

Assortment

Contents



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ASSORTMENT

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ASSORTMENT

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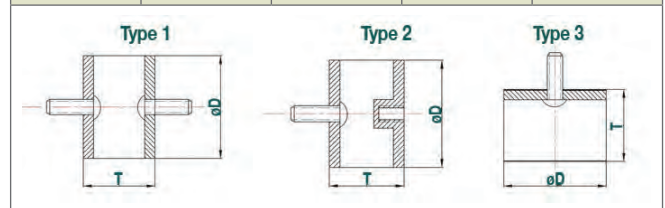
Anti Vibration Mounts

| Size/ Part No. | Shore Hardness | Type | Max Compressive Load(kg) | STATIC DEFL (mm) | Thread Size | Bolt/Nut |
|----------------------|-------------------|------|--------------------------------|------------------------|------------------|----------------------|
| F 13x13 | A | 1 | 4.5 | 1 | 3/16"BSW x13L | 3/16"BSW x4 Deep |
| F 16x13 | A | 3 | 4.1 | 1 | 1/4"BSW x19L | 1/4"BSW x6 Deep |
| F 16x15 | A | 1 | 4.1 | 1 | M5x0.8P x12L | M5x0.8P x5 Deep |
| | | 2 | 4.3 | 1 | | |
| | | 3 | 4.5 | 1 | | |
| F 19x19 | A | 1 | 17 | 3 | M6x1P x18L | M6x1P x6 Deep |
| | B | 2 | 28 | 3 | | |
| F 20x20 | C | 1 | 55 | 4 | M6x1P x15L | M6x1P x5 Deep |
| | | 2 | 55 | 4 | | |
| | | 3 | 55 | 4 | | |
| F 20x25 | A | 1 | 9.8 | 3 | M6x1P x18L | M6x1P x6 Deep |
| | B | 2 | 18 | 3 | | |
| | C | 3 | 30 | 3 | | |
| F 25x20 | A | 1 | 33.8 | 3.5 | M6x1P x13L | M6x1P x6 Deep |
| | B | 2 | 55 | 3.5 | | |
| | C | 3 | 80 | 3.5 | | |
| F 25x22 | A | 2 | 33.8 | 3 | M8x1.25P x20L | M8x1.25P x6 Deep |
| F 25x30 | A | 1 | 13.8 | 3 | M8x1.25P x18L | M8x1.25P x7 Deep |
| | B | 2 | 23 | 3 | | |
| | C | 3 | 32 | 3 | | |
| F 30x22 | A | 1 | 46 | 3.5 | M8x1.25P x23L | M8x1.25P x7 Deep |
| | | 2 | 46 | 3.5 | | |
| F 30x30 | A | 1 | 21 | 3 | M8x1.25P x23L | M8x1.25P x7 Deep |
| | | 2 | 23 | 3 | | |
| | | 3 | 23 | 3 | | |
| F 35x25 | A | 1 | 15 | 1.5 | M10x1.5P x38L | M10x1.5P x10 Deep |
| | B | 2 | 27 | 1.5 | | |
| | C | | 51 | 1.5 | | |
| F 38x25 | A | 1 | 65 | 4 | M8x1.25P x18L | M8x1.25P x7 Deep |
| | B | 2 | 127 | 4 | | |
| | C | 3 | 165 | 4 | | |
| F 38x38 | A | 1 | 61 | 6 | M8x1.25P x18L | M8x1.25P x7 Deep |
| | B | | 78 | 6 | | |
| | C | | 100 | 6 | | |
| F 40x30 | B | 1 | 108 | 5 | M8x1.25P x23L | M8x1.25P x7 Deep |
| | | 2 | 108 | 5 | | |
| | | 3 | 108 | 5 | | |
| F 40x40 | A | 1 | 65 | 6 | M10x1.5P x38L | M10x1.5P x10 Deep |
| | B | 2 | 93 | 6 | | |
| | C | 3 | 132 | 6 | | |
| F 50x40 | A | 1 | 83 | 5 | M10x1.5P x22L | M10x1.5P x12 Deep |
| | B | 2 | 149 | 5 | | |
| | C | | 204 | 5 | | |

| Size/ Part No. | Shore Hardness | Type | Max Compressive Load(kg) | STATIC DEFL (mm) | Thread Size | Bolt/Nut |
|----------------------|-------------------|------|--------------------------------|------------------------|-------------------|-----------------------|
| F 50x45 | B | 1 | 151 | 7 | M10x1.5P x25L | M10x1.5P x12 Deep |
| F 50x50 | A | 1 | 71.5 | 7 | M10x1.5P x22L | M10x1.5P x12 Deep |
| | B | 2 | 132 | 7 | | |
| | C | 3 | 202 | 7 | | |
| F 55x38 | A | 1 | 55 | 3 | M10x1.5P x32L | M10x1.5P x12 Deep |
| | B | 2 | 89 | 3 | | |
| | C | | 122 | 3 | | |
| F 60x50 | A | 1 | 112 | 6.5 | M12x1.75P x27L | M12x1.75P x15 Deep |
| | B | 2 | 201 | 6.5 | | |
| | C | 3 | 285 | 6.5 | | |
| F 75x55 | A | 1 | 178 | 6 | M12x1.75P x37L | M12x1.75P x15 Deep |
| | B | 2 | 292 | 6 | | |
| | C | 3 | 443 | 6 | | |
| F 80x60 | A | 1 | 230 | 8 | M12x1.75P x30L | M12x1.75P x20 Deep |
| | B | 2 | 352 | 8 | | |
| | C | 3 | 505 | 8 | | |
| F 100x 55 | A | 1 | 324 | 6 | M16x2P x43L | M16x2P x20 Deep |
| | | 2 | 324 | 6 | | |
| | | 3 | 324 | 6 | | |

| Shore Hardness | |
|----------------|-------|
| A | 40.50 |
| B | 55.65 |
| C | 65.75 |

| Method of Ordering | | | | |
|--------------------|----|----|-------------------|------|
| F | 25 | 30 | A | 2 |
| F | D | T | Shore Hardness | Type |



