wire Gauge | Color | Type   | Tab Width | Package Quantity |
|----------|------------|-------|--------|-----------|------------------|
| ELPHSFQB | 16-14      | BLUE  | FEMALE | 0.250     | 100              |
| ELPHSMQB | 16-14      | BLUE  | MALE   | 0.250     | 100              |



# WIRE TIES (CABLE TIES, ZIP TIES), SLIT LOOM & LOOM CLAMPS (P CLAMPS)

## WIRE TIES (CABLE TIES, ZIP TIES)

Wire Ties are manufactured from 100% virgin grade nylon 6/6. Temperature range is -40° F to 185° F.

### UV RESISTANT BLACK

| Part #   | Description | Overall Length | Width | Max Bundle Dia. | Package Quantity |
|----------|-------------|----------------|-------|-----------------|------------------|
| ELWTB04  | 4"          | 4              | 0.1   | 7/8             | 100              |
| ELWTB05  | 5"          | 5 1/2          | 0.1   | 1 3/8           | 100              |
| ELWTB07  | 7"          | 7 3/8          | 0.19  | 1 3/4           | 100              |
| ELWTB07L | 7" LIGHT    | 7 3/4          | 0.1   | 2               | 100              |
| ELWTB08H | 8" HEAVY    | 8              | 0.3   | 1 15/16         | 100              |
| ELWTB11L | 11" LIGHT   | 11 1/2         | 0.14  | 3               | 100              |
| ELWTB11  | 11"         | 11 1/2         | 0.19  | 3               | 100              |
| ELWTB14  | 14"         | 14 1/2         | 0.19  | 4               | 100              |
| ELWTB14H | 14" HEAVY   | 14 1/2         | 0.3   | 4               | 100              |
| ELWTB18H | 18" HEAVY   | 17 3/4         | 0.3   | 5 3/16          | 100              |
| ELWTB21H | 21" HEAVY   | 20 3/4         | 0.35  | 5 1/2           | 100              |
| ELWTB28H | 28" HEAVY   | 28             | 0.35  | 7 1/2           | 100              |



### UV RESISTANT BLACK • SCREW MOUNT

| Part #   | Description | Width | Max Bundle Dia. | Screw Size | Package Quantity |
|----------|-------------|-------|-----------------|------------|------------------|
| ELWTMB06 | 6"          | 0.14  | 1 3/8           | #8         | 1000             |



## SLIT LOOM

| Part # | ID  | Roll Length | Box Length | Bulk Length |
|--------|-----|-------------|------------|-------------|
| ELSL04 | 1/4 | 50'         | 250'       | 3200'       |
| ELSL06 | 3/8 | 50'         | 250'       | 1900'       |
| ELSL08 | 1/2 | 50'         | 250'       | 1100'       |
| ELSL10 | 5/8 | 50'         | 250'       | 800'        |
| ELSL12 | 3/4 | 50'         | 150'       | 550'        |
| ELSL16 | 1   | 50'         | 75'        | 300'        |

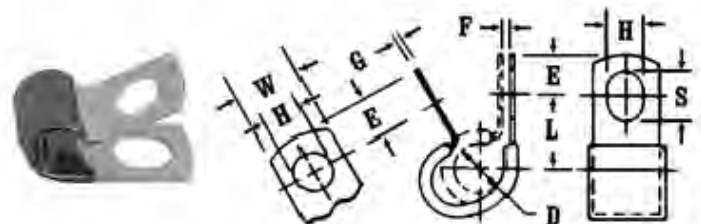


Slit Loom is manufactured from polyethylene. It is excellent for holding wires in position and protecting them. Temperature range is -40° F to 200° F.

## LOOM CLAMPS (P CLAMPS)

### BLACK VINYL COATED

| Part #  | ID (D) | L      | E    | F    | Package Quantity |
|---------|--------|--------|------|------|------------------|
| AV09381 | 1/4    | 17/32  | 5/16 | 1/32 | 25               |
| AV09383 | 3/8    | 19/32  | 5/16 | 1/16 | 25               |
| AV09384 | 1/2    | 21/32  | 5/16 | 1/16 | 25               |
| AV09385 | 5/8    | 23/32  | 5/16 | 1/16 | 25               |
| AV09386 | 3/4    | 25/32  | 5/16 | 1/16 | 25               |
| AV09387 | 7/8    | 27/32  | 5/16 | 1/16 | 25               |
| AV09388 | 1      | 29/32  | 5/16 | 1/16 | 25               |
| AV10604 | 1*     | 1 1/32 | 7/16 | 1/16 | 25               |



Material Thickness (G) is 0.032 for sizes up to 3/8" and 0.048 for larger sizes. Hole diameter (H) is 9/32 and slot length (S) is 3/8. Clamp width (W) is 1/2.

\*Part number av10604 is a wider clamp. H is 13/32, S is 1/2, and W is 3/4.



# LOOM CLAMPS (P CLAMPS) & HEAT SHRINK TUBING

## LOOM CLAMPS (P CLAMPS)

### REMOVABLE EPDM RUBBER JACKET

| Part #    | Closed ID | Hole Diameter | Package Quantity |
|-----------|-----------|---------------|------------------|
| ELLCSRJ04 | 1/4       | 9/32          | 25               |
| ELLCSRJ06 | 3/8       | 9/32          | 25               |
| ELLCSRJ08 | 1/2       | 9/32          | 25               |
| ELLCSRJ12 | 3/4       | 9/32          | 25               |
| ELLCSRJ16 | 1         | 9/32          | 25               |
| ELLCSRJ24 | 1 1/2     | 9/32          | 10               |
| ELLCSRJ32 | 2         | 9/32          | 10               |



## HEAT SHRINK TUBING

All heat shrink tubing is adhesive lined.

