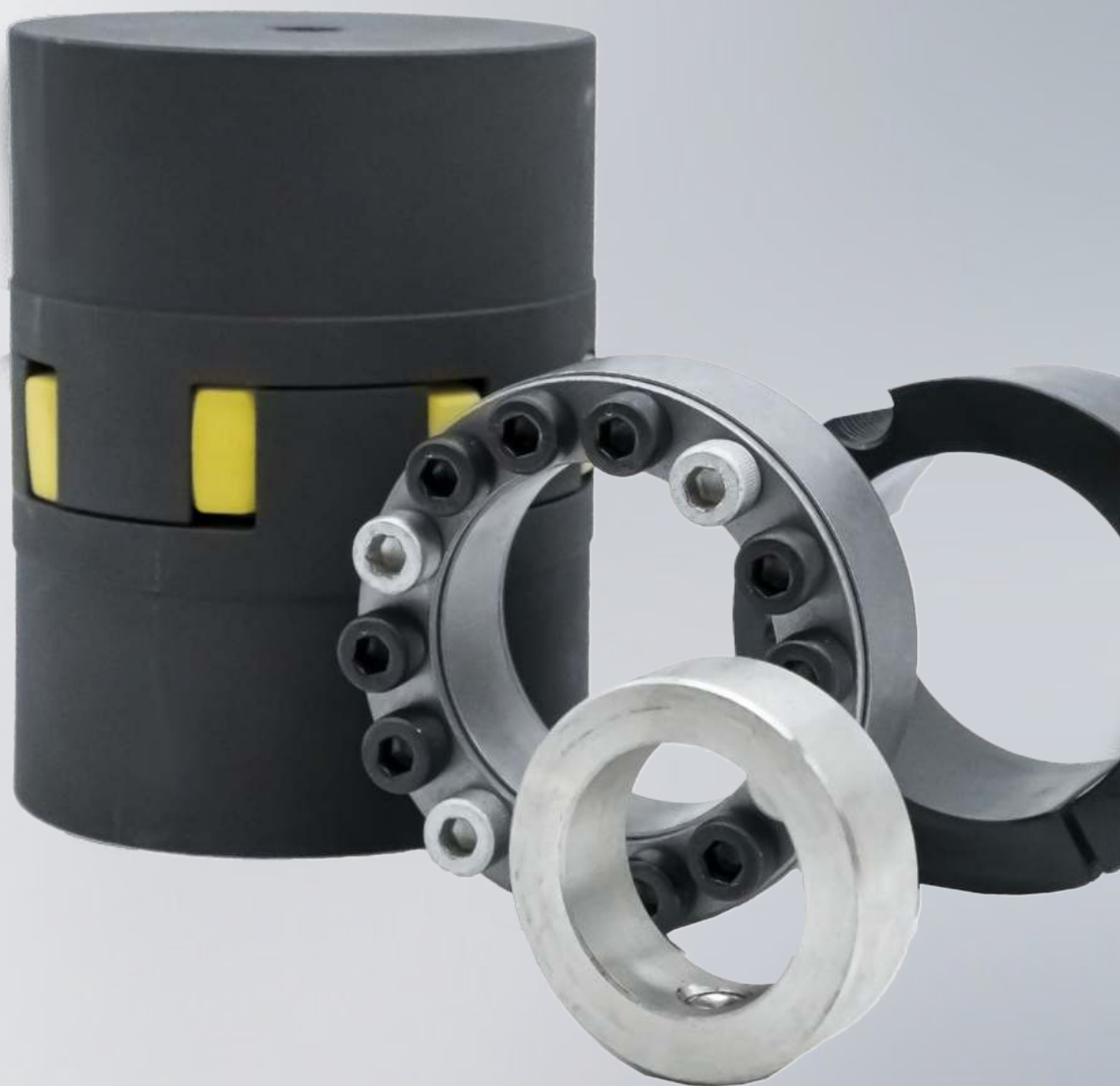


Couplings & Shaft Fixings



**FINER**POWER  
TRANSMISSIONS





## COUPLINGS

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## SHAFT FIXINGS

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## Cone Ring Element (Rubber)



Synthetic Rubber & Polyurethane - See Cone Ring Couplings

## Curved Tooth Gear Sleeve



Nylon Sleeve - See Curved Tooth Gear Couplings

## Curved Jaw (Rotex) Element



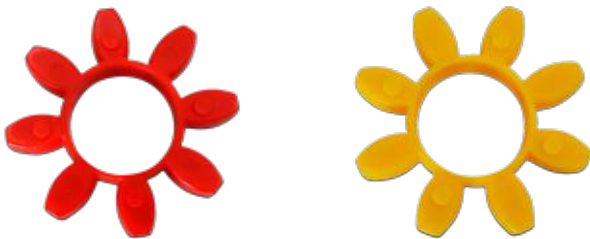
Polyurethane Red 98/Yellow 92 Shore Hardness  
See Curved Jaw Couplings

## Tyre Element



Synthetic Rubber - See Flexible Tyre Couplings

## Curved Jaw (Rotex) Element



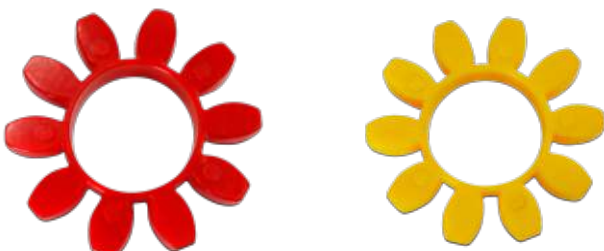
Polyurethane Red 98/Yellow 92 Shore Hardness  
See Curved Jaw Couplings

## Tyre Element (FRAS Rated)



Fire Resistant Anti Static Synthetic Rubber  
See Flexible Tyre Couplings

## Curved Jaw (Rotex) Element



Polyurethane Red 98/Yellow 92 Shore Hardness  
See Curved Jaw Couplings

## Taper Grid



Steel Taper Grid - See KCP Grid Couplings

## HRC Element



Nitrile Rubber - See HRC Couplings

## Jaw Element (Snap Wrap)



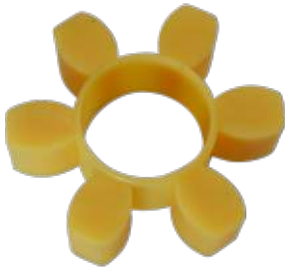
Nitrile Rubber - See Jaw Couplings

## NM Coupling Elements



Flexible NM Series Jaw Coupling

## HRC Element (PUE)



Polyurethane - See HRC Couplings

## Jaw Elements (Snap Wrap Kit) Flexible Pin Element



Nitrile Rubber & Retaining Ring - See Jaw Couplings



Flexible Pin Couplings N-Eupex Type

## Jaw Element (Spider)



Nitrile Rubber - Small to suit size 050-070  
Large to suit size 075-225 - See Jaw Couplings

## MAX DYNAMIC Element



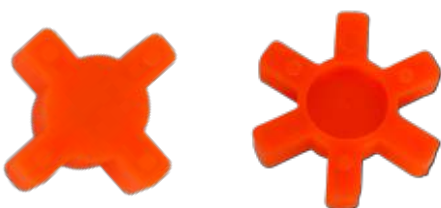
Polyurethane Element  
See MAX DYNAMIC Couplings

## MAX DYNAMIC Spacer Element



Polyurethane Spacer Element  
See MAX DYNAMIC Couplings

## Jaw Element (Poly-Spider)



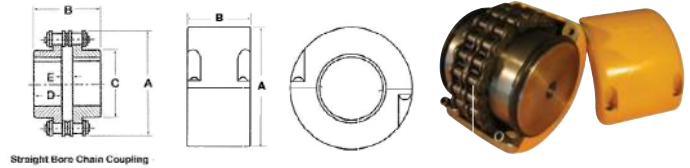
Polyurethane - Small to suit size 050-070  
Large to to suit size 075-276- See Jaw Couplings

## Hi-Trile Element



Hi Trile - Small to suit size 050-070  
Large to to suit size 075-276 - See Jaw Couplings

The Finer Chain Coupling consists of two sprockets joined together by standard duplex roller chain. This highly compact structure provides high flexibility between shafts, power transmission capabilities and is durable and robust. Chain Couplings allow for easy maintenance, it is a simple easy on/easy off process. Finer Power Transmissions Chain Couplings are supplied with covers standard.



## Chain Coupling Ratings

| Coupling | Min. Bore | Max. Bore | Max. RPM      |            | Weight Kg | A   | B     | C    | D   | E    |
|----------|-----------|-----------|---------------|------------|-----------|-----|-------|------|-----|------|
|          |           |           | Without Cover | With Cover |           |     |       |      |     |      |
| C4012    | 14        | 22        | 875           | 5000       | 0.73      | 62  | 79.4  | 36   | 36  | 7.4  |
| C4016    | 16        | 32        | 875           | 5000       | 1.5       | 77  | 87.4  | 51.5 | 40  | 7.4  |
| C5016    | 18        | 40        | 800           | 4000       | 2.75      | 96  | 99.7  | 64   | 45  | 9.7  |
| C5018    | 18        | 45        | 800           | 4000       | 3.6       | 106 | 99.7  | 73.5 | 45  | 9.7  |
| C6018    | 22        | 56        | 675           | 3000       | 6.55      | 127 | 123.5 | 89.5 | 56  | 11.5 |
| C6020    | -         | -         | -             | -          | -         | -   | -     | -    | -   | -    |
| C6022    | 28        | 71        | 675           | 3000       | 10.4      | 151 | 123.5 | 116  | 56  | 11.5 |
| C8018    | 32        | 80        | 500           | 2000       | 13.2      | 169 | 141.2 | 115  | 63  | 15.2 |
| C8020    | 30        | 85        | 500           | 2000       | 18.2      | 211 | 138   | 125  | 67  | 120  |
| C8022    | 40        | 100       | 500           | 2000       | 21.8      | 202 | 157.2 | 142  | 71  | 15.2 |
| C10020   | 45        | 110       | 450           | 1800       | 32.4      | 233 | 178.8 | 162  | 80  | 18.8 |
| C12022   | 40        | 150       | 450           | 1800       | 77.0      | 355 | 180   | 220  | 119 | 210  |

For increased safety Chain Coupling covers should be used. The cover not only improves the safety of the work place but also increases the Chain Couplings overall durability.

(2) Space required to loosen bushing with shortened hex key

| Coupling Covers | Cover Required when RPM Exceeds | A   | B   | Weight |
|-----------------|---------------------------------|-----|-----|--------|
| C4012           | 875                             | 77  | 72  | 0.3    |
| C4016           |                                 | 92  | 72  | 0.35   |
| C5016           | 800                             | 110 | 87  | 0.5    |
| C5018           |                                 | 122 | 85  | 0.6    |
| C6018           | 675                             | 147 | 105 | 1.2    |
| C6022           |                                 | 168 | 117 | 1.2    |
| C8018           | 500                             | 190 | 129 | 1.9    |
| C8022           |                                 | 226 | 137 | 2.7    |
| C10020          | 450                             | 281 | 153 | 4.1    |

## Power Rating Capacity

| Coupling No.       | Max shaft diam. (mm) | Allowable transmission torque at 50rpm or less (kgf.m) | Coupling speed (rpm) |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------------|----------------------|--|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|                    |                      |  | 1                    | 5    | 10   | 25   | 50   | 100  | 200  | 300  | 400  | 500  | 600  | 800  | 1000 | 1200 | 1500 | 1800 | 2000 | 2500 | 3000 | 3600 | 4000 | 4800 |
| 4012               | 22                   | 22.2   | 0.02                 | 0.11 | 0.22 | 0.58 | 1.15 | 1.73 | 2.63 | 3.46 | 4.15 | 4.96 | 5.67 | 7.01 | 8.53 | 9.68 | 11.6 | 13.7 | 14.8 | 17.9 | 20.7 | 24.1 | 26.3 | 30.8 |
| 4016               | 32                   | 39.4   | 0.04                 | 0.21 | 0.41 | 1.03 | 2.06 | 3.09 | 4.69 | 6.17 | 7.41 | 8.85 | 10.1 | 12.5 | 15.3 | 17.3 | 21   | 24.4 | 26.3 | 31.9 | 37   | 43   | 46.9 | 54.9 |
| 5016               | 40                   | 75   | 0.08                 | 0.39 | 0.78 | 1.95 | 3.91 | 5.86 | 8.92 | 11.7 | 14.1 | 16.8 | 19.2 | 23.8 | 28.9 | 32.9 | 39.9 | 46.4 | 50   | 60.6 | 70.4 | 81.6 | -    | -    |
| 5018               | 45                   | 95   | 0.1                  | 0.5  | 0.99 | 2.48 | 4.95 | 7.43 | 11.3 | 14.9 | 17.8 | 21.3 | 24.4 | 30.1 | 36.6 | 41.6 | 50.5 | 58.8 | 63.4 | 76.8 | 89.2 | -    | -    | -    |
| 6018               | 56                   | 179  | 0.18                 | 0.93 | 1.87 | 4.67 | 9.33 | 14   | 21.3 | 28   | 33.6 | 40.1 | 45.9 | 56.8 | 69.1 | 78.4 | 95.2 | 111  | 120  | 145  | -    | -    | -    | -    |
| 6022               | 71                   | 242  | 0.25                 | 1.25 | 2.51 | 6.31 | 12.5 | 18.8 | 28.6 | 37.7 | 45.3 | 54.1 | 61.9 | 76.5 | 93.1 | 105  | 128  | 149  | 161  | 195  | -    | -    | -    | -    |
| 8018               | 80                   | 396  | 0.41                 | 2.07 | 4.14 | 10.3 | 20.7 | 31   | 47.2 | 62.1 | 74.5 | 89   | 101  | 125  | 153  | 174  | 211  | 246  | 265  | -    | -    | -    | -    | -    |
| 8022               | 100                  | 570  | 0.59                 | 2.96 | 5.93 | 14.8 | 29.6 | 44.5 | 67.2 | 89   | 106  | 127  | 146  | 180  | 219  | 249  | 302  | 352  | 379  | -    | -    | -    | -    | -    |
| 10020              | 110                  | 896  | 0.93                 | 4.66 | 9.33 | 23.3 | 46.6 | 70   | 106  | 140  | 168  | 200  | 229  | 283  | 345  | 392  | 476  | 554  | -    | -    | -    | -    | -    | -    |
| 12022              | 140                  | 1750   | 1.81                 | 9.07 | 18.1 | 45.3 | 90.7 | 136  | 206  | 272  | 326  | 390  | 446  | 551  | 671  | 762  | -    | -    | -    | -    | -    | -    | -    | -    |
| Lubrication method |                      |  | A                    |      |      |      |      | B    |      |      |      |      | C    |      |      |      |      |      |      |      |      |      |      |      |

# Cone Ring Couplings

Finer Cone Ring Couplings are based on a time proven design. The coupling consists of two flanges interlocked

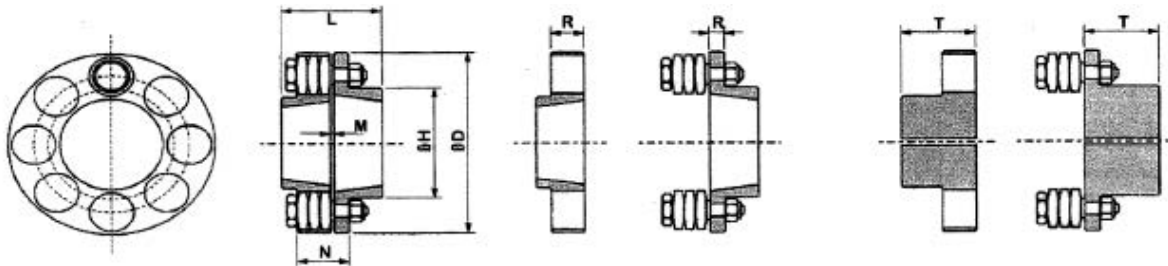
with a number of elements, depending on the coupling size.

The Cone Ring Coupling's unique flexible element comprises tapered rubber rings mounted on steel pins. The rubber rings absorb commonly encountered misalignment, shock and vibration.

The Cone Ring Coupling is as popular as ever for its ease of maintenance.

No Lubrication is required. The Pin and Rubber design ensures trouble free maintenance, as they can be removed and changed without the need to take the coupling off the shafts.

The flanges are high-grade cast iron; the pins are hexagonal steel bar; and the rings are available in synthetic rubber and polyurethane.



**TYPICAL TAPERLOCK  
KXT ASSEMBLY**

**TAPERLOCK  
KXT BUSH HALF    KXT PIN HALF**

**PILOT BORE  
KX BUSH HALF    KX PIN HALF**

| Size   | No. of Pins (Rubbers) | Pin/ Rubber Size (D.Brown) | Max. Bore PB/ Bush Size |           | D   | H        |           | L     | M | R        |           | T        |           | Kg       |           |
|--------|-----------------------|----------------------------|-------------------------|-----------|-----|----------|-----------|-------|---|----------|-----------|----------|-----------|----------|-----------|
|        |                       |                            | Pin Half                | Bush Half |     | Pin Half | Bush Half |       |   | Pin Half | Bush Half | Pin Half | Bush Half | Pin Half | Bush Half |
| KX020  | 6 (18)                | 1<br>(GC 3/4"-3)           | 28                      | 20        | 88  | 35       | 44        | 0A    | 6 | 12       | 23        | 53       | 33        | 0A       | 0A        |
| KX030  | 4 (12)                | 2<br>(GC 1"-3)             | 38                      | 32        | 127 | 64       | 58        | 85    | 3 | 12       | 26        | 41       |           | 1.8      | 2.5       |
| KX038  | 6 (18)                | 2<br>(GC 1"-3)             | 42                      | 38        | 132 | 72       | 64        | 99    | 3 | 12       | 26        | 48       |           | 2.1      | 2.3       |
| KX042  | 8 (24)                | 2<br>(GC 1"-3)             | 48                      | 42        | 146 | 83       | 78        | 115   | 3 | 12       | 26        | 56       |           | 3.0      | 3.2       |
| KXT042 |                       |                            | 1610                    | 1215      |     |          |           | 69.5  |   |          |           | 28.4     | 38.1      | 1.8      | 2.3       |
| KX048  | 6 (18)                | 3<br>(GC 1 3/4"-3)         | 55                      | 48        | 171 | 90       | 82        | 90    | 3 | 17       | 33        | 61       |           | 4.9      | 5.0       |
| KXT048 |                       |                            | 2012                    | 1615      |     |          |           | 82    |   |          |           | 35       | 38.1      | 3.6      | 4.6       |
| KX058  | 8 (24)                | 3<br>(GC 1 3/4"-3)         | 65                      | 58        | 193 | 106      | 98        | 139   | 3 | 17       | 33        | 68       |           | 5.1      | 5.9       |
| KXT058 |                       |                            | 2517                    | 2012      |     |          |           | 82.3  |   |          |           | 47.5     | 31.8      | 3.8      | 5.6       |
| KX070  | 10 (30)               | 3<br>(GC 1 3/4"-3)         | 75                      | 70        | 216 | 128      | 117       | 155   | 3 | 17       | 33        | 76       |           | 9.2      | 9.0       |
| KXT070 |                       |                            | 3020                    | 2525      |     |          |           | 121.5 |   |          |           | 55       | 63.5      | 6.1      | 7.6       |
| KX075  | 8 (32)                | 4<br>(GC 2 3/4"-3)         | 80                      | 75        | 254 | 127      | 127       | 179   | 3 | 30       | 56        | 88       |           | 16.5     | 16.9      |
| KX085  | 10 (40)               | 4<br>(GC 2 3/4"-3)         | 105                     | 85        | 279 | 166      | 148       | 203   | 3 | 30       | 56        | 100      |           | 22.4     | 21.5      |
| KXT085 |                       |                            | 3535                    | 3030      |     |          |           | 172.2 |   |          |           | 93       | 76.2      | 17.1     | 19.6      |
| KX105  | 12 (48)               | 4<br>(GC 2 3/4"-3)         | 120                     | 85        | 330 | 202      | 180       | 237   | 3 | 30       | 56        | 117      |           | 36.3     | 35.0      |
| KXT105 |                       |                            | 4040                    | 3535      |     |          |           | 197.5 |   |          |           | 105.6    | 88.9      | 24.5     | 27.5      |
| KX120  | 10 (40)               | 5<br>(GC 4 1/4"-3)         | 130                     | 120       | 370 | 232      | 206       | 270   | 6 | 46       | 76        | 132      |           | 56.1     | 51.0      |
| KXT120 |                       |                            | 4040                    | 4040      |     |          |           | 217.2 |   |          |           | 105.6    | 105.6     | 39.5     | 40.5      |
| KX135  | 12 (48)               | 5<br>(GC 4 1/4"-3)         | 135                     | 135       | 419 | 240      | 230       | 300   | 6 | 46       | 76        | 147      |           | 70.0     | 71.0      |
| KXT135 |                       |                            | 4545                    | 4545      |     |          |           | 239.6 |   |          |           | 119.3    | 114.3     | 52.8     | 56.8      |
| KX150  | 14 (56)               | 5<br>(GC 4 1/4"-3)         | 150                     | 150       | 457 | 160      | 256       | 336   | 6 | 46       | 76        | 165      |           | 88.6     | 93.0      |
| KXT150 |                       |                            | 5050                    | 5050      |     |          |           | 265   |   |          |           | 132      | 127       | 66.8     | 72.8      |
| KX170  | 10 (40)               | 6<br>(GC 6-1/4"-3)         | 190                     | 170       | 533 | 320      | 292       | 0A    | 6 | 63       | 92        | 188      |           | 305      | 0A        |

NB - Pin coupling halves are supplied complete with pins, nuts and rubbers

REPLACEMENT PARTS ALSO STOCK SEPARATELY: NBR Rubber Rings, Polyurethane Rings, Pin & Nuts, Pin & Nut Assemblies with NBR Rubbers

| Size | Power Ratings (Kw @ ) |         |         |          |          |          | Nominal Torque (Nm) |
|------|-----------------------|---------|---------|----------|----------|----------|---------------------|
|      | 100 rpm               | 720 rpm | 960 rpm | 1440 rpm | 2880 rpm | Max .rpm |                     |
| 020  | 0.55                  | 3.96    | 5.28    | 7.92     | 15.84    | 6500     | 53                  |
| 030  | 1.16                  | 8.4     | 11.1    | 16.7     | 33.4     | 4600     | 110                 |
| 038  | 1.87                  | 13.5    | 18.0    | 26.9     | 53.9     | 4400     | 175                 |
| 042  | 2.84                  | 20.4    | 27.3    | 40.9     | 81.8     | 4000     | 265                 |
| 048  | 4.93                  | 35.5    | 47.3    | 71.0     | 142.0    | 3400     | 465                 |
| 058  | 7.54                  | 54.3    | 72.4    | 108.6    | 217.2    | 3020     | 720                 |
| 070  | 10.70                 | 77.0    | 102.7   | 154.1    | -        | 2700     | 1020                |
| 075  | 25.7                  | 185.0   | 246.7   | 370.1    | -        | 2300     | 2450                |
| 085  | 35.5                  | 255.6   | 340.8   | 511.2    | -        | 2090     | 3390                |
| 105  | 53                    | 382     | 509     | 763      | -        | 1760     | 5080                |
| 120  | 90                    | 648     | 864     | 1296     | -        | 1570     | 8474                |
| 135  | 122                   | 878     | 1171    | -        | -        | 1390     | 11520               |
| 150  | 159                   | 1145    | 1526    | -        | -        | 1280     | 15140               |
| 170  | 246                   | 1771    | 2362    | -        | -        | 1090     | 23500               |

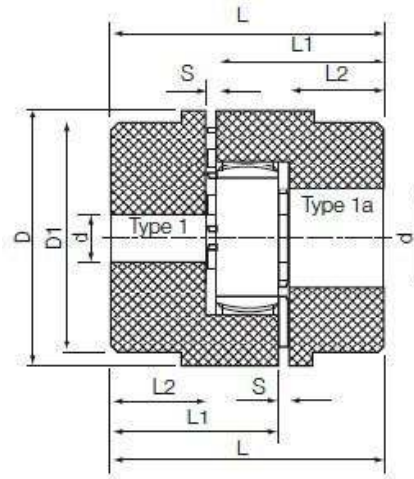
### Selection Procedure

1. From the service factors table (below) determine the service factor.
2. Calculate the Design Power by multiplying the Absorbed Power of the driven machine by the Service Factor.
3. Determine the size of coupling required by matching the design power to a power rating that matches or exceeds the Design Power.

The Pin Half is normally mounted on the drive shaft.

| Duty     | Electric Motors |
|----------|-----------------|
| Uniform  | 1.0             |
| Light    | 1.5             |
| Moderate | 2.0             |
| Heavy    | 2.5             |
| Severe   | 3.0             |

# Curved Jaw (Rotex) Couplings



BOOK 3: COUPLINGS & SHAFT FIXINGS

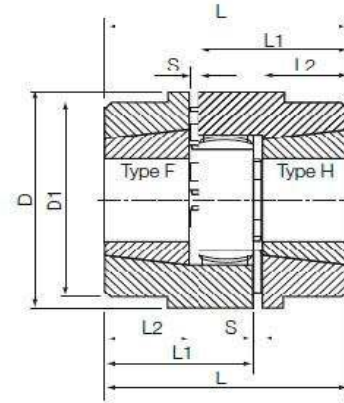
COUPLINGS

| Type | Hub Type | Max Speed RPM | Rated Torque (Nm) |             | D   | D1  | d-min | d-max | S   | L1    | L2  | L   | Kg    |
|------|----------|---------------|-------------------|-------------|-----|-----|-------|-------|-----|-------|-----|-----|-------|
|      |          |               | 92 Sh A Yellow    | 98 Sh A Red |     |     |       |       |     |       |     |     |       |
| GE19 | 1        | 19000         | 10                | 17          | 40  | 32  | 6     | 19    | 1   | 39    | 25  | 65  | 0.19  |
|      | 1a       |               |                   |             |     |     | 19    | 24    |     |       |     |     |       |
| GE24 | 1        | 14000         | 35                | 60          | 56  | 40  | 9     | 24    | 1   | 46    | 30  | 77  | 0.38  |
|      | 1a       |               |                   |             |     |     | 22    | 28    |     |       |     |     |       |
| GE28 | 1        | 11800         | 95                | 160         | 65  | 48  | 10    | 28    | 1.5 | 52.5  | 35  | 89  | 0.62  |
|      | 1a       |               |                   |             |     |     | 28    | 38    |     |       |     |     |       |
| GE38 | 1        | 9500          | 190               | 325         | 80  | 66  | 12    | 38    | 1   | 66    | 45  | 112 | 1.36  |
|      | 1a       |               |                   |             |     |     | 38    | 45    |     |       |     |     |       |
| GE42 | 1        | 8000          | 265               | 450         | 95  | 75  | 14    | 42    | 1   | 73    | 50  | 124 | 2.03  |
|      | 1a       |               |                   |             |     |     | 42    | 55    |     |       |     |     |       |
| GE48 | 1        | 7100          | 310               | 525         | 105 | 85  | 15    | 48    | 1.5 | 80.5  | 56  | 138 | 2.85  |
|      | 1a       |               |                   |             |     |     | 48    | 60    |     |       |     |     |       |
| GE55 | 1        | 6300          | 410               | 685         | 120 | 98  | 20    | 55    | 2   | 91    | 65  | 158 | 4.32  |
|      | 1a       |               |                   |             |     |     | 55    | 70    |     |       |     |     |       |
| GE65 | 1        | 5600          | 625               | 940         | 135 | 115 | 22    | 65    | 1.5 | 105.5 | 75  | 182 | 6.66  |
|      | 1a       |               |                   |             |     |     | 22    | 65    |     |       |     |     |       |
| GE75 | 1        | 4750          | 1280              | 1920        | 160 | 135 | 30    | 75    | 1   | 120   | 85  | 206 | 10.48 |
|      | 1a       |               |                   |             |     |     | 30    | 75    |     |       |     |     |       |
| GE90 | 1        | 3750          | 2400              | 3600        | 200 | 160 | 40    | 90    | 1.5 | 139.5 | 100 | 241 | 17.89 |
|      | 1a       |               |                   |             |     | 180 | 40    | 90    |     |       |     |     |       |

Note. Hub Types: 1 = Stepped Hub 1a = Full Hub



# Curved Jaw (Rotex) Couplings



| Type | Hub Type | Max Speed RPM | Rated Torque   |             | Bush Size | Max Bore | D   | D1  | S   | L1    | L2 | L   | Kg   |
|------|----------|---------------|----------------|-------------|-----------|----------|-----|-----|-----|-------|----|-----|------|
|      |          |               | 92 Sh A Yellow | 98 Sh A RED |           |          |     |     |     |       |    |     |      |
| GE28 | F        | 11800         | 95             | 160         | 1108      | 28       | 65  | 64  | 1.5 | 40.5  | 23 | 65  | 0.46 |
|      | H        |               |                |             | 1108      | 28       |     |     |     |       |    |     |      |
| GE38 | F        | 9500          | 190            | 325         | 1108      | 28       | 80  | 78  | 1   | 44    | 23 | 68  | 0.79 |
|      | H        |               |                |             | 1108      | 28       |     |     |     |       |    |     |      |
| GE42 | F        | 8000          | 265            | 450         | 1610      | 42       | 95  | 94  | 1   | 49    | 26 | 76  | 1.1  |
|      | H        |               |                |             | 1610      | 42       |     |     |     |       |    |     |      |
| GE48 | F        | 7100          | 310            | 525         | 1615      | 42       | 105 | 104 | 1.5 | 63.5  | 39 | 104 | 2.07 |
|      | H        |               |                |             | 1615      | 42       |     |     |     |       |    |     |      |
| GE55 | F        | 6300          | 410            | 685         | 2012      | 50       | 120 | 118 | 2   | 59    | 33 | 94  | 2.22 |
|      | H        |               |                |             | 2012      | 50       |     |     |     |       |    |     |      |
| GE65 | F        | 5600          | 625            | 940         | 2012      | 50       | 135 | 133 | 1.5 | 63.5  | 33 | 98  | 3.14 |
|      | H        |               |                |             | 2517      | 65       |     |     |     | 75.5  | 45 | 122 | 4.03 |
| GE75 | F        | 4750          | 1280           | 1920        | 2517      | 65       | 160 | 135 | 1   | 81    | 46 | 128 | 4.69 |
|      | H        |               |                |             | 2517      | 75       |     |     |     | 87    | 52 | 140 | 4.99 |
| GE90 | F        | 3750          | 2400           | 3600        | 3020      | 75       | 200 | 160 | 1.5 | 91.5  | 52 | 145 | 7.74 |
|      | H        |               |                |             | 3525      | 100      |     |     |     | 103.5 | 64 | 169 | 8.74 |

## Power Ratings (KW)

| Yellow (92 Shore) Elements |               |      |      |      |      |      |      |      |      |      |
|----------------------------|---------------|------|------|------|------|------|------|------|------|------|
| Speed (RPM)                | Coupling Size |      |      |      |      |      |      |      |      |      |
|                            | 19            | 24   | 28   | 38   | 42   | 48   | 55   | 65   | 75   | 90   |
| 100                        | 0.1           | 0.37 | 1    | 1.99 | 2.78 | 3.25 | 4.29 | 6.55 | 13.4 | 25.1 |
| 500                        | 0.52          | 1.83 | 4.98 | 9.95 | 13.9 | 16.2 | 21.5 | 32.7 | 67   | 126  |
| 700                        | 0.73          | 2.56 | 6.97 | 13.9 | 19.4 | 22.7 | 30.1 | 45.8 | 93.8 | 176  |
| 720                        | 0.75          | 2.64 | 7.16 | 14.3 | 20   | 23.4 | 30.9 | 47.1 | 96.5 | 181  |
| 800                        | 0.84          | 2.93 | 7.96 | 15.9 | 22.2 | 26   | 34.3 | 52.4 | 107  | 201  |
| 900                        | 0.94          | 3.29 | 8.96 | 17.9 | 25   | 29.2 | 38.6 | 58.9 | 121  | 226  |
| 960                        | 1.01          | 3.51 | 9.55 | 19.1 | 26.6 | 31.2 | 41.2 | 62.8 | 129  | 241  |
| 1000                       | 1.05          | 3.66 | 9.95 | 19.9 | 27.8 | 32.5 | 42.9 | 65.5 | 134  | 251  |
| 1200                       | 1.26          | 4.39 | 11.9 | 23.9 | 33.3 | 39   | 51.5 | 78.5 | 161  | 302  |
| 1400                       | 1.47          | 5.12 | 13.9 | 27.9 | 38.9 | 45.4 | 60.1 | 91.6 | 188  | 352  |
| 1440                       | 1.51          | 5.27 | 14.3 | 28.7 | 40   | 46.7 | 61.8 | 94.2 | 193  | 362  |
| 1500                       | 1.57          | 5.49 | 14.9 | 29.9 | 41.6 | 48.7 | 64.4 | 98.2 | 201  | 377  |
| 1800                       | 1.88          | 6.59 | 17.9 | 35.8 | 50   | 58.4 | 77.3 | 118  | 241  | 452  |
| 2000                       | 2.09          | 7.32 | 19.9 | 39.8 | 55.5 | 64.9 | 85.9 | 131  | 268  | 503  |
| 2880                       | 3.02          | 10.5 | 28.7 | 57.3 | 79.9 | 93.5 | 124  | 188  | 386  | 724  |
| 3000                       | 3.14          | 11   | 29.9 | 59.7 | 83.3 | 97.4 | 129  | 196  | 402  | 754  |
| 4000                       | 4.19          | 14.6 | 39.8 | 79.6 | 111  | 130  | 172  | 262  | 536  | -    |

| Red (98 Shore) Elements |               |      |      |      |       |       |       |       |       |        |
|-------------------------|---------------|------|------|------|-------|-------|-------|-------|-------|--------|
| Speed (RPM)             | Coupling Size |      |      |      |       |       |       |       |       |        |
|                         | 19            | 24   | 28   | 38   | 42    | 48    | 55    | 65    | 75    | 90     |
| 100                     | 0.018         | 0.63 | 1.68 | 3.4  | 4.71  | 5.5   | 7.17  | 9.84  | 20.1  | 37.7   |
| 500                     | 0.89          | 3.14 | 8.38 | 17   | 23.6  | 27.5  | 35.9  | 49.2  | 101   | 189    |
| 700                     | 1.25          | 4.4  | 11.7 | 23.8 | 33    | 38.5  | 50.2  | 68.9  | 141   | 264    |
| 720                     | 1.28          | 4.52 | 12.1 | 24.5 | 33.9  | 39.6  | 51.6  | 70.9  | 145   | 271    |
| 800                     | 1.42          | 5.02 | 13.4 | 27.2 | 37.7  | 44    | 57.4  | 78.7  | 161   | 302    |
| 900                     | 1.6           | 5.65 | 15.1 | 30.6 | 42.4  | 49.5  | 64.6  | 88.6  | 181   | 339    |
| 960                     | 1.71          | 6.03 | 16.1 | 32.7 | 45.2  | 52.8  | 68.9  | 94.5  | 193   | 362    |
| 1000                    | 1.78          | 6.28 | 16.8 | 34   | 47.1  | 55    | 71.7  | 98.4  | 201   | 377    |
| 1200                    | 2.14          | 7.54 | 20.1 | 40.8 | 56.5  | 66    | 86.1  | 118   | 241   | 452    |
| 1400                    | 2.49          | 8.79 | 23.5 | 47.6 | 66    | 77    | 100   | 138   | 281   | 528    |
| 1440                    | 2.56          | 9.04 | 24.1 | 49   | 67.9  | 79.2  | 103   | 142   | 290   | 543    |
| 2880                    | 5.2           | 18.1 | 48.4 | 97.9 | 135.7 | 158.4 | 206.5 | 283.4 | 578.9 | 1085.8 |

Finer stocks a range of pilot bore Curved Tooth Gear Couplings. The Curved Tooth Gear Coupling consists of 2 geared hubs and a curved tooth nylon sleeve.