Key Steel

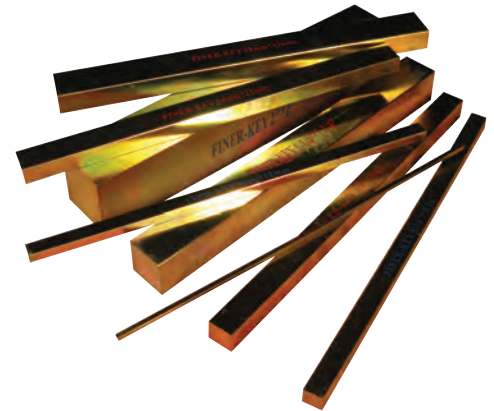


"Why compete against your supplier when you can be our partner"

Finer Power Transmissions carries a wide range of Key Steel in both Metric and Imperial Sizes. Individual pieces are clearly marked for quick identification.

Specifically manufactured from steel designed for keyways, it can be used in situations where a shaft has a keyed drive running off it.

Finer Key Steel is fully zinc coated to further protect it from environmental factors.



ASSORTMENT

| IMPERIAL | |
|---------------|---------|
| Size | App. Kg |
| 1/8 x 1/8 | 0.02 |
| 3/16 x 3/16 | 0.05 |
| 3/16 x 1/4 | 0.07 |
| 1/4 x 1/4 | 0.10 |
| 1/4 x 5/16 | 0.12 |
| 1/4 x 3/8 | 0.14 |
| 5/16 x 5/16 | 0.15 |
| 5/16 x 3/8 | 0.18 |
| 5/16 x 7/16 | 0.21 |
| 5/16 x 1/2 | 0.24 |
| 3/8 x 3/8 | 0.22 |
| 3/8 x 1/2 | 0.29 |
| 7/16 x 7/16 | 0.30 |
| 7/16 x 1/2 | 0.34 |
| 7/16 x 5/8 | 0.42 |
| 1/2 x 1/2 | 0.39 |
| 1/2 x 5/8 | 0.48 |
| 1/2 x 3/4 | 0.58 |
| 9/16 x 9/16 | 0.49 |
| 5/8 x 5/8 | 0.60 |
| 5/8 x 3/4 | 0.72 |
| 5/8 x 7/8 | 0.84 |
| 3/4 x 3/4 | 0.87 |
| 3/4 x 1 | 1.16 |
| 7/8 x 7/8 | 1.18 |
| 7/8 x 1-1/4 | 1.69 |
| 1 x 1 | 1.00 |
| 1-1/8 x 1-1/8 | 1.95 |
| 1 x 1-1/2 | 2.32 |
| 1-1/4 x 1-1/4 | 2.41 |
| 1-1/2 x 1-1/2 | 3.47 |
| 1-3/4 x 1-3/4 | 4.73 |
| 2 x 2 | 6.17 |

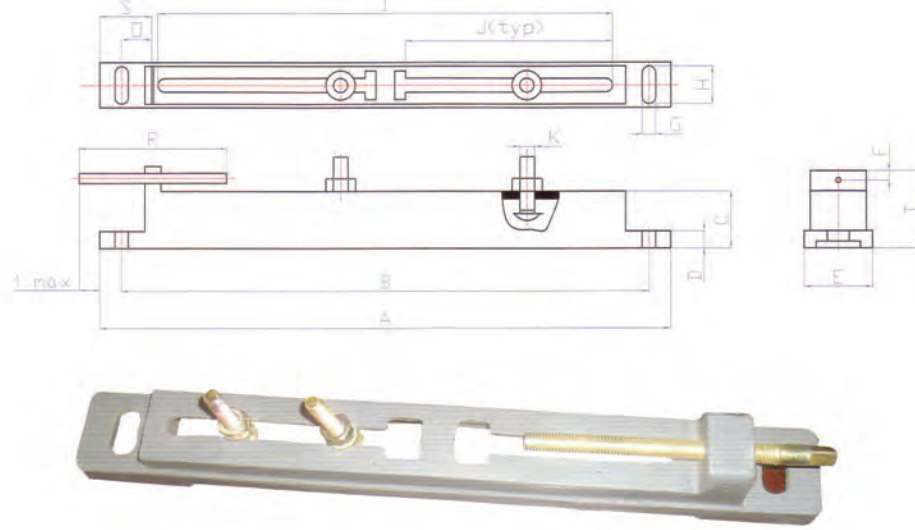
| METRIC | |
|-----------|---------|
| Size | App. Kg |
| 4 x 4mm | 0.04 |
| 5 x 5mm | 0.06 |
| 6 x 6mm | 0.08 |
| 7 x 7mm | 0.13 |
| 7 x 8mm | 0.13 |
| 8 x 8mm | 0.15 |
| 8 x 10mm | 0.19 |
| 8 x 12mm | 0.23 |
| 9 x 14mm | 0.30 |
| 10 x 10mm | 0.24 |
| 10 x 12mm | 0.28 |
| 10 x 16mm | 0.38 |
| 11 x 18mm | 0.47 |
| 12 x 12mm | 0.34 |
| 12 x 20mm | 0.57 |
| 14 x 14mm | 0.46 |
| 14 x 22mm | 0.73 |
| 14 x 25mm | 0.82 |
| 16 x 16mm | 0.60 |
| 16 x 28mm | 1.06 |
| 18 x 18mm | 0.76 |
| 18 x 32mm | 1.36 |
| 20 x 20mm | 0.94 |
| 20 x 36mm | 1.70 |
| 22 x 22mm | 1.14 |
| 25 x 25mm | 0A |
| 22 x 40mm | 2.07 |

Supplied in 30cm/12" lengths.