### SINGLE WALL

Single Wall Heat Shrink Tubing shrinks to approximately half its initial size. Shrink temperature is 212° F. It has the thinnest wall and is the most flexible of all the shrink tubes. Size is given as the minimum inside diameter before shrinking.

| Part #    | Size | Color | Length |
|-----------|------|-------|--------|
| ELHSTSR12 | 3/4  | RED   | 4'     |



### DUAL WALL

Dual Wall Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 212° F. It has a medium thickness wall and is semi rigid. Size is given as the minimum inside diameter before shrinking.

| Part #     | Size  | Color | Length |
|------------|-------|-------|--------|
| ELHSTDB02  | 1/8   | BLACK | 4'     |
| ELHSTDB03  | 3/16  | BLACK | 4'     |
| ELHSTDB036 | 3/16  | BLACK | 6"     |
| ELHSTDB04  | 1/4   | BLACK | 4'     |
| ELHSTDB046 | 1/4   | BLACK | 6"     |
| ELHSTDR04  | 1/4   | RED   | 4'     |
| ELHSTDB066 | 3/8   | BLACK | 6"     |
| ELHSTDB08  | 1/2   | BLACK | 4'     |
| ELHSTDB086 | 1/2   | BLACK | 6"     |
| ELHSTDR08  | 1/2   | RED   | 4'     |
| ELHSTDB12  | 3/4   | BLACK | 4'     |
| ELHSTDB126 | 3/4   | BLACK | 6"     |
| ELHSTDR12  | 3/4   | RED   | 4'     |
| ELHSTDB16  | 1     | BLACK | 4'     |
| ELHSTDB24  | 1 1/2 | BLACK | 4'     |

### TRIPLE WALL

Triple Wall Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 248° F. It has an extra thick wall and is rigid. Size is given as the minimum inside diameter before shrinking.

| Part #     | Size | Color | Length |
|------------|------|-------|--------|
| ELHSTTB12  | 3/4  | BLACK | 4'     |
| ELHSTTB126 | 3/4  | BLACK | 6"     |
| ELHSTTR12  | 3/4  | RED   | 4'     |
| ELHSTTB166 | 1    | BLACK | 6"     |
| ELHSTTB16  | 1    | BLACK | 4'     |
| ELHSTTR16  | 1    | RED   | 4'     |

### CLEAR

Clear Heat Shrink Tubing shrinks to approximately 1/3 its initial size. Shrink temperature is 230° F. It has a medium thickness wall and is semi rigid. Size is given as the minimum inside diameter before shrinking.

| Part #   | Size | Color | Length |
|----------|------|-------|--------|
| ELHSTC03 | 3/16 | CLEAR | 4'     |
| ELHSTC04 | 1/4  | CLEAR | 4'     |
| ELHSTC06 | 3/8  | CLEAR | 4'     |
| ELHSTC08 | 1/2  | CLEAR | 4'     |

Don't see the size you need? Call us for availability!

# BATTERIES, PRIMARY WIRE & DUPLEX BRAKE CABLE

## BATTERIES

| Part #     | Description | Box Quantity | Case Quantity |
|------------|-------------|--------------|---------------|
| ELBATAAAA  | AAAA        | 12           | 24            |
| ELBATAAA   | AAA         | 24           | 144           |
| ELBATAA    | AA          | 24           | 144           |
| ELBATC     | C           | 12           | 72            |
| ELBATD     | D           | 12           | 72            |
| ELBATN     | N*          | 12           | -             |
| ELBAT9V    | 9V          | 12           | 72            |
| ELBAT6V    | 6V LANTERN  | -            | 6             |
| ELBATCC357 | #357*       | -            | -             |

\*These may be Energizer or Camelion brand.



Batteries are Energizer brand unless noted otherwise.

## PRIMARY WIRE

### SINGLE CONDUCTOR • STRANDED • COPPER

| Part #  | Wire Gauge | Color  | Spool Size |
|---------|------------|--------|------------|
| ELWBL8  | 18         | BLACK  | 100'       |
| ELWBLU8 | 18         | BLUE   | 100'       |
| ELWBR8  | 18         | BROWN  | 100'       |
| ELWR8   | 18         | RED    | 100'       |
| ELWW8   | 18         | WHITE  | 100'       |
| ELWY8   | 18         | YELLOW | 100'       |
| ELWBL6  | 16         | BLACK  | 100'       |
| ELWBLU6 | 16         | BLUE   | 100'       |
| ELWBR6  | 16         | BROWN  | 100'       |
| ELWG6   | 16         | GREEN  | 100'       |
| ELWO6   | 16         | ORANGE | 100'       |
| ELWP6   | 16         | PURPLE | 100'       |
| ELWR6   | 16         | RED    | 100'       |
| ELWW6   | 16         | WHITE  | 100'       |
| ELWY6   | 16         | YELLOW | 100'       |
| ELWBL4  | 14         | BLACK  | 100'       |
| ELWBLU4 | 14         | BLUE   | 100'       |
| ELWBR4  | 14         | BROWN  | 100'       |
| ELWG4   | 14         | GREEN  | 100'       |