**Product Characteristics:**

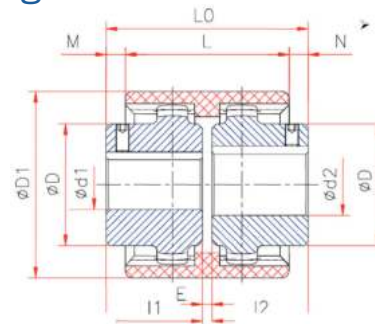
- Double Section type curved-tooth gear coupling
- Widely applicable in various mechanical & hydraulic fields
- Nylon & steel matched, maintenance free
- Able to offset axial, radial & angular misalignments
- Axial plugging assembly, very convenient

**Nylon Toothed Sleeve Characteristics:**

- Excellent Mechanical Performance
- High rigidity
- High temperature resistance (+100 ° C)
- Not embrittled at low temperature
- Good slippery & frictional behaviour
- Excellent electrical insulation behaviour
- Chemical corrosion endurable
- High Accuracy of processing



## RGF Coupling



| Size   | Max Bore (mm) | Dimensions (mm) |     |    |      |   |     |    | Torque Rating (Nm) | Weight (Kg)  |          |
|--------|---------------|-----------------|-----|----|------|---|-----|----|--------------------|--------------|----------|
|        |               | I1<br>I2        | LO  | L  | M, N | E | D1  | D  |                    | Nylon Sleeve | Hub Half |
| RGF-19 | 19            | 25              | 54  | 37 | 8.5  | 4 | 48  | 30 | 16                 | 0.03         | 0.21     |
| RGF-24 | 24            | 26              | 56  | 41 | 7.5  | 4 | 52  | 36 | 20                 | 0.04         | 0.25     |
| RGF-28 | 28            | 40              | 84  | 46 | 19   | 4 | 66  | 28 | 45                 | 0.07         | 0.62     |
| RGF-32 | 32            | 40              | 84  | 48 | 18   | 4 | 76  | 50 | 60                 | 0.09         | 0.83     |
| RGF-38 | 38            | 40              | 84  | 48 | 18   | 4 | 83  | 58 | 80                 | 0.11         | 1.04     |
| RGF-42 | 42            | 42              | 88  | 50 | 19   | 4 | 92  | 65 | 100                | 0.14         | 1.41     |
| RGF-48 | 48            | 50              | 104 | 50 | 27   | 4 | 95  | 67 | 140                | 0.16         | 1.43     |
| RGF-55 | 55            | 52              | 108 | 58 | 25   | 4 | 114 | 82 | 240                | 0.26         | 2.50     |
| RGF-65 | 65            | 55              | 114 | 65 | 23   | 4 | 132 | 95 | 380                | 0.39         | 3.58     |

**Ordering Curved Tooth Gear Couplings:**

RGF-XX-1 = Curved tooth gear hub half

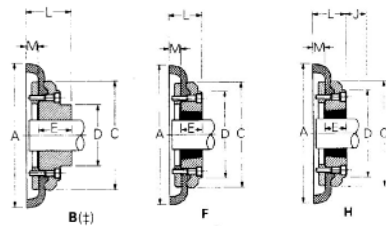
RGF-XX-2 = Curved tooth nylon gear sleeve

Finer stock a range of the highly flexible Tyre Couplings. Consisting of two flanges, the two halves are joined by a rubber tyre. The tyre itself is torsionally soft and flexible; this allows the Tyre Coupling to compensate for large amounts of shock loading and backlash, as well as both parallel and axial misalignment. Finer also stocks selected sizes in the Fire Resistant Anti-Static (FRAS) compound for those certain sensitive environments.

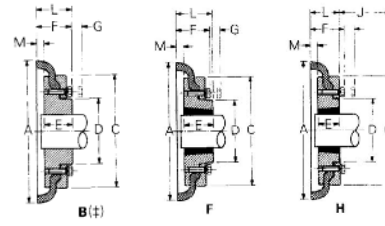
### Highly Flexible

Compensates for misalignment, up to; 4° angular, 6mm parallel, 8mm axial.  
Torsional flexibility of up to 12°, at max. torque.

SIZES F40 - 60



SIZES F70 - 250



| Size | Power @ 100 rpm in Kw | Nominal Torque | Max. Speed rpm | Bore B |      | Bush Size |        | Max. Misalignment |         | End Float (mm) |
|------|-----------------------|----------------|----------------|--------|------|-----------|--------|-------------------|---------|----------------|
|      |                       |                |                | Max.   | Min. | Bush F    | Bush H | Parallel          | Angular |                |
| F40  | 0.26                  | 25             | 4500           | 25     | 10   | 1008      | 1008   | 1.1               | 4       | 1.3            |
| F50  | 0.69                  | 66             | 4500           | 32     | 11   | 1210      | 1210   | 1.3               | 4       | 1.7            |
| F60  | 1.33                  | 127            | 4000           | 42     | 14   | 1610      | 1610   | 1.6               | 4       | 2              |
| F70  | 2.62                  | 250            | 3600           | 50     | 14   | 2012      | 1610   | 1.9               | 4       | 2.3            |
| F80  | 3.93                  | 375            | 3100           | 65     | 14   | 2517      | 2012   | 2.1               | 4       | 2.6            |
| F90  | 5.24                  | 500            | 3000           | 65     | 16   | 2517      | 2517   | 2.4               | 4       | 3              |
| F100 | 7.07                  | 675            | 2600           | 75     | 16   | 3020      | 2517   | 2.6               | 4       | 3.3            |
| F110 | 9.20                  | 875            | 2300           | 75     | 24   | 3020      | 3020   | 2.9               | 4       | 3.7            |
| F120 | 13.9                  | 1300           | 2050           | 100    | 24   | 3525      | 3020   | 3.2               | 4       | 4              |
| F140 | 24.3                  | 2320           | 1800           | 100    | 35   | 3525      | 3525   | 3.7               | 4       | 4.6            |
| F160 | 39.4                  | 3770           | 1600           | 115    | 40   | 4030      | 4030   | 4.2               | 4       | 5.3            |
| F180 | 65.7                  | 6270           | 1500           | 125    | 55   | 4535      | 4535   | 4.8               | 4       | 6              |
| F200 | 97.6                  | 9325           | 1300           | 125    | 55   | 4535      | 4535   | 5.8               | 4       | 6.6            |
| F220 | 121.0                 | 11600          | 1100           | 125    | 55   | 5040      | 5040   | 5.8               | 4       | 7.3            |

| Size | A   | C   | D   | E   |    |    | F   | L     |       |      | G   | J  | M    | Kg   |      |
|------|-----|-----|-----|-----|----|----|-----|-------|-------|------|-----|----|------|------|------|
|      |     |     |     | B   | F  | H  |     | B     | F     | H    |     |    |      | F    | H    |
| F40  | 104 | 82  | -   | 22  | 22 | 22 | -   | 33    | 33.5  | 33.5 | N/A | 29 | 11   | 0.8  | 0.8  |
| F50  | 133 | 100 | 79  | 32  | 25 | 25 | -   | 45    | 38    | 38   | N/A | 38 | 12.5 | 1.2  | 1.2  |
| F60  | 165 | 125 | 103 | 38  | 25 | 25 | -   | 55    | 42    | 42   | N/A | 36 | 16.5 | 2.0  | 2.0  |
| F70  | 187 | 144 | 80  | 30  | 32 | 25 | 50  | 47    | 44    | 42   | 13  | 36 | 11.5 | 3.1  | 3.0  |
| F80  | 211 | 167 | 98  | 42  | 45 | 32 | 54  | 55    | 58    | 45   | 16  | 42 | 12.5 | 4.9  | 4.6  |
| F90  | 235 | 188 | 108 | 49  | 45 | 45 | 60  | 63.5  | 59    | 59   | 16  | 48 | 13.5 | 7.0  | 7.0  |
| F100 | 254 | 216 | 120 | 56  | 51 | 45 | 62  | 70.5  | 65    | 59   | 16  | 48 | 13.5 | 9.9  | 9.4  |
| F110 | 279 | 233 | 134 | 68  | 51 | 51 | 62  | 75.5  | 63.5  | 63.5 | 16  | 55 | 12.5 | 11.7 | 11.7 |
| F120 | 314 | 264 | 140 | 70  | 65 | 51 | 67  | 84.5  | 78.5  | 65.5 | 16  | 67 | 14.5 | 16.5 | 16.9 |
| F140 | 359 | 311 | 178 | 94  | 65 | 65 | 73  | 110.5 | 81    | 81   | 14  | 67 | 16   | 22.3 | 22.3 |
| F160 | 402 | 345 | 197 | 102 | 77 | 77 | 78  | 117   | 92    | 92   | 16  | 80 | 15   | 32.5 | 32.5 |
| F180 | 470 | 398 | 205 | 114 | 90 | 90 | 94  | 137   | 112   | 112  | 19  | 89 | 23   | 42.2 | 42.2 |
| F200 | 562 | 474 | 223 | 114 | 20 | 20 | 118 | 138   | 118   | 118  | 20  | 92 | 27.5 | 72.0 | 72.0 |
| F220 | 474 | 223 | 118 | 127 | 20 | 20 | 118 | 154.5 | 129.5 | 102  | 20  | 92 | 27.5 | 72.0 | 72.0 |

J is the clearance required for tightening and loosening the bush on the shaft  
G is the distance required to release the clamping screws

## Power Ratings (KW)

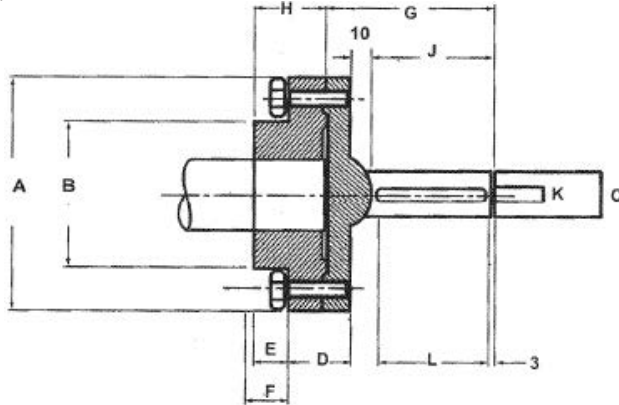
| Speed rev/min | Coupling Size |        |      |        |      |       |      |      |      |      |      |      |      |      |
|---------------|---------------|--------|------|--------|------|-------|------|------|------|------|------|------|------|------|
|               | F40           | F50    | F60  | F70    | F80  | F90   | F100 | F110 | F120 | F140 | F160 | F180 | F200 | F220 |
| 100           | 0.25          | 0.69   | 1.33 | 2.62   | 3.93 | 5.24  | 7.07 | 9.16 | 13.9 | 24.3 | 39.5 | 65.7 | 96.7 | 121  |
| 200           | 0.5           | 1.38   | 2.66 | 5.24   | 7.85 | 10.5  | 14.1 | 18.3 | 27.9 | 48.7 | 79   | 131  | 195  | 243  |
| 300           | 0.75          | 2.07   | 3.99 | 7.85   | 11.8 | 15.7  | 21.2 | 27.5 | 41.8 | 73   | 118  | 197  | 293  | 364  |
| 400           | 1.01          | 2.76   | 5.32 | 10.5   | 15.7 | 20.9  | 28.3 | 36.6 | 55.7 | 97.4 | 158  | 263  | 391  | 486  |
| 500           | 1.26          | 3.46   | 6.65 | 13.1   | 19.6 | 26.2  | 35.3 | 45.8 | 69.6 | 122  | 197  | 328  | 488  | 607  |
| 600           | 1.51          | 4.15   | 7.98 | 15.7   | 23.6 | 31.4  | 42.4 | 55   | 83.6 | 146  | 237  | 394  | 586  | 729  |
| 700           | 1.76          | 4.84   | 9.31 | 18.3   | 27.5 | 36.6  | 49.5 | 64.1 | 97.5 | 170  | 276  | 460  | 684  | 850  |
| 720           | 1.81          | 4.98   | 9.57 | 18.8   | 28.3 | 37.7  | 50.9 | 66   | 100  | 175  | 284  | 473  | 703  | 875  |
| 800           | 2.01          | 5.53   | 10.6 | 20.9   | 31.4 | 41.9  | 56.5 | 73.3 | 111  | 195  | 316  | 525  | 781  | 972  |
| 900           | 2.26          | 6.22   | 12   | 23.6   | 35.3 | 47.1  | 63.6 | 82.5 | 125  | 219  | 355  | 591  | 879  | 1093 |
| 960           | 2.41          | 6.63   | 12.8 | 25.1   | 37.7 | 50.3  | 67.9 | 88   | 134  | 234  | 379  | 630  | 937  | 1166 |
| 1000          | 2.51          | 6.91   | 13.3 | 26.2   | 39.3 | 52.4  | 70.7 | 91.6 | 139  | 243  | 395  | 657  | 976  | 1215 |
| 1200          | 3.02          | 8.29   | 16   | 31.4   | 47.1 | 62.8  | 84.8 | 110  | 167  | 292  | 474  | 788  | 1172 | -    |
| 1400          | 3.52          | 9.68   | 18.6 | 36.6   | 55   | 73.3  | 99   | 128  | 195  | 341  | 553  | 919  | -    | -    |
| 1440          | 3.62          | 9.95   | 19.1 | 37.7   | 56.5 | 75.4  | 102  | 132  | 201  | 351  | 568  | 945  | -    | -    |
| 1600          | 4.02          | 11.101 | 21.3 | 41.9   | 62.8 | 83.8  | 113  | 147  | 223  | 390  | 632  | -    | -    | -    |
| 1800          | 4.52          | 12.401 | 23.9 | 47.1   | 70.7 | 94.2  | 127  | 165  | 251  | 438  | -    | -    | -    | -    |
| 2000          | 5.03          | 13.801 | 26.6 | 52.4   | 78.5 | 105.5 | 141  | 183  | 279  | -    | -    | -    | -    | -    |
| 2200          | 5.53          | 15.201 | 29.3 | 57.601 | 86.4 | 115   | 155  | 202  | -    | -    | -    | -    | -    | -    |
| 2400          | 6.03          | 16.601 | 31.9 | 62.8   | 94.2 | 126   | 170  | -    | -    | -    | -    | -    | -    | -    |
| 2600          | 6.53          | 18.001 | 34.6 | 68.1   | 102  | 136   | 184  | -    | -    | -    | -    | -    | -    | -    |
| 2800          | 7.04          | 19.401 | 37.2 | 73.3   | 110  | 147   | -    | -    | -    | -    | -    | -    | -    | -    |
| 2880          | 7.24          | 19.901 | 38.3 | 75.4   | 113  | 151   | -    | -    | -    | -    | -    | -    | -    | -    |
| 3000          | 7.54          | 20.701 | 39.9 | 78.5   | 118  | 157   | -    | -    | -    | -    | -    | -    | -    | -    |
| 3600          | 9.05          | 24.901 | 47.9 | 94.2   | -    | -     | -    | -    | -    | -    | -    | -    | -    | -    |

## Physical Characteristics

| Characteristics          | Coupling Size |       |       |       |       |       |       |       |       |       |       |        |        |        |
|--------------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
|                          | F40           | F50   | F60   | F70   | F80   | F90   | F100  | F110  | F120  | F140  | F160  | F180   | F200   | F220   |
| Maximum speed rev/min    | 4,500         | 4,500 | 4,000 | 3,600 | 3,100 | 3,000 | 2,600 | 2,300 | 2,050 | 1,800 | 1,600 | 1,500  | 1,300  | 1,100  |
| Nominal Torque Nm TK N   | 24            | 66    | 127   | 250   | 375   | 500   | 675   | 875   | 1,330 | 2,325 | 3,770 | 6,270  | 9,325  | 11,600 |
| Maximum Torque Nm TK MAX | 64            | 160   | 318   | 487   | 759   | 1,096 | 1,517 | 2,137 | 3,547 | 5,642 | 9,339 | 16,455 | 23,508 | 33,125 |

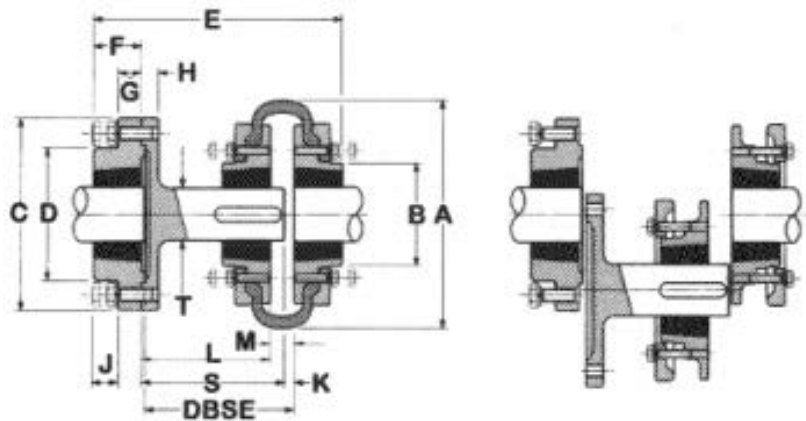
|                                    |     |     |     |     |     |     |     |     |     |     |       |       |       |       |
|------------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|-------|-------|-------|
| Torsional Stiffness Nm/O           | 5   | 13  | 26  | 41  | 63  | 91  | 126 | 178 | 296 | 470 | 778   | 1,371 | 1,959 | 2,760 |
| Max. parallel misalignment mm      | 1.1 | 1.3 | 1.6 | 1.9 | 2.1 | 2.4 | 2.6 | 2.9 | 3.2 | 3.7 | 4.2   | 4.8   | 5.3   | 5.8   |
| Maximum end float mm ±             | 1.3 | 1.7 | 2   | 2.3 | 2.6 | 3   | 3.3 | 3.7 | 4   | 4.6 | 5.3   | 6     | 6.6   | 7.3   |
| Approximate mass. kg               | 0.1 | 0.3 | 0.5 | 0.7 | 1   | 1.1 | 1.1 | 1.4 | 2.3 | 2.6 | 3.4   | 7.7   | 8.0   | 10.0  |
| Alternating Torque ± Nm @ 10Hz TKW | 11  | 26  | 53  | 81  | 127 | 183 | 252 | 356 | 591 | 940 | 1,556 | 2,742 | 3,918 | 5,521 |
| Resonance Factor V R               | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7   | 7     | 7     | 7     | 7     |
| Damping Coefficient                | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9 | 0.9   | 0.9   | 0.9   | 0.9   |

The Spacer Coupling is used to extend the distance of a shaft. Designed in conjunction with the Tyre Coupling specifications, it can be used in combination with other couplings in the Finer Power Transmission range. As the Spacer Coupling is Taper Locked, a large range of shaft sizes can be easily accommodated.



## Spacer Coupling

| Size      | Bush | A   | B   | C  | D  | E    | F  | G   | H    | J   | K  | L  | Kg    |
|-----------|------|-----|-----|----|----|------|----|-----|------|-----|----|----|-------|
| FSM16-140 | 1615 | 127 | 80  | 32 | 33 | 20   | 25 | 131 | 41   | 109 | 10 | 65 | 4.0   |
| FSM25-140 | 2517 | 178 | 127 | 48 | 38 | 23   | 27 | 131 | 48   | 108 | 14 | 72 | 8.9   |
| FSM25-180 | 2517 | 178 | 127 | 48 | 38 | 23   | 27 | 171 | 48   | 148 | 14 | 78 | 9.1   |
| FSM30-180 | 3030 | 216 | 146 | 60 | 49 | 47   | 34 | 171 | 79   | 144 | 18 | 80 | 18.70 |
| FSM35-180 | 3525 | 248 | 178 | 80 | 86 | 29.5 | -  | 174 | 66.5 | 154 | -  | -  | -     |



## Spacer Coupling with Tyre Coupling

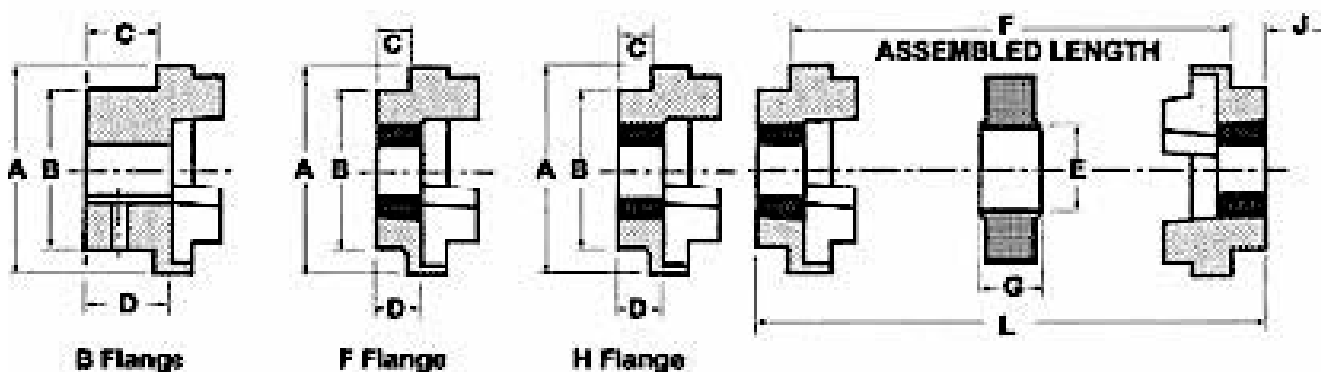
| Size      | Tyre Couple | Spacer Distance | Spacer Bush | Tyre Bush | A   | B   | C   | D   | E   | F  | G  | H  | J  | K | L   | M  | S   | T  |
|-----------|-------------|-----------------|-------------|-----------|-----|-----|-----|-----|-----|----|----|----|----|---|-----|----|-----|----|
| FSM16-140 | T40         | 140             | 1615        | 1008      | 104 | 82  | 127 | 80  | 200 | 38 | 18 | 15 | 14 | 9 | 126 | 22 | 94  | 32 |
|           | T50         |                 |             | 1210      | 133 | 79  |     |     | 213 |    |    |    |    |   | 125 | 25 | 134 |    |
|           | T60         |                 |             | 1610      | 165 | 70  |     |     | 214 |    |    |    |    |   | 118 | 27 | 134 |    |
| FSM25-140 | T80         | 140             | 2517        | 2517      | 211 | 95  | 178 | 123 | 233 | 45 | 22 | 16 | 14 | 9 | 116 | 25 | 134 | 48 |
|           | T90         |                 |             | 2517      | 235 | 108 |     |     | 233 |    |    |    |    |   | 116 | 27 | 134 |    |
| FSM25-180 | T80         | 180             | 2517        | 2517      | 211 | 95  | 178 | 123 | 273 | 45 | 22 | 16 | 14 | 9 | 158 | 25 | 174 | 48 |
|           | T90         |                 |             | 2517      | 235 | 108 |     |     | 273 |    |    |    |    |   | 156 | 27 | 174 |    |
| FSM30-180 | T100        | 180             | 3030        | 3020      | 254 | 120 | 216 | 146 | 310 | 76 | 29 | 20 | 17 | 9 | 156 | 25 | 174 | 60 |
|           | T110        |                 |             | 3020      | 279 | 134 |     |     | 310 |    |    |    |    |   | 158 | 27 | 174 |    |
| FSM35-180 | T120        | 180             | 3525        | 3525      | 314 | 140 | 248 | 178 | 312 | 63 | 34 | 20 | 17 | 9 | 154 | 29 | 174 | 80 |
|           | T140        |                 |             | 3525      | 359 | 178 |     |     | 312 |    |    |    |    |   | 151 | 32 | 174 |    |

The HRC Coupling is a proven performer, consisting of two cast iron flanges and a rubber element, which performs under compression.

The modular design allows for a simple fitting and easy maintenance whilst the rubber element absorbs shock loading. Finer stocks Nitrile Rubber and Poly-Urethane Elements to suit all stocked sizes. Finer Power Transmissions carries a full range of HRC Couplings in Pilot Bore and Taper Lock.



| Coupling | A   | B   | E   | F     | G    | Bush | Max. Bore |       | C    | D     | J  | Bore Dia |             | Set Screw Size | H  | I     |
|----------|-----|-----|-----|-------|------|------|-----------|-------|------|-------|----|----------|-------------|----------------|----|-------|
|          |     |     |     |       |      |      | mm        | inch  |      |       |    | max      | Piolet Hole |                |    |       |
| 70       | 69  | 60  | 31  | 25    | 18   | 1008 | 25        | 1     | 20   | 23.75 | 29 | 32       | 8           | M6             | 20 | 23.4  |
| 90       | 85  | 70  | 32  | 30.5  | 22.5 | 1108 | 28        | 1 1/8 | 19.5 | 23.25 | 29 | 42       | 10          | M6             | 26 | 30    |
| 110      | 112 | 100 | 45  | 45    | 29   | 1610 | 32        | 1 1/4 | 18.5 | 26.75 | 38 | 55       | 10          | M10            | 37 | 45    |
| 130      | 130 | 105 | 50  | 53    | 36   | 1610 | 42        | 1 5/8 | 18   | 26.5  | 38 | 60       | 15          | M10            | 39 | 47.5  |
| 150      | 150 | 115 | 62  | 60    | 40   | 2012 | 50        | 2     | 23.5 | 33.5  | 42 | 70       | 20          | M10            | 46 | 56    |
| 180      | 180 | 125 | 77  | 73    | 49   | 2517 | 60        | 2 1/2 | 34.5 | 46.5  | 48 | 80       | 25          | M10            | 58 | 70    |
| 230      | 225 | 155 | 99  | 85.5  | 59.5 | 3020 | 75        | 3     | 39.5 | 52.5  | 55 | 100      | 25          | M12            | 77 | 90    |
| 280      | 275 | 185 | 119 | 105.5 | 74.5 | 3525 | 90        | 3 1/2 | 74   | 90    | 67 | 115      | 30          | M16            | 90 | 105.5 |



| Coupling | Assembled Length (L)<br>FF,FH,HH | Assembled Length (L) BB | Weight Kg | Inertia Mr2 kgm | Dynamic Stiffness Nm/° | Maximum Misalignment |       | Nominal Torque Nm |
|----------|----------------------------------|-------------------------|-----------|-----------------|------------------------|----------------------|-------|-------------------|
|          |                                  |                         |           |                 |                        | Parallel             | Axial |                   |
| 70       | 65                               | 65                      | 1         | 0.00085         | -                      | 0.3                  | 0.2   | 31                |
| 90       | 69.5                             | 82.5                    | 1.17      | 0.00115         | -                      | 0.3                  | 0.5   | 80                |
| 110      | 82                               | 119                     | 5         | 0.004           | 65                     | 0.3                  | 0.6   | 160               |
| 130      | 89                               | 131                     | 5.46      | 0.0078          | 130                    | 0.4                  | 0.8   | 315               |
| 150      | 107                              | 152                     | 7.11      | 0.0181          | 175                    | 0.4                  | 0.9   | 600               |
| 180      | 142                              | 189                     | 16.6      | 0.0434          | 229                    | 0.4                  | 1.1   | 950               |
| 230      | 164.5                            | 239.5                   | 26        | 0.12068         | 587                    | 0.5                  | 1.3   | 2000              |
| 280      | 207.5                            | 285.5                   | 55.3      | 0.44653         | 1025                   | 0.5                  | 1.7   | 3150              |

## Service Factors

| SPECIAL CASES<br>For applications where substantial shock, vibration and torque fluctuation occur, and for reciprocating machines e.g. internal combustion engines, piston type pumps and compressors, refer to your local Authorised Distributor with full machine details for torsional analysis. | Type of Driving Unit              |                        |         | Type of Driving Unit   |                        |         |
|---|-----------------------------------|------------------------|---------|--|------------------------|---------|
|   | Electric Motors<br>Steam Turbines |                        |         | Internal Combustion Engines<br>Steam Engines<br>Water Turbines |                        |         |
|   | Hours per day duty                |                        |         | Hours per day duty   |                        |         |
| Driven Machine Class  | 8 and under                       | Over 8 to 16 inclusive | Over 16 | 8 and under  | Over 8 to 16 inclusive | Over 16 |
| UNIFORM<br>Agitators, Brewing machinery, Centrifugal blowers, Centrifugal compressors, Conveyors, Centrifugal fans and pumps, Generators, Sewage disposal equipment.  | 1                                 | 1.12                   | 1.25    | 1.25   | 1.4                    | 1.6     |
| MODERATE SHOCK*<br>Clay working machinery, Crane hoists, Laundry machinery, Wood working machinery, Machine tools, Rotary mills, Paper mill machinery, Textile machinery, Non-uniformly loaded centrifugal pumps.   | 1.6                               | 1.8                    | 2       | 2  | 2.24                   | 2.5     |
| HEAVY SHOCK*<br>Reciprocating conveyors, Crushers, Shakers, Metal mills, Rubber machinery (Banbury, mowers and mills), Reciprocating compressors, Welding sets.   | 2.5                               | 2.8                    | 3.12    | 3.12   | 3.55                   | 4       |

## Power Ratings (KW)

| Speed rev/min. | Coupling Sizes |      |      |      |      |      |      |     |
|----------------|----------------|------|------|------|------|------|------|-----|
|                | 70             | 90   | 110  | 130  | 150  | 180  | 230  | 280 |
| 100            | 0.33           | 0.84 | 1.68 | 3.3  | 6.28 | 9.95 | 20.9 | 33  |
| 200            | 0.66           | 1.68 | 3.35 | 6.6  | 12.6 | 19.9 | 41.9 | 65  |
| 400            | 1.32           | 3.35 | 6.7  | 13.2 | 25.1 | 39.8 | 83.8 | 132 |
| 600            | 1.98           | 5.03 | 10.1 | 19.8 | 37.7 | 59.7 | 126  | 198 |
| 720            | 2.37           | 6.03 | 12.1 | 23.8 | 45.2 | 71.6 | 151  | 238 |
| 800            | 2.64           | 6.7  | 13.4 | 26.4 | 50.3 | 79.6 | 168  | 264 |
| 960            | 3.17           | 8.04 | 16.1 | 31.7 | 60.3 | 95.5 | 201  | 317 |
| 1200           | 3.96           | 10.1 | 20.1 | 39.6 | 75.4 | 119  | 251  | 396 |
| 1440           | 4.75           | 12.1 | 24.1 | 47.5 | 90.5 | 143  | 302  | 475 |
| 1600           | 5.28           | 13.4 | 26.8 | 52.8 | 101  | 159  | 335  | 528 |
| 1800           | 5.94           | 15.1 | 30.2 | 59.4 | 113  | 179  | 377  | 594 |
| 2000           | 6.6            | 16.8 | 33.5 | 66   | 126  | 199  | 419  | 660 |
| 2200           | 7.26           | 18.4 | 36.9 | 72.6 | 138  | 219  | 461  | 726 |
| 2400           | 7.92           | 20.1 | 40.2 | 79.2 | 151  | 239  | 503  | -   |
| 2600           | 8.58           | 21.8 | 43.6 | 85.8 | 163  | 259  | 545  | -   |
| 2880           | 9.5            | 24.1 | 48.3 | 95   | 181  | 286  | -    | -   |
| 3000           | 9.9            | 25.1 | 50.3 | 99   | 188  | 298  | -    | -   |
| 3600           | 11.9           | 30.1 | 60.3 | 118  | 226  | -    | -    | -   |

For speeds below 100 rev/min, and intermediate speeds, use nominal torque ratings.