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Motor Rail

“Australia’s Only
Genuine Wholesaler”

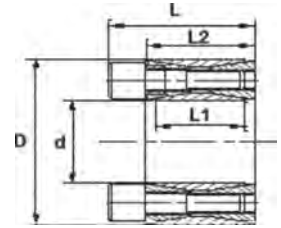


| Frame Size | MR08090 | MR100132 | MR160180 | MR220225 | MR250280 | MR315355 |
|------------|---------|----------|----------|----------|----------|----------|
| A | 380 | 475 | 567 | 790 | 945 | 1220 |
| B | 328 | 425 | 515 | 780 | 870 | 1115 |
| C | 30 | 37 | 48 | 60 | 70 | 125 |
| D | 15 | 19 | 19 | 32 | 38 | 40 |
| E | 48 | 70 | 72 | 92 | 105 | 122 |
| F | 10 | 10 | 11 | 18 | 16 | 22 |
| G | 15 | 14 | 18 | 20 | 21 | 30 |
| H | 25 | 35 | 35 | 20 | 21 | 30 |
| I | 245 | 340 | 380 | 610 | 725 | 920 |
| J | 95 | 150 | 162 | 285 | 305 | 420 |
| K | 8 | 10 | 12 | 16 | 20 | 24 |
| M | 75 | 135 | 115 | 200 | 240 | 285 |
| N | 25 | 26 | 28 | 30 | 35 | 50 |
| O | 40 | 42 | 57 | 60 | 70 | 105 |
| R | 145 | 200 | 200 | 290 | 380 | 450 |
| S | 65 | 68 | 85 | 90 | 105 | 155 |
| T | 50 | 62 | 70 | 92 | 110 | 170 |
| Weight KGS | 3 | 8.5 | 10 | 22 | 40 | 105 |

Self Locking Units (Type-01)

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.

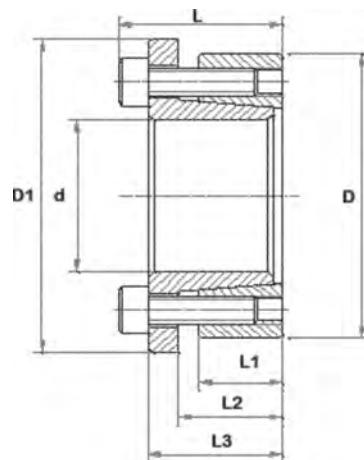
Locking Assemblies provide reliable, high strength keyless connections for shaft driven devices. When the Locking Units bolts are tightened plates engage with both the shaft and the inside circumference of the driven component. The locking assembly distributes the applied pressure evenly. No keyways or grubscrews are required with this device.



| Dimensions | | | | | Performance | | Pressure | | Clamping Screws DIN912-12.9 | | |
|------------|-----|----|----|----|-------------------------|------------------------------|--|--|--------------------------------|--------|-----------------------------|
| φd | φD | L1 | L2 | L | Transmissible Torque KN | Transmissible Axial Force Nm | Shaft Surface Pressure N/mm ² | Hub Surface Pressure N/mm ² | 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 | | |
| 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 | | |

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

| Dimensions | | | | | | | Transmissible Torque KN | Transmissible Axial Force Nm | Pressure | | Clamping Screws DIN912-12.9 | | |
|------------|-----|-----|----|----|----|----|-------------------------|------------------------------|--|--|-----------------------------|--------|-----------------------------|
| φd | φD | φD1 | L1 | L2 | L3 | L | | | Shaft Surface Pressure N/mm ² | Hub Surface Pressure N/mm ² | 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 | 0A | 0A | 0A | 0A | 0A | | | | | | | |
| 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 |

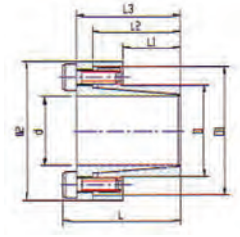


Self Locking Units (Type-02) (Self Centering)



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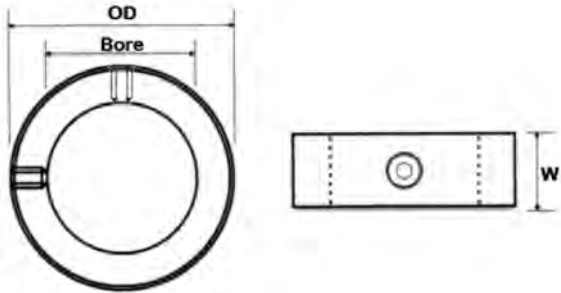
| Size | | | | | | | | Passing Axis Pressure Ft KN | Passing Torque Mt Nm | Contracting Pressure | | DIN912-12.9 Locking screw | | |
|------|-----|----|-----|-----|-----|-----|-----|--------------------------------|-------------------------|------------------------------------|------------------------------------|---------------------------|-------|-------------------------|
| φd | φD | L1 | L2 | L3 | L | D2 | D1 | | | Axis P N/ mm ² | Hub P1 N/ mm ² | Quantity | Size | Locking Torque 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 | 0A | 0A | 0A | 0A | 0A | 0A | | | | | | | |
| 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 | 0A | 0A | 0A | 0A | 0A | 0A | | | | | | | |
| 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 |



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



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-10 | 10.0 | 20.0 | 10.0 | M6*6 | 0.02 |
| FSC-12 | 12.0 | 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 |

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-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-1-1/2 | 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 |
|------|------------|
| All | +0.01mm |
| | 0.05mm |