Primary Wire is standard for all kinds of original equipment such as automotive, trucks, trailers, construction equipment, and tractors.

| Part #  | Wire Gauge | Color  | Spool Size |
|---------|------------|--------|------------|
| ELWO4   | 14         | ORANGE | 100'       |
| ELWP4   | 14         | PURPLE | 100'       |
| ELWR4   | 14         | RED    | 100'       |
| ELWW4   | 14         | WHITE  | 100'       |
| ELWY4   | 14         | YELLOW | 100'       |
| ELWBL2  | 12         | BLACK  | 100'       |
| ELWBLU2 | 12         | BLUE   | 100'       |
| ELWBR2  | 12         | BROWN  | 100'       |
| ELWG2   | 12         | RED    | 100'       |
| ELWR2   | 12         | WHITE  | 100'       |
| ELWW2   | 12         | YELLOW | 100'       |
| ELWY2   | 12         | RED    | 100'       |
| ELWBL0  | 10         | BLACK  | 100'       |
| ELWBLU0 | 10         | BLUE   | 100'       |
| ELWR0   | 10         | RED    | 100'       |
| ELWW0   | 10         | WHITE  | 100'       |

## DUPLEX BRAKE CABLE

| Part #   | Wire Gauge | Spool Size |
|----------|------------|------------|
| ELW02    | 10         | 500*       |
| ELW02100 | 10         | 100'       |
| ELW22    | 12         | 500*       |
| ELW22100 | 12         | 100'       |
| ELW42    | 14         | 500'       |
| ELW42100 | 14         | 100'       |
| ELW62    | 16         | 500'       |
| ELW62100 | 16         | 100'       |

\*Non-Stock. 2-3 day lead time.



Duplex Brake Cable consists of one black primary wire and one white primary wire covered with a gray PVC jacket.

# TRAILER CABLE, BATTERY TERMINALS, & COPPER LUGS

## TRAILER CABLE

| Part #     | Wire Gauge | No. of Wires | Spool Size |
|------------|------------|--------------|------------|
| ELTC164100 | 16         | 4            | 100'       |
| ELTC144100 | 14         | 4            | 100'       |



Trailer cable is 4, 6, or 7 primary wires covered with a flexible, black PVC jacket.

Don't see the wire you need? Call us for availability!

## BATTERY TERMINALS

| Part # | Type       | Card Quantity |
|--------|------------|---------------|
| ELBPT  | TOP POST   | 10            |
| ELBTSM | SIDE MOUNT | 10            |



## COPPER LUGS

| Part #  | Wire Gauge | Stud Size | Package Quantity |
|---------|------------|-----------|------------------|
| ELCL804 | 8          | 1/4       | 25               |
| ELCL805 | 8          | 5/16      | 25               |
| ELCL604 | 6          | 1/4       | 25               |
| ELCL605 | 6          | 5/16      | 25               |
| ELCL606 | 6          | 3/8       | 10               |
| ELCL404 | 4          | 1/4       | 10               |
| ELCL405 | 4          | 5/16      | 10               |
| ELCL406 | 4          | 3/8       | 10               |
| ELCL408 | 4          | 1/2       | 10               |
| ELCL204 | 2          | 1/4       | 10               |
| ELCL205 | 2          | 5/16      | 10               |
| ELCL206 | 2          | 3/8       | 10               |
| ELCL208 | 2          | 1/2       | 10               |
| ELCL104 | 1          | 1/4       | 10               |
| ELCL105 | 1          | 5/16      | 10               |
| ELCL106 | 1          | 3/8       | 10               |



Copper Lugs are perfect for large gauge applications. They can be crimped or soldered to wire.

| Part #    | Wire Gauge | Stud Size | Package Quantity |
|-----------|------------|-----------|------------------|
| ELCL108   | 1          | 1/2       | 10               |
| ELCL1/004 | 1/0        | 1/4       | 10               |
| ELCL1/005 | 1/0        | 5/16      | 10               |
| ELCL1/006 | 1/0        | 3/8       | 10               |
| ELCL1/008 | 1/0        | 1/2       | 10               |
| ELCL2/005 | 2/0        | 5/16      | 10               |
| ELCL2/006 | 2/0        | 3/8       | 10               |
| ELCL2/008 | 2/0        | 1/2       | 10               |
| ELCL3/006 | 3/0        | 3/8       | 10               |
| ELCL3/008 | 3/0        | 1/2       | 10               |
| ELCL4/006 | 4/0        | 3/8       | 10               |

# TRAILER CONNECTORS LOCKING HITCH PINS & ELECTRICAL JUNCTION BOXES

## TRAILER CONNECTORS

| Part #      | Description   |
|-------------|---|
| EQBPTC2064P | 6 WAY ROUND TO 4 WAY ROUND ADAPTER PLASTIC                                |
| EQBPTC1067P | 6-PIN ROUND TO 7-PIN FLAT RV ADAPTER                                      |
| EQBPTC2007  | 7 PIN TRAILER CONNECTOR W/STAINLESS STEEL WEATHER COVER SPRING            |
| EQBPTC2074P | 7 PIN FLAT TO 4 PIN FLAT ADAPTER PLASTIC                                  |
| EQBPTC2075P | 7 PIN FLAT TO 5 PIN ROUND ADAPTER PLASTIC                                 |
| EQBPTC2076P | 7 PIN FLAT TO 6 PIN ROUND ADAPTER PLASTIC (CENTER PIN AUXILIARY POWER)    |
| EQBPTC1077P | 7 PIN ROUND TO 7 PIN FLAT PLASTIC PREWIRED 3" CONNECTION W/BUILT-IN LATCH |
| EQBPTC107   | 7-PIN FLAT TRAILER CONNECTOR BRACKET ZN                                   |
| EQBPTC2967P | 7-PIN FLAT PLASTIC RV TRAILER END CONNECTOR W/96" PREWIRED CABLE          |
| EQBPTC2007P | 7-PIN FLAT PLASTIC CONNECTOR TRAILER END                                  |
| EQBPTC1007  | 7-PIN FLAT CONNECTOR VEHICLE END  |