\* Maximum coupling speeds are calculated using an allowable peripheral speed for the hub material.

For selection of smaller sizes with speeds in excess of 3600 rev/min – Consult your local Authorised Distributor.



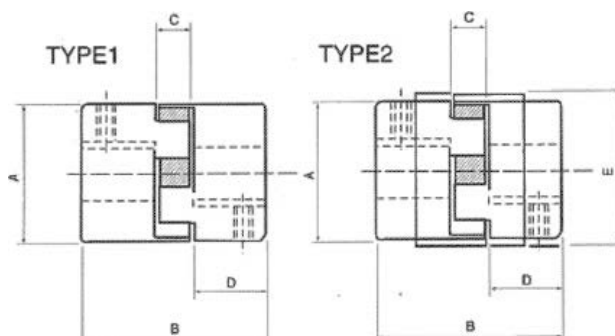
The Finer Jaw Coupling is recognised across a large range of industries. The Jaw Coupling is highly resilient, it does not require any lubrication and can work in environments contaminated with oil, dirt, sand, moisture and grease.

The rubber insert is designed to absorb shock loading and does not allow for any metal on metal contact. Finer Power Transmissions stocks both the Spider Elements (rubber & poly-urethane) as well as the Wrap Element Kits.

Finer Power Transmissions stocks a range of jaw couplings in a variety of pre-bored and keyed sizes.



|                 | L050 | L070 | L075 | L095 | L100 | L110 | L150 | L190 | L225 | L276 |
|-----------------|------|------|------|------|------|------|------|------|------|------|
| Spider          | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |
| Wrap            |      |      |      | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      |
| Kit             |      |      |      | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      |
| Pilot Bore Hub  | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |
| Hytrek Spider   | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |
| PU Spider       | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |
| Imperial (inch) |      |      |      |      |      |      |      |      |      |      |
| 3/8             | ✓    | ✓    |      |      |      |      |      |      |      |      |
| 7/16            |      |      |      | ✓    |      |      |      |      |      |      |
| 1/2             | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |      |      |      |
| 9/16            |      |      |      | ✓    |      |      |      |      |      |      |
| 5/8             | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |      |      |      |
| 3/4             |      | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |      |      |
| 7/8             |      |      | ✓    | ✓    | ✓    | ✓    |      |      |      |      |
| 1               |      |      | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |      |
| 1-1/8           |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |      |
| 1-1/4           |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |
| 1-3/8           |      |      |      |      |      | ✓    | ✓    | ✓    |      |      |
| 1-1/2           |      |      |      |      |      | ✓    | ✓    | ✓    |      |      |
| 1-5/8           |      |      |      |      |      |      |      | ✓    |      |      |
| 2               |      |      |      |      |      |      |      | ✓    |      |      |
| Metric (mm)     |      |      |      |      |      |      |      |      |      |      |
| 9               | ✓    |      |      |      |      |      |      |      |      |      |
| 10              | ✓    | ✓    |      |      |      |      |      |      |      |      |
| 11              | ✓    | ✓    |      |      |      |      |      |      |      |      |
| 12              | ✓    | ✓    | ✓    |      |      |      |      |      |      |      |
| 14              | ✓    | ✓    | ✓    | ✓    |      |      |      |      |      |      |
| 15              |      |      | ✓    |      |      |      |      |      |      |      |
| 16              |      | ✓    | ✓    | ✓    |      |      |      |      |      |      |
| 18              |      | ✓    | ✓    | ✓    | ✓    |      |      |      |      |      |
| 19              |      | ✓    | ✓    | ✓    | ✓    |      |      |      |      |      |
| 20              |      |      | ✓    | ✓    | ✓    | ✓    |      |      |      |      |
| 22              |      |      | ✓    | ✓    | ✓    | ✓    |      |      |      |      |
| 24              |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |      |
| 25              |      |      |      | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |
| 28              |      |      |      | ✓    | ✓    | ✓    | ✓    | ✓    |      |      |
| 30              |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |
| 32              |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |
| 35              |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |
| 38              |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |      |
| 40              |      |      |      |      |      | ✓    | ✓    | ✓    |      |      |
| 42              |      |      |      |      |      | ✓    | ✓    | ✓    | ✓    |      |
| 45              |      |      |      |      |      |      | ✓    | ✓    |      |      |
| 48              |      |      |      |      |      |      | ✓    | ✓    |      |      |
| 50              |      |      |      |      |      |      |      | ✓    |      |      |
| 55              |      |      |      |      |      |      |      | ✓    | ✓    |      |
| 60              |      |      |      |      |      |      |      | ✓    | ✓    |      |

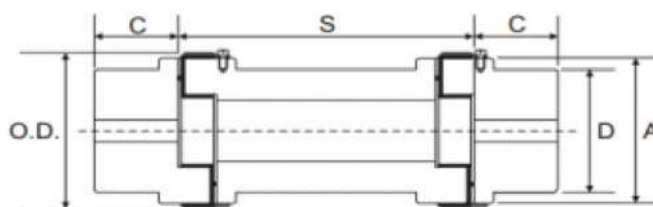


| Coupling | Type | A    | B    | C    | D    | Stock Bore | Weight (kg) |           | Max Bore (mm) |
|----------|------|------|------|------|------|------------|-------------|-----------|---------------|
|          |      |      |      |      |      |            | Stock Bore  | Max. Bore |               |
| L050PB   | 1    | 27.4 | 43.4 | 12.2 | 15.7 | 6          | -           | -         | 15            |
| L070PB   | 1    | 35   | 53   | 13   | 19   | 6          | 0.26        | 0.24      | 19            |
| L075PB   | 1    | 44.5 | 53   | 13   | 21   | 6          | 0.45        | 0.39      | 22            |
| L095PB   | 1    | 54   | 65   | 13   | 25   | 11         | 0.79        | 0.69      | 29            |
| L100PB   | 1    | 65   | 86   | 19   | 35   | 11         | 1.55        | 1.32      | 35            |
| L110PB   | 1    | 84   | 110  | 24   | 43   | 16         | 2.93        | 2.55      | 42            |
| L150PB   | 1    | 96   | 113  | 25   | 45   | 16         | 4.06        | 3.51      | 48            |
| L190PB   | 1    | 115  | 133  | 25   | 50   | 18         | -           | -         | 55            |
| L225PB   | 1    | 127  | 155  | 25   | 55   | 18         | -           | -         | 65            |

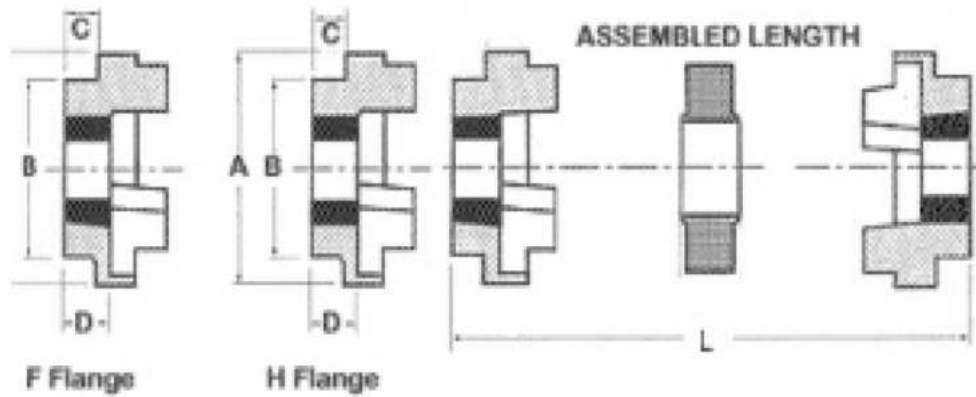
### Power Ratings (KW)

| Coupling | Max. RPM | Torque (Nm) | Speed RPM |       |       |       |       |       |
|----------|----------|-------------|-----------|-------|-------|-------|-------|-------|
|          |          |             | 100       | 720   | 960   | 1440  | 2880  | 3600  |
| L050PB   | 18000    | 3.51        | 0.037     | 0.26  | 0.35  | 0.53  | 1.73  | 2.17  |
| L070PB   | 14000    | 5.77        | 0.06      | 0.43  | 0.58  | 0.87  | 3.61  | 4.51  |
| L075PB   | 11000    | 11.9        | 0.12      | 0.9   | 1.2   | 1.8   | 5.78  | 7.22  |
| L095PB   | 9000     | 25.8        | 0.27      | 1.95  | 2.59  | 3.89  | 16.73 | 20.91 |
| L100PB   | 7000     | 55.4        | 0.58      | 4.18  | 5.58  | 8.36  | 31.77 | 39.71 |
| L110PB   | 5000     | 105         | 1.10      | 7.94  | 10.59 | 15.88 | 44.93 | 56.16 |
| L150PB   | 4000     | 150         | 1.56      | 11.23 | 14.98 | 22.46 | 60.28 | 75.35 |
| L190PB   | 3600     | 200         | 2.09      | 15.07 | 20.09 | 30.14 | 84.4  | 105.5 |
| L225PB   | 3600     | 280         | 2.93      | 21.09 | 28.13 | 42.2  | 84.4  | 105.5 |

### Jaw Coupling Spacer

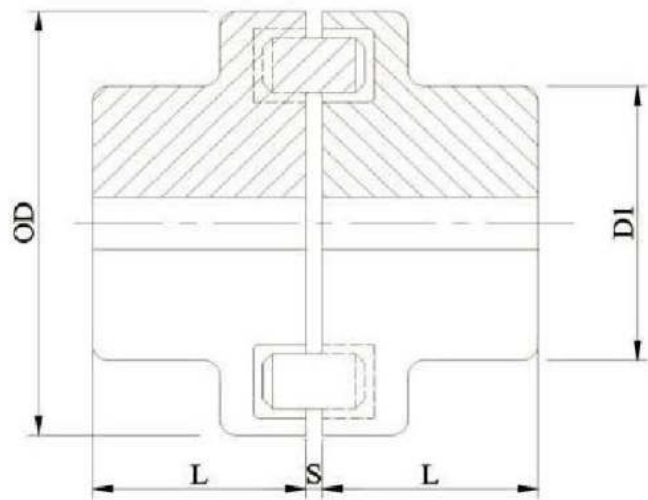


| Part No.               | Bore (mm) |     | A   | C  | D   | OD  | Spacer Length (mm) |
|------------------------|-----------|-----|-----|----|-----|-----|--------------------|
|                        | Min       | Max |     |    |     |     |                    |
| L100-100MM/140MM       | 10        | 35  | 65  | 35 | 57  | 78  | 100/140            |
| L110-100MM/140MM       | 15        | 42  | 85  | 43 | 76  | 96  | 100/140            |
| L150-100MM/140MM/180MM | 15        | 48  | 96  | 45 | 80  | 111 | 100/140/180        |
| L190-100MM/140MM/180MM | 20        | 60  | 115 | 54 | 102 | 130 | 100/140/180        |
| L225-100MM/140MM/180MM | 20        | 65  | 127 | 64 | 111 | 142 | 100/140/180        |



| Size | Dimensions |     |     |      |    | Bush | Max Bore |         |
|------|------------|-----|-----|------|----|------|----------|---------|
|      | A          | B   | C   | D    | L  |      | mm       | inch    |
| L100 | 65         | 65  | -   | 22.5 | 64 | 1108 | 28       | 1-1/8   |
| L110 | 85         | 85  | -   | 25.5 | 74 | 1210 | 32       | 1-1/4   |
| L150 | 96         | 96  | -   | 25.5 | 77 | 1210 | 32       | 1-1/4   |
| L190 | 115        | 102 | 6.5 | 25.5 | 77 | 1610 | 42       | 1-11/16 |
| L225 | 127        | 108 | 13  | 32   | 90 | 2012 | 50       | 2       |

The NM coupling has a very distinctive element that weaves in and out between the jaws. This ring has a high internal damping characteristic, which enables the coupling, on reaching a dangerous speed range, to limit the torsional oscillation and thus protect the linked machines from damage. Elements come in material grade Perbunan (Pb72) with nitrile rubber (NBR) and hardness of 72 & 82 shore A with temperature range of  $-40\text{ C}^{\circ}$  to  $+120\text{ C}^{\circ}$ .



| Size   | Rev (mm) |     | OD  | DI | L  | S       | Max Speed (RPM) | Torque (Nm) |       | Power Rating kW /rpm | Weight (kg) /set |
|--------|----------|-----|-----|----|----|---------|-----------------|-------------|-------|----------------------|------------------|
|        | Min      | Max |     |    |    |         |                 | Nominal     | Max   |                      |                  |
| NM-50  | 7        | 19  | 50  | 33 | 25 | 2.0±0.5 | 13500           | 12.74       | 22.54 | 1.33                 | 0.52             |
| NM-67  | 9        | 28  | 67  | 46 | 30 | 2.5±0.5 | 10000           | 21.56       | 39.2  | 2.26                 | 0.93             |
| NM-82  | 10       | 32  | 82  | 53 | 40 | 3.0±0.5 | 8000            | 49          | 88.2  | 5.13                 | 1.78             |
| NM-97  | 12       | 42  | 97  | 69 | 50 | 3.0±0.5 | 7000            | 102.9       | 186.2 | 10.78                | 3.46             |
| NM-112 | 14       | 48  | 112 | 79 | 60 | 3.5±0.5 | 6000            | 163.66      | 294   | 17.14                | 5                |
| NM-128 | 18       | 55  | 128 | 90 | 70 | 3.5±0.5 | 5000            | 261.66      | 470   | 27.40                | 7.9              |

Stocking elements to suit.



## Characteristics of MAX DYNAMIC Coupling

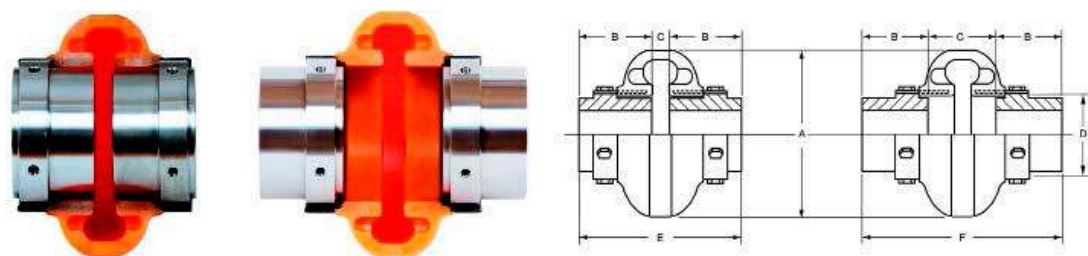
1. Facility protection for twirl and twist, impact and abrasion
2. Very simple replacement and maintenance without oil and grease
3. Very simple replacement without the separation of motor or connector on the related line due to it's simple structure
4. Possible for the dissimilar connection and assembling with same hub
5. Polyurethane based for having good water resistance, chemical resistance
6. Highest flexible elasticity on run
7. Less noise



## Application

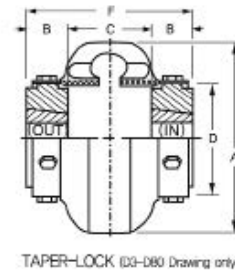
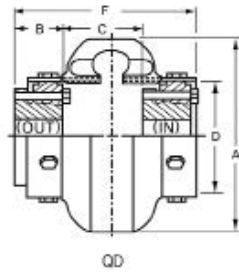
- Agitator
- Blower
- Compressor
- Conveyors
- Cranes and Hoists
- Elevators
- Fans
- Generators
- Pump
- Brewery and Distilling
- Food Industry
- Lumber Industry
- Pulp and Paper Mill
- Rubber Industry
- Steel Industry
- Textile Mills
- Aggregate Processing Cement

## MAX DYNAMIC Standard Couplings



| Max Dynamic Coupling No. | Torque (kgf.m) | Max. Bore (mm) | Max. rpm | Power Rating (kw/rpm) | Dimensions (mm) |            |                    |                    |         |              |     |   |
|--------------------------|----------------|----------------|----------|-----------------------|-----------------|------------|--------------------|--------------------|---------|--------------|-----|---|
|                          |                |                |          |                       | A               | B          | C                  |                    | D       | E            |     | F |
|                          |                |                |          |                       | Out Dia         | Hub Length | Min. Shaft Spacing | Max. Shaft Spacing | Hub Dia | Total Length |     |   |
|                          |                |                |          |                       |                 |            |                    |                    | In      | Out          |     |   |
| D-2                      | 2.20           | 28             | 7,500    | 0.0023                | 89              | 24         | 35                 | 47                 | 47      | 83           | 95  |   |
| D-3                      | 4.20           | 34             | 7,500    | 0.0043                | 102             | 32         | 9                  | 47                 | 59      | 83           | 111 |   |
| D-4                      | 6.40           | 42             | 7,500    | 0.0066                | 116             | 37         | 9                  | 47                 | 66      | 83           | 121 |   |
| D-5                      | 11.00          | 48             | 7,500    | 0.0110                | 137             | 45         | 10                 | 52                 | 80      | 100          | 142 |   |
| D-10                     | 16.70          | 55             | 7,500    | 0.0170                | 162             | 45         | 11                 | 53                 | 93      | 101          | 143 |   |
| D-20                     | 26.70          | 60             | 6,600    | 0.0270                | 184             | 50         | 15                 | 63                 | 114     | 115          | 163 |   |
| D-30                     | 42.10          | 75             | 5,800    | 0.0430                | 210             | 56         | 12                 | 68                 | 138     | 124          | 180 |   |
| D-40                     | 63.40          | 85             | 5,000    | 0.0660                | 241             | 61         | 12                 | 74                 | 168     | 134          | 196 |   |
| D-50                     | 88.20          | 90             | 4,200    | 0.0900                | 279             | 69         | 12                 | 86                 | 207     | 150          | 224 |   |
| D-60                     | 144.00         | 105            | 3,800    | 0.1480                | 318             | 80         | 11                 | 99                 | 222     | 171          | 259 |   |
| D-70                     | 254.00         | 120            | 3,600    | 0.2620                | 356             | 85         | 18                 | 109                | 235     | 189          | 281 |   |
| D-80                     | 455.00         | 155            | 2,000    | 0.4670                | 406             | 114        | 17                 | 149                | 286     | 245          | 377 |   |
| D-100*                   | 980.00         | 171            | 1,900    | 1.0000                | 533             | 140        | 44                 | 95                 | 359     | 324          | 375 |   |
| D-120*                   | 1,961.00       | 190            | 1,800    | 2.0000                | 635             | 152        | 57                 | 124                | 448     | 362          | 429 |   |

# MAX DYNAMIC Standard Couplings with Compression Bushed Hubs



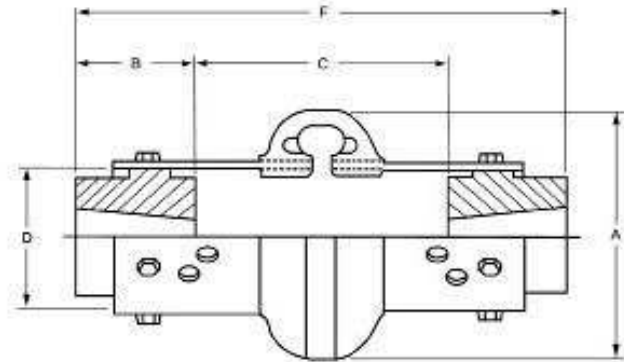
## Specification Data with QD Hubs

Not a stocked range although available on request.

| Max Dynamic Coupling No. | QD Bush No. | Torque (kgf.m) | Max. Bore (mm) | Max. rpm | Power Rating (kw/rpm) | Dimensions (mm) |            |    |     |         |              | Weight (kg) |        |
|--------------------------|-------------|----------------|----------------|----------|-----------------------|-----------------|------------|----|-----|---------|--------------|-------------|--------|
|                          |             |                |                |          |                       | A               | B          | C  |     | D       | E            |             | F      |
|                          |             |                |                |          |                       | Out Dia         | Hub Length | In | Out | Hub Dia | Total Length |             |        |
|                          |             |                |                |          |                       |                 |            | In | Out |         |              |             |        |
| D-4                      | JA          | 6.4            | 30             | 7,500    | 0.0066                | 116             | 25         | 31 | 48  | 66      | 82           | 99          | 0.95   |
| D-5                      | SH          | 11.0           | 35             | 7,500    | 0.0110                | 137             | 32         | 44 | 48  | 80      | 108          | 114         | 1.63   |
| D-10                     | SDS         | 16.7           | 42             | 7,500    | 0.0170                | 162             | 33         | 30 | 59  | 93      | 97           | 125         | 2.18   |
| D-20                     | SK          | 26.7           | 55             | 6,600    | 0.0270                | 184             | 48         | 16 | 67  | 114     | 108          | 162         | 3.86   |
| D-30                     | SF          | 42.1           | 60             | 5,800    | 0.0430                | 210             | 51         | 37 | 56  | 138     | 138          | 157         | 6.35   |
| D-40                     | E           | 63.4           | 75             | 5,000    | 0.0660                | 241             | 67         | 32 | 44  | 168     | 165          | 178         | 10.80  |
| D-50                     | E           | 88.2           | 75             | 4,200    | 0.0900                | 279             | 67         | 35 | 73  | 207     | 168          | 207         | 17.06  |
| D-60                     | F           | 144.0          | 90             | 3,800    | 0.1480                | 318             | 92         | 38 | 48  | 222     | 222          | 232         | 20.64  |
| D-70                     | J           | 254.0          | 100            | 3,600    | 0.2620                | 356             | 114        | 33 | 36  | 235     | 262          | 265         | 30.89  |
| D-80                     | M           | 455.0          | 140            | 2,000    | 0.4670                | 406             | 171        | 19 | 32  | 286     | 362          | 375         | 63.50  |
| D-100                    | M           | 980.0          | 140            | 1,900    | 1.0000                | 533             | 173        | 44 | 29  | 359     | 390          | 375         | 113.40 |
| D-120                    | N           | 1,961.0        | 150            | 1,800    | 2.0000                | 635             | 206        | 44 | 29  | 448     | 456          | 441         | 215.46 |

\* Note: Dimensions may vary depending on bushing manufacturer. Dimensions subject to change.

| Specification Data with Taper-Lock Hubs |                     |                |                |          |                       |                 |            |      |     |         |              |             |        |
|---|---------------------|----------------|----------------|----------|-----------------------|-----------------|------------|------|-----|---------|--------------|-------------|--------|
| Max Dynamic Coupling No.                | Taper Lock Bush No. | Torque (kgf.m) | Max. Bore (mm) | Max. rpm | Power Rating (kw/rpm) | Dimensions (mm) |            |      |     |         |              | Weight (kg) |        |
|   |                     |                |                |          |                       | A               | B          | C    |     | D       | E            |             | F      |
|   |                     |                |                |          |                       | Out Dia         | Hub Length | In   | Out | Hub Dia | Total Length |             |        |
|   |                     |                |                |          |                       |                 |            | In   | Out |         |              |             |        |
| D-3                                     | 1008                | 4.2            | 25             | 7,500    | 0.0043                | 102             | 22         | 43.0 | -   | 59      | 87           | -           | 0.82   |
| D-4                                     | 1008                | 6.4            | 25             | 7,500    | 0.0066                | 116             | 22         | 43.0 | -   | 66      | 87           | -           | 1.18   |
| D-5                                     | 1108                | 11.0           | 28             | 7,500    | 0.0110                | 137             | 22         | 56.0 | -   | 80      | 100          | -           | 1.81   |
| D-10                                    | 1610                | 16.7           | 35             | 7,500    | 0.0170                | 162             | 25         | 52.0 | -   | 93      | 103          | -           | 2.72   |
| D-20                                    | 1610                | 26.7           | 42             | 6,600    | 0.0270                | 184             | 25         | 63.5 | -   | 114     | 114          | -           | 4.08   |
| D-30                                    | 2012                | 42.1           | 50             | 5,800    | 0.0430                | 210             | 32         | 65.0 | -   | 138     | 129          | -           | 6.17   |
| D-40                                    | 2517                | 63.4           | 65             | 5,000    | 0.0660                | 241             | 44         | 60.0 | -   | 168     | 149          | -           | 9.89   |
| D-50                                    | 2517                | 88.2           | 65             | 4,200    | 0.0900                | 279             | 44         | 76.0 | -   | 207     | 165          | -           | 14.29  |
| D-60                                    | 3020                | 144.0          | 75             | 3,800    | 0.1480                | 318             | 51         | 84.0 | -   | 222     | 186          | -           | 21.14  |
| D-70                                    | 3535                | 254.0          | 100            | 3,600    | 0.2620                | 356             | 89         | 60.0 | -   | 235     | 238          | -           | 30.25  |
| D-80                                    | 4040                | 455.0          | 100            | 2,000    | 0.4670                | 406             | 102        | 95.0 | -   | 286     | 298          | -           | 37.19  |
| D-100                                   | 4545                | 980.0          | 110            | 1,900    | 1.0000                | 533             | 114        | 38   | 152 | 359     | 267          | 381         | 113.40 |
| D-120                                   | 5050                | 1,961.0        | 125            | 1,800    | 2.0000                | 635             | 127        | 51   | 181 | 448     | 305          | 435         | 185.07 |



BOOK 3: COUPLINGS & SHAFT FIXINGS

| Max Dynamic Coupling No. | Torque (kgf.m) | Max. Bore (mm) | Max. rpm | Power Rating (kw/rpm) | Dimensions (mm) |            |                    |                    |         |              |     |   |
|--------------------------|----------------|----------------|----------|-----------------------|-----------------|------------|--------------------|--------------------|---------|--------------|-----|---|
|                          |                |                |          |                       | A               | B          | C                  |                    | D       | E            |     | F |
|                          |                |                |          |                       | Out Dia         | Hub Length | Min. Shaft Spacing | Max. Shaft Spacing | Hub Dia | Total Length |     |   |
|                          |                |                |          |                       |                 |            |                    |                    | In      | Out          |     |   |
| DS-2                     | 2.20           | 28             | 7,500    | 0.0023                | 89              | 24         | 91                 | 100                | 47      | 146          | 149 |   |
| DS-3                     | 4.20           | 34             | 7,500    | 0.0043                | 102             | 37         | 85                 | 140                | 59      | 184          | 216 |   |
| DS-4                     | 6.40           | 42             | 7,500    | 0.0066                | 116             | 37         | 85                 | 140                | 66      | 184          | 216 |   |
| DS-5                     | 11.00          | 48             | 7,500    | 0.0110                | 137             | 45         | 89                 | 140                | 80      | 184          | 228 |   |
| DS-10                    | 16.70          | 55             | 7,500    | 0.0170                | 162             | 45         | 89                 | 140                | 93      | 184          | 228 |   |
| DS-20                    | 26.70          | 60             | 4,800    | 0.0270                | 184             | 50         | 67                 | 180                | 114     | 238          | 280 |   |
| DS-30                    | 42.10          | 75             | 4,200    | 0.0430                | 210             | 56         | 54                 | 180                | 138     | 238          | 293 |   |
| DS-40                    | 63.40          | 85             | 3,600    | 0.0660                | 241             | 61         | 41                 | 180                | 168     | 238          | 307 |   |
| DS-50                    | 88.20          | 90             | 3,100    | 0.0900                | 279             | 69         | 28                 | 180                | 207     | 238          | 319 |   |
| DS-60                    | 144.00         | 105            | 2,800    | 0.1480                | 318             | 80         | 66                 | 250                | 222     | 318          | 415 |   |
| DS-70                    | 254.00         | 120            | 2,600    | 0.2620                | 356             | 85         | 59                 | 250                | 235     | 318          | 421 |   |
| DS-80                    | 455.00         | 155            | 1,800    | 0.4670                | 406             | 114        | 37                 | 250                | 286     | 318          | 478 |   |

## Recommended Capscrew

| Size  | Torque (kgf.m) |
|-------|----------------|
| D-2   | 2.3            |
| D-3   |                |
| D-4   |                |
| D-5   |                |
| D-10  |                |
| D-20  | 4.1            |
| D-30  |                |
| D-40  |                |
| D-50  |                |
| D-60  |                |
| D-70  | 10.2           |
| D-80  |                |
| D-100 |                |
| D-120 | 37.7           |

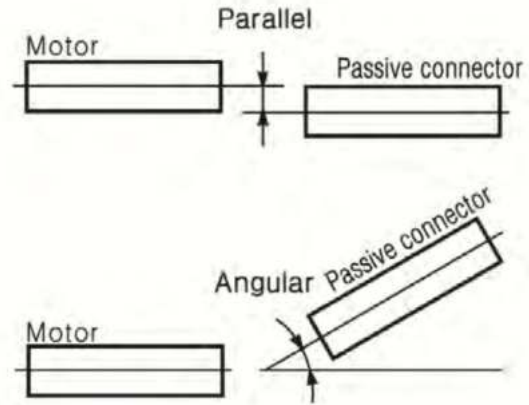
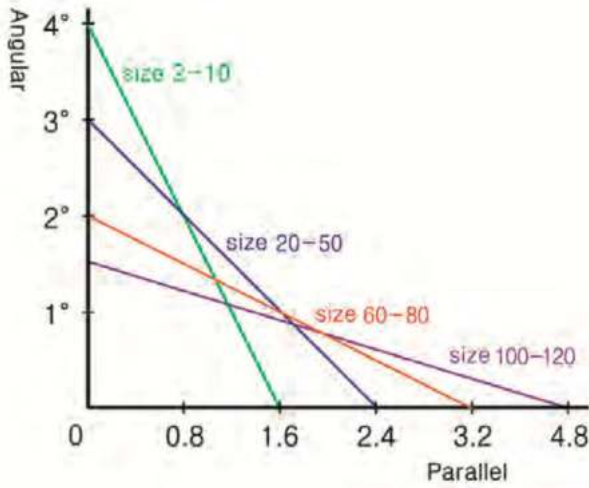
Not currently in our range

### NOTE

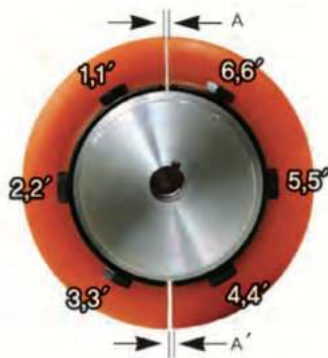
1. A bolt having the highest tension shall be used
2. Adhesive shall be used
3. Never use a bolt more than twice

COUPLINGS

## The tolerance of installation



## The method of assembly



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 5-5', 3-3', 4-4', 6-6', 1-1'
4. Assemble the bolts in the middle part of the edge



1. Adjust the face of A and A' at same space
2. Adjust Hub's Minimum space
3. Assemble the bolts in the order of 2-2', 7-7', 3-3', 6-6', 1-1', 4-4', 8-8', 5-5'
4. Assemble the bolts in the middle part of the edge



## Service (safety) factors for each running part

| General Application | Service Factor | Industry Application        | Service Factor |
|---------------------|----------------|-----------------------------|----------------|
| Agitator            | 1.5            | Aggregate Processing Cement | 2.0-3.0        |
| Blower              | 1.0-1.5        | Brewery and Distilling      | 1.0-2.0        |
| Compressor          | 1.0-2.0        | Food Industry               | 1.0-2.0        |
| Conveyor            | 1.25-1.5       | Lumber Industry             | 1.5-2.5        |
| Cranes and Hoist    | 2.0-2.5        | Power Industry              | 1.0-2.5        |
| Elevators           | 1.0-2.0        | Pulp and Paper Mills        | 1.0-3.5        |
| Fans                | 1.0-2.0        | Rubber Industry             | 1.0-3.0        |
| Generators          | 1.0-2.5        | Steel Industry              | 2.0-4.5        |
| Pumps               | 1.0-1.5        | Textile                     | 1.0-2.0        |

## Service/Safety Factor

| Running Status   | Service Factor |
|--|----------------|
| 1 For being continuous running and light load weight                   | 1.0            |
| 2 For being the various change of the rotary power                     | 1.5            |
| 3 For being various and frequent variation on the turning force        | 2.0            |
| 4 For being the variation of the rotary power accompanying impact      | 2.5            |
| 5 For being high impact load-weight accompanying slight retro-rotation | 3.0            |
| 6 For being frequent retro-rotation accompanying high impact           | Consult        |



Due to their torsional flexibility, flexible pin couplings can move critical torsional vibrations away from the operating area of mechanical equipment in such a way that no negative effects on the drive train are to be expected. Flexible Pin couplings are made of high-quality cast iron. The flexible elements made of synthetic rubber (NBR) are available in different degrees of hardness for many applications. Metal pins and flexible elements are designed so that no wear occurs when they are properly fitted.