Width Tolerance

| All | +0.08 |
|-----|-------|
| | -0.25 |

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" |

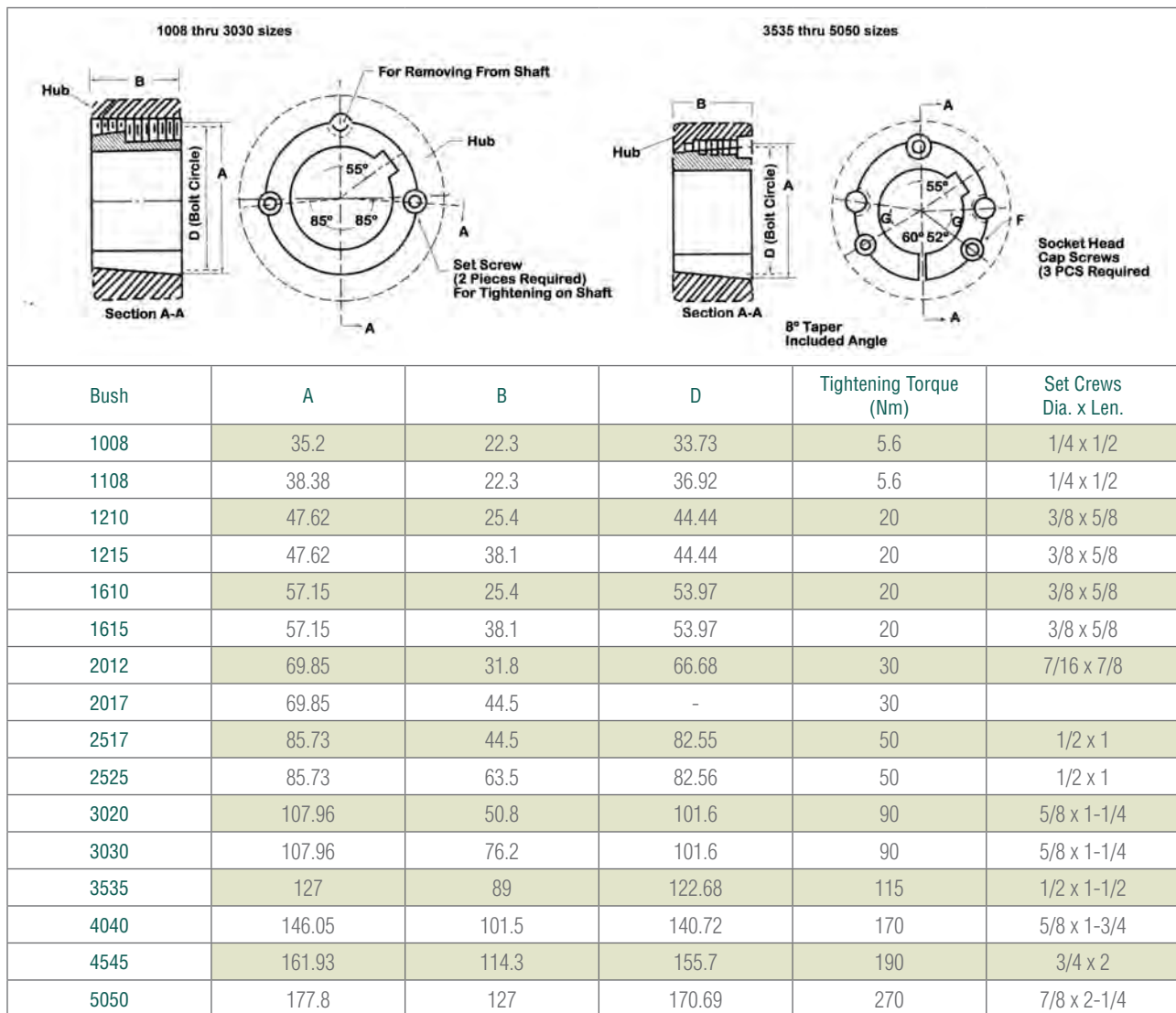
Taper Lock Bush

“Why compete against your supplier when you can be our partner”

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, it 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.



Note: 1008 – 3030 require two screws
3535 – 5050 requires three screws

Taper Lock Bush (metric)

| Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg |
|------|------|----------------|---------|------|-------|----------------|---------|-------|------|----------------|---------|-------|------|----------------|---------|
| 1008 | 10 | 4x4 | 0.13 | 1610 | 14 | 5x5 | 0.42 | 2517 | 16 | 5x5 | 1.75 | 3535 | 35 | 10x8 | 4.96 |
| | 12 | 4x4 | 0.13 | | 16 | 5x5 | 0.41 | | 18 | 6x6 | 1.71 | | 38 | 10x8 | 4.88 |
| | 14 | 5x5 | 0.13 | | 18 | 6x6 | 0.4 | | 19 | 6x6 | 1.66 | | 40 | 12x8 | 4.82 |
| | 15 | 5x5 | 0.13 | | 19 | 6x6 | 0.4 | | 20 | 6x6 | 1.62 | | 42 | 12x8 | 4.76 |
| | 16 | 5x5 | 0.12 | | 20 | 6x6 | 0.39 | | 22 | 6x6 | 1.58 | | 45 | 14x9 | 4.67 |
| | 18 | 6x6 | 0.12 | | 22 | 6x6 | 0.38 | | 24 | 8x7 | 1.56 | | 48 | 14x9 | 4.57 |
| | 19 | 6x6 | 0.1 | | 24 | 8x7 | 0.36 | | 25 | 8x7 | 1.56 | | 50 | 14x9 | 4.5 |
| | 20 | 6x6 | 0.1 | | 25 | 8x7 | 0.35 | | 28 | 8x7 | 1.5 | | 55 | 16x10 | 4.31 |
| | 22 | 6x6 | 0.1 | | 28 | 8x7 | 0.33 | | 30 | 8x7 | 1.49 | | 60 | 18x11 | 4.1 |
| | 24 | 8x7 | 0.09 | | 30 | 8x7 | 0.31 | | 32 | 10x8 | 1.46 | | 65 | 18x11 | 3.88 |
| 25 | 8x7 | 0.08 | 32 | 10x8 | 0.29 | 35 | 10x8 | 1.42 | 70 | 20x12 | 3.64 | | | | |
| 1108 | 10 | 4x4 | 0.16 | 1615 | 35 | 10x8 | 0.26 | 2525 | 38 | 10x8 | 1.35 | 4030 | 75 | 20x12 | 3.38 |
| | 11 | 4x4 | 0.16 | | 38 | 10x8 | 0.24 | | 40 | 12x8 | 1.31 | | 80 | 22x14 | 3.1 |
| | 12 | 4x4 | 0.16 | | 40 | 12x8 | 0.22 | | 42 | 12x8 | 1.26 | | 85 | 22x14 | 2.8 |
| | 14 | 5x5 | 0.16 | | 42 | 12x8 | 0.2 | | 45 | 14x9 | 1.2 | | 90 | 25x14 | 2.49 |
| | 15 | 5x5 | 0.15 | | 14 | 5x5 | 0.6 | | 48 | 14x9 | 1.14 | | 70 | 20x12 | 8.2 |
| | 16 | 5x5 | 0.14 | | 16 | 5x5 | 0.58 | | 50 | 14x9 | 1.1 | | 75 | 20x12 | 7.7 |
| | 18 | 6x6 | 0.14 | | 18 | 6x6 | 0.56 | | 55 | 16x10 | 0.95 | | 40 | 12x8 | 10.46 |
| | 19 | 6x6 | 0.13 | | 19 | 6x6 | 0.54 | | 60 | 18x11 | 0.82 | | 42 | 12x8 | 10.07 |
| | 20 | 6x6 | 0.13 | | 20 | 6x6 | 0.54 | | 65 | 18x11 | | | 45 | 14x9 | 9.77 |
| | 22 | 6x6 | 0.12 | | 22 | 6x6 | 0.52 | | 28 | 8x7 | 2.09 | | 48 | 14x9 | 9.64 |
| 24 | 8x7 | 0.11 | 24 | 8x7 | 0.5 | 30 | 8x7 | 2.05 | 50 | 14x9 | 9.5 | | | | |
| 25 | 8x7 | 0.1 | 25 | 8x7 | 0.49 | 32 | 10x8 | 2.01 | 55 | 16x10 | 9.25 | | | | |
| 28 | 8x7 | 0.09 | 28 | 8x7 | 0.47 | 35 | 10x8 | 1.94 | 60 | 18x11 | 8.9 | | | | |
| 1210 | 11 | 4x4 | 0.3 | 30 | 8x7 | 0.44 | 38 | 10x8 | 1.86 | 4040 | 65 | 18x11 | 8.5 | | |
| | 12 | 4x4 | 0.28 | 32 | 10x8 | 0.41 | 40 | 12x8 | 1.8 | 70 | 20x12 | 8.2 | | | |
| | 14 | 5x5 | 0.28 | 35 | 10x8 | 0.38 | 42 | 12x8 | 1.74 | 75 | 20x12 | 7.7 | | | |
| | 15 | 5x5 | 0.27 | 38 | 10x8 | 0.33 | 45 | 14x9 | 1.64 | 80 | 22x14 | 7.4 | | | |