## ELECTRICAL JUNCTION BOXES

### 7 TERMINAL

| Part #      | Description                           |
|-------------|---------------------------------------|
| EQBP5601100 | ELECTRICAL JUNCTION BOX W/7 TERMINALS |



7 Terminal Electrical Junction Boxes are made specifically to provide convenient, sealed access for truck/trailer electrical connections. They feature:

- Seven 10-32 Studs w/Nuts & Lock Washers
- Coded Terminal Connections for Easy Identification
- High Impact Black Poly Box

# LED LIGHTING & FUSES

## LED LIGHTING

### LICENSE PLATE LIGHT

| Part #      | Description                           |
|-------------|---------------------------------------|
| EQBP5622032 | 2 LED, CLEAR, 12V LICENSE PLATE LIGHT |



### ROUND MARKER LIGHTS

| Part #      | Description  |
|-------------|--|
| EQBP5627513 | 3/4" 3 LED RED ROUND MARKER LIGHT W/GROMMET & PLUG   |
| EQBP5627523 | 3/4" 3 LED AMBER ROUND MARKER LIGHT W/GROMMET & PLUG |



### ROUND TRUCK & TRAILER LIGHTS

| Part #      | Description                                      |
|-------------|--|
| EQBP5624110 | 4" 10 LED, RED, ROUND STT LIGHT W/GROMMET & PLUG |



## FUSES

### GLASS

| Part #   | Type | Amps | Box Quantity |
|----------|------|------|--------------|
| ELFAGW15 | AGW  | 15   | 5            |
| ELFAGW20 | AGW  | 20   | 5            |
| ELFSFE20 | SFE  | 20   | 5            |
| ELFSFE30 | SFE  | 30   | 5            |
| ELFAGC01 | AGC  | 1    | 5            |
| ELFAGC02 | AGC  | 2    | 5            |
| ELFAGC03 | AGC  | 3    | 5            |

| Part #    | Type | Amps | Box Quantity |
|-----------|------|------|--------------|
| ELFAGC05  | AGC  | 5    | 5            |
| ELFAGC075 | AGC  | 7.5  | 5            |
| ELFAGC10  | AGC  | 10   | 5            |
| ELFAGC15  | AGC  | 15   | 5            |
| ELFAGC20  | AGC  | 20   | 5            |
| ELFAGC25  | AGC  | 25   | 5            |



### BLADE

| Part #    | Type    | Amps | Color  | Box Quantity |
|-----------|---------|------|--------|--------------|
| ELFATO03  | ATO/ATC | 3    | VIOLET | 5            |
| ELFATO05  | ATO/ATC | 5    | TAN    | 5            |
| ELFATO075 | ATO/ATC | 7.5  | BROWN  | 5            |
| ELFATO10  | ATO/ATC | 10   | RED    | 5            |
| ELFATO15  | ATO/ATC | 15   | BLUE   | 5            |
| ELFATO20  | ATO/ATC | 20   | YELLOW | 5            |
| ELFATO25  | ATO/ATC | 25   | CLEAR  | 5            |
| ELFATO30  | ATO/ATC | 30   | GREEN  | 5            |
| ELFMIN05  | MINI    | 5    | TAN    | 5            |
| ELFMIN075 | MINI    | 7.5  | BROWN  | 5            |

| Part #   | Type | Amps | Color  | Box Quantity |
|----------|------|------|--------|--------------|
| ELFMIN10 | MINI | 10   | RED    | 5            |
| ELFMIN15 | MINI | 15   | BLUE   | 5            |
| ELFMIN20 | MINI | 20   | YELLOW | 5            |
| ELFMIN25 | MINI | 25   | CLEAR  | 5            |
| ELFMIN30 | MINI | 30   | GREEN  | 5            |
| ELFMAX20 | MAXI | 20   | YELLOW | 1            |
| ELFMAX30 | MAXI | 30   | GREEN  | 1            |
| ELFMAX40 | MAXI | 40   | ORANGE | 1            |
| ELFMAX50 | MAXI | 50   | RED    | 1            |
| ELFMAX60 | MAXI | 60   | BLUE   | 1            |



ELECTRICAL

# ALLIGATOR CLIPS, FLASHERS, CIRCUIT BREAKERS & TERMINAL BLOCKS

## ALLIGATOR CLIPS

| Part #  | Amps | Type        |
|---------|------|-------------|
| ELAC30I | 30   | INSULATED   |
| ELAC30N | 30   | UNINSULATED |



30 Amp Alligator Clips come in insulated and uninsulated. Insulated will be supplied as 1/2 with a red jacket and 1/2 with a black jacket.