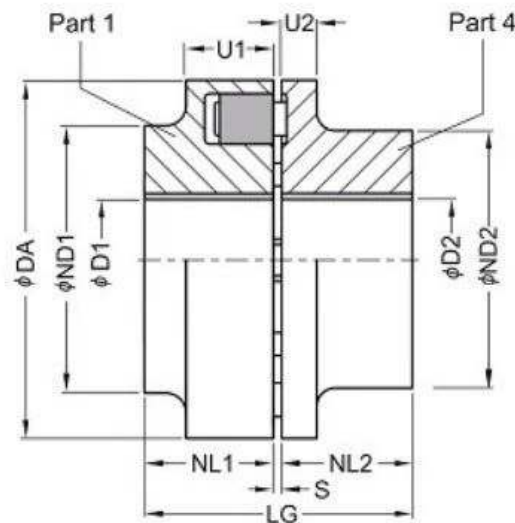
**Your benefits at a glance:**

- Fail-safe for maximum operational reliability
- Three-part type suitable for plug-in assembly and simplified replacement of elements
- Choice of elastomer hardness to suit various applications.



| Part No. | Nm  | Max RPM | D1 (mm) |     | D2 (mm) |     | DA  | ND1 | ND2 | NL1/NL2 | S | U1 | U2 | LG  |
|----------|-----|---------|---------|-----|---------|-----|-----|-----|-----|---------|---|----|----|-----|
|          |     |         | Min     | Max | Min     | Max |     |     |     |         |   |    |    |     |
| H58      | 19  | 7500    | -       | 19  | -       | 24  | 58  | 58  | 40  | 20      | 3 | 20 | 8  | 43  |
| H68      | 34  | 7000    | -       | 24  | -       | 28  | 68  | 68  | 50  | 20      | 3 | 20 | 8  | 43  |
| H80      | 60  | 6000    | -       | 30  | -       | 38  | 80  | 80  | 68  | 30      | 3 | 30 | 10 | 63  |
| H95      | 100 | 5500    | -       | 42  | -       | 42  | 95  | 76  | 76  | 35      | 3 | 30 | 12 | 73  |
| H110     | 160 | 5300    | -       | 48  | -       | 48  | 110 | 86  | 86  | 40      | 3 | 34 | 14 | 83  |
| H125     | 240 | 5100    | -       | 55  | -       | 55  | 125 | 100 | 100 | 50      | 3 | 36 | 18 | 103 |
| H140     | 360 | 4900    | -       | 60  | -       | 60  | 140 | 100 | 100 | 55      | 3 | 34 | 20 | 113 |

Stocking elements to suit.

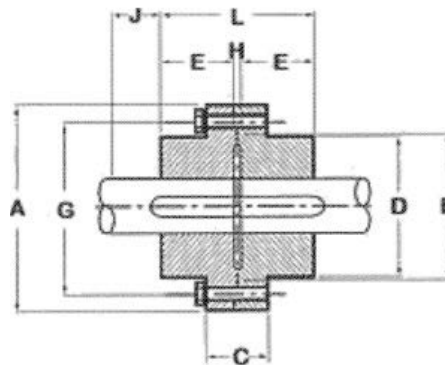


Rigid Couplings are used in situations where shaft alignment is essential. A misaligned coupling can cause damage and downtime. When properly fitted this torsionally rigid coupling helps prevent any such event. Finer Rigid Couplings are Taper Lock ready and available in a range of sizes to accommodate almost any shaft size.

Rigid Couplings consist of 2 flanges, available in internal and external entry (H & F). This gives two possible coupling assemblies: HF and FF. When connecting horizontal shafts, choose the most convenient method. When connecting vertical shafts use assembly FF only.



| Part No. | Max Bore | Max Torque (Nm) | Normal Maximum Speed (RPM) |
|----------|----------|-----------------|----------------------------|
| RM12     | 32.0     | 130             | 4000                       |
| RM16     | 42.0     | 220             | 4000                       |
| RM25     | 60.0     | 220             | 3800                       |
| RM30     | 75.0     | 1000            | 3150                       |
| RM35     | 90.0     | 1400            | 2800                       |
| RM40     | 100.0    | 2700            | 2250                       |
| RM45     | 110.0    | 3200            | 2100                       |
| RM50     | 125.0    | 4000            | 2000                       |



| Coupling | Bush | Max. Bore |       | A   | C  | D   | E   | F nom | G nom | H+ | J* | L   | Kg  |
|----------|------|-----------|-------|-----|----|-----|-----|-------|-------|----|----|-----|-----|
|          |      | Metric    | Inch  |     |    |     |     |       |       |    |    |     |     |
| RM12     | 1210 | 32        | 1 1/4 | 118 | 35 | 83  | 26  | 76    | 102   | 7  | 38 | 57  | 3.5 |
| RM16     | 1615 | 42        | 1 5/8 | 127 | 43 | 80  | 38  | 89    | 105   | 7  | 38 | 83  | 4.5 |
| RM25     | 2517 | 65        | 2 1/2 | 178 | 51 | 123 | 45  | 127   | 149   | 7  | 48 | 97  | 11  |
| RM30     | 3030 | 75        | 3     | 216 | 65 | 146 | 76  | 152   | 181   | 7  | 54 | 169 | 23  |
| RM35     | 3535 | 90        | 3 1/2 | 248 | 75 | 178 | 89  | 178   | 213   | 7  | 67 | 185 | 38  |
| RM40     | 4040 | 100       | 4     | 298 | 76 | 210 | 102 | 216   | 257   | 7  | 79 | 210 | 64  |
| RM45     | 4545 | 110       | 4 1/2 | 330 | 86 | 230 | 114 | 241   | 286   | 7  | 89 | 235 | 88  |
| RM50     | 5050 | 125       | 5     | 362 | 92 | 266 | 127 | 267   | 314   | 7  | 92 | 260 | 155 |

\* is the wrench clearance to allow for tightening and loosening the bush on the shaft.

+ is the distance between shaft ends.

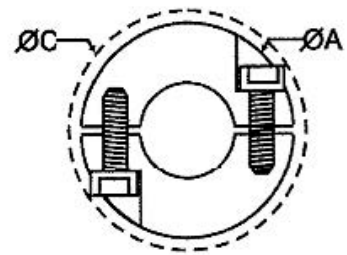
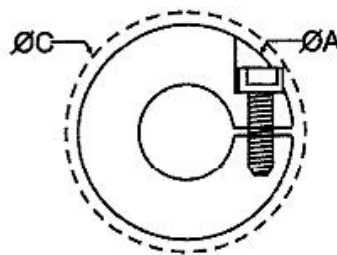
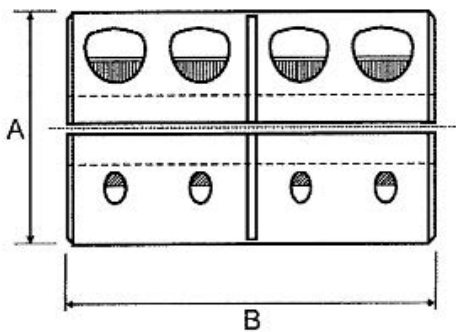
Coupling weights calculated including average sized TL Bush.

# Metric Rigid Couplings (Clamp Type)

Rigid couplings are available in one and two piece clamp designs, with and without keyways in steel or stainless steel. Clamp style rigid couplings wrap around the shaft, providing high torsional holding power without the shaft damage and fretting that occurs when set screw style couplings are used. Two-piece clamp styles also allow for disassembly and maintenance without removal of other machine components and feature opposing hardware for a balanced design.



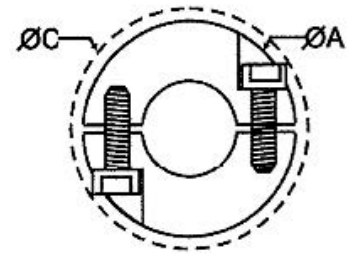
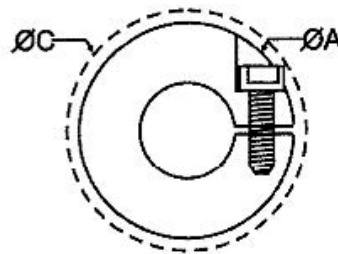
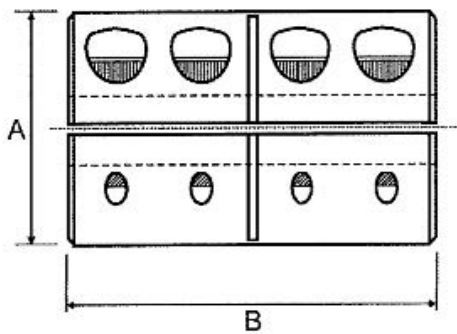
| Part No.        |                 | Bore (mm) | A    | B     | C    |
|-----------------|-----------------|-----------|------|-------|------|
| One Piece Split | Two Piece Split |           |      |       |      |
| MCLX-3-3*       | MSPX-3-3        | 3.0       | 15.0 | 22.0  | 15.0 |
| MCLX-4-4        | MSPX-4-4        | 4.0       | 15.0 | 22.0  | 15.0 |
| MCLX-5-5        | MSPX-5-5        | 5.0       | 15.0 | 22.0  | 15.0 |
| MCLX-6-6        | MSPX-6-6        | 6.0       | 18.0 | 30.0  | 21.5 |
| MCLX-8-8        | MSPX-8-8        | 8.0       | 24.0 | 35.0  | 27.1 |
| MCLX-10-10      | MSPX-10-10      | 10.0      | 29.0 | 45.0  | 33.0 |
| MCLX-12-12      | MSPX-12-12      | 12.0      | 29.0 | 45.0  | 33.0 |
| MCLX-14-14      | MSPX-14-14      | 14.0      | 34.0 | 50.0  | 39.4 |
| MCLX-15-15      | MSPX-15-15      | 15.0      | 34.0 | 50.0  | 39.4 |
| MCLX-16-16      | MSPX-16-16      | 16.0      | 34.0 | 50.0  | 39.4 |
| MCLX-20-20      | MSPX-20-20      | 20.0      | 42.0 | 65.0  | 48.9 |
| MCLX-25-25      | MSPX-25-25      | 25.0      | 45.0 | 75.0  | 51.5 |
| MCLX-30-30      | MSPX-30-30      | 30.0      | 53.0 | 83.0  | 58.7 |
| MCLX-35-35      | MSPX-35-35      | 35.0      | 67.0 | 95.0  | 74.7 |
| MCLX-40-40      | MSPX-40-40      | 40.0      | 77.0 | 108.0 | 84.0 |
| MCLX-50-50      | MSPX-50-50      | 50.0      | 85.0 | 124.0 | 94.2 |



# Imperial Rigid Couplings (Clamp Type)



| Part No.        |                 | Bore (inches) | A    | B     | C    |
|-----------------|-----------------|---------------|------|-------|------|
| One Piece Split | Two Piece Split |               |      |       |      |
| CLX-4-4         | SPX-4-4         | 6.4 (1/4")    | 15.9 | 25.4  | 20.7 |
| CLX-6-6         | SPX-6-6         | 9.5 (3/8")    | 22.2 | 34.9  | 26.2 |
| CLX-8-8         | SPX-8-8         | 12.7 (1/2")   | 28.6 | 44.5  | 33.7 |
| CLX-10-10       | SPX-10-10       | 15.9 (5/8")   | 33.3 | 50.8  | 38.5 |
| CLX-12-12       | SPX-12-12       | 19.1 (3/4")   | 38.1 | 57.2  | 46.8 |
| CLX-14-14       | SPX-14-14       | 22.2 (7/8")   | 41.3 | 63.5  | 49.1 |
| CLX-16-16       | SPX-16-16       | 25.4 (1")     | 44.5 | 76.2  | 52.0 |
| CLX-18-18       | SPX-18-18       | 28.6 (1 1/8") | 47.6 | 79.4  | 55.4 |
| CLX-20-20       | SPX-20-20       | 31.8 (1 1/4") | 52.4 | 82.6  | 58.1 |
| CLX-22-22       | SPX-22-22       | 34.9 (1 3/8") | 63.5 | 92.1  | 70.4 |
| CLX-24-24       | SPX-24-24       | 38.1 (1 1/2") | 66.7 | 98.4  | 73.3 |
| CLX-28-28       | SPX-28-28       | 44.5 (1 3/4") | 79.4 | 114.3 | 85.5 |
| CLX-32-32       | SPX-32-32       | 50.8 (2")     | 85.7 | 123.8 | 94.4 |





KCP Gear Coupling follows the international standards of AGMA and JIS, which easily allows to replace with major industrial products. Our Gear coupling compensates angular misalignment, parallel misalignment and end float. The fully crowned hub teeth provide minimum loading stress, and ensure longer life.

### 1. Characteristics

1. High torque, small size, long life and very little loss of transmitting power.
2. The concave-convex flange design allows easy assembly and the high quality gasket prevents leakage of lubricant.
3. Gear Coupling permits parallel, angular misalignments and end floating by crown gear teeth.

#### - Parallel Misalignment

The driving and driven shafts are not parallel to each other, but not on the same straight line.

#### - Angular Misalignment

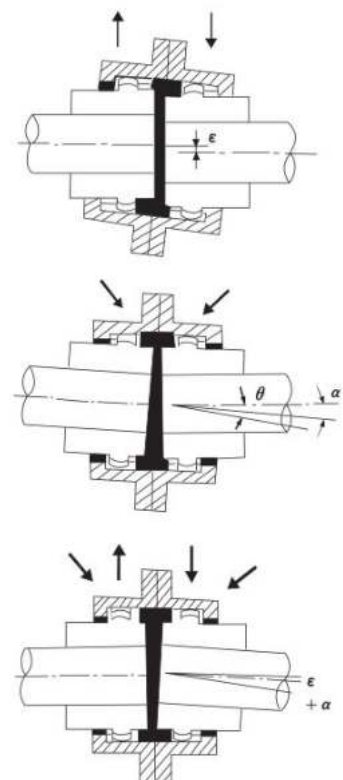
The driving and driven shafts installed with a limited angle.

#### - End Floating

The driving and driven shafts slide slightly along with the gear teeth.

#### - Composite Misalignment

In most of cases, above 3 misalignments appear with mixed in general use



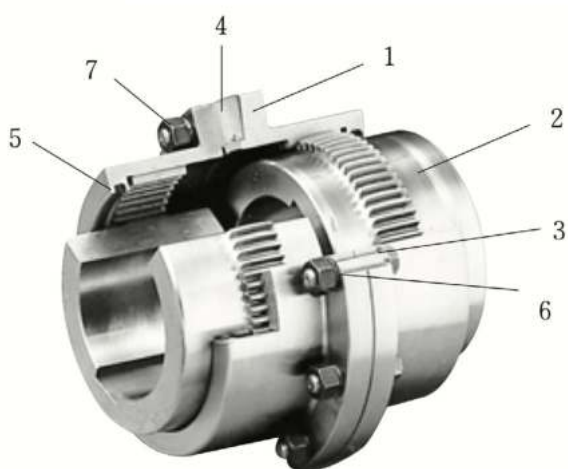
# Gear Couplings

## Allowable Misalignment

| Size | 100    | 150    | 200    | 250    | 300    | 350    | 400    | 450    | 500    | 550    | 600    | 700  | 800  | 900  | 1000 | 1100 | 1200 |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------|------|------|------|------|------|
| (mm) | 12     | 1.3    | 1.7    | 2.1    | 2.4    | 2.9    | 3.2    | 3.5    | 4.1    | 4.5    | 5      | 5.9  | 6.7  | 7.4  | 8.2  | 12.7 | 12.7 |
| °( ) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 3(1.5) | 2(1) | 2(1) | 2(1) | 2(1) | 2(1) | 2(1) |

- The couplings made of S45C has a good endurance to high speed and peak load. Consult us for special materials, if required.
- Customer's requirements of special design can be acceptable

## 2. Structure



1. Internal Gear (Rounded Sleeve)
2. Crown Gear (Crown Gear Hub)
3. Reamer Bolt or AGMA Bolt
4. Gasket
5. O-ring
6. Spring Washer
7. Hex Bolt & Nut

\* The crowned hub teeth provide larger contact area and decrease the stress

## 3. Application

1. Heavy load, but compact design coupling.
2. High speed up to 5,000rpm (Depending on size, refer to the data)
3. Low speed, but high starting torque
4. End float application
5. Spacer required, due to longer distance between shaft ends
6. Low load and light weight application is not recommendable.

## 4. Standard Material

| INTERNAL GEAR | CROWN GEAR | FLANGE | Bolt     | O-ring |
|---------------|------------|--------|----------|--------|
|               | SM 45C-N   |        | SM 45C-H | NBR    |

- Special material and/or special treatment is required under the unusual application environments, such as high speed, high or low temperature, chemicals corrosiveness, medium load stress.
- Under the heavy load, high speed and corrosive environment, special materials shall be required.

## 5. Selection of Method Size

### 1. Selection

Using the following formula, Design Torque required

$$T = 97,400 \frac{kw}{N} \times S.F \text{ 또는 } T = 71,620 \frac{HP}{N} \times S.F$$

- T = Design torque (kg mm)
- kw = Power (kw)
- HP = Power (HP)
- N = Working revolution (rpm)
- S.F = Recommended Service Factor

Select the size with the same or with the greater value at the Basic Torque column, Refer to the maximum shaft diameters of the size selected, and then compare the shaft diameters of the application with the max. bore dia of the size selected. If the coupling bore is not suitable, select the larger size coupling.



# Gear Couplings

### 3. Example

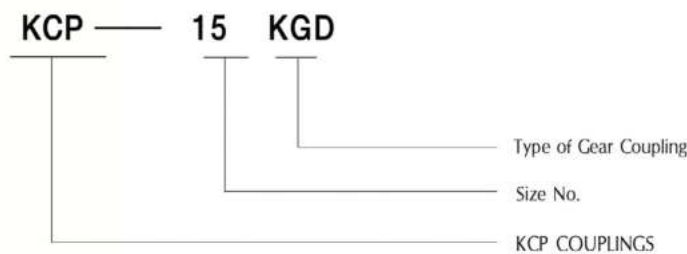
Select Gear Coupling to connect 450HP 1,170 rpm electric motor with reducer.  
 Motor shaft diameter is 80mm, Reducer shaft diameter is 90mm, Max parallel alignment is 1.5mm.

1. Select type KGDB for higher valued application of parallel misalignment.
2. Service factor is 2.0
3. Use the normal formula

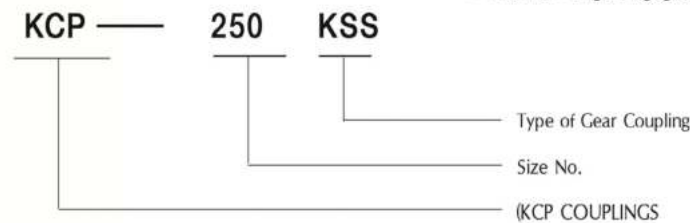
$$\text{HP}/100\text{rpm} = \frac{450 \times 100 \times 2.0}{1.170} = 76.9$$

Size KGDR25 is selected with rating of 90HP per 100rpm. To apply larger shaft dia 90mm, finally KGDE 30 is selected.

### 6. Designation



- KGD : Double Engagement Coupling
- KGDL : Double Engagement Large Coupling
- KGS : Single Engagement Coupling
- KGSL : Single Engagement Large Coupling
- KGDS : Spacer Coupling - Double Engagement
- KGH10 : Double Engagement - Horizontal Sliding Coupling
- KGH20 : Single Engagement - Horizontal Sliding Coupling



- KSS : Double Engagement Coupling
- KSE : Single Engagement Coupling
- KCC : Double Engagement Coupling - Large type
- KCE : Single Engagement Coupling - Large type

Double Engagement = provides standard engagement for parallel & angular misalignment as well as end float, with the ability to accommodate close coupled applications.

2 x CGH, 2 x FS, 1 x Kit

Single Engagement = accommodates angular misalignment only and does not allow for parallel misalignment. 1 x CGH, 1 x RH, 1 x FS, 1 x Kit

## 7. Instruction for Installation

### 1. Small Size cup (up to 60)

Hub bore and keyway must be machined accurately. During the key fit to the shaft and this hub, be careful with the oil leakage.

1. Clean all parts, Gears the crowned gear teeth and O-Ring. Put O-Ring onto the shaft.
2. Place the flanged sleeves on the shafts and mount the hubs
3. Using a spacer bar, make the gap between the hubs equal to the normal gap specified.
4. Align the shaft with a strait bar by checking every 90 degrees, referring to the table 3. Make it sure with a dial gauge not to exceed the affect limit.
5. Insert gasket between the flanged sleeves and fasten the bolts, positioning the lube plug at 90 degree
6. Fill grease until overflowing at the open opposite Lube plug hole.

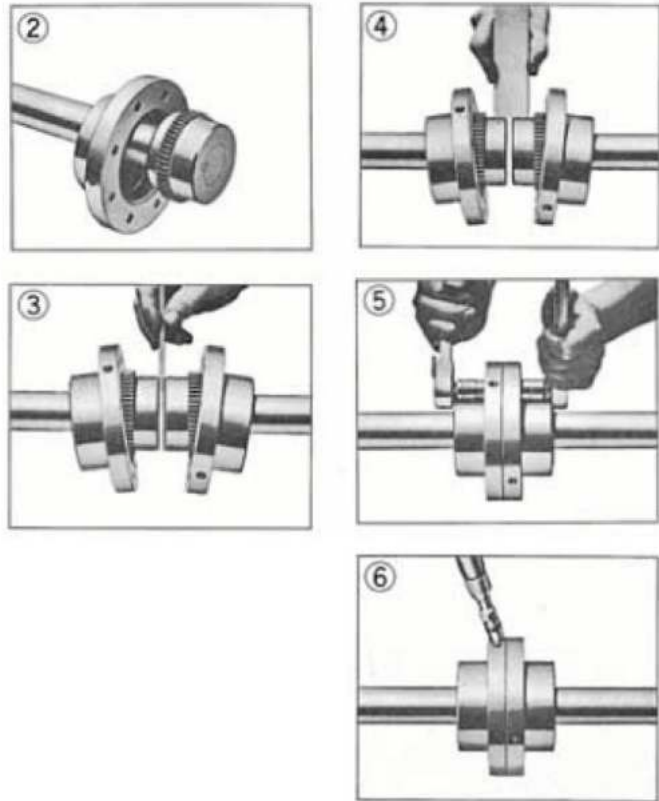


Fig. 3 Operating Limits of misalignment (mm)

| Size                      | 10    | 15    | 20   | 25   | 30  | 35   | 40   | 45   | 50   | 55   | 60   | 70   | 80  | 90  | 100 |
|---------------------------|-------|-------|------|------|-----|------|------|------|------|------|------|------|-----|-----|-----|
| Angular degree            | 0.125 | 0.125 | 0.25 | 0.25 | 0.3 | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.3  | 0.4 | 0.4 | 0.4 |
| Gap                       | 3     | 3     | 3    | 4.5  | 4.5 | 6    | 6    | 8    | 8    | 8    | 8    | 9.5  | 10  | 13  | 13  |
| Flange Bolt Torque(km.cm) | 96    | 320   | 480  | 960  | 960 | 1650 | 1650 | 1650 | 2070 | 2070 | 2070 | 2980 | -   | -   | -   |

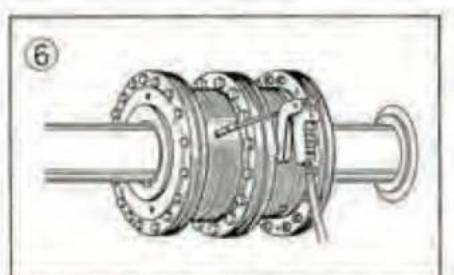
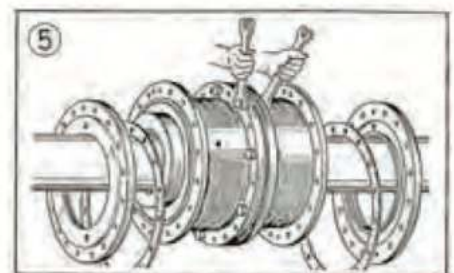
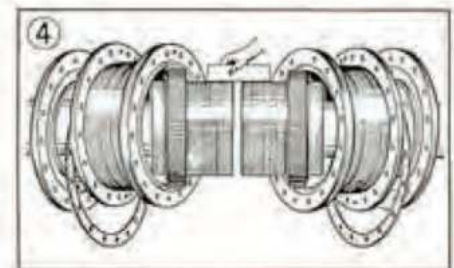
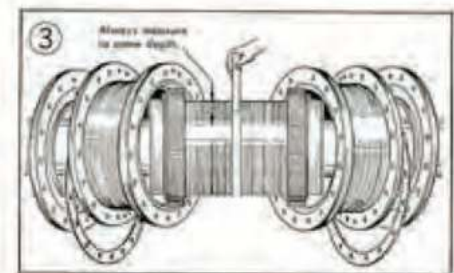
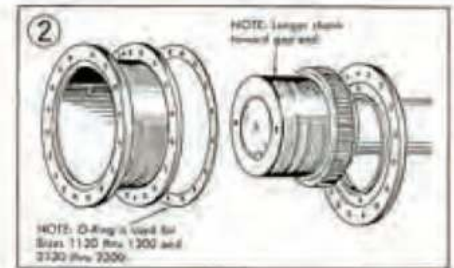
The life of coupling is reduced by excess of the OFFSET limit

# Gear Couplings

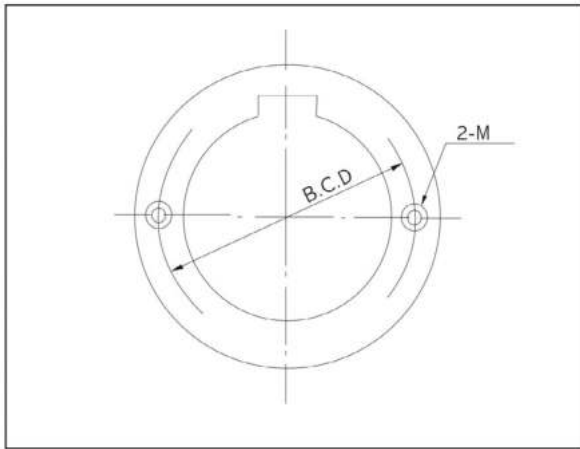
## 2 Large Size (over size 70)

Hub bore and keyway must be machined accurately. During the Key- Fit work, be careful the Internal Gear does not leak oil.

1. Clean all parts. Pack with grease and seals with grease before assembly
2. Place the side covers with sealing gaskets on the shafts before mounting the crown gears.  
Mount crown gears on their respective shafts.  
Mount Internal Gears with side covers gaskets
3. Use a spacer bar equal into the gap. The difference in minimum and maximum measurements should not exceed the angular limit specified in table 3.
4. Align with a straightedge, rest squarely at every 90 degrees as shown in photo. The tolerance should not exceed the offset limit specified in Table 3
5. Insert gasket between flange. Position Internal Gears with lube holes at about 90 degrees and then fasten the bolts & nuts.
6. Remove all lube plugs and fill recommended grease into the coupling until excess flow through the opposite lub plug hole. And screw down plugs.



## 8. Selection on Puller Holes



### Table 4

Table 4

| Size  | BCD | Tap Size |
|-------|-----|----------|
| 20KG  | 89  | M8       |
| 25KG  | 112 | M10      |
| 30KG  | 128 | M10      |
| 35KG  | 152 | M12      |
| 40KG  | 181 | M16      |
| 45KG  | 200 | M16      |
| 50KG  | 216 | M20      |
| 55KG  | 238 | M20      |
| 60KG  | 268 | M20      |
| 70KG  | 305 | M24      |
| 80KG  | 318 | M24      |
| 90KG  | 356 | M30      |
| 100KG | 394 | M30      |
| 110KG | 426 | M30      |
| 120KG | 498 | M30      |

## 9. Lubrication & Handling

With the appropriate lubricant information, the coupling will have good performance and long life.

### 1. Lubricant

1. Grease the Internal gear teeth and crown gear teeth, and fill enough lubricant Grease.

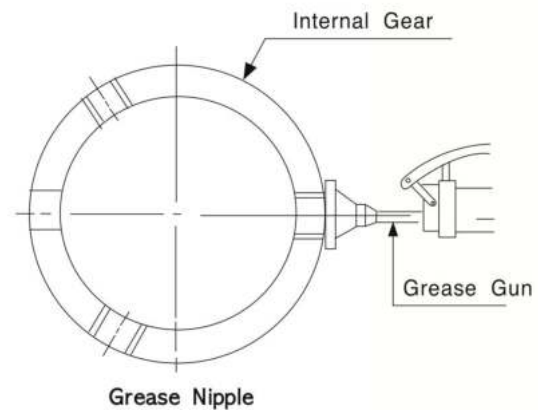
2. Supplement and Replacement:

Add grease every month or every 240-250 hours operating.

Renew all the contaminated grease every 3 month or every 4000 hours operating

3. Selection

Allowable temperature of grease is from 17°C to 70°C. Refer to the table 6 (pg. 3.1.37) that shows the coupling RPM allowed fix the listed grease.

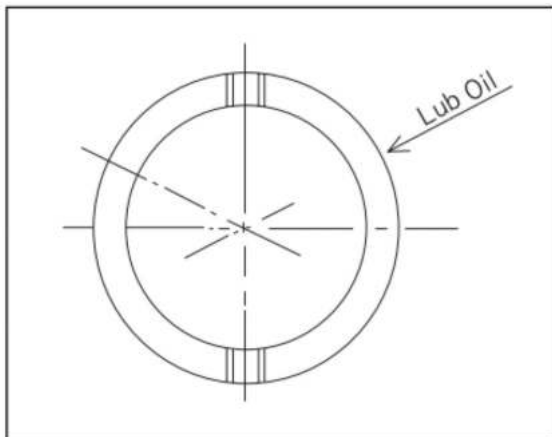


| Company/Oil     | Grease # 1             | Grease # 0             |
|-----------------|------------------------|------------------------|
| Gulf Oil Corp.  | Gulfcrown Grease EP #1 | Gulfcrown Grease EP #0 |
| Shell Oil Corp. | Alvania Grease EP #1   | Alvania Grease EP-RO   |
| Texaco Inc.     | Multifak EP - 1        | Multifak EP - 0        |
| Mobil Oil Corp. | Mobilux EP - 1         | Mobilux EP - 0         |

Note: Lubricants listed in this manual are typical products.

# Gear Couplings

## 2. Lubricant Filling



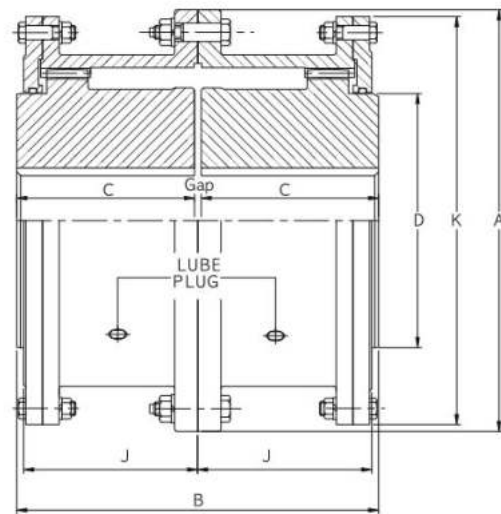
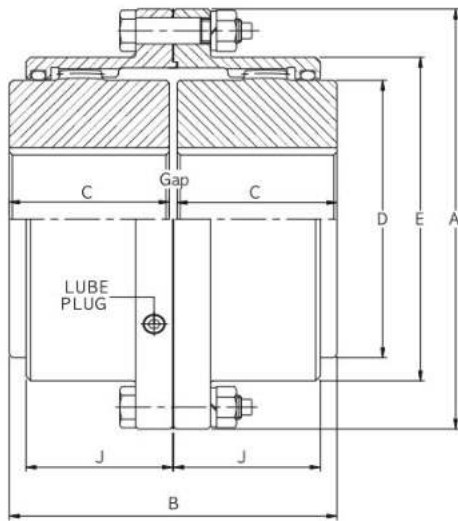
1. Place the Lube plug holes 2EA horizontal level. Fill up Lubricant until it overflows from the opposite hole.
2. Supplement every month, or 240-250 hours operating.
3. Replace completely all the contaminated lubricant, every 3 months or every 4,000 hours operating.