| | 16 | 5x5 | 0.27 | 40 | 12x8 | 0.31 | 48 | 14x9 | 1.55 | 85 | 22x14 | 6.9 | | | |
| | 18 | 6x6 | 0.26 | 42 | 12x8 | 0.28 | 50 | 14x9 | 1.48 | 90 | 25x14 | 6.4 | | | |
| | 19 | 6x6 | 0.25 | 14 | 5x5 | 0.79 | 55 | 16x10 | 1.29 | 95 | 25x14 | 5.95 | | | |
| | 20 | 6x6 | 0.25 | 15 | 5x5 | 0.78 | 60 | 18x11 | 1.08 | 100 | 28x16 | 5.5 | | | |
| | 22 | 6x6 | 0.23 | 16 | 5x5 | 0.78 | 24 | 8x7 | 2.89 | 55 | 16x10 | 13.2 | | | |
| | 24 | 8x7 | 0.22 | 18 | 6x6 | 0.77 | 25 | 8x7 | 2.93 | 60 | 18x11 | 12.9 | | | |
| 25 | 8x7 | 0.21 | 19 | 6x6 | 0.76 | 28 | 8x7 | 2.88 | 65 | 18x11 | 12.4 | | | | |
| 28 | 8x7 | 0.19 | 20 | 6x6 | 0.76 | 30 | 8x7 | 2.85 | 70 | 20x12 | 12 | | | | |
| 30 | 8x7 | 0.17 | 22 | 6x6 | 0.74 | 32 | 10x8 | 2.84 | 75 | 20x12 | 11.5 | | | | |
| 32 | 10x8 | 0.15 | 24 | 8x7 | 0.73 | 35 | 10x8 | 2.77 | 80 | 22x14 | 10.9 | | | | |
| 1215 | 11 | 4x4 | 0.41 | 25 | 8x7 | 0.71 | 38 | 10x8 | 2.71 | 4545 | 85 | 22x14 | 10.5 | | |
| | 12 | 4x4 | 0.4 | 28 | 8x7 | 0.68 | 40 | 12x8 | 2.67 | 90 | 25x14 | 9.9 | | | |
| | 14 | 5x5 | 0.39 | 30 | 8x7 | 0.66 | 42 | 12x8 | 2.6 | 95 | 25x14 | 9.5 | | | |
| | 16 | 5x5 | 0.38 | 32 | 10x8 | 0.64 | 45 | 14x9 | 2.56 | 100 | 28x16 | 8.9 | | | |
| | 18 | 6x6 | 0.37 | 34 | 10x8 | 0.61 | 48 | 14x9 | 2.47 | 105 | 28x16 | 8.2 | | | |
| | 19 | 6x6 | 0.36 | 35 | 10x8 | 0.61 | 50 | 14x9 | 2.2 | 110 | 28x16 | 7.4 | | | |
| | 20 | 6x6 | 0.35 | 38 | 10x8 | 0.57 | 55 | 16x10 | 2.15 | 70 | 20x12 | 17 | | | |
| | 22 | 6x6 | 0.33 | 40 | 12x8 | 0.54 | 60 | 18x11 | 2.07 | 75 | 20x12 | 16.3 | | | |
| | 24 | 8x7 | 0.31 | 42 | 12x8 | 0.51 | 65 | 18x11 | 1.93 | 80 | 22x14 | 15.6 | | | |
| | 25 | 8x7 | 0.29 | 45 | 14x9 | 0.47 | 70 | 20x12 | 1.7 | 85 | 22x14 | 15 | | | |
| 28 | 8x7 | 0.26 | 48 | 14x9 | 0.42 | 75 | 20x12 | 1.5 | 90 | 25x14 | 14.4 | | | | |
| 30 | 8x7 | 0.24 | 50 | 14x9 | 0.37 | 35 | 10x8 | 3.97 | 95 | 25x14 | 13.6 | | | | |
| 32 | 10x8 | 0.22 | 24 | 8x7 | | 38 | 10x8 | 3.89 | 100 | 28x16 | 12.9 | | | | |
| 1717 | 25 | 8x7 | | 40 | 12x8 | | 42 | 12x8 | 3.65 | 110 | 28x16 | 11.5 | | | |
| | 28 | 8x7 | | 45 | 14x9 | | 45 | 14x9 | 3.4 | 120 | 32x18 | 9.8 | | | |
| | 30 | 8x7 | | 48 | 14x9 | | 48 | 14x9 | 3.5 | 125 | 32x18 | 8.9 | | | |
| | 32 | 10x8 | | 50 | 14x9 | | 50 | 14x9 | 3.42 | | | | | | |
| | 35 | 10x8 | | 55 | 16x10 | | 55 | 16x10 | 3.2 | | | | | | |
| | 38 | 10x8 | | 60 | 18x11 | | 60 | 18x11 | 2.95 | | | | | | |
| | 40 | 12x8 | | 65 | 18x11 | | 65 | 18x11 | 2.67 | | | | | | |
| | 42 | 12x8 | | 70 | 20x12 | | 70 | 20x12 | 2.45 | | | | | | |
| | 45 | 14x9 | | 75 | 20x12 | | 75 | 20x12 | 2.1 | | | | | | |
| | 50 | 14x9 | | | | | | | | | | | | | |