## FLASHERS

| Part #  | Description | Box Quantity |
|---------|-------------|--------------|
| ELFL552 | 2 PIN, 12V  | 10           |



## CIRCUIT BREAKERS

### 12V • DC • AUTO RESET • METAL

| Part #    | Amp | Bracket Type |
|-----------|-----|--------------|
| ELCB15AH  | 15  | HORIZONTAL   |
| ELCB15ANB | 15  | NONE         |
| ELCB20AH  | 20  | HORIZONTAL   |
| ELCB20ANB | 20  | NONE         |
| ELCB25ANB | 25  | NONE         |
| ELCB30AH  | 30  | HORIZONTAL   |
| ELCB30ANB | 30  | NONE         |



These circuit breakers are single pole, thermal type breakers. The stud terminals have a 10-32 thread. The studs are .66" and .5" long. Mounting holes have a diameter of .196. Nuts and lock washers are included.

## TERMINAL BLOCKS

### SCREW TYPE

| Part #  | Gang |
|---------|------|
| ELTBS04 | 8    |



These individual gang/non bussed terminal blocks provide a common area to neatly connect multiple wire connections. Each barrier is spaced .41" and each mounting area is spaced .563" center to center. They accept 10 to 22 AWG. Temperature rating is -40° F to 260° F and electrical rating is 30A at 600V.

# SECTION 8: TAPES, SEALING, & ADHESIVES



# CAULKS, SEALANTS, & THREADLOCKERS

## CAULKS & SEALANTS

### 100 % SILICONE

Geocel 8125® 100% Silicone High Performance Acetoxy Cure Sealant is a high modulus, one-component sealant. It has excellent adhesion to non-porous surfaces and is able to withstand ±25% joint movement.

| Part #   | Package Size  | Color | Case Quantity |
|----------|---------------|-------|---------------|
| CGC68111 | 10.3 OZ. TUBE | CLEAR | 12            |
| CGC68113 | 10.3 OZ. TUBE | BLACK | 12            |
| CGC59102 | 10.3 OZ. TUBE | WHITE | 12            |

### CONSTRUCTION TRYPOLYMER SEALANT

Geocel 2300® Construction Tripolymer Sealant is a single component, high-performance elastomeric sealant for use in a wide variety of roofing, trim, architectural metal, manufacturing, underdeck system, solar roof system, and general construction applications.

| Part #   | Package Size  | Color | Case Quantity |
|----------|---------------|-------|---------------|
| CGC66100 | 10.3 OZ. TUBE | CLEAR | 12            |
| CGC66103 | 10.3 OZ. TUBE | BLACK | 12            |
| CGC66101 | 10.3 OZ. TUBE | WHITE | 12            |



## THREADLOCKERS

Pro Seal Blue Threadlocker is a medium strength, anaerobic threadlocker for fasteners up to a 3/4" diameter. It is resistant to gas, antifreeze, transmission fluid, and oil. It is removable with hand tools and is resistant to temperatures from -65° F to 300° F. (Anaerobic means it needs to be sealed off from air to harden)

| Part #   | Package Size | Description       | Case Quantity |
|----------|--------------|-------------------|---------------|
| CPS24206 | 6ML BOTTLE   | BLUE THREADLOCKER | 12            |
| CPS24250 | 50ML BOTTLE  | BLUE THREADLOCKER | 6             |



Pro Seal Red Threadlocker is a high strength, permanent, anaerobic threadlocker. It is resistant to gas, antifreeze, transmission fluid, and oil. It is resistant to temperatures from -65° F to 300° F and must be heated over 300° F to weaken the bond and loosen.

| Part #   | Package Size | Description      | Case Quantity |
|----------|--------------|------------------|---------------|
| CPS27106 | 6ML BOTTLE   | RED THREADLOCKER | 12            |
| CPS27150 | 50ML BOTTLE  | RED THREADLOCKER | 6             |



Permatex Green Penetrating Threadlocker is a low viscosity threadlocking liquid that wicks along the threads of preassembled fasteners to secure them in place. Since it is applied after assembly, preventive maintenance procedures are simplified. Ideal for fasteners ranging from #2 to 1/2" (2.2 to 12mm) in size. Localized heating and hand tools are needed for disassembly.

| Part #  | Package Size | Description                    | Case Quantity |
|---------|--------------|--------------------------------|---------------|
| CP29000 | 6 ML TUBE    | PENETRATING THREADLOCKER GREEN | 12            |



# SLEEVE RETAINER & GASKET MAKERS

## SLEEVE RETAINER

Permatex Sleeve Retainer is an anaerobic adhesive that secures slip and press fit assemblies. It withstands temperatures up to 400° F, adds up to 3000 PSI holding power, and restores fit to worn or out-of-tolerance assemblies.

| Part #  | Package Size | Description     | Case Quantity |
|---------|--------------|-----------------|---------------|
| CP64000 | 6ML TUBE     | SLEEVE RETAINER | 12            |
| CP64040 | 40ML BOTTLE  | SLEEVE RETAINER | 6             |



## GASKET MAKERS

Pro Seal Blue Silicone Gasket Maker replaces most precut gaskets, will not foul computer sensors, and withstands temperatures from -70° F to 400° F. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Package Size | Description                | Case Quantity |
|----------|--------------|----------------------------|---------------|
| CPS80006 | 3OZ. TUBE    | BLUE SILICONE GASKET MAKER | 12            |