## 3. Selection of Lubricant

**Table 6**

| Com-<br>pany | Shell             | Mobil            | Michang            | Buhmwoo                       | Gulf                                   | Fujikosan<br>Nipponkoju      | Houghton           | Hanil               |                               | Caltex  |
|--------------|-------------------|------------------|--------------------|-------------------------------|--|------------------------------|--------------------|---------------------|-------------------------------|---|
|              | CST<br>40°C<br>68 | omala 68         | Mobilgear<br>626   | Pio Gear EP<br>68             | Buhmwoo<br>Gearlube<br>BG-68           | Gulf EP<br>Lubricant<br>R 68 | Hirax ME<br>GO 300 | MP Gear<br>Oil 68   | Nico Gear<br>SP 68            | Daphne CE<br>compound<br>68C                          |
| 100          | omala 68          |                  | Pio Gear EP<br>68  | Buhmwoo<br>Gearlube<br>BG-100 | Gulf EP<br>Lubricant<br>HD 100         | Hirax ME<br>GO 500           | MP Gear<br>Oil 100 | Nico Gear<br>SP 100 | Daphne CE<br>compound<br>100S | Meropa<br>Lubricant<br>100                            |
| 150          | omala 150         | Mobilgear<br>629 | Pio Gear EP<br>150 | Buhmwoo<br>Gearlube<br>BG-150 | Gulf EP<br>Lubricant<br>R150,<br>HD150 | Hirax ME<br>GO 700           | MP Gear<br>Oil 150 | Nico Gear<br>SP 150 | Daphne CE<br>compound<br>150S | Meropa<br>Lubricant<br>150,<br>Synthetic<br>Gear Lube |
| 150          | omala 220         | Mobilgear<br>630 | Pio Gear EP<br>220 | Buhmwoo<br>Gearlube<br>BG-220 | Gulf EP<br>Lubricant<br>R220,<br>HD220 | Hirax ME<br>GO 1000          | MP Gear<br>Oil 220 | Nico Gear<br>SP 220 | Daphne CE<br>compound<br>220S | Meropa<br>Lubricant<br>220                            |
| 320          | omala 320         | Mobilgear<br>632 | Pio Gear EP<br>320 | Buhmwoo<br>Gearlube<br>BG-320 | Gulf EP<br>Lubricant<br>R320,<br>HD320 | Hirax ME<br>GO 1500          | MP Gear<br>Oil 320 | Nico Gear<br>SP 320 | Daphne CE<br>compound<br>320S | Meropa<br>Lubricant<br>320                            |

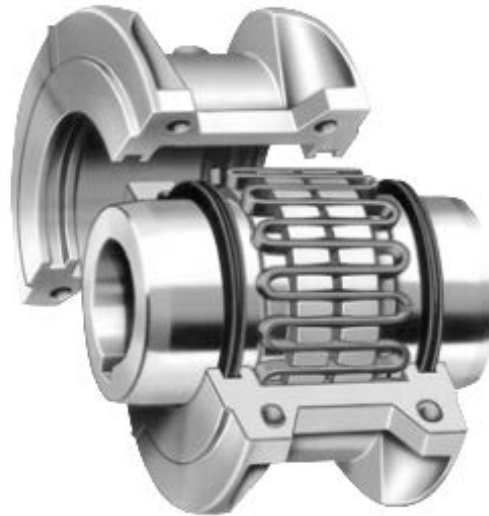
## Type G20



Type g20, (Double Gear) Gear Coupling-AGMA

| Size  | Type G20 Standard Flanged Sleeve |                       |                 |             |             |                 |            | Dimension(inch) |       |      |       |       |      |      |
|-------|----------------------------------|-----------------------|-----------------|-------------|-------------|-----------------|------------|-----------------|-------|------|-------|-------|------|------|
|       | HP per 100 rpm                   | Torque Rating (lb-in) | Allow Speed rpm | Max bore da | Min bore da | Cplg Wt(lb) G20 | Lube wf lb | A               | B     | C    | D     | E     | J    | Gap  |
| 1010G | 16                               | 10,080                | 8,000           | 1,875       | 50          | 10              | .09        | 4.56            | 3.50  | 1.69 | 2.70  | 3.30  | 1.53 | .125 |
| 1015G | 33                               | 20,790                | 6,500           | 2,375       | 75          | 20              | .16        | 6.00            | 4.00  | 1.94 | 3.40  | 4.14  | 1.88 | .125 |
| 1020G | 60                               | 37,800                | 5,600           | 2,875       | 1.00        | 35              | .25        | 7.00            | 5.00  | 2.44 | 4.14  | 4.98  | 2.34 | .125 |
| 1025G | 105                              | 66,150                | 5,000           | 3,625       | 1.25        | 65              | .50        | 8.38            | 6.25  | 3.03 | 5.14  | 6.10  | 2.82 | .188 |
| 1030G | 170                              | 107,100               | 4,400           | 4,125       | 1.50        | 95              | .80        | 9.44            | 7.37  | 3.59 | 6.00  | 7.10  | 3.30 | .188 |
| 1035G | 260                              | 163,800               | 3,900           | 4,875       | 2.00        | 150             | 1.20       | 11.00           | 8.63  | 4.19 | 7.00  | 8.32  | 3.84 | .250 |
| 1040G | 430                              | 270,900               | 3,600           | 5,750       | 2.50        | 215             | 2.00       | 12.50           | 9.75  | 4.75 | 8.25  | 9.66  | 4.38 | .250 |
| 1045G | 590                              | 371,700               | 3,200           | 6,750       | 3.00        | 300             | 2.30       | 13.62           | 10.93 | 5.31 | 9.25  | 10.79 | 4.84 | .312 |
| 1050G | 795                              | 500,900               | 2,900           | 7,375       | 3.50        | 420             | 3.90       | 15.31           | 12.37 | 6.03 | 10.00 | 12.04 | 5.54 | .312 |
| 1055G | 1,040                            | 655,200               | 2,650           | 8,250       | 4.00        | 550             | 4.90       | 16.75           | 13.56 | 6.62 | 11.00 | 13.16 | 6.22 | .312 |
| 1060G | 1,270                            | 800,100               | 2,450           | 9,125       | 4.50        | 675             | 7.00       | 18.00           | 15.13 | 7.41 | 12.00 | 14.41 | 6.66 | .312 |
| 1070G | 1,900                            | 1,197,000             | 2,150           | 10,875      | 5.00        | 1070            | 9.60       | 20.75           | 17.75 | 8.69 | 14.00 | 16.73 | 7.70 | .375 |

| Size  | Type G20 Standard Flanged Sleeve |             |                 |             |             |                 |            | Dimension(inch) |       |       |       |       |       |      |
|-------|----------------------------------|-------------|-----------------|-------------|-------------|-----------------|------------|-----------------|-------|-------|-------|-------|-------|------|
|       | Torque Rating lb-in (millions)   |             | Allow Speed rpm | Max bore da | Min bore da | Cplg Wt(lb) G20 | Lube wf lb | A               | B     | C     | D     | J     | K     | Gap  |
|       | 1000 Series                      | 2000 Series |                 |             |             |                 |            |                 |       |       |       |       |       |      |
| 1080G | 1,506                            | 2,070       | 1,750           | 10.50       | 4.000       | 1150            | 21         | 23.25           | 20.02 | 9.82  | 14.00 | 9.56  | 22.50 | .375 |
| 1090G | 1,997                            | 2,791       | 1,550           | 11.25       | 4.500       | 2170            | 27         | 26.00           | 22.26 | 10.88 | 15.50 | 10.44 | 25.25 | .500 |
| 1100G | 2,747                            | 3,919       | 1,450           | 12.75       | 5.000       | 2870            | 33         | 28.00           | 24.50 | 12.00 | 17.50 | 11.56 | 27.50 | .500 |
| 1110G | 3,654                            | 5,393       | 1,330           | 14.00       | 5.500       | 3700            | 39         | 30.50           | 26.74 | 13.12 | 19.50 | 12.69 | 29.50 | .500 |
| 1120G | 4,914                            | 6,880       | 1,200           | 15.25       | 6.000       | 4660            | 46         | 33.00           | 28.26 | 13.88 | 21.50 | 13.44 | 32.50 | .500 |



## 1. Characteristic & Merits

You can get more favourable convenience and count down by using KCP Taper Grip Steel Flexible Coupling

### - Parallel Misalignment

The movement of the grid in the lubricated grooves accommodates parallel misalignment and permits full functioning of the grid-groove action in damping out shock and vibration.

### - Angular Misalignment

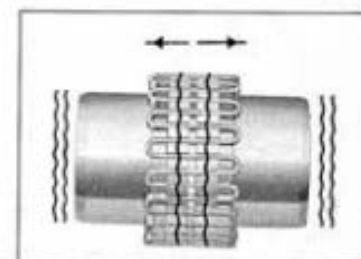
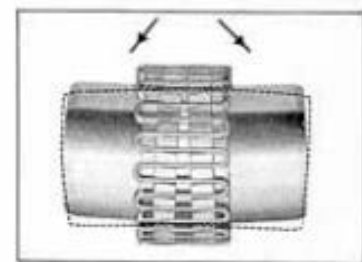
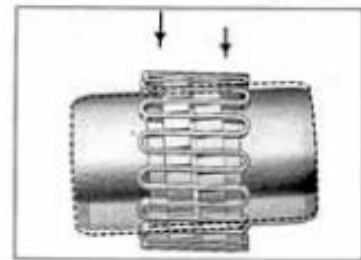
Under angular misalignment, the grid-groove design permits a rocking and sliding action of the lubricated grid and hubs without any loss of power through the resilient grid

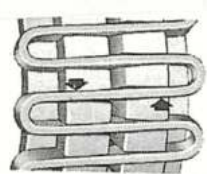
### - End Floating

Unrestrained end float of driving and driven members is permitted because the grid slides freely in the lubricated grooves

### - Torsional Flexibility

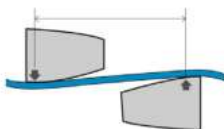
Torsional flexibility is the advantage of KCP Taper Grid Couplings, providing flexible accommodation to changing load conditions.





### 1. Grid in Light Load

The grid bears near the outer edges of the hub teeth. The long span between the points of contact remains flexible under load variations.



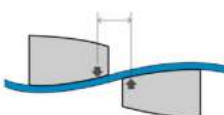
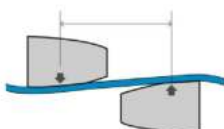
### 2. Grid in Normal Load

As the load increases, the distance between the contact points on the hub teeth is shortened, but a free span still remains flexible for shock loads.

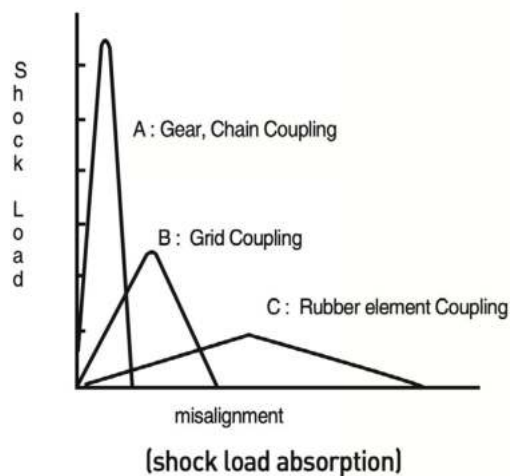
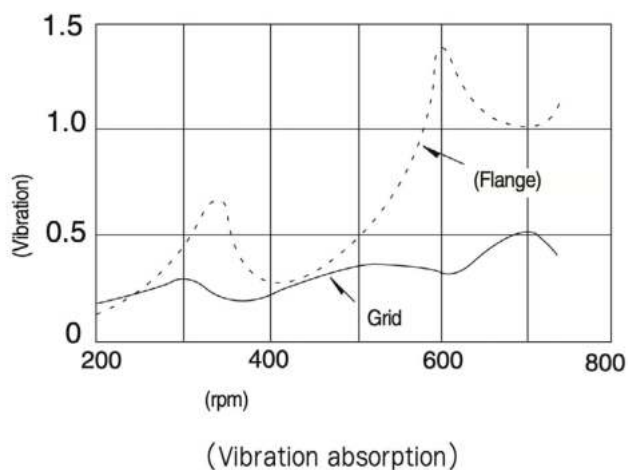


### 3. Grid in Shock Loads

The coupling is flexible within its rated power capacity. Under extreme overloads, the grid bears and transmits full load on the hub teeth directly.

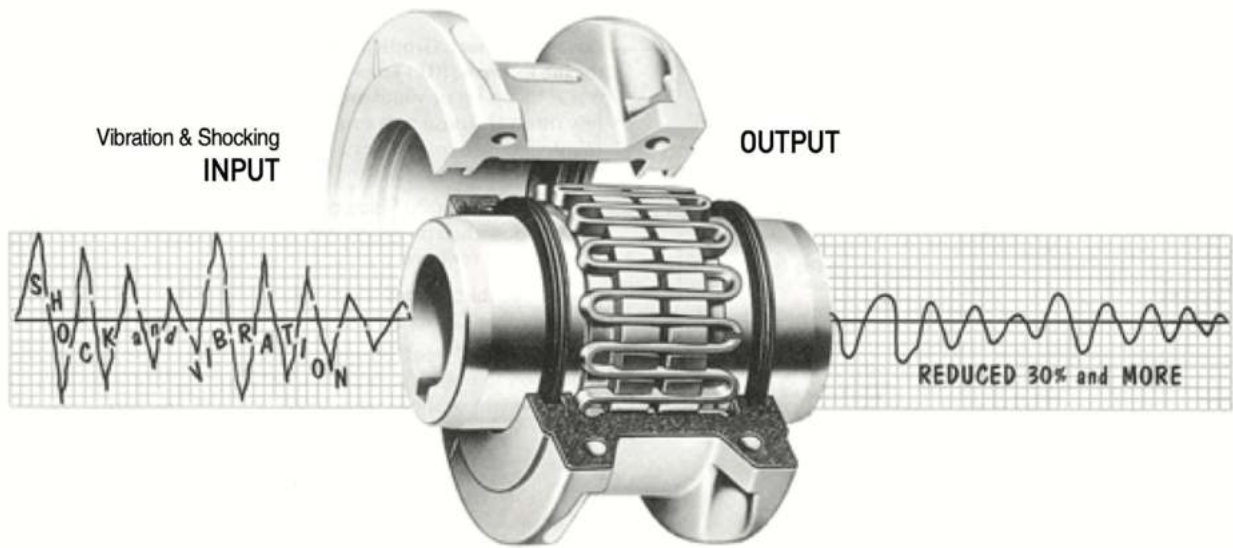


KCP Taper Grid coupling creates the excellent performance as shown below.





The absorption of mechanical vibration of Taper Grid coupling



## MERITS

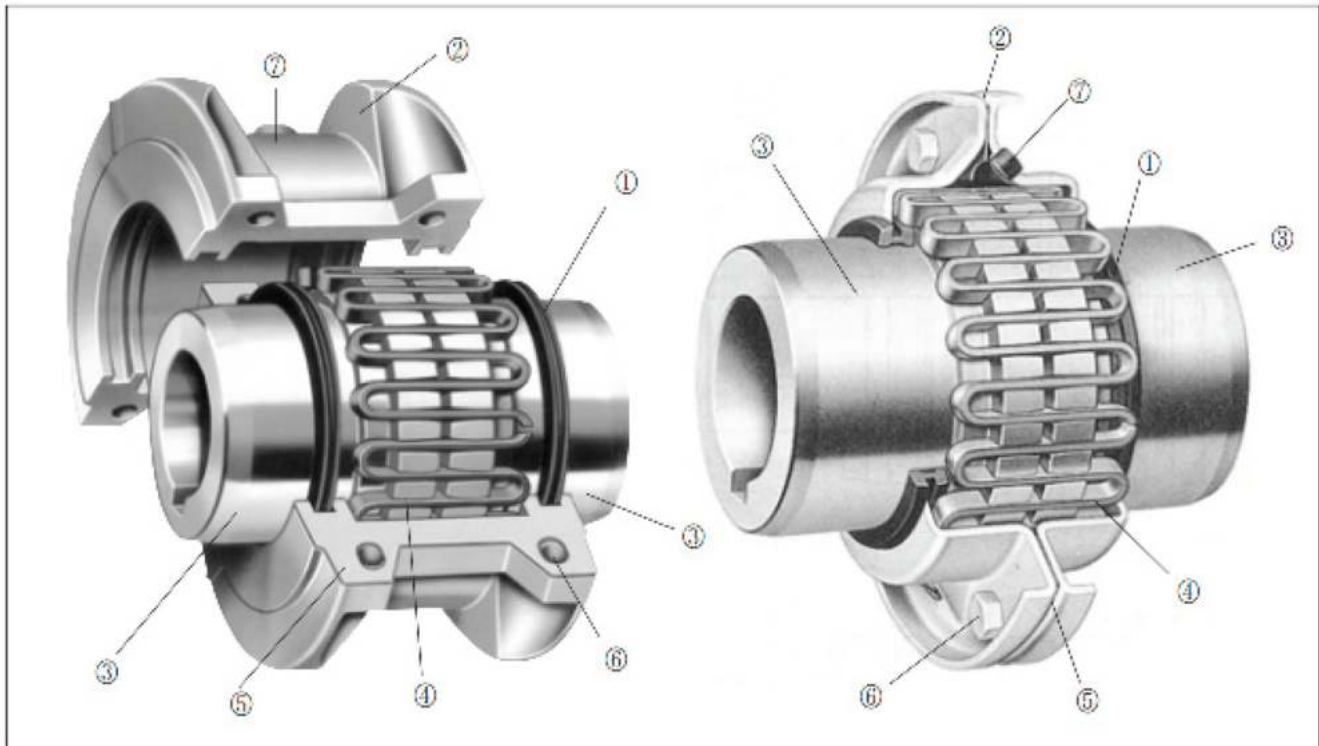
1. When overload occurs, grid breaks and prevents breaking shaft or machinery parts connected.
2. When the parallel misalignment is too severe, the relating machine is protected by the virtue of shearing Grid on Tooth.
3. The life of parts(Mechanical Seal and Bearing, etc) can be extended as twice or more.
- 4, Quick installation and easy maintenance reduce labor cost and down-time cost.
5. KCP Grid coupling is interchangeable with international major brands.
6. It always transmits the power fully(100%) in low noise.
7. You can use it at cheaper maintenance cost by changing damaged parts only.

## 2. Application

Pin-Bush Flange coupling and Chain Couplings have usually been used, but now using the KCP TAPER GRID COUPLINGS, you will get many benefits

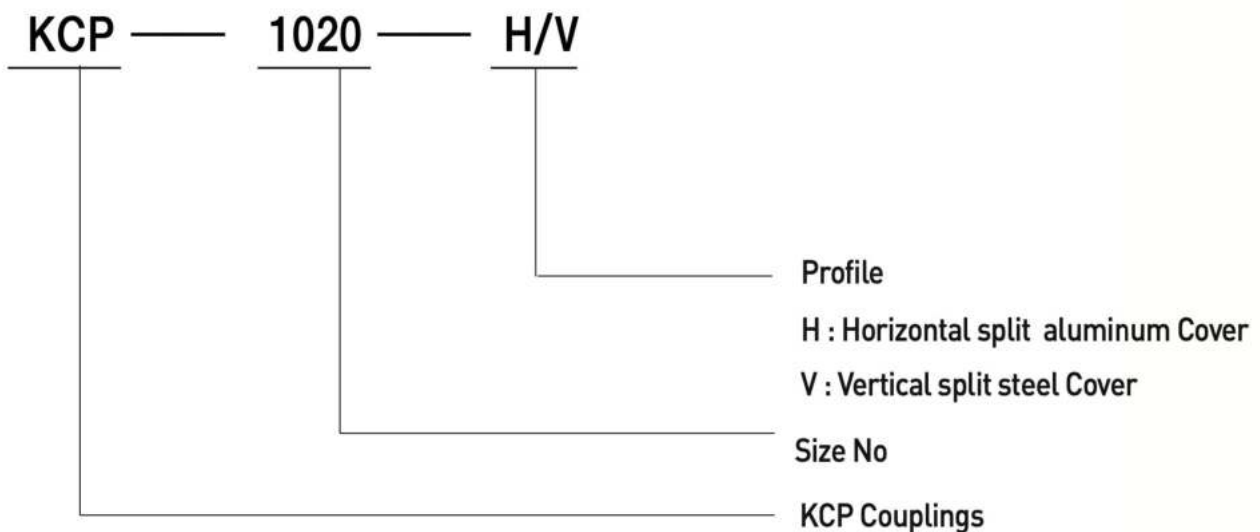
1. When reduction of vibration and shock load is required.
2. When adequate power transmission under line misalignment is required.
3. When adequate power transmission under angular misalignment is required.
4. When adequate power transmission under end floating is required.
5. When it is necessary to prevent machinery part breakage under overload.
6. When reverse revolution is required.
7. When a smooth start is required.

### 3. Structure



- |      |             |             |
|------|-------------|-------------|
| Part | 1. Oil Seal | 4. Grid     |
|      | 2. H-Cover  | 5. Gasket   |
|      | V-Cover     | 6. Bolt     |
|      | 3. Hub      | 7. Lub Plug |

### 4. Designation



- KSAS** : Full spacer type(Horizontal split cover)
- KSFS** : Half spacer type(Horizontal split cover)
- KSBW** : Brake wheel type(Horizontal split cover)

# Grid Couplings

## 5. Selection of Method

### 1. Selection of Method size

By using the following formula, obtain Design Torque required.

$$T = 97,400 \frac{\text{kw}}{N} \times \text{S.F} \quad T = 71,620 \frac{\text{HP}}{N} \times \text{S.F}$$

|            |   |                                    |
|------------|---|------------------------------------|
| <b>T</b>   | = | <b>Design torque(kg · cm)</b>      |
| <b>kw</b>  | = | <b>Power(kw)</b>                   |
| <b>HP</b>  | = | <b>Power(HP)</b>                   |
| <b>N</b>   | = | <b>Working revolution(rpm)</b>     |
| <b>S·F</b> | = | <b>Recommended service factor.</b> |

- Select the size with the same or with the greater value at the Basic Torque column, Refer to the maximum shaft diamers of the size selected, and then compare the shaft diameters of the application with the max. bore dia of the size selected. If the coupling bore is not suitable, select the larger size coupling.

- Special requirements

A. on calculating the torque required, use the lowest operating speed (N) of the application

B. If there are reverse motions repeated or frequent irregular kind changes, take service factor twice.

### 2.Example

When you select a COUPLING to connects 30HP, 1,1750rpm motor and rotary type pump. Motor shaft dia is 48mm and pump's 52mm.

- service factor of pump is 1.8

$$\text{Torque(kg · cm)} = \frac{30 \times 71.620 \times 1.8}{1.750} = 2.210$$

- Normal transmitting power is 30HP

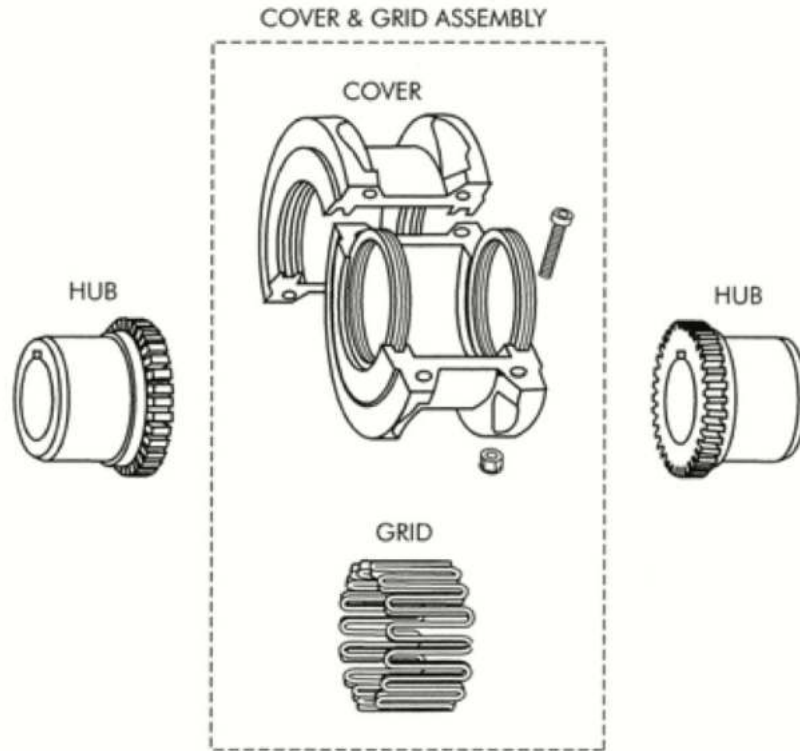
The coupling size 1040 accepts the calculated torque 2210 . And then compare the application shaft diameter sizes(52mm) to the maximum bore of the selected coupling size 1040(43 mm).

You will select the coupling size 1060 accepting upto 55mm shaft dia meter. The size also accepts the application motor speed 1750 rpm. Either H or V cover is available. Finally, the coupling size 1060 is selected.

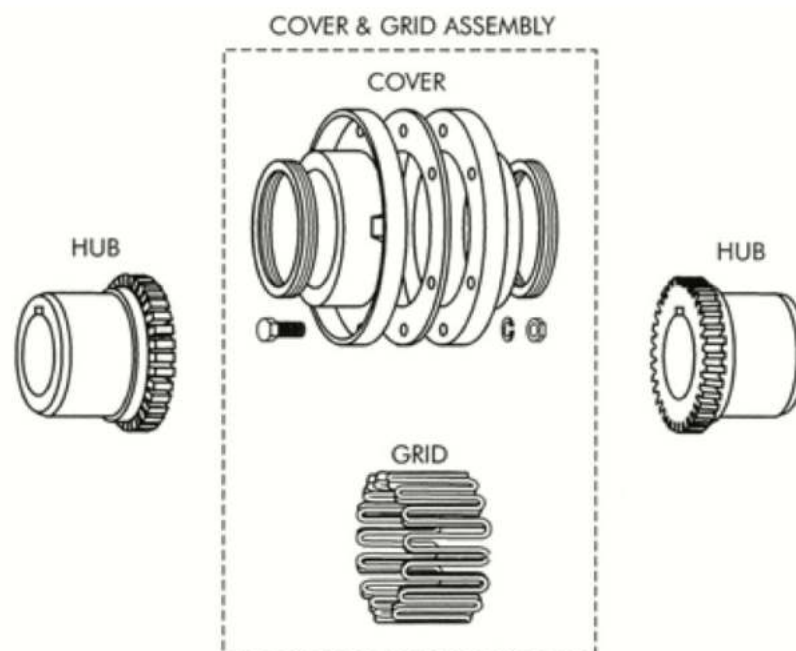
# Grid Couplings

## 6. Installation

### Type H



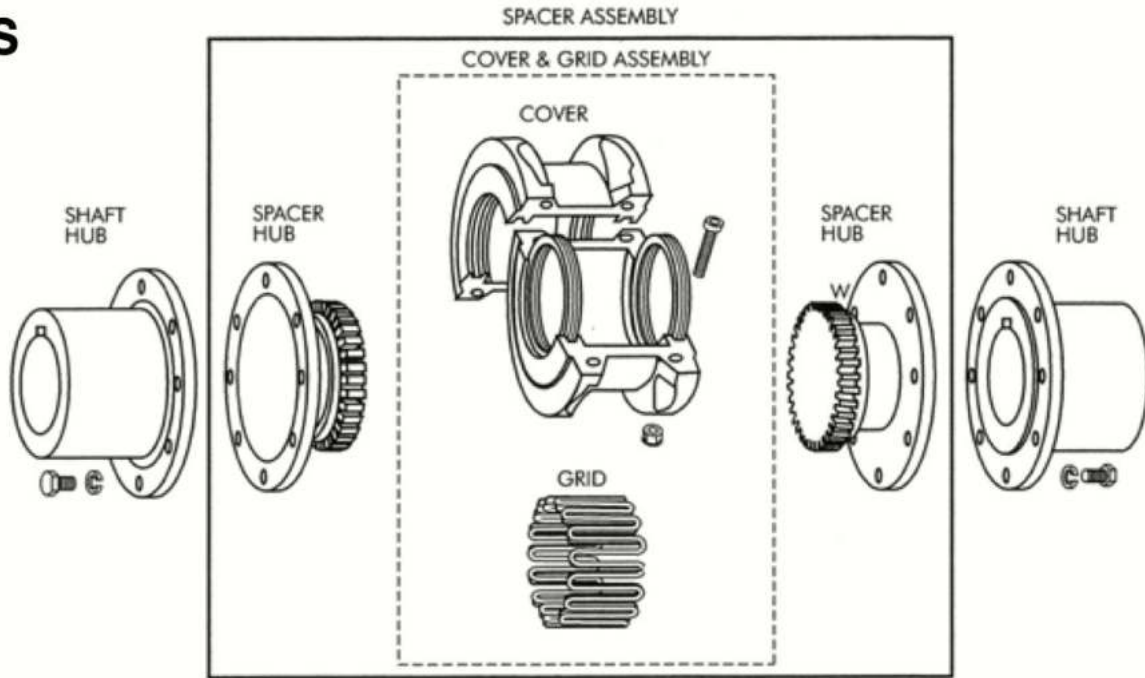
### Type V



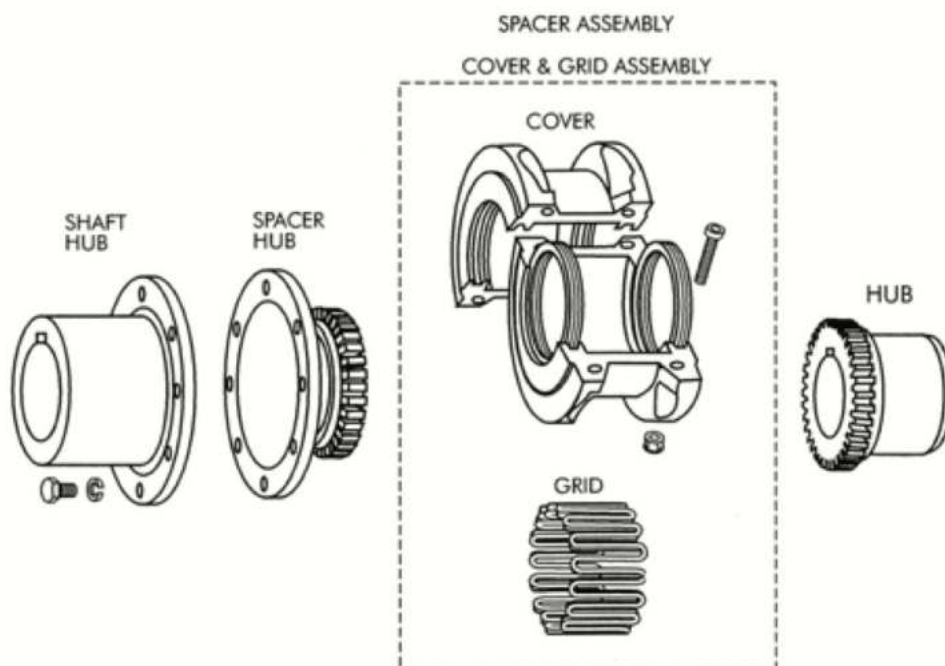
# Grid Couplings

## 7. Installation

### KSAS



### KSFS



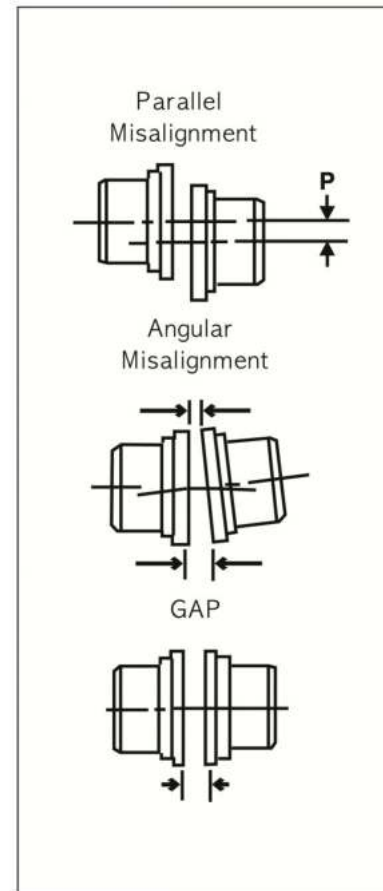
BOOK 3: COUPLINGS & SHAFT FIXINGS

COUPLINGS

fig. 3 misalignment capacity

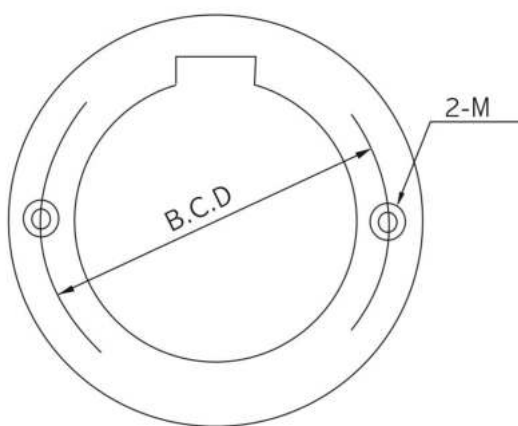
(Unit : mm)

| Size | Recommended installation |                      | Operating         |                     | Normal gap ±10% |
|------|--------------------------|----------------------|-------------------|---------------------|-----------------|
|      | Parallel offset p        | Angular(1/16°) X - Y | Parallel offset p | Angular(1/4°) X - Y |                 |
| 1020 | 0.15                     | 0.08                 | 0.3               | 0.25                | 3               |
| 1030 | 0.15                     | 0.08                 | 0.3               | 0.30                | 3               |
| 1040 | 0.15                     | 0.08                 | 0.3               | 0.33                | 3               |
| 1050 | 0.20                     | 0.10                 | 0.4               | 0.41                | 3               |
| 1060 | 0.20                     | 0.13                 | 0.4               | 0.46                | 3               |
| 1070 | 0.20                     | 0.13                 | 0.4               | 0.51                | 3               |
| 1080 | 0.20                     | 0.15                 | 0.4               | 0.61                | 3               |
| 1090 | 0.20                     | 0.18                 | 0.4               | 0.71                | 3               |
| 1100 | 0.25                     | 0.20                 | 0.5               | 0.84                | 5               |
| 1110 | 0.25                     | 0.23                 | 0.5               | 0.91                | 5               |
| 1120 | 0.28                     | 0.25                 | 0.56              | 1.02                | 6               |
| 1130 | 0.28                     | 0.30                 | 0.56              | 1.19                | 6               |
| 1140 | 0.28                     | 0.33                 | 0.56              | 1.35                | 6               |
| 1150 | 0.30                     | 0.41                 | 0.6               | 1.57                | 6               |
| 1160 | 0.30                     | 0.46                 | 0.6               | 1.78                | 6               |
| 1170 | 0.30                     | 0.51                 | 0.6               | 2.01                | 6               |
| 1180 | 0.38                     | 0.56                 | 0.76              | 2.26                | 6               |
| 1190 | 0.38                     | 0.61                 | 0.76              | 2.46                | 6               |
| 1200 | 0.38                     | 0.69                 | 0.76              | 2.72                | 6               |



The life of coupling is reduced by excess of the limit.