Taper Lock Bush (imperial)



"Why compete against your supplier when you can be our partner"

| Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg | Bush | Bore | Keyway (W x D) | App. Kg | | | | |
|-------|-------------|----------------|---------|----------|-------------|----------------|-----------|-------------|-------|----------------|-------------|-------|-------------|----------------|-----------|-----------|---------------|-----------|------|
| 1008 | 3/8 | 1/8 x 1/8 | 0.15 | 2012 | 5/8 | 3/16 x 3/16 | 0.78 | 3020 | 1 1/8 | 5/16 x 5/16 | 2.85 | 4030 | 2 1/4 | 5/8x5/8 | 9.25 | | | | |
| | 1/2 | 1/8 x 1/8 | 0.14 | | 3/4 | 3/16 x 3/16 | 0.76 | | 1 1/4 | 5/16 x 5/16 | 2.84 | | 1 3/4 | 7/16 x7/16 | 9.77 | | | | |
| | 5/8 | 3/16 x 3/16 | 0.12 | | 7/8 | 1/4 x1/4 | 0.74 | | 1 3/8 | 3/8 x 3/8 | 2.77 | | 1 7/8 | 1/2 x1/2 | 9.64 | | | | |
| | 3/4 | 3/16 x 3/16 | 0.1 | | 1 | 1/4 x1/4 | 0.7 | | 1 1/2 | 3/8 x 3/8 | 2.71 | | 2 | 1/2 x1/2 | 9.5 | | | | |
| | 7/8 | 1/4 x 1/4 | 0.09 | | 1 1/8 | 5/16 x 5/16 | 0.67 | | 1 5/8 | 7/16 x 7/16 | 2.6 | | 2 1/8 | 5/8 x 5/8 | 9.35 | | | | |
| | 1 | 1/4 x 1/4 | 0.08 | | 1 1/4 | 5/16 x 5/16 | 0.64 | | 1 3/4 | 7/16 x 7/16 | 2.56 | | 2 3/8 | 5/8 x 5/8 | 9.25 | | | | |
| 1108 | 3/8 | 1/8 x 1/8 | 0.16 | | 1 3/8 | 3/8 x 3/8 | 0.61 | | 1 7/8 | 1/2 x 1/2 | 2.47 | | 2 1/2 | 5/8 x 5/8 | 8.3 | 4040 | 2 3/8 | 5/8 x 5/8 | 8.9 |
| | 1/2 | 1/8 x 1/8 | 0.16 | | 1 1/2 | 3/8 x 3/8 | 0.57 | | 2 | 1/2 x 1/2 | 2.2 | | 2 5/8 | 3/4 x 3/4 | 8.2 | | 2 1/2 | 5/8 x 5/8 | 8.3 |
| | 5/8 | 3/16 x 3/16 | 0.14 | | 1 5/8 | 7/16 x 7/16 | 0.54 | | 2 1/8 | 5/8 x 5/8 | 2.15 | | 2 3/4 | 3/4 x 3/4 | 8.1 | | 2 7/8 | 3/4 x 3/4 | 8.95 |
| | 3/4 | 3/16 x 3/16 | 0.13 | | 1 3/4 | 7/16 x 7/16 | 0.47 | | 2 1/4 | 5/8 x 5/8 | 2.1 | | 2 1/2 | 5/8 x 5/8 | 7.7 | | 3 | 3/4 x 3/4 | 7.7 |
| | 7/8 | 1/4 x 1/4 | 0.12 | | 1 7/8 | 1/2 x 1/2 | 0.42 | | 2 3/8 | 5/8 x 5/8 | 2.07 | | 2 5/8 | 3/4 x 3/4 | 7.4 | | 3 1/8 | 7/8 x 7/8 | 7.4 |
| | 1 | 1/4 x 1/4 | 0.1 | | 2 | 1/2 x 1/2 | 0.37 | | 2 1/2 | 5/8 x 5/8 | 1.93 | | 2 3/4 | 3/4 x 3/4 | 7.3 | | 3 3/8 | 7/8 x 7/8 | 6.9 |
| | 1 1/8 | 5/16 x 5/16 | 0.09 | 1 | 1/4 x1/4 | | 2 5/8 | 3/4 x 3/4 | 1.93 | 2 7/8 | 3/4 x 3/4 | 6.9 | 3 1/2 | 7/8 x 7/8 | 6.4 | | | | |
| 1210 | 1/2 | 1/8 x 1/8 | 0.28 | 2017 | 1 1/8 | 5/16 x 5/16 | | 3030 | 1 1/4 | 5/16 x 5/16 | 4.04 | 4545 | 2 1/4 | 5/8 x 5/8 | 13.2 | | | | |
| | 5/8 | 3/16 x 3/16 | 0.27 | | 1 1/4 | 5/16 x 5/16 | | | 1 3/8 | 3/8 x 3/8 | 3.97 | | 2 1/2 | 5/8 x 5/8 | 12.9 | | | | |
| | 3/4 | 3/16 x 3/16 | 0.25 | | 1 3/8 | 3/8 x 3/8 | | | 1 1/2 | 3/8 x 3/8 | 3.89 | | 2 5/8 | 3/4 x 3/4 | 12.4 | | | | |
| | 7/8 | 1/4 x 1/4 | 0.23 | | 1 1/2 | 3/8 x 3/8 | | | 1 5/8 | 7/16 x 7/16 | 3.65 | | 1 3/4 | 7/16 x 7/16 | 12.4 | | | | |
| | 1 | 1/4 x 1/4 | 0.21 | | 1 3/4 | 7/16 x 7/16 | | | 1 7/8 | 1/2 x 1/2 | 3.5 | | 1 7/8 | 1/2 x 1/2 | 12 | | | | |
| | 1 1/8 | 5/16 x 5/16 | 0.19 | | 2 | 1/2 x 1/2 | | | 2 | 1/2 x 1/2 | 3.42 | | 2 | 1/2 x 1/2 | 11.5 | | | | |
| 1 1/4 | 5/16 x 5/16 | 0.18 | 7/8 | 1/4 x1/4 | 1.58 | 2 1/8 | 5/8 x 5/8 | | 3.2 | 2 1/8 | 5/8 x 5/8 | | 10.9 | 3 | 3/4 x 3/4 | 10.9 | | | |
| 1215 | 5/8 | 3/16 x 3/16 | 0.38 | 2517 | 3/4 | 3/16 x 3/16 | 1.66 | | 3030 | 2 1/4 | 5/8 x 5/8 | | 3 | 4545 | 3 1/8 | 7/8 x 7/8 | 10.7 | | |