Pro Seal Black Silicone Gasket Maker forms gaskets in place instantly and dries tough and flexible. It replaces cork, paper, asbestos, and felt precut gaskets and withstands temperatures from -70° F to 400° F. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Package Size       | Description                 | Case Quantity |
|----------|--------------------|-----------------------------|---------------|
| CPS80046 | 3OZ TUBE           | BLACK SILICONE GASKET MAKER | 12            |
| CPS80047 | 10.3OZ. CAULK TUBE | BLACK SILICONE GASKET MAKER | 12            |



Pro Seal Red Silicone Gasket Maker will not foul computer sensors. It is especially formulated for high temperatures, covering from -70° F to 600° F. It also resists high pressures up to 5,000 PSI. It resists oil, transmission fluid, water, and antifreeze.

| Part #   | Package Size     | Description               | Case Quantity |
|----------|------------------|---------------------------|---------------|
| CPS80726 | 3OZ TUBE         | RED SILICONE GASKET MAKER | 12            |
| CPS80729 | 8OZ. AEROSOL CAN | RED SILICONE GASKET MAKER | 6             |



Master Black Plus Silicone Gasket Maker is sensor safe, non-corrosive, retains its flexibility, and gives max resistance to oils. It meets OE silicone gasket performance specs and withstands temperatures from -80° F to 600° F intermittent.

| Part #    | Package Size       | Description                 | Case Quantity |
|-----------|--------------------|-----------------------------|---------------|
| CGM15BP   | 3.35OZ. TUBE       | BLACK SILICONE GASKET MAKER | 12            |
| CGM15BP-4 | 10.6OZ. CAULK TUBE | BLACK SILICONE GASKET MAKER | 12            |



Master Red Silicone Gasket Maker will not foul computer sensors. It is especially formulated for high temperatures covering from -70° F to 600° F. It resists oil, transmission fluid, water, and antifreeze.

| Part # | Package Size | Description               | Case Quantity |
|--------|--------------|---------------------------|---------------|
| CGM7-1 | 3OZ. TUBE    | RED SILICONE GASKET MAKER | 12            |

# GASKET MAKERS

Permatex Ultra Black Silicone Gasket Maker is fast curing, sensor safe, low odor, non-corrosive, vibration resistant, retains flexibility, and gives max resistance to oils. It meets OE silicone gasket performance specs and withstands temperatures from -65° F to 500° F intermittent.

| Part #  | Package Size     | Description                 | Case Quantity |
|---------|------------------|-----------------------------|---------------|
| CP82180 | 3.35OZ. TUBE     | BLACK SILICONE GASKET MAKER | 12            |
| CP24105 | 13OZ. CAULK TUBE | BLACK SILICONE GASKET MAKER | 12            |



Permatex Ultra Grey Silicone Gasket Maker is sensor safe, low odor, non-corrosive, gives maximum joint movement resistance, and outstanding resistance to oils, cooling and shop fluids. It is eight times more flexible than cork/composite gaskets. It withstands temperatures from -65° F to 500° F intermittent.

| Part #  | Package Size     | Description                | Case Quantity |
|---------|------------------|----------------------------|---------------|
| CP82194 | 3.35OZ. TUBE     | GRAY SILICONE GASKET MAKER | 12            |
| CP82195 | 11OZ. CAULK TUBE | GRAY SILICONE GASKET MAKER | 6             |



Permatex Right Stuff Gasket Maker makes leak proof gaskets and allows you to return equipment to service immediately. It is Permatex' premier instant gasket maker. It is sensor safe, fleet tested, oil, coolant, and shop fluid resistant. Temperature range is -75° F to 500° F intermittent.

| Part #  | Package Size                    | Description              | Case Quantity |
|---------|---------------------------------|--------------------------|---------------|
| CP25224 | 7OZ. AEROSOL CAN                | RIGHT STUFF GASKET MAKER | 6             |
| CP29208 | 5OZ. CAULK TUBE                 | RIGHT STUFF GASKET MAKER | 6             |
| CP33694 | 10.1 OZ. CAULK TUBE             | RIGHT STUFF GASKET MAKER | 6             |
| CP99070 | 2 X 5OZ. CAULK TUBE W/CAULK GUN | RIGHT STUFF GASKET MAKER | 4             |



Permatex Anaerobic Gasket Maker is a non-corrosive gasketing material designed primarily for use on aluminum, iron, and steel flanged mating surfaces. It fills gaps up to .015" and cures to a solvent resistant seal that will not tear or decay. Disassembly and removal is easy.

| Part #  | Package Size | Description            | Case Quantity |
|---------|--------------|------------------------|---------------|
| CP51813 | 50ML TUBE    | ANAEROBIC GASKET MAKER | 6             |



Permatex High Tack Spray-a-Gasket is a fast-drying, all-purpose sealant which dries to a highly tacky, non-brittle film. It can be applied in advance for ease of assembly. It is resistant to gas, oil, antifreeze, kerosene, propane, and butane and withstands temperatures of -65° F to 500° F.

| Part #  | Package Size     | Description              | Case Quantity |
|---------|------------------|--------------------------|---------------|
| CP80065 | 9OZ. AEROSOL CAN | HIGH TACK SPRAY-A-GASKET | 12            |