### 8. Specification of Puller Holes



| CPLG Size | B.C.D. (mm) | Bolt Size | CPLG Size | B.C.D. (mm) | Bolt Size |
|-----------|-------------|-----------|-----------|-------------|-----------|
| 1070      | 74          | M8        | 1150      | 227.5       | M20       |
| 1080      | 89.5        | M8        | 1160      | 260         | M20       |
| 1090      | 106         | M10       | 1170      | 306         | M24       |
| 1100      | 121.5       | M10       | 1180      | 341         | M30       |
| 1110      | 136.5       | M10       | 1190      | 373         | M30       |
| 1120      | 150.5       | M12       | 1200      | 414         | M30       |
| 1130      | 185         | M16       | 1210      | 540         | M30       |
| 1140      | 205         | M16       | 1220      | 570         | M30       |

NB. Finer Power stocks up to 1150. larger sizes available on request

# Grid Couplings

## 9. Lubrication and Handing

Choose high quality lubricant for KCP Taper Grid Couplings for good performance and long life.

### 1. Grease Lubrication

Grease on the grid & hub teeth before assembling covers.  
Fill up grease through the lube plug of the assembled coupling.

### 2. Supplement

Add new grease every three months or 240-250 hours of operation

### 3. Replacement

Every 3 months, or every 4,000 hours operating you should replace all the deteriorated grease.

### 4. Selection

Choose grease according to the ambient temperature range in table 5.

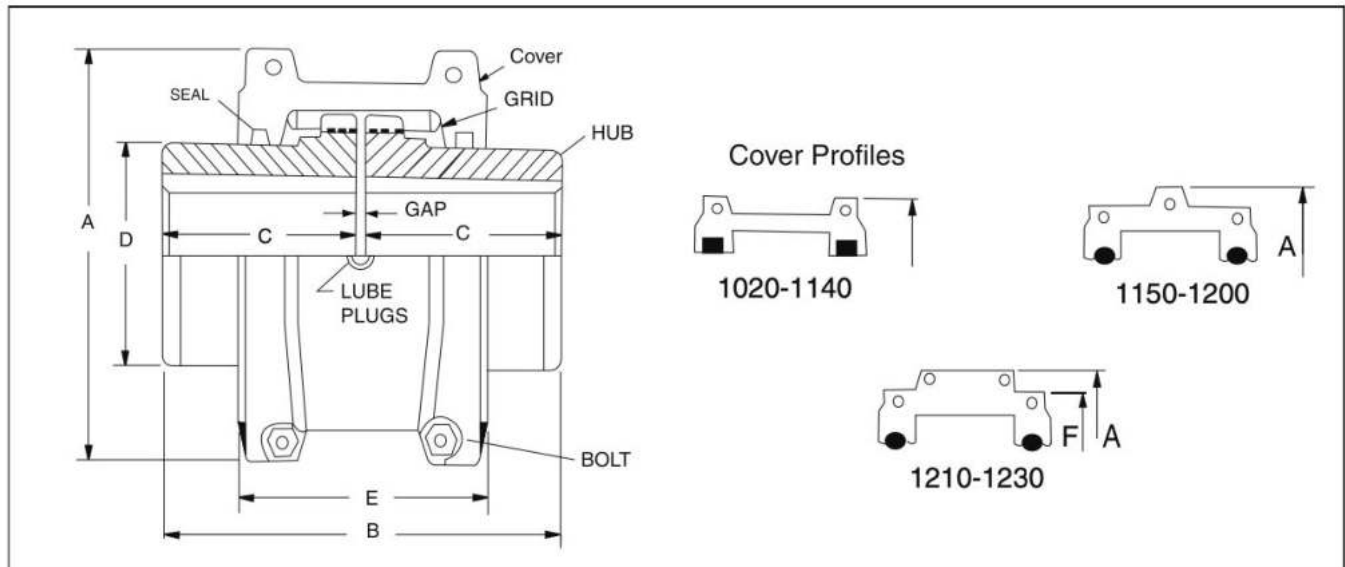
## ■ Common Industrial Lubricants(NYGL Grade #2)

**Table5**

| Manufacture             | Ambient Temperature Range:          |                                       |
|-------------------------|-------------------------------------|---------------------------------------|
|                         | 0° F to 150° F<br>(-18° C to 66° C) | -30° F to 100° F<br>(-34° C to 38° C) |
| Amoco Oil Co.           | Amolith Grease #2                   | Amolith Grease #2                     |
| Atlantic Richfield co.  | Litholene HEP 2                     | Litholene HEP 2                       |
| Chevron U.S.A Inc.      | Chevron Dura-Lith EP-2              | Chevron Dura-Lith EP-2                |
| Cities Service Co.      | Citgo HEP-2                         | Citgo HEP-2                           |
| Conoco Inc.             | EP Conolith #2                      | EP Conolith #2                        |
| Exxon Company, USA      | Ronex MP                            | Ronex MP                              |
| Gulf Oil Corp.          | Gulfcrown Grease #2                 | Gulfcrown Grease #2                   |
| E.F.Houghton & Co.      | Cosmolube #2                        | Cosmolube #1                          |
| Impenrial Oil Ltd.      | Esso MP Grease H                    | Lotemp EP                             |
| Keystone Div.(Pennwalt) | #81 Light                           | #84 Light                             |
| Mobil Oil Corp.         | Mobilux EP111                       | Mobilux #1                            |
| Phillips Petroleum Co.  | IB & RB grease                      | Philube IB & RB grease                |
| Shell Oil Co.           | Alvania Grease #2                   | Alvania Grease #2                     |
| Standard Oil Co.(OH)    | Factran #2                          | Factran #2                            |
| Sun Oil Company         | Prestige 42                         | Prestige 42                           |
| Texaco Lubricants       | Starplex HD 2                       | Multifac EP2                          |
| Union Oil Co.(CA)       | Union Undoba #2                     | Union Undoba #2                       |
| Valvoline Oil Co.       | Val-Lith EP #2                      | Val-Lith EP #2                        |

■ Note: For feed processing in dustry, check with lube manufacture for approved lubricants.

## 10. Dimensions



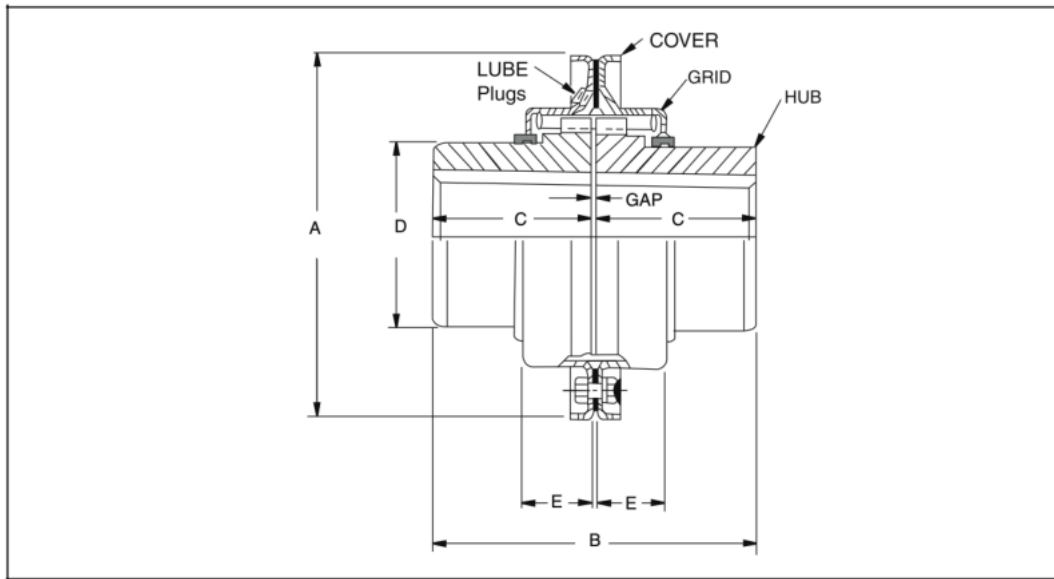
Type H (Horizontal Split Aluminium Cover)

| Size  | HP Per 100 rpm | Max. Speed (rpm) | Basic Torque (kg · cm) | Bore Dia (mm) |       | Dimension (mm) |       |       |       |       | Gap (mm) |        |      | Cplg Wt (kg) | Lube Wt (kg) | Size |
|-------|----------------|------------------|------------------------|---------------|-------|----------------|-------|-------|-------|-------|----------|--------|------|--------------|--------------|------|
|       |                |                  |                        | Max.          | Min.  | A              | B     | C     | D     | E     | Min.     | Normal | Max. |              |              |      |
| 1020H | 0.68           | 4,500            | 486                    | 30            | 00012 | 101.6          | 098.0 | 047.5 | 039.7 | 066.5 | 1.5      | 3      | 4.5  | 1.9          | 0.03         | 1020 |
| 1030H | 1.93           | 4,500            | 1,383                  | 35            | 00012 | 110.0          | 098.0 | 047.5 | 049.2 | 068.3 | 1.5      | 3      | 4.5  | 2.6          | 0.03         | 1030 |
| 1040H | 3.22           | 4,500            | 2,304                  | 43            | 00012 | 117.5          | 104.6 | 050.8 | 057.1 | 070.0 | 1.5      | 3      | 4.5  | 3.4          | 0.05         | 1040 |
| 1050H | 5.63           | 4,500            | 4,033                  | 50            | 00012 | 138.0          | 123.6 | 060.3 | 066.7 | 079.5 | 1.5      | 3      | 4.5  | 5.4          | 0.05         | 1050 |
| 1060H | 8.85           | 4,350            | 6,337                  | 55            | 00019 | 150.5          | 130.0 | 063.5 | 076.2 | 092.0 | 1.5      | 3      | 4.5  | 7.3          | 0.09         | 1060 |
| 1070H | 13             | 4,125            | 9,217                  | 65            | 00019 | 161.9          | 155.4 | 076.2 | 087.3 | 095.0 | 1.5      | 3      | 4.5  | 10           | 0.11         | 1070 |
| 1080H | 27             | 3,600            | 19,010                 | 78            | 027.0 | 194.0          | 180.8 | 088.9 | 104.8 | 116.0 | 1.5      | 3      | 4.5  | 18           | 0.17         | 1080 |
| 1090H | 48             | 3,600            | 34,564                 | 95            | 027.0 | 213.0          | 199.8 | 098.4 | 123.8 | 122.0 | 1.5      | 3      | 6    | 25           | 0.25         | 1090 |
| 1100H | 81             | 2,400            | 58,183                 | 107           | 00041 | 250.0          | 245.7 | 120.6 | 142.0 | 155.5 | 1.5      | 3      | 6    | 42           | 0.43         | 1100 |
| 1110H | 121            | 2,250            | 86,411                 | 117           | 00041 | 270.0          | 258.5 | 127.0 | 160.3 | 161.5 | 1.5      | 4.5    | 9.5  | 54           | 0.51         | 1110 |
| 1120H | 177            | 2,025            | 126,736                | 136           | 00060 | 308.0          | 304.4 | 149.2 | 179.4 | 191.5 | 1.5      | 4.5    | 9.5  | 81           | 0.73         | 1120 |
| 1130H | 257            | 1,800            | 184,343                | 165           | 00067 | 346.0          | 329.8 | 161.9 | 217.5 | 195.0 | 1.5      | 6      | 12.5 | 121          | 0.91         | 1130 |
| 1140H | 370            | 1,650            | 264,993                | 184           | 00067 | 384.0          | 371.6 | 182.8 | 254.0 | 201.0 | 1.5      | 6      | 12.5 | 178          | 1.13         | 1140 |
| 1150H | 515            | 1,500            | 368,686                | 203           | 00108 | 453.1          | 371.8 | 182.9 | 269.2 | 271.3 | 1.5      | 6      | 12.5 | 234          | 1.95         | 1150 |
| 1160H | 724            | 1,350            | 518,465                | 228           | 120.7 | 501.4          | 402.2 | 198.1 | 304.8 | 278.9 | 1.5      | 6      | 12.5 | 317          | 2.81         | 1160 |
| 1170H | 965            | 1,225            | 691,286                | 279           | 133.4 | 566.4          | 437.8 | 215.9 | 355.6 | 304.3 | 1.5      | 6      | 12.5 | 448          | 3.49         | 1170 |
| 1180H | 1,338          | 1,100            | 958,584                | 311           | 152.4 | 629.9          | 483.6 | 238.8 | 393.7 | 321.1 | 1.5      | 6      | 12.5 | 619          | 3.76         | 1180 |
| 1190H | 1,770          | 1,050            | 1,267,358              | 339           | 152.4 | 675.6          | 524.2 | 259.1 | 436.9 | 325.1 | 1.5      | 6      | 12.5 | 776          | 4.40         | 1190 |
| 1200H | 2,413          | 900              | 1,728,216              | 361           | 177.8 | 756.9          | 564.8 | 279.4 | 497.8 | 355.6 | 1.5      | 6      | 12.5 | 1,057        | 5.62         | 1200 |
| 1210H | 3,230          | 820              | 2,304,288              | 366           | 177.8 | 844.5          | 622.3 | 304.8 | 533.4 | 431.8 | 3.0      | 13     | 24.0 | 1,424        | 10.50        | 1210 |
| 1220H | 4,350          | 730              | 3,110,788              | 411           | 203.2 | 820.7          | 622.9 | 325.0 | 571.5 | 490.2 | 3.0      | 13     | 24.0 | 1,784        | 16.05        | 1220 |
| 1230H | 5,640          | 680              | 4,438,775              | 450           | 250.0 | 1,003.3        | 703.8 | 345.4 | 609.6 | 546.1 | 3.0      | 13     | 24.0 | 2,267        | 24.00        | 1230 |

■ Coupling weight, with unbored hub assembly.

NB. Finer Power stocks up to 1150. Larger sizes available on request.





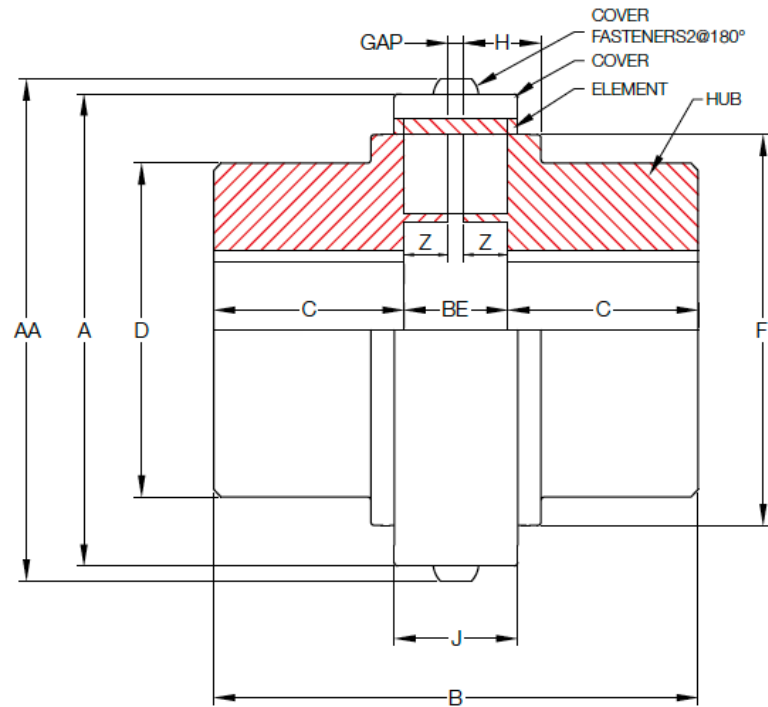
Type V (Vertical Split Steel Cover)

| Size | HP Per 100 rpm | Max. Speed (rpm) | Basic Torque (kg · cm) | Bore Dia (mm) |       | Dimensions (mm) |       |       |       |       | Gap (mm) |        |      | Cplg Wt (kg) | Lub Wt (kg) | Size |
|------|----------------|------------------|------------------------|---------------|-------|-----------------|-------|-------|-------|-------|----------|--------|------|--------------|-------------|------|
|      |                |                  |                        | Max.          | Min.  | A               | B     | C     | D     | E     | Min.     | Normal | Max. |              |             |      |
| 1020 | 0.68           | 6,000            | 486                    | 30            | 012.7 | 111.1           | 098.0 | 047.5 | 039.7 | 024.2 | 1.5      | 3      | 4.5  | 2.0          | 0.03        | 1020 |
| 1030 | 1.93           | 6,000            | 1,383                  | 36            | 012.7 | 120.7           | 098.0 | 047.5 | 049.2 | 025.0 | 1.5      | 3      | 4.5  | 2.6          | 0.03        | 1030 |
| 1040 | 3.22           | 6,000            | 2,304                  | 44            | 012.7 | 128.5           | 104.6 | 050.8 | 057.1 | 025.7 | 1.5      | 3      | 4.5  | 3.4          | 0.05        | 1040 |
| 1050 | 5.63           | 6,000            | 4,033                  | 50            | 012.7 | 147.6           | 123.6 | 060.3 | 066.7 | 031.2 | 1.5      | 3      | 4.5  | 5.4          | 0.05        | 1050 |
| 1060 | 8.85           | 6,000            | 6,337                  | 57            | 019.1 | 162.0           | 130.0 | 063.5 | 076.2 | 032.2 | 1.5      | 3      | 4.5  | 7.3          | 0.09        | 1060 |
| 1070 | 13             | 5,500            | 9,217                  | 65            | 019.1 | 173.0           | 155.4 | 076.2 | 087.3 | 033.7 | 1.5      | 3      | 4.5  | 10.4         | 0.11        | 1070 |
| 1080 | 27             | 4,750            | 19,010                 | 79            | 027.0 | 200.0           | 180.8 | 088.9 | 104.8 | 044.2 | 1.5      | 3      | 4.5  | 17.7         | 0.17        | 1080 |
| 1090 | 48             | 4,000            | 34,564                 | 95            | 027.0 | 231.8           | 199.8 | 098.4 | 123.8 | 047.7 | 1.5      | 3      | 6    | 25.4         | 0.25        | 1090 |
| 1100 | 81             | 3,250            | 58,183                 | 107           | 041.3 | 266.7           | 245.7 | 120.6 | 142.0 | 060.0 | 1.5      | 3      | 6    | 42.2         | 0.43        | 1100 |
| 1110 | 121            | 3,000            | 86,411                 | 117           | 041.3 | 285.8           | 258.5 | 127.0 | 160.3 | 064.2 | 1.5      | 4.5    | 12.5 | 54.4         | 0.51        | 1110 |
| 1120 | 177            | 2,700            | 126,736                | 136           | 060.3 | 319.0           | 304.4 | 149.2 | 179.4 | 073.4 | 1.5      | 4.5    | 12.5 | 81.6         | 0.73        | 1120 |
| 1130 | 257            | 2,400            | 184,343                | 165           | 066.7 | 377.8           | 329.8 | 161.9 | 217.5 | 075.1 | 1.5      | 6      | 12.5 | 122.5        | 0.91        | 1130 |
| 1140 | 370            | 2,200            | 264,993                | 184           | 066.7 | 416.0           | 371.6 | 182.8 | 254.0 | 078.2 | 1.5      | 6      | 12.5 | 180.1        | 1.13        | 1140 |
| 1150 | 515            | 2,000            | 368,686                | 203           | 108.0 | 476.3           | 371.8 | 182.9 | 269.2 | 106.9 | 1.5      | 6      | 12.5 | 230.0        | 1.95        | 1150 |
| 1160 | 724            | 1,750            | 518,465                | 228           | 120.7 | 533.4           | 402.2 | 198.1 | 304.8 | 114.3 | 1.5      | 6      | 12.5 | 321.1        | 2.81        | 1160 |
| 1170 | 965            | 1,600            | 691,286                | 279           | 133.4 | 584.2           | 437.8 | 215.9 | 355.6 | 119.4 | 1.5      | 6      | 12.5 | 448.2        | 3.49        | 1170 |
| 1180 | 1,338          | 1,400            | 958,584                | 311           | 152.4 | 630.0           | 483.6 | 238.8 | 393.7 | 130.0 | 1.5      | 6      | 12.5 | 591.0        | 3.76        | 1180 |
| 1190 | 1,770          | 1,300            | 1,267,358              | 339           | 152.4 | 685.0           | 524.2 | 259.1 | 436.9 | 135.0 | 1.5      | 6      | 12.5 | 761.0        | 4.40        | 1190 |
| 1200 | 2,413          | 1,100            | 1,728,216              | 361           | 177.8 | 737.0           | 564.8 | 279.4 | 497.8 | 145.0 | 1.5      | 6      | 12.5 | 1,021.0      | 5.62        | 1200 |

\* Coupling weight without Bore machining

# KW Flex Couplings

## KW10 Type



| Size | Torque Rating (Nm) | Allow Speed PRM | Max Bore (mm) | Min Bore (mm) | Cplg Wt (Kg) |             | 6Dimensions (mm) |       |       |       |       |      |       |       |       |      |      |      |     | Cover Fasteners |              |
|------|--------------------|-----------------|---------------|---------------|--------------|-------------|------------------|-------|-------|-------|-------|------|-------|-------|-------|------|------|------|-----|-----------------|--------------|
|      |                    |                 |               |               | Nylon Cover  | Steel Cover | A                |       | AA    |       | B     | BE   | C     | D     | F     | H    | J    | Z    | GAP | Size            | Allen Wrench |
|      |                    |                 |               |               |              |             | Nylon            | Steel | Nylon | Steel |       |      |       |       |       |      |      |      |     |                 |              |
| 5    | 62                 | 4500            | 38            | 12.7          | 1.35         | 1.49        | 76.5             | 76.5  | 80.5  | 80.4  | 71.9  | 19.8 | 25.9  | 59.9  | 64    | 15.0 | 23.1 | 8.9  | 2   | M4              | M2.5         |
| 10   | 130                | 4500            | 48            | 15.88         | 2.49         | 2.72        | 90.4             | 90.4  | 94.5  | 94.4  | 91.9  | 23.9 | 34.0  | 72.1  | 75.9  | 19.1 | 27.9 | 10.9 | 2   | M4              | M2.5         |
| 20   | 316                | 4500            | 60            | 19.05         | 5.64         | 6.09        | 126.0            | 124.0 | 132.0 | 130.0 | 121.9 | 32.0 | 45.0  | 91.9  | 102.1 | 24.9 | 37.1 | 15.0 | 2   | M6              | M4           |
| 30   | 520                | 4500            | 65            | 25.40         | 9.41         | 10.00       | 146.6            | 143.0 | 153.0 | 149.0 | 151.9 | 36.1 | 57.9  | 104.9 | 118.1 | 29.0 | 41.9 | 17.0 | 2   | M6              | M4           |
| 40   | 1028               | 3600            | 85            | 28.58         | 17.10        | 18.10       | 182.1            | 177.0 | 190.0 | 185.0 | 181.1 | 47.0 | 67.1  | 130.0 | 150.1 | 34.0 | 54.6 | 21.1 | 5   | M8              | M5           |
| 50   | 2508               | 3000            | 105           | 31.75         | 35.80        | 37.70       | 230.9            | 224.0 | 239.0 | 232.0 | 214.9 | 60.7 | 77.0  | 178.1 | 190   | 46.0 | 69.6 | 27.9 | 5   | M8              | M5           |
| 60   | 4011               | 2500            | 135           | 50.80         | -            | 66.40       | -                | 267.0 | -     | 278.0 | 275.3 | 75.4 | 100.1 | 209.6 | 228.1 | 60.2 | 67.1 | 35.3 | 5   | M10             | M6           |



# Couplings Comparison Chart

| Selection Criterion                              | Rigid        | Chain        | Gear          | Taper Grid   | Curved Tooth Gear | HRC                    | Jaw                            | Flexible Jaw     | Flexible Pin Couplings | Curved Jaw (Rotex)     | Cone Ring             | Tyre         | Max Dynamic           |
|--|--------------|--------------|---------------|--------------|-------------------|------------------------|--------------------------------|------------------|------------------------|------------------------|-----------------------|--------------|-----------------------|
| Torque Range (Nm)                                | Up to 11300  | 217-8786     | 1138-135242   | 47-25980     | 18-160            | 31-3150                | 3.5-280                        | 12.74-470        | 19000-360000           | 10-3600                | 50-15140              | 24-3770      | 21-19230              |
| Speed Capability                                 | Fair         | Good         | Excellent     | Excellent    | Fair              | Good                   | Good                           | EXCELLENT        | GOOD                   | Excellent              | Fair                  | Good         | Excellent             |
| Shaft Size Range - mm                            | 11mm-125mm   | 14mm-110mm   | 13mm-255mm    | 12mm-184mm   | 8mm-41mm          | 25mm-90mm              | 14mm-60mm                      | 7MM - 55MM       | 19-60                  | 6mm-100mm              | 12mm-150mm            | 10mm-75mm    | 35mm-124mm            |
| Bore Types                                       | Taperlock    | Pilotbore    | Pilotbore     | Pilotbore    | Pilotbore         | Taperlock & Pilot-bore | Pilotbore + Bore & Keyed Range | PILOT BORE       | PILOT BORE             | Taperlock & Pilot-bore | Taperlock & Pilotbore | Taperlock    | Pilotbore & Taperlock |
| Misalignment Capability (Maximum Angular - Deg.) | 0            | 1            | 1.5           | 0.25         | 3-5               | 0.2-1.7                | 1                              | 1                | .15-.10                | 0.8-1.2                | 0.2-1.7               | 4            | 4                     |
| Temperature Range Standard Element               | -10C to +60C | -10C to +60C | -40C to +100C | -18C to +70C | -25C to +66C      | -40C to +100C          | -40C to +100C                  | "-40C TO + 100C" | "-40C TO + 80C"        | -4C to +120C           | Up to +70C            | -50C to +50C | Up to +120C           |
| Ease of Installation                             | Easy         | Easy         | Fair          | Fair         | Easy              | Easy                   | Easy                           | EASY             | FAIR                   | Easy                   | Easy                  | Fair         | Fair                  |
| Damping Capacity                                 | Poor         | Fair         | Poor          | Fair         | Poor              | Good                   | Good                           | EXCELLENT        | GOOD                   | Good                   | Good                  | Excellent    | Excellent             |

### BARE ESSENTIALS CHECKLIST FOR DRIVE SELECTION:

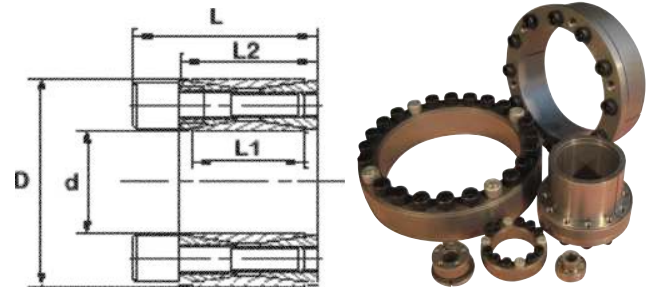
| COUPLING SELECTION  |
|---|
| Power (kw or Hp)  |
| Speed (RPM)   |
| Shaft Sizes   |
| Once you have this information you can contact the team at Finer Power Transmission to help you select the appropriate drive. |

### CONVERSION CONSTANTS

| Length  |
|---|
| Millimetres x 0.039370 = inches                         |
| Metres x 39.370 = inches                                |
| Metres x 3.2808 = Feet                                  |
| Kilometres x 0.6213 = Miles                             |
| Inches x 25.4001 = Millimetres                          |
| Inches x 0.0254 = Metres                                |
| Feet x 0.30480 = Metres                                 |
| Miles x 1.61 = Kilometres                               |
| Power   |
| Kilowatt (kw) x 1.340 = horse power (hp)                |
| Horse Power (hp) x 0.746 = kilowatt (kw)                |
| Torque  |
| Newton metre (Nm) x 0.735 = Pounds feet (lb ft)         |
| Newton metre (Nm) x 8.85 = Pounds inches (lb in)        |
| Kilogram force metre (kgf m) x 9.81 = Newton metre (Nm) |
| Weight  |
| Kilogram (kg) x 2.20462 = Pound (lb)                    |
| Metric Ton (1000kg) x 0.98421 = Ton (2240lb)            |

Locking Assemblies provide reliable, high strength keyless connections by converting locking screw clamp loads into radial contact pressures applied simultaneously to both the shaft and the bore of the mounted component. The resulting zero-backlash mechanical interference fit will accommodate high torque, thrust, bending and/or radial loads, and unlike other mounting technologies will never wear or pound out, even for high cycle fluctuating or reversing loads.

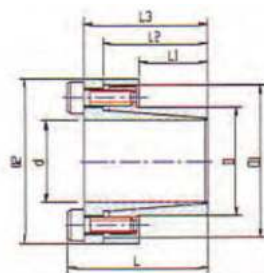
When the Locking Units bolts are tightened plates engage with both the shaft and the inside circumference of the driven component. The locking assembly distributes the applied pressure evenly. No



keyways or grubscrews are required with this device.