# GASKET MAKERS, SEAL-ALL, & WEATHERSTRIP ADHESIVE

## GASKET MAKERS

Permatex Copper Gasket Spray is a fast-drying, metallic copper sealant. It helps dissipate heat, prevents gasket burnout, and improves heat transfer. It resists all types of automotive fluids and withstands temperatures of -50° F to 500° F.

| Part #  | Package Size     | Description         | Case Quantity |
|---------|------------------|---------------------|---------------|
| CP80697 | 9OZ. AEROSOL CAN | COPPER GASKET SPRAY | 12            |



Permatex Form-A-Gasket #2 is a slow-drying, non-hardening sealant for aviation and automotive use. It is resistant to gas, oil, and grease and withstands temperatures of -65° F to 400° F.

| Part #  | Package Size | Description      | Case Quantity |
|---------|--------------|------------------|---------------|
| CP80016 | 3OZ. TUBE    | FORM-A-GASKET #2 | 12            |



Permatex Tack & Seal Gasket Sealant is non-hardening for easy disassembly. It keeps large gaskets in place during positioning and assembly and it does not stain. It resists engine fluids including diesel and synthetic oils and withstands temperatures of -65° F to 400° F.

| Part #  | Package Size | Description                | Case Quantity |
|---------|--------------|----------------------------|---------------|
| CP80938 | 1.25OZ. TUBE | TACK & SEAL GASKET SEALANT | 12            |

## SEAL-ALL

Seal-All Adhesive adheres to all substrates and materials with superior strength with the exceptions of paper, cardboard, and Styrofoam. It is ideal for automotive and garage repairs and is effective in stopping existing leaks.

| Part # | Package Size | Description | Case Quantity |
|--------|--------------|-------------|---------------|
| CSAA   | 2OZ. TUBE    | SEAL-ALL    | 6             |



## WEATHERSTRIP ADHESIVE

Weatherstrip Adhesive is a high strength fast drying adhesive which bonds rubber, fabric, vinyl, upholstery, and more. It is resistant to kerosene, water, gas, and antifreeze.

| Part # | Package Size | Description                 | Case Quantity |
|--------|--------------|-----------------------------|---------------|
| CWSA   | 5OZ. TUBE    | BLACK WEATHERSTRIP ADHESIVE | 12            |



# WEATHERSTRIP, ELECTRICAL TAPE, PACKAGING TAPE, DUCT TAPE, & TEFLON TAPE

## WEATHERSTRIP

### ADHESIVE BACKED • SPONGE

| Part #  | Size       | Roll Length |
|---------|------------|-------------|
| AV04851 | 5/32 X 1/2 | 50'         |



Adhesive Backed Sponge Weatherstrip is a light-weight closed cell sponge material. It is simple to use, simply pull back the liner tape and press onto a clean dry surface. Size is given as thickness X width.

## ELECTRICAL TAPE

### VINYL

| Part # | Size       | Color | Sleeve Quantity |
|--------|------------|-------|-----------------|
| ELET   | 3/4" X 60' | BLACK | 10 ROLLS        |
| ELETB  | 3/4" X 66' | BLUE  | 10 ROLLS        |
| ELETR  | 3/4" X 66' | RED   | 10 ROLLS        |
| ELETW  | 3/4" X 66' | WHITE | 10 ROLLS        |



Electrical Tape is UL approved.

## ELECTRICAL TAPE

### LIQUID

| Part # | Color | Bottle Size | Case Quantity |
|--------|-------|-------------|---------------|
| ELETLB | BLACK | 4 OZ.       | 12            |
| ELETLR | RED   | 4 OZ.       | 12            |

Liquid Electrical Tape is used to insulate and protect electrical splices and connections. It will not unravel or deteriorate and provides a waterproof coating. Bottles come with a brush-on applicator on the lid.



## PACKAGING TAPE

### ACRYLIC • CLEAR

| Part # | Size        | Thickness | Package Quantity |
|--------|-------------|-----------|------------------|
| EQPT   | 2" X 110 YD | 1.8 MIL   | 6                |

## DUCT TAPE

### GENERAL PURPOSE • GRAY

| Part # | Size       | Thickness | Package Quantity |
|--------|------------|-----------|------------------|
| EQDT   | 2" X 55 YD | 7.0 MIL   | 6                |

## TEFLON TAPE

| Part # | Size        | Thickness | Sleeve Quantity |
|--------|-------------|-----------|-----------------|
| EQTT   | 1/2" X 260" | 0.0035"   | 10              |



# O-RINGS



Buna N O-Rings are a common and simple form of seal. They are designed to be seated in a groove and compressed between two parts and are recommended for use with oil, gas, propane, and water. Size is given as the ID by the OD.

## 1/16 SECTION • BUNA-N • MADE IN USA OR IMPORTED

| Part #  | Size         | Discount Quantity |
|---------|--------------|-------------------|
| EQOR203 | 3/32 X 7/32  | 100               |
| EQOR204 | 1/8 X 1/4    | 100               |
| EQOR205 | 5/32 X 9/32  | 100               |
| EQOR206 | 3/16 X 5/16  | 100               |
| EQOR207 | 7/32 X 11/32 | 100               |
| EQOR208 | 1/4 X 3/8    | 100               |
| EQOR210 | 5/16 X 7/16  | 100               |
| EQOR212 | 3/8 X 1/2    | 100               |
| EQOR214 | 7/16 X 9/16  | 100               |
| EQOR216 | 1/2 X 5/8    | 100               |
| EQOR218 | 9/16 X 11/16 | 100               |

| Part #  | Size            | Discount Quantity |
|---------|-----------------|-------------------|
| EQOR220 | 5/8 X 3/4       | 100               |
| EQOR222 | 11/16 X 13/16   | 100               |
| EQOR224 | 3/4 X 7/8       | 100               |
| EQOR226 | 13/16 X 15/16   | 100               |
| EQOR228 | 7/8 X 1         | 100               |
| EQOR230 | 15/16 X 1 1/16  | 100               |
| EQOR232 | 1 X 1 1/8       | 100               |
| EQOR238 | 1 3/16 X 1 5/16 | 100               |
| EQOR244 | 1 3/8 X 1 1/2   | 100               |
| EQOR256 | 1 3/4 X 1 7/8   | 100               |
| EQOR260 | 1 7/8 X 2       | 100               |

## 3/32 SECTION • BUNA-N • MADE IN USA OR IMPORTED

| Part #  | Size          | Discount Quantity |
|---------|---------------|-------------------|
| EQOR308 | 1/4 X 7/16    | 100               |
| EQOR310 | 5/16 X 1/2    | 100               |
| EQOR312 | 3/8 X 9/16    | 100               |
| EQOR314 | 7/16 X 5/8    | 100               |
| EQOR316 | 1/2 X 11/16   | 100               |
| EQOR318 | 9/16 X 3/4    | 100               |
| EQOR320 | 5/8 X 13/16   | 100               |
| EQOR322 | 11/16 X 7/8   | 100               |
| EQOR324 | 3/4 X 15/16   | 100               |
| EQOR326 | 13/16 X 1     | 100               |
| EQOR328 | 7/8 X 1 1/16  | 100               |
| EQOR330 | 15/16 X 1 1/8 | 100               |
| EQOR332 | 1 X 1 3/16    | 100               |

| Part #  | Size            | Discount Quantity |
|---------|-----------------|-------------------|
| EQOR334 | 1 1/16 X 1 1/4  | 100               |
| EQOR336 | 1 1/8 X 1 5/16  | 100               |
| EQOR338 | 1 3/16 X 1 3/8  | 100               |
| EQOR340 | 1 1/4 X 1 7/16  | 100               |
| EQOR342 | 1 5/16 X 1 1/2  | 100               |
| EQOR344 | 1 3/8 X 1 9/16  | 100               |
| EQOR346 | 1 7/16 X 1 5/8  | 100               |
| EQOR348 | 1 1/2 X 1 11/16 | 100               |
| EQOR352 | 1 5/8 X 1 13/16 | 100               |
| EQOR364 | 2 X 2 3/16      | 100               |
| EQOR366 | 2 1/16 X 2 1/4  | 100               |
| EQOR370 | 2 3/16 X 2 3/8  | 100               |

# O-RINGS

## 1/8 SECTION • BUNA-N • MADE IN USA OR IMPORTED

| Part #   | Size             | Discount Quantity |
|----------|------------------|-------------------|
| EQOR410  | 5/16 X 9/16      | 100               |
| EQOR420  | 5/8 X 7/8        | 100               |
| EQOR424  | 3/4 X 1          | 100               |
| EQOR426  | 13/16 X 1 1/16   | 100               |
| EQOR428  | 7/8 X 1 1/8      | 100               |
| EQOR430  | 15/16 X 1 3/16   | 100               |
| EQOR432  | 1 X 1 1/4        | 100               |
| EQOR434  | 1 1/16 X 1 5/16  | 100               |
| EQOR436  | 1 1/8 X 1 3/8    | 100               |
| EQOR438  | 1 3/16 X 1 7/16  | 100               |
| EQOR440  | 1 1/4 X 1 1/2    | 100               |
| EQOR442  | 1 5/16 X 1 9/16  | 100               |
| EQOR444  | 1 3/8 X 1 5/8    | 100               |
| EQOR446  | 1 7/16 X 1 11/16 | 100               |
| EQOR448  | 1 1/2 X 1 3/4    | 100               |
| EQOR452  | 1 5/8 X 1 7/8    | 100               |
| EQOR456  | 1 3/4 X 2        | 100               |
| EQOR460  | 1 7/8 X 2 1/8    | 100               |
| EQOR464  | 2 X 2 1/4        | 100               |
| EQOR468  | 2 1/8 X 2 3/8    | 100               |
| EQOR472  | 2 1/4 X 2 1/2    | 100               |
| EQOR480  | 2 1/2 X 2 3/4    | 100               |
| EQOR488  | 2 3/4 X 3        | 100               |
| EQOR496  | 3 X 3 1/4        | 100               |
| EQOR4104 | 3 1/4 X 3 1/2    | 100               |
| EQOR4112 | 3 1/2 X 3 3/4    | 100               |
| EQOR4120 | 3 3/4 X 4        | 100               |

## 3/16 SECTION • BUNA-N • MADE IN USA OR IMPORTED

| Part #  | Size          | Discount Quantity |
|---------|---------------|-------------------|
| EQOR648 | 1 1/2 X 1 7/8 | 100               |
| EQOR652 | 1 5/8 X 2     | 100               |
| EQOR656 | 1 3/4 X 2 1/8 | 100               |
| EQOR660 | 1 7/8 X 2 1/4 | 100               |
| EQOR664 | 2 X 2 3/8     | 100               |
| EQOR666 | 2 1/8 X 2 1/2 | 100               |

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