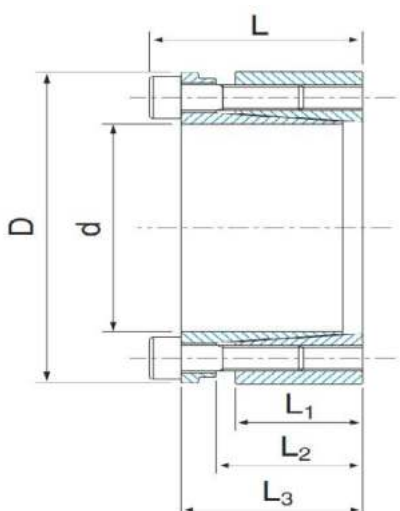
| Dimensions |     |    |    |    | Performance                  |                         | Pressure                     |                            | Clamping Screws DIN912-12.9 |        |                             |
|------------|-----|----|----|----|------------------------------|-------------------------|------------------------------|----------------------------|-----------------------------|--------|-----------------------------|
| d          | D   | L1 | L2 | L  | Transmissible Axial Force KN | Transmissible Torque Nm | Shaft Surface Pressure N/mm2 | Hub Surface Pressure N/mm2 | No.                         | Size   | Screws Tightening Torque Nm |
| 20         | 47  | 17 | 20 | 26 | 31                           | 313                     | 272                          | 116                        | 8                           | M6x18  | 14.9                        |
| 25         | 50  | 17 | 20 | 26 | 35                           | 441                     | 245                          | 123                        | 9                           | M6x18  | 14.9                        |
| 30         | 55  | 17 | 20 | 26 | 39                           | 588                     | 227                          | 124                        | 10                          | M6x18  | 14.9                        |
| 35         | 60  | 17 | 20 | 26 | 47                           | 822                     | 233                          | 136                        | 12                          | M6x18  | 14.9                        |
| 38         | 65  | 17 | 20 | 26 | 55                           | 1042                    | 250                          | 146                        | 14                          | M6x18  | 14.9                        |
| 40         | 65  | 17 | 20 | 26 | 55                           | 1097                    | 238                          | 146                        | 14                          | M6x18  | 14.9                        |
| 45         | 75  | 20 | 24 | 32 | 83                           | 1864                    | 271                          | 163                        | 12                          | M8x22  | 35                          |
| 48         | 80  | 20 | 24 | 32 | 83                           | 1988                    | 254                          | 153                        | 12                          | M8x22  | 35                          |
| 50         | 80  | 20 | 24 | 32 | 83                           | 2071                    | 244                          | 153                        | 12                          | M8x22  | 35                          |
| 55         | 85  | 20 | 24 | 32 | 97                           | 2658                    | 259                          | 168                        | 14                          | M8x22  | 35                          |
| 60         | 90  | 20 | 24 | 32 | 97                           | 2900                    | 238                          | 158                        | 14                          | M8x22  | 35                          |
| 65         | 95  | 20 | 24 | 32 | 110                          | 3587                    | 250                          | 171                        | 16                          | M8x22  | 35                          |
| 70         | 110 | 24 | 28 | 38 | 153                          | 5345                    | 268                          | 171                        | 14                          | M10x25 | 69                          |
| 75         | 115 | 24 | 28 | 38 | 153                          | 5727                    | 250                          | 163                        | 14                          | M10x25 | 69                          |
| 80         | 120 | 24 | 28 | 38 | 153                          | 6108                    | 235                          | 156                        | 14                          | M10x25 | 69                          |
| 85         | 125 | 24 | 28 | 38 | 175                          | 7417                    | 252                          | 172                        | 16                          | M10x25 | 69                          |
| 90         | 130 | 24 | 28 | 38 | 175                          | 7854                    | 238                          | 165                        | 16                          | M10x25 | 69                          |
| 95         | 135 | 24 | 28 | 38 | 196                          | 9326                    | 254                          | 179                        | 18                          | M10x25 | 69                          |
| 100        | 145 | 26 | 33 | 45 | 227                          | 11362                   | 258                          | 178                        | 14                          | M12x30 | 123.3                       |
| 110        | 155 | 26 | 33 | 45 | 227                          | 12498                   | 234                          | 166                        | 14                          | M12x30 | 123.3                       |
| 120        | 165 | 26 | 33 | 45 | 260                          | 15578                   | 245                          | 178                        | 16                          | M12x30 | 123.3                       |
| 130        | 180 | 34 | 38 | 50 | 325                          | 21095                   | 217                          | 156                        | 20                          | M12x35 | 123.3                       |
| 140        | 190 | 34 | 38 | 50 | 357                          | 24993                   | 221                          | 163                        | 22                          | M12x35 | 123.3                       |
| 150        | 200 | 34 | 38 | 50 | 390                          | 29217                   | 225                          | 169                        | 24                          | M12x35 | 123.3                       |
| 160        | 210 | 34 | 38 | 50 | 422                          | 33756                   | 229                          | 174                        | 26                          | M12x35 | 123.3                       |
| 170        | 225 | 38 | 44 | 58 | 465                          | 39483                   | 212                          | 160                        | 22                          | M14x40 | 187                         |
| 180        | 235 | 38 | 44 | 58 | 507                          | 45606                   | 218                          | 167                        | 24                          | M14x40 | 187                         |
| 190        | 250 | 46 | 52 | 66 | 591                          | 56163                   | 199                          | 152                        | 28                          | M14x45 | 187                         |
| 200        | 260 | 46 | 52 | 66 | 633                          | 63342                   | 203                          | 156                        | 30                          | M14x45 | 187                         |
| 210        | 275 | 0A | 0A | 0A | 0A                           | 0A                      | 0A                           | 0A                         | 0A                          | 0A     | 0A                          |
| 220        | 285 | 50 | 56 | 72 | 745                          | 81960                   | 200                          | 154                        | 26                          | M16X50 | 290                         |
| 240        | 305 | 50 | 56 | 72 | 860                          | 103162                  | 211                          | 166                        | 30                          | M16X50 | 290                         |
| 250        | 315 | 0A | 0A | 0A | 0A                           | 0A                      | 0A                           | 0A                         | 0A                          | 0A     | 0A                          |
| 260        | 325 | 50 | 56 | 72 | 974                          | 126669                  | 221                          | 177                        | 34                          | M16X50 | 290                         |
| 320        | 405 | 72 | 78 | 98 | 1651                         | 264108                  | 211                          | 167                        | 36                          | M20X70 | 580                         |

# Self Locking Units (Type-02) (Self Centering)



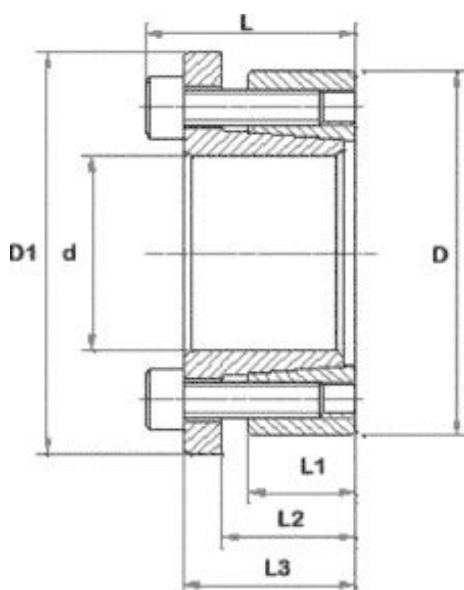
| Size |     |    |     |     |     |     |     | Passing Axis Pressure<br>Ft KN | Passing Torque<br>Mt Nm | Contracting Pressure        |                             | DIN912-12.9 Locking screw |       |                         |
|------|-----|----|-----|-----|-----|-----|-----|--------------------------------|-------------------------|-----------------------------|-----------------------------|---------------------------|-------|-------------------------|
| d    | D   | L1 | L2  | L3  | L   | D2  | D1  |                                |                         | Axis<br>P N/mm <sup>2</sup> | Hub<br>P1 N/mm <sup>2</sup> | Quantity                  | Size  | Locking Torque<br>Ts Nm |
| 8    | 15  | 12 | 21  | 24  | 28  | 28  | 25  | 10                             | 39                      | 299                         | 159                         | 4                         | M4x10 | 5.2                     |
| 9    | 16  | 14 | 23  | 27  | 31  | 32  | 28  | 10                             | 44                      | 227                         | 128                         | 4                         | M4x12 | 5.2                     |
| 10   | 16  | 14 | 23  | 27  | 31  | 32  | 28  | 10                             | 49                      | 205                         | 128                         | 4                         | M4x12 | 5.2                     |
| 11   | 18  | 14 | 23  | 27  | 31  | 34  | 30  | 10                             | 53                      | 186                         | 114                         | 4                         | M4x12 | 5.2                     |
| 12   | 18  | 14 | 23  | 27  | 31  | 34  | 30  | 10                             | 58                      | 171                         | 114                         | 4                         | M4x12 | 5.2                     |
| 13   | 23  | 14 | 26  | 27  | 31  | 38  |     | 10                             | 63                      | 144                         | 81                          | 4                         | M4x12 | 5.2                     |
| 14   | 23  | 14 | 23  | 27  | 31  | 39  | 35  | 10                             | 68                      | 146                         | 89                          | 4                         | M4x12 | 5.2                     |
| 15   | 24  | 16 | 29  | 36  | 42  | 45  | 40  | 16                             | 120                     | 196                         | 123                         | 3                         | M4x18 | 17                      |
| 16   | 24  | 16 | 29  | 36  | 42  | 45  | 40  | 16                             | 128                     | 184                         | 123                         | 3                         | M4x18 | 17                      |
| 17   | 26  | 18 | 31  | 38  | 44  | 45  |     | 21                             | 190                     | 197                         | 129                         | 4                         | M4x18 | 17                      |
| 18   | 26  | 18 | 31  | 38  | 44  | 47  | 42  | 21                             | 191                     | 194                         | 134                         | 4                         | M4x18 | 17                      |
| 19   | 27  | 18 | 31  | 38  | 44  | 48  | 43  | 21                             | 202                     | 183                         | 129                         | 4                         | M4x18 | 17                      |
| 20   | 28  | 18 | 31  | 38  | 44  | 49  | 44  | 21                             | 213                     | 174                         | 124                         | 4                         | M4x18 | 17                      |
| 22   | 32  | 25 | 38  | 45  | 51  | 54  | 48  | 21                             | 234                     | 114                         | 78                          | 4                         | M4x18 | 17                      |
| 24   | 34  | 25 | 38  | 45  | 51  | 56  | 50  | 21                             | 255                     | 105                         | 74                          | 4                         | M4x18 | 17                      |
| 25   | 34  | 25 | 38  | 45  | 51  | 56  | 50  | 21                             | 266                     | 100                         | 74                          | 4                         | M4x18 | 17                      |
| 28   | 39  | 25 | 38  | 45  | 51  | 61  | 55  | 27                             | 373                     | 112                         | 81                          | 5                         | M4x18 | 17                      |
| 30   | 41  | 25 | 38  | 45  | 51  | 63  | 57  | 32                             | 480                     | 126                         | 92                          | 6                         | M4x18 | 17                      |
| 32   | 43  | 30 | 43  | 50  | 56  | 65  | 59  | 32                             | 511                     | 98                          | 73                          | 6                         | M4x18 | 17                      |
| 35   | 47  | 30 | 43  | 50  | 56  | 69  | 63  | 43                             | 747                     | 120                         | 89                          | 8                         | M4x18 | 17                      |
| 38   | 50  | 30 | 43  | 50  | 56  | 72  | 66  | 43                             | 811                     | 110                         | 84                          | 8                         | M4x18 | 17                      |
| 40   | 53  | 32 | 45  | 52  | 58  | 75  | 69  | 48                             | 959                     | 110                         | 83                          | 9                         | M4x18 | 17                      |
| 42   | 55  | 32 | 45  | 52  | 58  | 77  | 71  | 48                             | 1007                    | 105                         | 80                          | 9                         | M4x18 | 17                      |
| 45   | 59  | 40 | 56  | 64  | 72  | 85  | 79  | 79                             | 1781                    | 130                         | 99                          | 8                         | M4x22 | 42                      |
| 48   | 62  | 40 | 56  | 64  | 72  | 88  | 82  | 79                             | 1900                    | 122                         | 94                          | 8                         | M4x22 | 42                      |
| 50   | 65  | 50 | 66  | 74  | 82  | 92  | 85  | 99                             | 2473                    | 117                         | 90                          | 10                        | M4x22 | 42                      |
| 55   | 71  | 50 | 66  | 74  | 82  | 98  | 91  | 99                             | 2721                    | 106                         | 82                          | 10                        | M4x22 | 42                      |
| 60   | 77  | 50 | 66  | 74  | 82  | 104 | 97  | 99                             | 2968                    | 97                          | 76                          | 10                        | M4x22 | 42                      |
| 65   | 84  | 50 | 66  | 74  | 82  | 111 | 104 | 99                             | 3215                    | 90                          | 69                          | 10                        | M4x22 | 42                      |
| 70   | 90  | 60 | 80  | 91  | 101 | 122 | 115 | 127                            | 4430                    | 89                          | 69                          | 8                         | M4x25 | 84                      |
| 75   | 95  | 60 | 80  | 91  | 101 | 126 | 119 | 142                            | 5338                    | 93                          | 74                          | 9                         | M4x25 | 84                      |
| 80   | 100 | 65 | 85  | 96  | 106 | 131 | 124 | 190                            | 7595                    | 108                         | 86                          | 12                        | M4x25 | 84                      |
| 85   | 106 | 65 | 85  | 96  | 106 | 137 | 130 | 190                            | 8069                    | 101                         | 81                          | 12                        | M4x25 | 84                      |
| 90   | 112 | 65 | 85  | 96  | 106 | 143 | 136 | 222                            | 9968                    | 112                         | 90                          | 14                        | M4x25 | 84                      |
| 95   | 120 | 65 | 85  | 96  | 106 | 153 | 144 | 222                            | 10522                   | 106                         | 84                          | 14                        | M4x25 | 84                      |
| 100  | 125 | 65 | 89  | 102 | 114 | 162 | 153 | 273                            | 13651                   | 124                         | 99                          | 12                        | M4x30 | 145                     |
| 110  | 140 | 70 | 94  | 107 | 119 | 177 | 168 | 273                            | 15016                   | 105                         | 82                          | 12                        | M4x30 | 145                     |
| 120  | 155 | 90 | 114 | 127 | 139 | 195 | 185 | 364                            | 21844                   | 99                          | 77                          | 16                        | M4x30 | 145                     |
| 130  | 165 | 90 | 114 | 127 | 139 | 205 | 195 | 364                            | 23664                   | 92                          | 72                          | 16                        | M4x30 | 145                     |
| 140  | 175 | 90 | 114 | 127 | 139 | 215 | 205 | 364                            | 25485                   | 85                          | 68                          | 16                        | M4x30 | 145                     |
| 150  | 185 | 90 | 114 | 127 | 139 | 225 | 215 | 364                            | 27305                   | 80                          | 64                          | 16                        | M4x30 | 145                     |

# Self Locking Units (Type-04) (Self Centering)



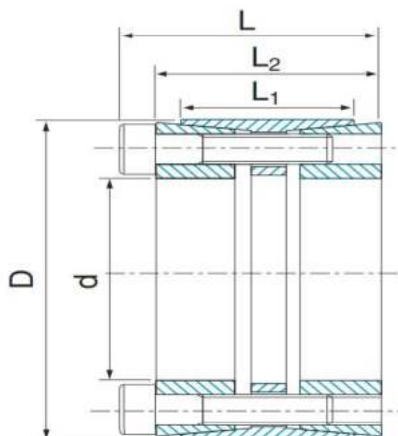
| Dimensions |     |    |    |    |    | Transmissible Torque Nm | Transmissible Axial Force KN | Pressure                                 |  | Clamping Screws DIN912-12.9 |        |                             |
|------------|-----|----|----|----|----|-------------------------|------------------------------|--|--|-----------------------------|--------|-----------------------------|
| d          | D   | L1 | L2 | L3 | L  |                         |                              | Shaft Surface Pressure N/mm <sup>2</sup> | Hub Surface Pressure N/mm <sup>2</sup> | No.                         | Size   | Screws Tightening Torque Nm |
| 19         | 47  | 26 | 31 | 39 | 45 | 307                     | 32                           | 193                                      | 78                                     | 4                           | M6x25  | 17                          |
| 20         | 47  | 26 | 31 | 39 | 45 | 323                     | 32                           | 183                                      | 78                                     | 4                           | M6x25  | 17                          |
| 22         | 47  | 26 | 31 | 39 | 45 | 355                     | 32                           | 166                                      | 78                                     | 4                           | M6x25  | 17                          |
| 24         | 50  | 26 | 31 | 39 | 45 | 582                     | 48                           | 229                                      | 110                                    | 6                           | M6x25  | 17                          |
| 25         | 50  | 26 | 31 | 39 | 45 | 606                     | 48                           | 220                                      | 110                                    | 6                           | M6x25  | 17                          |
| 28         | 55  | 26 | 31 | 39 | 45 | 679                     | 48                           | 196                                      | 100                                    | 6                           | M6x25  | 17                          |
| 30         | 55  | 26 | 31 | 39 | 45 | 727                     | 48                           | 183                                      | 100                                    | 6                           | M6x25  | 17                          |
| 32         | 60  | 26 | 31 | 39 | 45 | 1033                    | 65                           | 229                                      | 122                                    | 8                           | M6x25  | 17                          |
| 35         | 60  | 26 | 31 | 39 | 45 | 1130                    | 65                           | 209                                      | 122                                    | 8                           | M6x25  | 17                          |
| 38         | 65  | 26 | 31 | 39 | 45 | 1227                    | 65                           | 193                                      | 113                                    | 8                           | M6x25  | 17                          |
| 40         | 65  | 26 | 31 | 39 | 45 | 1292                    | 65                           | 183                                      | 113                                    | 6                           | M6x25  | 17                          |
| 42         | 75  | 30 | 36 | 47 | 47 | 1835                    | 87                           | 204                                      | 115                                    | 6                           | M8x30  | 41                          |
| 45         | 75  | 30 | 36 | 47 | 47 | 1966                    | 87                           | 191                                      | 115                                    | 6                           | M8x30  | 41                          |
| 48         | 80  | 30 | 36 | 47 | 47 | 2097                    | 87                           | 179                                      | 107                                    | 6                           | M8x30  | 41                          |
| 50         | 80  | 30 | 36 | 47 | 47 | 2184                    | 87                           | 172                                      | 107                                    | 6                           | M8x30  | 41                          |
| 55         | 85  | 30 | 36 | 47 | 47 | 3202                    | 116                          | 208                                      | 135                                    | 8                           | M8x30  | 41                          |
| 60         | 90  | 30 | 36 | 47 | 47 | 3493                    | 116                          | 191                                      | 127                                    | 8                           | M8x30  | 41                          |
| 65         | 95  | 30 | 36 | 47 | 47 | 3784                    | 116                          | 176                                      | 120                                    | 8                           | M8x30  | 41                          |
| 70         | 110 | 40 | 36 | 57 | 67 | 6607                    | 189                          | 199                                      | 127                                    | 8                           | M10x35 | 83                          |
| 75         | 115 | 40 | 46 | 62 | 72 | 7097                    | 189                          | 186                                      | 121                                    | 8                           | M10x35 | 83                          |
| 80         | 120 | 40 | 46 | 62 | 72 | 7551                    | 189                          | 174                                      | 116                                    | 8                           | M10x35 | 83                          |
| 85         | 125 | 40 | 46 | 62 | 72 | 10029                   | 236                          | 205                                      | 139                                    | 10                          | M10x35 | 83                          |
| 90         | 130 | 40 | 46 | 62 | 72 | 10619                   | 236                          | 193                                      | 134                                    | 10                          | M10x35 | 83                          |
| 95         | 135 | 40 | 46 | 62 | 72 | 11209                   | 236                          | 183                                      | 129                                    | 10                          | M10x35 | 83                          |
| 100        | 145 | 46 | 52 | 77 | 89 | 13738                   | 275                          | 176                                      | 121                                    | 8                           | M12x45 | 145                         |

# Self Locking Units (Type-07) (Self Centering)



| Dimensions |     |     |    |    |    |    | Transmissible Axial Force KN | Transmissible Torque Nm | Pressure                                 |  | Clamping Screws DIN912-12.9 |        |                             |
|------------|-----|-----|----|----|----|----|------------------------------|-------------------------|--|--|-----------------------------|--------|-----------------------------|
| d          | D   | D1  | L1 | L2 | L3 | L  |                              |                         | Shaft Surface Pressure N/mm <sup>2</sup> | Hub Surface Pressure N/mm <sup>2</sup> | No.                         | Size   | Screws Tightening Torque Nm |
| 20         | 47  | 56  | 17 | 22 | 28 | 34 | 26                           | 256                     | 222                                      | 94                                     | 5                           | M6x20  | 17                          |
| 25         | 50  | 59  | 17 | 22 | 28 | 34 | 31                           | 383                     | 213                                      | 106                                    | 6                           | M6x20  | 17                          |
| 30         | 55  | 64  | 17 | 22 | 28 | 34 | 31                           | 460                     | 177                                      | 97                                     | 6                           | M6x20  | 17                          |
| 35         | 60  | 69  | 17 | 22 | 28 | 34 | 41                           | 716                     | 203                                      | 118                                    | 8                           | M6x20  | 17                          |
| 38         | 65  | 74  | 17 | 22 | 28 | 34 | 41                           | 778                     | 187                                      | 109                                    | 8                           | M6x20  | 17                          |
| 40         | 65  | 74  | 17 | 22 | 28 | 34 | 41                           | 819                     | 178                                      | 109                                    | 8                           | M6x20  | 17                          |
| 45         | 75  | 84  | 20 | 25 | 33 | 41 | 65                           | 1458                    | 212                                      | 127                                    | 7                           | M8x25  | 41                          |
| 48         | 80  | 87  | 20 | 25 | 33 | 41 | 65                           | 0A                      | 200                                      | 120                                    | 7                           | M8x25  | 41                          |
| 50         | 80  | 89  | 20 | 25 | 33 | 41 | 65                           | 1620                    | 191                                      | 119                                    | 7                           | M8x25  | 41                          |
| 55         | 85  | 94  | 20 | 25 | 33 | 41 | 74                           | 2037                    | 199                                      | 129                                    | 8                           | M8x25  | 41                          |
| 60         | 90  | 99  | 20 | 25 | 33 | 41 | 74                           | 2223                    | 182                                      | 121                                    | 8                           | M8x25  | 41                          |
| 65         | 95  | 104 | 20 | 25 | 33 | 41 | 83                           | 2710                    | 189                                      | 129                                    | 9                           | M8x25  | 41                          |
| 70         | 110 | 119 | 24 | 30 | 40 | 50 | 120                          | 4203                    | 211                                      | 134                                    | 8                           | M10x30 | 83                          |
| 75         | 115 | 124 | 24 | 30 | 40 | 50 | 120                          | 4754                    | 197                                      | 128                                    | 8                           | M10x30 | 83                          |
| 80         | 120 | 129 | 24 | 30 | 40 | 50 | 120                          | 4804                    | 184                                      | 123                                    | 8                           | M10x30 | 83                          |
| 85         | 125 | 134 | 24 | 30 | 40 | 50 | 135                          | 5742                    | 195                                      | 133                                    | 9                           | M10x30 | 83                          |
| 90         | 130 | 139 | 24 | 30 | 40 | 50 | 135                          | 6080                    | 184                                      | 128                                    | 9                           | M10x30 | 83                          |
| 95         | 135 | 144 | 24 | 30 | 40 | 50 | 150                          | 7131                    | 194                                      | 137                                    | 10                          | M10x30 | 83                          |
| 100        | 145 | 154 | 26 | 32 | 44 | 56 | 175                          | 8732                    | 198                                      | 137                                    | 8                           | M12x35 | 145                         |
| 110        | 155 | 164 | 26 | 32 | 44 | 56 | 175                          | 9605                    | 180                                      | 128                                    | 8                           | M12x35 | 145                         |
| 120        | 165 | 174 | 26 | 32 | 44 | 56 | 196                          | 11787                   | 186                                      | 135                                    | 9                           | M12x35 | 145                         |
| 130        | 180 | 189 | 34 | 40 | 52 | 64 | 262                          | 17024                   | 175                                      | 126                                    | 12                          | M12x35 | 145                         |
| 140        | 190 | 199 | 34 | 40 | 54 | 68 | 267                          | 18703                   | 166                                      | 122                                    | 9                           | M14x40 | 230                         |
| 150        | 200 | 209 | 34 | 40 | 54 | 68 | 297                          | 22259                   | 172                                      | 129                                    | 10                          | M14x40 | 230                         |
| 160        | 210 | 219 | 34 | 40 | 54 | 68 | 326                          | 26119                   | 177                                      | 135                                    | 11                          | M14x40 | 230                         |
| 170        | 225 | 234 | 44 | 50 | 64 | 78 | 356                          | 30276                   | 140                                      | 106                                    | 12                          | M14x40 | 230                         |
| 180        | 235 | 244 | 44 | 50 | 64 | 78 | 356                          | 32057                   | 133                                      | 102                                    | 12                          | M14x40 | 230                         |
| 200        | 260 | 0A  | 44 | 50 | 64 | 78 | 356                          | 0A                      | 0A                                       | 0A                                     | 0A                          | M14x40 | 230                         |

# Self Locking Units (Type-19) (Self Centering)



| Dimensions |     |     |     |    | Transmissible Torque Nm | Transmissible Axial Force Kn | Pressure                                 |  | Clamping Screws DIN912-12.9 |        |                             |
|------------|-----|-----|-----|----|-------------------------|------------------------------|--|--|-----------------------------|--------|-----------------------------|
| d          | D   | L   | L2  | L1 |                         |                              | Shaft Surface Pressure N/mm <sup>2</sup> | Hub Surface Pressure N/mm <sup>2</sup> | No.                         | Size   | Screws Tightening Torque Nm |
| 25         | 55  | 46  | 40  | 32 | 799                     | 64                           | 314                                      | 107                                    | 6                           | M6x35  | 17                          |
| 28         | 55  | 46  | 40  | 32 | 895                     | 64                           | 281                                      | 107                                    | 6                           | M6x35  | 17                          |
| 30         | 55  | 46  | 40  | 32 | 959                     | 64                           | 262                                      | 107                                    | 6                           | M6x35  | 17                          |
| 35         | 60  | 60  | 54  | 44 | 1306                    | 75                           | 185                                      | 83                                     | 7                           | M6x35  | 17                          |
| 38         | 75  | 62  | 54  | 44 | 2567                    | 135                          | 308                                      | 121                                    | 7                           | M8x45  | 41                          |
| 40         | 75  | 62  | 54  | 44 | 2702                    | 135                          | 293                                      | 121                                    | 7                           | M8x50  | 41                          |
| 42         | 75  | 62  | 54  | 44 | 2837                    | 135                          | 279                                      | 121                                    | 7                           | M8x50  | 41                          |
| 45         | 75  | 62  | 54  | 44 | 3040                    | 135                          | 260                                      | 121                                    | 7                           | M8x50  | 41                          |
| 48         | 80  | 72  | 64  | 56 | 3707                    | 154                          | 216                                      | 102                                    | 8                           | M8x55  | 41                          |
| 50         | 80  | 72  | 64  | 56 | 3861                    | 154                          | 207                                      | 102                                    | 8                           | M8x55  | 41                          |
| 55         | 85  | 72  | 64  | 56 | 4779                    | 174                          | 212                                      | 108                                    | 9                           | M8x55  | 41                          |
| 60         | 90  | 72  | 64  | 56 | 5793                    | 193                          | 216                                      | 113                                    | 10                          | M8x55  | 41                          |
| 65         | 95  | 72  | 64  | 56 | 6276                    | 193                          | 199                                      | 107                                    | 10                          | M8x55  | 41                          |
| 70         | 110 | 88  | 78  | 70 | 10951                   | 313                          | 235                                      | 120                                    | 10                          | M10x60 | 83                          |
| 75         | 115 | 88  | 78  | 70 | 11733                   | 313                          | 220                                      | 115                                    | 10                          | M10x60 | 83                          |
| 80         | 120 | 88  | 78  | 70 | 13768                   | 344                          | 227                                      | 121                                    | 11                          | M10x60 | 83                          |
| 85         | 125 | 88  | 78  | 70 | 15959                   | 376                          | 233                                      | 127                                    | 12                          | M10x60 | 83                          |
| 90         | 130 | 88  | 78  | 70 | 16898                   | 376                          | 220                                      | 122                                    | 12                          | M10x60 | 83                          |
| 95         | 135 | 88  | 78  | 70 | 17837                   | 376                          | 208                                      | 117                                    | 12                          | M10x60 | 83                          |
| 100        | 145 | 112 | 100 | 90 | 25029                   | 501                          | 211                                      | 113                                    | 11                          | M12x80 | 145                         |



# Self Locking Units Interchange Chart

| REACH (FINER) | 01       | 02      | 04        | 07          | 19      |
|---------------|----------|---------|-----------|-------------|---------|
| B-LOC         | B-400    | B-800   | B-700A    | B-106       | B-115   |
| BIKON         | 4000     | 8000    | 1003      | 7000B       | 1012    |
| BONFIX        | CCE2000  | CCE1000 | CCE4000   | CCE4600     |         |
| Chiaravalli   | RCK40    | RCK80   | RCK70     | RCK16       | RCK11   |
| COMPOMAC      | CONEX A  | CONEX B | CONEX D   | CONEX ES/DS | CONEX G |
| EUROCONIC     | 210      | 55      | 54/N      | 914         |         |
| FENLOCK       | FLK200   | FLK110  | FLK130    | FLK133      | FLK450  |
| HAUSMANN      | 112      | 110     | 131       | 136         |         |
| ITALBLOCK     | CN210    | CN55    | CN54/N    | CN914       |         |
| KANA          | 200      |         |           | 201         |         |
| KINLOK        | LOK30    | LOK10   | LOK20A    |             |         |
| KTR           | KTR100/1 | KTR250  | KTR200    | KTR206      | KTR400  |
| MAV           | 2005     | 5061    | 6901      | 1061        | 4061    |
| OPTIBELT      | 1        | 2       | 4         | 7           |         |
| PETER GERWAH  | 2001     |         |           | 2002.3      |         |
| Poggi         | CAL-A    | CAL-B   | CAL-D     | CAL-ES      |         |
| QUANTUM       | 30       | 10      | 20        |             | 70      |
| RC            | 40       | 80      | 70        | 16          |         |
| RINGBLOK      | 1120     | 1100    | 1300.1    | 1720        | 1800    |
| Ringfeder     | RFN7012  | RFN7110 | RFN7013.0 | RFN7013.1   | RFN7015 |
| RINGSPANN     | RLK200   | RLK110  | RLK130    | RLK133      | RLK450  |
| SIT           | Type 1   | Type 3  | Type 5A   |             |         |
| TAS - Schafer | TAS 3020 |         |           | TAS 3006    |         |
| TOLLOK        | TLK200   | TLK110  | TLK130    | TLK133      | TLK450  |
| TSUBAKI       | AS       | TF      |           |             |         |
| VBLOK         | VK400    | VK800B  | VK700     | VK130       |         |
| VICENTINA     | 100      | 800     | 700       | 160         |         |

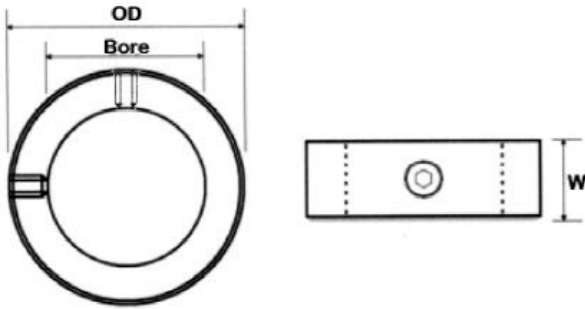
Type 1 is not self centering.

Type 2, Type 4, Type 7 & Type 19 is self centering.

NOTE: The above comparison chart is accurate to the best of our knowledge.

The possibility exists that there might be some dimensional and capacity differences, please check torque capabilities are adequate before supplying.

Set screw collars are most effective when used on a shaft made of a material which is softer than the set screw.  
Steel - Cold Drawn Bar



## Metric Shaft Collars

| Part No. | Bore | O.D. | W    | Screw Size | Approx Kg |
|----------|------|------|------|------------|-----------|
| FSC-6    | 6.0  | 12.0 | 8.0  | M4*4       | 0.01      |
| FSC-8    | 8.0  | 12.0 | 8.0  | M4*4       | 0.01      |
| FSC-10   | 10.0 | 20.0 | 10.0 | M6*6       | 0.02      |
| FSC-12   | 12.0 | 22.0 | 12.0 | M6*6       | 0.03      |
| FSC-14   | 14.0 | 22.0 | 12.0 | M6*6       | 0.03      |
| FSC-16   | 16.0 | 28.0 | 12.0 | M6*6       | 0.04      |
| FSC-20   | 20.0 | 32.0 | 14.0 | M6*6       | 0.05      |
| FSC-22   | 22.0 | 36.0 | 14.0 | M6*6       | 0.07      |
| FSC-25   | 25.0 | 40.0 | 16.0 | M6*6       | 0.10      |
| FSC-28   | 28.0 | 45.0 | 16.0 | M8*8       | 0.11      |
| FSC-30   | 30.0 | 45.0 | 16.0 | M8*8       | 0.15      |
| FSC-32   | 32.0 | 50.0 | 16.0 | M8*8       | 0.16      |
| FSC-35   | 35.0 | 56.0 | 16.0 | M8*8       | 0.18      |
| FSC-38   | 38.0 | 56.0 | 16.0 | M8*8       | 0.21      |
| FSC-40   | 40.0 | 63.0 | 18.0 | M10*12     | 0.30      |
| FSC-45   | 45.0 | 70.0 | 18.0 | M10*12     | 0.35      |
| FSC-50   | 50.0 | 80.0 | 18.0 | M10*12     | 0.40      |

| Bore Tolerances |            |
|-----------------|------------|
| Bore            | Tolerances |
| All             | +0.01mm    |
|                 | 0.05mm     |
| Width Tolerance |            |
| All             | +0.08      |
|                 | -0.25      |

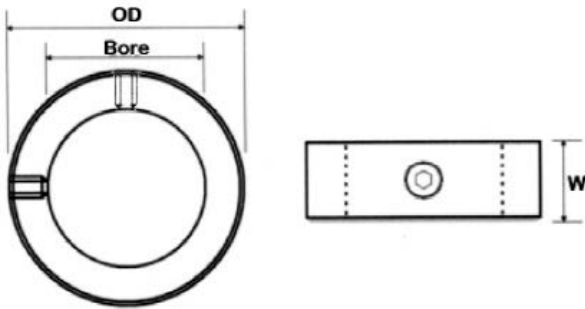
## Imperial Shaft Collars

| Part No.   | Bore  | O.D.  | W     | Screw Size | Approx Kg |
|------------|-------|-------|-------|------------|-----------|
| FSC-1/4    | 0.250 | 0.500 | 0.281 | M4*4       | 0.01      |
| FSC-5/16   | 0.312 | 0.625 | 0.308 | M4*4       | 0.01      |
| FSC-3/8    | 0.375 | 0.750 | 0.375 | M6*5       | 0.01      |
| FSC-1/2    | 0.500 | 1.000 | 0.438 | M6*5       | 0.03      |
| FSC-5/8    | 0.625 | 1.125 | 0.500 | M6*6       | 0.04      |
| FSC-3/4    | 0.750 | 1.250 | 0.563 | M6*6       | 0.05      |
| FSC-7/8    | 0.875 | 1.500 | 0.563 | M6*6       | 0.07      |
| FSC-1      | 1.000 | 1.625 | 0.625 | M6*6       | 0.10      |
| FSC-1-1/8  | 1.125 | 1.750 | 0.625 | M8*6       | 0.11      |
| FSC-1-1/4  | 1.250 | 2.000 | 0.688 | M8*8       | 0.16      |
| FSC-1-3/8  | 1.375 | 2.125 | 0.750 | M8*8       | 0.18      |
| FSC-1-7/16 | 1.437 | 2.250 | 0.750 | M8*8       | 0.20      |
| FSC-1-1/2  | 1.500 | 2.250 | 0.750 | M8*8       | 0.21      |
| FSC-1-5/8  | 1.625 | 2.500 | 0.813 | M8*8       | 0.29      |
| FSC-1-3/4  | 1.750 | 2.750 | 0.875 | M10*12     | 0.32      |
| FSC-1-7/8  | 1.875 | 2.750 | 0.875 | M10*12     | 0.35      |
| FSC-2      | 2.000 | 3.000 | 0.875 | M10*12     | 0.45      |

| Bore Tolerances |            |
|-----------------|------------|
| Bore            | Tolerances |
| Up to 1"        | +0.0005"   |
|                 | +0.002"    |
| 1 1/8" to 2"    | +0.0005    |
|                 | -0.003     |

| Width Tolerance |            |
|-----------------|------------|
| All             | Tolerances |
| All             | +0.003"    |
|                 | -0.010"    |

Set screw collars are most effective when used on a shaft made of a material which is softer than the set screw.  
304 Stainless Steel



### Metric Shaft Collars

| Part No. | Bore | O.D. | W    | Screw Size | Approx Kg |
|----------|------|------|------|------------|-----------|
| SSFSC-10 | 10.0 | 20.0 | 10.0 | M6*6       | 0.02      |
| SSFSC-12 | 12.0 | 22.0 | 12.0 | M6*6       | 0.03      |
| SSFSC-16 | 16.0 | 28.0 | 12.0 | M6*6       | 0.04      |
| SSFSC-20 | 20.0 | 32.0 | 14.0 | M6*6       | 0.05      |
| SSFSC-25 | 25.0 | 40.0 | 16.0 | M6*6       | 0.10      |
| SSFSC-30 | 30.0 | 45.0 | 16.0 | M8*8       | 0.15      |
| SSFSC-35 | 35.0 | 56.0 | 16.0 | M8*8       | 0.18      |
| SSFSC-40 | 40.0 | 63.0 | 18.0 | M10*12     | 0.30      |
| SSFSC-45 | 45.0 | 70.0 | 18.0 | M10*12     | 0.35      |
| SSFSC-50 | 50.0 | 80.0 | 18.0 | M10*12     | 0.40      |

| Bore Tolerances |            |
|-----------------|------------|
| Bore            | Tolerances |
| All             | +0.01mm    |
|                 | 0.05mm     |

| Width Tolerance |       |
|-----------------|-------|
|                 |       |
| All             | +0.08 |
|                 | -0.25 |

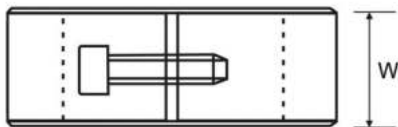
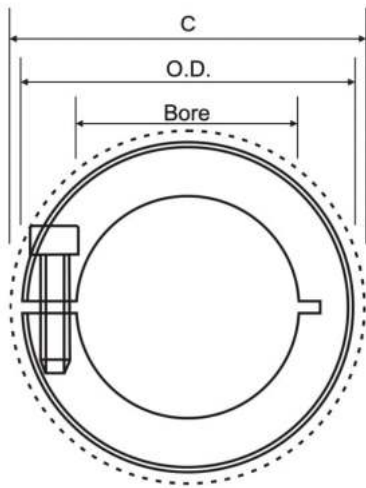
### Imperial Shaft Collars

| Part No.    | Bore  | O.D.  | W     | Screw Size | Approx Kg |
|-------------|-------|-------|-------|------------|-----------|
| SSFSC-3/8   | 0.375 | 0.750 | 0.375 | M6*5       | 0.01      |
| SSFSC-1/2   | 0.500 | 1.000 | 0.438 | M6*5       | 0.03      |
| SSFSC-5/8   | 0.625 | 1.125 | 0.500 | M6*6       | 0.04      |
| SSFSC-3/4   | 0.750 | 1.250 | 0.563 | M6*6       | 0.05      |
| SSFSC-1     | 1.000 | 1.625 | 0.625 | M6*6       | 0.10      |
| SSFSC-1-1/4 | 1.250 | 2.000 | 0.688 | M8*8       | 0.16      |
| SSFSC-1-1/2 | 1.500 | 2.250 | 0.750 | M8*8       | 0.21      |
| SSFSC-1-3/4 | 1.750 | 2.750 | 0.875 | M10*12     | 0.32      |
| SSFSC-1-7/8 | 1.875 | 2.750 | 0.875 | M10*12     | 0.35      |
| SSFSC-2     | 2.000 | 3.000 | 0.875 | M10*12     | 0.45      |

| Bore Tolerances |            |
|-----------------|------------|
| Bore            | Tolerances |
| Upto 1"         | +0.0005"   |
|                 | +0.002"    |
| 1 1/8" to 2"    | +0.0005    |
|                 | -0.003     |

| Width Tolerance |         |
|-----------------|---------|
|                 |         |
| All             | +0.003" |
|                 | -0.010" |

# Shaft Collars One Piece Split (Clamp Type) Metric



| Part No.  | Bore (mm) | O.D. (mm) | C (mm) | W (mm) |
|-----------|-----------|-----------|--------|--------|
| FSC-6-CL  | 6.0       | 16.0      | 20.8   | 9.0    |
| FSC-8-CL  | 8.0       | 18.0      | 22.4   | 9.0    |
| FSC-10-CL | 10.0      | 24.0      | 26.3   | 9.0    |
| FSC-12-CL | 12.0      | 28.0      | 32.0   | 11.0   |
| FSC-14-CL | 14.0      | 30.0      | 33.7   | 11.0   |
| FSC-16-CL | 16.0      | 34.0      | 39.3   | 13.0   |
| FSC-20-CL | 20.0      | 40.0      | 47.4   | 15.0   |
| FSC-22-CL | 22.0      | 42.0      | 49.5   | 15.0   |
| FSC-25-CL | 25.0      | 45.0      | 52.1   | 15.0   |
| FSC-28-CL | 28.0      | 48.0      | 54.7   | 15.0   |
| FSC-30-CL | 30.0      | 54.0      | 59.2   | 15.0   |
| FSC-32-CL | 32.0      | 54.0      | 59.2   | 15.0   |
| FSC-35-CL | 35.0      | 57.0      | 62.4   | 15.0   |
| FSC-38-CL | 38.0      | 60.0      | 65.6   | 15.0   |
| FSC-40-CL | 40.0      | 60.0      | 65.6   | 15.0   |
| FSC-45-CL | 45.0      | 73.0      | 80.1   | 19.0   |
| FSC-50-CL | 50.0      | 78.0      | 84.7   | 19.0   |

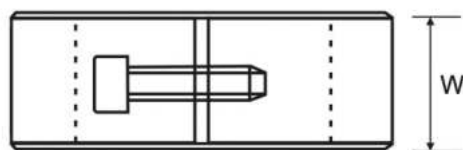
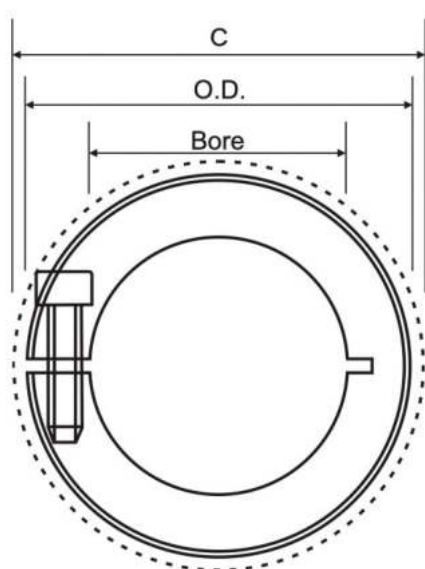
## Features

- Does not mar the shaft.
- Single point faced.
- Balanced versions available.
- Additional sizes available.

### -Width tolerance:

All           +.08 mm  
                 -.25 mm

# Shaft Collars One Piece Split (Clamp Type) Imperial



| Part No.     | Bore (mm) | O.D. (in) | C (in) | W (in) |
|--------------|-----------|-----------|--------|--------|
| FSC-1/4-CL   | 0.2500    | 0.625     | 0.773  | 0.281  |
| FSC-3/8-CL   | 0.3750    | 0.875     | 1.027  | 0.343  |
| FSC-1/2-CL   | 0.6250    | 1.125     | 1.281  | 0.406  |
| FSC-5/8-CL   | 0.6250    | 1.313     | 1.500  | 0.437  |
| FSC-3/4-CL   | 0.7500    | 1.500     | 1.808  | 0.500  |
| FSC-7/8-CL   | 0.8750    | 1.625     | 1.916  | 0.500  |
| FSC-1-CL     | 1.0000    | 1.750     | 2.032  | 0.500  |
| FSC-1-1/8-CL | 1.1250    | 1.875     | 2.140  | 0.500  |
| FSC-1-1/4-CL | 1.2500    | 2.063     | 2.295  | 0.500  |
| FSC-1-3/8-CL | 1.3750    | 2.250     | 2.465  | 0.563  |
| FSC-1-1/2-CL | 1.5000    | 2.375     | 2.578  | 0.563  |
| FSC-1-5/8-CL | 1.6250    | 2.625     | 2.935  | 0.688  |
| FSC-1-3/4-CL | 1.7500    | 2.750     | 3.046  | 0.688  |
| FSC-1-7/8-CL | 1.8750    | 2.875     | 3.160  | 0.688  |
| FSC-2-CL     | 2.0000    | 3.000     | 3.273  | 0.688  |

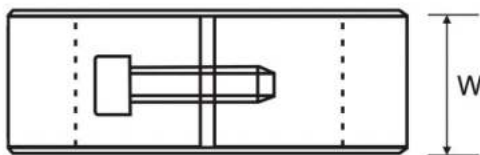
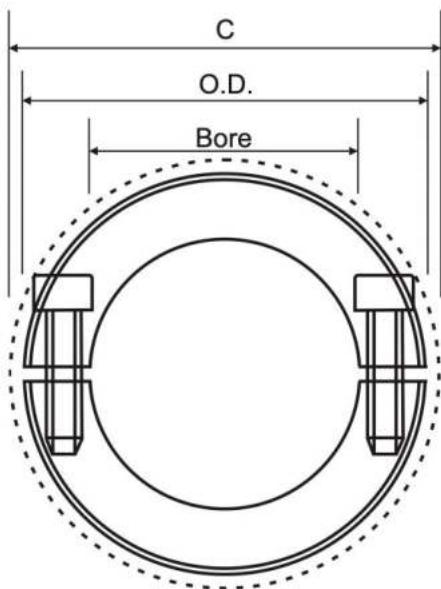
## Features

- Does not mar the shaft.
- Single point faced.
- Balanced versions available.
- Additional sizes available.

### -Width tolerance:

All                    +.003"  
                               - .010"

# Shaft Collars Two Piece Split (Clamp Type) Metric



| Part No.  | Bore (mm) | O.D. (mm) | C (mm) | W (mm) |
|-----------|-----------|-----------|--------|--------|
| FSC-6-SP  | 6.0       | 16.0      | 20.8   | 9.0    |
| FSC-8-SP  | 8.0       | 18.0      | 22.4   | 9.0    |
| FSC-10-SP | 10.0      | 24.0      | 26.3   | 9.0    |
| FSC-12-SP | 12.0      | 28.0      | 32.0   | 11.0   |
| FSC-14-SP | 14.0      | 30.0      | 33.7   | 11.0   |
| FSC-16-SP | 16.0      | 34.0      | 39.3   | 13.0   |
| FSC-20-SP | 20.0      | 40.0      | 47.4   | 15.0   |
| FSC-22-SP | 22.0      | 42.0      | 49.5   | 15.0   |
| FSC-25-SP | 25.0      | 45.0      | 52.1   | 15.0   |
| FSC-28-SP | 28.0      | 48.0      | 54.7   | 15.0   |
| FSC-30-SP | 30.0      | 54.0      | 59.2   | 15.0   |
| FSC-32-SP | 32.0      | 54.0      | 59.2   | 15.0   |
| FSC-35-SP | 35.0      | 57.0      | 62.4   | 15.0   |
| FSC-38-SP | 38.0      | 60.0      | 65.6   | 15.0   |
| FSC-40-SP | 40.0      | 60.0      | 65.6   | 15.0   |
| FSC-45-SP | 45.0      | 73.0      | 80.1   | 19.0   |
| FSC-50-SP | 50.0      | 78.0      | 84.7   | 19.0   |

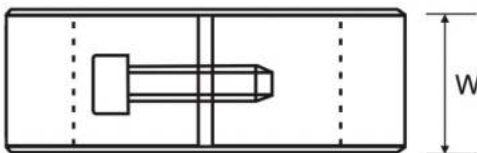
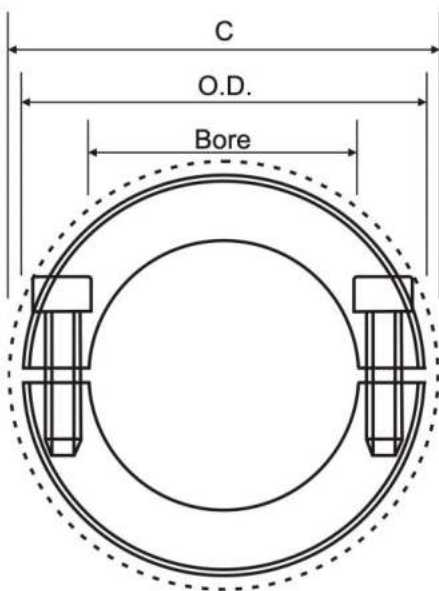
## Features

- Does not mar the shaft.
- Single point faced.
- Available with keyways.
- Opposing screws available.
- Additional sizes available.

### -Width tolerance:

All           +.08 mm  
                 -.25 mm

# Shaft Collars Two Piece Split (Clamp Type) Imperial



| Part No.     | Bore (mm) | O.D. (mm) | C (mm) | W (mm) |
|--------------|-----------|-----------|--------|--------|
| FSC-1/4-SP   | 0.2500    | 0.625     | 0.773  | 0.281  |
| FSC-3/8-SP   | 0.3750    | 0.875     | 1.027  | 0.343  |
| FSC-1/2-SP   | 0.5000    | 1.125     | 1.281  | 0.406  |
| FSC-5/8-SP   | 0.6250    | 1.313     | 1.500  | 0.437  |
| FSC-3/4-SP   | 0.7500    | 1.500     | 1.808  | 0.500  |
| FSC-7/8-SP   | 0.8750    | 1.625     | 1.916  | 0.500  |
| FSC-1-SP     | 1.0000    | 1.750     | 2.032  | 0.500  |
| FSC-1-1/8-SP | 1.1250    | 1.875     | 2.140  | 0.500  |
| FSC-1-1/4-SP | 1.2500    | 2.063     | 2.295  | 0.500  |
| FSC-1-3/8-SP | 1.3750    | 2.250     | 2.465  | 0.563  |
| FSC-1-1/2-SP | 1.5000    | 2.375     | 2.578  | 0.563  |
| FSC-1-5/8-SP | 1.6250    | 2.625     | 2.935  | 0.688  |
| FSC-1-3/4-SP | 1.7500    | 2.750     | 3.046  | 0.688  |
| FSC-1-7/8-SP | 1.8750    | 2.875     | 3.160  | 0.688  |
| FSC-2-SP     | 2.0000    | 3.000     | 3.273  | 0.688  |

## Features

- Does not mar the shaft.
- Single point faced.
- Available with keyways.
- Opposing screws available.
- Additional sizes available.

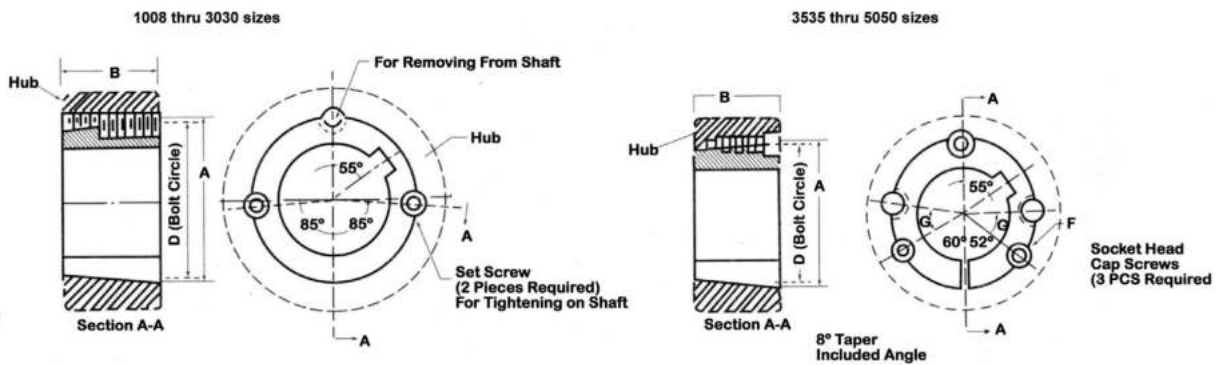
### -Width tolerance:

All           +.003"  
                  -.010"

The Taper Lock Bush is a tried and proven method for fixing a driven device to a shaft. The simple design allows for easy maintenance which is a simple easy-on, easy off process.

Finer Power Transmissions stocks a range of items that are used in conjunction with Taper Lock Bushes including sprockets, pulleys and couplings.

Taper Lock Bushes come in a variety of bore sizes, in both metric and imperial.



| Bush | A      | B     | D      | G  | Set Crews Dia. x Len. |
|------|--------|-------|--------|----|-----------------------|
| 1008 | 35.2   | 22.3  | 33.73  | -  | 1/4 x 1/2             |
| 1108 | 38.38  | 22.3  | 36.92  | -  | 1/4 x 1/2             |
| 1210 | 47.62  | 25.4  | 44.44  | -  | 3/8 x 5/8             |
| 1215 | 47.62  | 38.1  | 44.44  | -  | 3/8 x 5/8             |
| 1610 | 57.15  | 25.4  | 53.97  | -  | 3/8 x 5/8             |
| 1615 | 57.15  | 38.1  | 53.97  | -  | 3/8 x 5/8             |
| 2012 | 69.85  | 31.8  | 66.68  | -  | 7/16 x 7/8            |
| 2017 | 69.85  | 44.5  | 66.68  | -  | 7/16 x 7/8            |
| 2517 | 85.73  | 44.5  | 82.55  | -  | 1/2 x 1               |
| 2525 | 85.73  | 63.5  | 82.56  | -  | 1/2 x 1               |
| 3020 | 107.96 | 50.8  | 101.6  | -  | 5/8 x 1-1/4           |
| 3030 | 107.96 | 76.2  | 101.6  | -  | 5/8 x 1-1/4           |
| 3525 | 127    | 63.5  | 122.68 | 40 | 1/2 x 1-1/2           |
| 3535 | 127    | 89    | 122.68 | 40 | 1/2 x 1-1/2           |
| 4030 | 146.05 | 76.2  | 140.72 | 40 | 5/8 x 1-1/2           |
| 4040 | 146.05 | 101.5 | 140.72 | 40 | 5/8 x 1-3/4           |
| 4545 | 161.93 | 114.3 | 155.7  | 40 | 3/4 x 2               |
| 5050 | 177.8  | 127   | 170.69 | 37 | 7/8 x 2-1/4           |

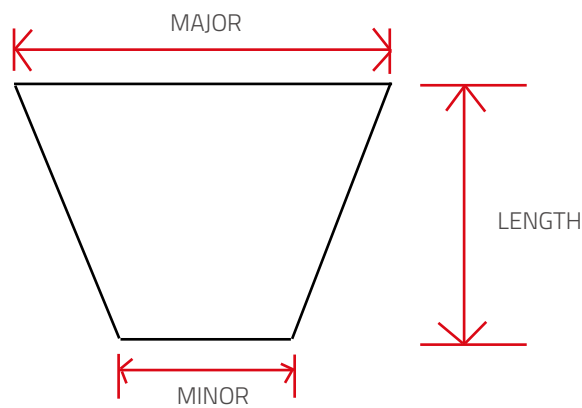
Note: 1008 – 3030 require two screws

3535 – 5050 requires three screws



| Taper Bush | Length (mm) | Major Dia (mm) | Minor Dia (mm) |
|------------|-------------|----------------|----------------|
| 1008       | 22.2        | 35             | 31.4           |
| 1108       | 22.2        | 38             | 34.89          |
| 1210       | 25.4        | 47.5           | 43.95          |
| 1215       | 38.1        | 47.5           | 42.17          |
| 1610       | 25.4        | 57             | 53.45          |
| 1615       | 38.1        | 57             | 51.67          |
| 2012       | 31.7        | 70             | 65.57          |
| 2017       | 44.4        | 70             | -              |
| 2517       | 44.5        | 85.5           | 79.28          |
| 2525       | 63.5        | 85.5           | 76.62          |
| 3020       | 50.8        | 108            | 100.89         |
| 3030       | 76.2        | 108            | 97.34          |
| 3525       | 63.5        | 127            | -              |
| 3535       | 88.9        | 127            | 114.57         |
| 4030       | 76.2        | 146            | -              |
| 4040       | 101.6       | 146            | 131.8          |
| 4545       | 114.3       | 162            | 146            |
| 5050       | 127.0       | 177.5          | 159.74         |
| 6050       | 127.0       | 235            | 217.24         |

Please note that minor diameters whilst expressed to two decimal places, must not be guaranteed as accurate to two places







# Imperial Taper Lock Bushes

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| 3 3/8       | 7/8 x 7/8      | 5.3     |
| 3 1/2       | 7/8 x 7/8      | 5.1     |
| 3 3/4       | 1 x 1          | 4.6     |
| 4           | 1 x 1          | 4       |
| <b>4040</b> |                |         |
| 1 3/4       | 7/16 x 7/16    | 9.77    |
| 1 7/8       | 1/2 x 1/2      | 9.64    |
| 2           | 1/2 x 1/2      | 9.5     |
| 2 1/8       | 5/8 x 5/8      | 9.35    |
| 2 3/16      | 5/8 x 5/8      | 9.26    |
| 2 1/4       | 5/8 x 5/8      | 9.25    |
| 2 3/8       | 5/8 x 5/8      | 8.9     |
| 2 1/2       | 3/4 x 3/4      | 8.3     |
| 2 5/8       | 3/4 x 3/4      | 8.2     |
| 2 3/4       | 3/4 x 3/4      | 8.1     |
| 2 7/8       | 5/8 x 5/8      | 8.95    |
| 3           | 3/4 x 3/4      | 7.7     |
| 3 1/8       | 7/8 x 7/8      | 7.4     |
| 3 1/4       | 7/8 x 7/8      | 7.3     |
| 3 3/8       | 7/8 x 7/8      | 6.9     |
| 3 1/2       | 7/8 x 7/8      | 6.4     |
| 3 3/4       | 1 x 1          | 5.95    |
| 4           | 1 x 1          | 5.5     |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>4545</b> |                |         |
| 2 1/4       | 5/8 x 5/8      | 13.2    |
| 2 1/2       | 5/8 x 5/8      | 12.9    |
| 2 5/8       | 3/4 x 3/4      | 12.4    |
| 2 3/4       | 3/4 x 3/4      | 12      |
| 2 7/8       | 3/4 x 3/4      | 11.5    |
| 3           | 3/4 x 3/4      | 10.9    |
| 3 1/8       | 7/8 x 7/8      | 10.7    |
| 3 1/4       | 7/8 x 7/8      | 10.6    |
| 3 3/8       | 7/8 x 7/8      | 10.5    |
| 3 1/2       | 7/8 x 7/8      | 10      |
| 3 3/4       | 1 x 1          | 9.5     |
| 4           | 1 x 1          | 8.9     |
| 4 1/8       | 1 1/4 x 1 1/4  | 8.2     |
| 4 1/4       | 1 1/4 x 1 1/4  | 7.9     |
| 4 1/2       | 1 1/4 x 1 1/4  | 7.4     |
| <b>5050</b> |                |         |
| 2 1/2       | 5/8 x 5/8      | 17.6    |
| 2 3/4       | 3/4 x 3/4      | 17      |
| 3           | 3/4 x 3/4      | 16.8    |
| 3 1/4       | 7/8 x 7/8      | 15.5    |
| 3 1/2       | 7/8 x 7/8      | 15.3    |
| 4           | 1 x 1          | 12.9    |
| 4 1/4       | 1 1/4 x 1 1/4  | 12.2    |
| 4 1/2       | 1 1/4 x 1 1/4  | 10.6    |
| 5           | 1 1/4 x 1 1/4  | 8.9     |

# Imperial Steel Taper Lock Bushes

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>1108</b> |                |         |
| 1           | 1/4x1/4        | -       |
| 1 1/8       | 5/16x5/16      | -       |
| 5/8         | 3/16x3/16      | -       |
| <b>1210</b> |                |         |
| 3/4         | 3/16 x 3/16    | 0.13    |
| 1           | 1/4 x 1/4      | 0.1     |
| 1 1/8       | 5/16 x 5/16    | 0.09    |
| 1 1/4       | 1/4 x 1/4      | 0.1     |
| <b>1610</b> |                |         |
| 1           | 1/4 x 1/4      | 0.35    |
| 1 1/2       | 3/8 x 3/8      | 0.24    |
| 1 1/4       | 5/16 x 5/16    | 0.29    |
| 1 1/8       | 5/16x5/16      | 0.31    |
| 1 3/8       | 3/8 x 3/8      | 0.24    |
| 1 5/8       | 7/16 x 7/16    | 0.2     |
| <b>2012</b> |                |         |
| 1           | 1/4x1/4        |         |
| 1 1/2       | 3/8 x 3/8      | 0.61    |
| 1 1/4       | 5/16 x 5/16    | 0.67    |
| 1 3/4       | 7/16 x 7/16    | 0.67    |
| 1 3/8       | 3/8 x 3/8      | 0.63    |
| 1 5/8       | 7/16 x 7/16    | 0.54    |
| 1 7/8       | 1/2x1/2        | 0.62    |
| 2           | 1/2x1/2        | 0/63    |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>2517</b> |                |         |
| 1           | 1/4x1/4        | -       |
| 1 1/2       | 3/8x3/8        | -       |
| 1 1/4       | 5/16x5/16      | -       |
| 1 3/4       | 7/16x7/16      | -       |
| 2           | 1/2x1/2        | -       |
| 2 1/2       | 5/8x5/8        | -       |
| 2 1/4       | 5/8x5/8        | -       |
| 2 1/8       | 5/8x5/8        | -       |
| 2 3/8       | 5/8x5/8        | -       |
| <b>3020</b> |                |         |
| 2           | 1/2x1/2        | -       |
| 2 1/2       | 5/8x5/8        | -       |
| 2 1/4       | 5/8x5/8        | -       |
| 2 3/4       | 3/4x3/4        | -       |
| 2 3/8       | 5/8x5/8        | -       |
| 2 5/8       | 3/4x3/4        | -       |
| 3           | 3/4x3/4        | -       |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>3535</b> |                |         |
| 2 1/2       | 5/8x5/8        | -       |
| 2 3/4       | 3/4x3/4        | -       |
| 2 7/8       | 3/4x3/4        | -       |
| 3           | 3/4x3/4        | -       |
| 3 1/2       | 7/8x7/8        | -       |
| 3 1/4       | 7/8x7/8        | -       |
| 3 3/8       | 7/8x7/8        | -       |
| <b>4040</b> |                |         |
| 3           | 3/4x3/4        | -       |
| 3 1/2       | 7/8x7/8        | -       |
| 4           | 1x1            | -       |

# Metric Steel Taper Lock Bushes

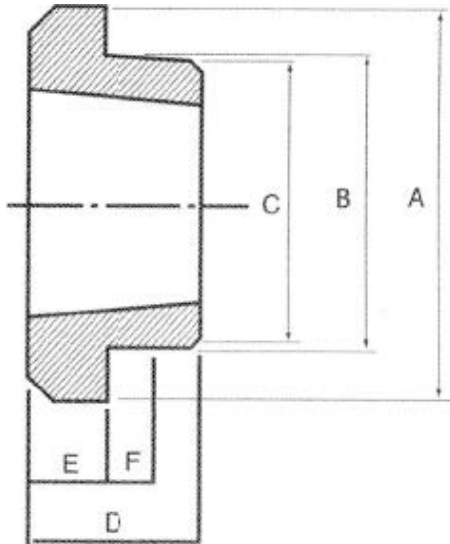
| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>1008</b> |                |         |
| 20          | 6x6            | 0.1     |
| 25          | 8x7            | 0.08    |
| <b>1108</b> |                |         |
| 25          | 8x7            | 0.1     |
| 28          | 8x7            | 0.09    |
| <b>1210</b> |                |         |
| 24          | 8x7            | 0.22    |
| 25          | 8x7            | 0.21    |
| 28          | 8x7            | 0.19    |
| 30          | 8x7            | 0.17    |
| 32          | 10x8           | 0.15    |
| <b>1610</b> |                |         |
| 24          | 8x7            | 0.36    |
| 25          | 8x7            | 0.35    |
| 28          | 8x7            | 0.33    |
| 30          | 8x7            | 0.31    |
| 32          | 10x8           | 0.29    |
| 35          | 10x8           | 0.26    |
| 38          | 10x8           | 0.24    |
| 40          | 12x8           | 0.22    |
| 42          | 12x8           | 0.2     |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>2012</b> |                |         |
| 20          | 6x6            | 0.76    |
| 22          | 6x6            | 0.74    |
| 24          | 8x7            | 0.73    |
| 25          | 8x7            | 0.71    |
| 28          | 8x7            | 0.68    |
| 30          | 8x7            | 0.66    |
| 32          | 10x8           | 0.64    |
| 34          | 10x8           | 0.63    |
| 35          | 10x8           | 0.61    |
| 38          | 10x8           | 0.57    |
| 40          | 12x8           | 0.54    |
| 42          | 12x8           | 0.51    |
| 45          | 14x9           | 0.47    |
| 48          | 14x9           | 0.42    |
| 50          | 14x9           | 0.37    |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>3020</b> |                |         |
| 48          | 14x9           | 3.42    |
| 50          | 14x9           | 3.4     |
| 55          | 16x10          | 3.2     |
| 60          | 18x11          | 2.95    |
| 65          | 18x11          | 2.67    |
| 70          | 20x12          | 2.45    |
| 75          | 20x12          | 2.1     |
| <b>2517</b> |                |         |
| 25          | 8x7            | 1.56    |
| 28          | 8x7            | 1.5     |
| 30          | 8x7            | 1.49    |
| 32          | 10x8           | 1.46    |
| 35          | 10x8           | 1.42    |
| 38          | 10x8           | 1.35    |
| 40          | 12x8           | 1.31    |
| 42          | 12x8           | 1.26    |
| 45          | 14x9           | 1.2     |
| 48          | 14x9           | 1.14    |
| 50          | 14x9           | 1.1     |
| 55          | 16x10          | 0.95    |
| 60          | 18x11          | 0.82    |
| 65          | 18x11          | 0.5     |

| Bore        | Keyway (W x D) | App. Kg |
|-------------|----------------|---------|
| <b>3535</b> |                |         |
| 70          | 20x12          | 3.64    |
| 75          | 20x12          | 3.38    |
| 80          | 22x14          | 3.1     |
| 85          | 22x14          | 2.8     |
| 90          | 25x14          | 2.49    |
| 100         | 28x16          | 2.25    |
| <b>4040</b> |                |         |
| 80          | 22x14          | 7.4     |
| 85          | 22x14          | 6.9     |
| 90          | 25x14          | 6.4     |
| 95          | 25x14          | 5.95    |
| 100         | 28x16          | 5.5     |
| 110         | 28x16          | 4.2     |
| <b>4545</b> |                |         |
| 105         | 28x16          | 8.2     |
| 110         | 28x16          | 7.4     |
| <b>5050</b> |                |         |
| 100         | 28x16          | 12.9    |
| 110         | 28x16          | 11.5    |
| 120         | 32x18          | 9.8     |
| 125         | 32x18          | 8.9     |

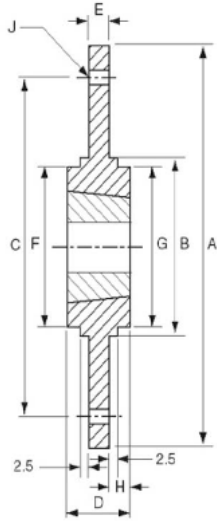
Taper Bore Weld On Hubs are drilled, tapered and bored to receive standard taper bushings. The extended flange provides a convenient means for welding devices, which must be firmly fastened to a shaft.



| Part No. | Bush No. | A      | B      | C      | D     | E     | F     |
|----------|----------|--------|--------|--------|-------|-------|-------|
| W12      | 1215     | 73.03  | 63.5   | 62.71  | 38.1  | 15.88 | 9.53  |
| W16      | 1615     | 82.55  | 73.03  | 72.24  | 38.1  | 15.88 | 9.53  |
| W20      | 2017     | 101.6  | 88.9   | 88.11  | 44.45 | 19.05 | 14.45 |
| W25      | 2517     | 127    | 111.13 | 110.34 | 44.45 | 19.05 | 14.45 |
| W30      | 3030     | 149.86 | 133.35 | 132.56 | 76.2  | 25.4  | 19.05 |
| W35      | 3535     | 184    | 159    | 158    | 89    | 32    | 25    |
| W40      | 4040     | 225    | 197    | 196    | 102   | 32    | 32    |
| W45      | 4545     | 254    | 222    | 221    | 114   | 38    | 38    |
| W50      | 5050     | 276    | 240    | 240    | 127   | 38    | 38    |

| Part No. | Bush No. | A   | B   | C     | D  | E  | F  |
|----------|----------|-----|-----|-------|----|----|----|
| WH12     | 1210     | 70  | 65  | 64.5  | 25 | 9  | 10 |
| WH16     | 1610     | 80  | 75  | 74.5  | 25 | 9  | 10 |
| WH20     | 2012     | 95  | 90  | 89.5  | 32 | 12 | 12 |
| WH25     | 2517     | 115 | 110 | 109.5 | 44 | 19 | 15 |
| WH30     | 3020     | 145 | 140 | 139.5 | 50 | 20 | 15 |
| WH35     | 3525     | 190 | 180 | 179   | 65 | 25 | 25 |

Taper Lock Bolt On Hubs are designed for use with Taper Lock Bushes. They provide a convenient means of securing impellers, agitators, fan motors and other devices firmly to shafts. Bolt On Hubs are used wherever welding is not possible or not permitted. Parts can be mounted to either the left or right hand side of the hub.



| Part Number | T/L Bush | A   | B   | C   | D  | E    | R   | G   | H  | J (No. x Diameter) |
|-------------|----------|-----|-----|-----|----|------|-----|-----|----|--------------------|
| BF12        | 1210     | 120 | 80  | 100 | 25 | 6.5  | 74  | 80  | 10 | 6 x 6.5            |
| BF16        | 1610     | 130 | 90  | 110 | 25 | 6.5  | 84  | 90  | 10 | 6 x 6.5            |
| BF20        | 2012     | 145 | 100 | 125 | 32 | 8.5  | 99  | 100 | 13 | 6 x 8.5            |
| BF25        | 2517     | 185 | 130 | 155 | 44 | 11.5 | 120 | 119 | 20 | 6 x 10.5           |
| BF30        | 3020     | 220 | 165 | 190 | 50 | 11.5 | 146 | 147 | 20 | 6 x 13             |