| | 3/4 | 3/16 x 3/16 | 0.35 | | 1 | 1/4 x 1/8 | 1.56 | | | 2 1/4 | 5/8 x 5/8 | | 3 | | 3 1/4 | 7/8 x 7/8 | 10.6 | | |
| | 7/8 | 1/4 x 1/4 | 0.33 | | 1 1/8 | 5/16 x 5/16 | 1.5 | | | 2 3/8 | 5/8 x 5/8 | | 2.67 | | 3 1/8 | 7/8 x 7/8 | 10.6 | | |
| | 1 | 1/4 x 1/4 | 0.29 | | 1 1/4 | 5/16 x 5/16 | 1.46 | | | 2 1/2 | 5/8 x 5/8 | | 2.45 | | 3 3/8 | 7/8 x 7/8 | 10.5 | | |
| | 1 1/8 | 5/16 x 5/16 | 0.26 | | 1 3/8 | 3/8 x 3/8 | 1.42 | | | 2 3/8 | 5/8 x 5/8 | | 2.38 | | 3 1/2 | 7/8 x 7/8 | 10 | | |
| | 1 1/4 | 5/16 x 5/16 | 0.22 | | 1 1/2 | 3/8 x 3/8 | 1.35 | 2 1/2 | | 5/8 x 5/8 | 2.2 | 3 3/4 | 1 x 1 | | 9.5 | | | | |
| | 1/2 | 1/8 x 1/16 | 0.44 | | 1 5/8 | 7/16 x 7/16 | 1.27 | 2 1/2 | | 5/8 x 5/8 | 2.1 | 4 | 1 x 1 | | 8.9 | | | | |
| 1610 | 5/8 | 3/16 x 3/16 | 0.41 | | 1 3/4 | 7/16 x 7/16 | 1.2 | 2 5/8 | | 3/4 x 3/4 | 2.38 | 2 3/4 | 3/4 x 3/4 | | 2.3 | 4 1/8 | 1 1/4 x 1 1/4 | 8.2 | |
| | 3/4 | 3/16 x 3/16 | 0.4 | | 1 7/8 | 1/2 x 1/2 | 1.14 | 2 3/4 | | 3/4 x 3/4 | 2.3 | 2 7/8 | 3/4 x 3/4 | | 2.2 | 4 1/4 | 1 1/4 x 1 1/4 | 7.9 | |
| | 7/8 | 1/4 x 1/4 | 0.38 | | 2 | 1/2 x 1/2 | 1.1 | 2 7/8 | | 3/4 x 3/4 | 2.2 | 3 | 3/4 x 3/4 | | 2.1 | 4 1/2 | 1 1/4 x 1 1/4 | 7.4 | |
| | 1 | 1/4 x 1/4 | 0.35 | | 2 1/8 | 5/8 x 5/8 | 0.95 | 3 | | 3/4 x 3/4 | 2.1 | 1 1/4 | 5/16 x 5/16 | | 6.2 | 2 3/4 | 3/4 x 3/4 | 17 | |
| | 1 1/8 | 5/16 x 5/16 | 0.31 | | 2 1/4 | 5/8 x 5/8 | 0.82 | 1 1/4 | | 5/16 x 5/16 | 6.2 | 1 3/8 | 3/8 x 3/8 | | 6.5 | 3 | 3/4 x 3/4 | 16.8 | |
| | 1 1/4 | 5/16 x 5/16 | 0.29 | 2 3/8 | 5/8 x 5/8 | 0.69 | 1 1/2 | 3/8 x 3/8 | 6.6 | 1 5/8 | 7/16 x 7/16 | 6.6 | 3 1/4 | 7/8 x 7/8 | 15.5 | | | | |
| | 1 3/8 | 3/8 x 3/8 | 0.26 | 2 1/2 | 5/8 x 5/8 | 0.63 | 1 3/4 | 7/16 x 7/16 | 6.25 | 1 7/8 | 1/2 x 1/2 | 6.1 | 3 1/2 | 7/8 x 7/8 | 15.3 | | | | |
| | 1 1/2 | 3/8 x 3/8 | 0.24 | 1 | 1/4 x1/4 | 2.15 | 2 | 1/2 x 1/2 | 6 | 2 | 1/2 x 1/2 | 6 | 4 | 1 x 1 | 12.9 | | | | |
| | 1 5/8 | 7/16 x 7/16 | 0.2 | 1 1/8 | 5/16 x 5/16 | 2.09 | 2 1/8 | 5/8 x 5/8 | 5.77 | 1 3/4 | 7/16 x 7/16 | 6.25 | 4 1/4 | 1 1/4 x 1 1/4 | 12.2 | | | | |
| | 1/2 | 1/8 x 1/8 | 0.6 | 1 1/4 | 5/16 x 5/16 | 2.01 | 2 1/4 | 5/8 x 5/8 | 5.55 | 1 7/8 | 1/2 x 1/2 | 6.1 | 4 1/2 | 1 1/4 x 1 1/4 | 10.6 | | | | |
| 1615 | 5/8 | 3/16 x 3/16 | 0.58 | 2525 | 1 3/8 | 3/8 x 3/8 | 1.94 | 3535 | 2 3/8 | 5/8 x 5/8 | 5.45 | 5050 | 5 | 1 1/4 x 1 1/4 | 8.9 | | | | |
| | 3/4 | 3/16 x 3/16 | 0.56 | | 1 1/2 | 3/8 x 3/8 | 1.86 | | 2 1/2 | 5/8 x 5/8 | 5.35 | | 2 1/2 | 5/8 x 5/8 | 5.35 | | | | |
| | 7/8 | 1/4 x 1/4 | 0.52 | | 1 5/8 | 7/16 x 7/16 | 1.74 | | 2 5/8 | 3/4 x 3/4 | 5.15 | | 2 3/4 | 3/4 x 3/4 | 4.8 | | | | |
| | 1 | 1/4 x 1/4 | 0.49 | | 1 3/4 | 7/16 x 7/16 | 1.65 | | 2 7/8 | 3/4 x 3/4 | 4.55 | | 2 7/8 | 3/4 x 3/4 | 4.55 | | | | |
| | 1 1/8 | 5/16 x 5/16 | 0.47 | | 1 7/8 | 1/2 x 1/2 | 1.55 | | 3 | 3/4 x 3/4 | 4.45 | | 3 | 3/4 x 3/4 | 4.45 | | | | |
| | 1 1/4 | 5/16 x 5/16 | 0.44 | | 2 | 1/2 x 1/2 | 1.48 | | 3 1/8 | 7/8 x 7/8 | 4.25 | | 3 1/4 | 7/8 x 7/8 | 4.06 | | | | |
| | 1 3/8 | 3/8 x 3/8 | 0.38 | | 2 1/8 | 5/8 x 5/8 | 1.29 | | 3 3/8 | 7/8 x 7/8 | 3.63 | | 3 1/2 | 7/8 x 7/8 | | | | | |
| | 1 1/2 | 3/8 x 3/8 | 0.33 | | 2 1/4 | 5/8 x 5/8 | 1.23 | | | | | | | | | | | | |
| | 1 5/8 | 7/16 x 7/16 | 0.3 | | 2 3/8 | 5/8 x 5/8 | 1.17 | | | | | | | | | | | | |
| | | | | | 2 1/2 | 5/8 x 5/8 | 1.1 | | | | | | | | | | | | |

ASSORTMENT

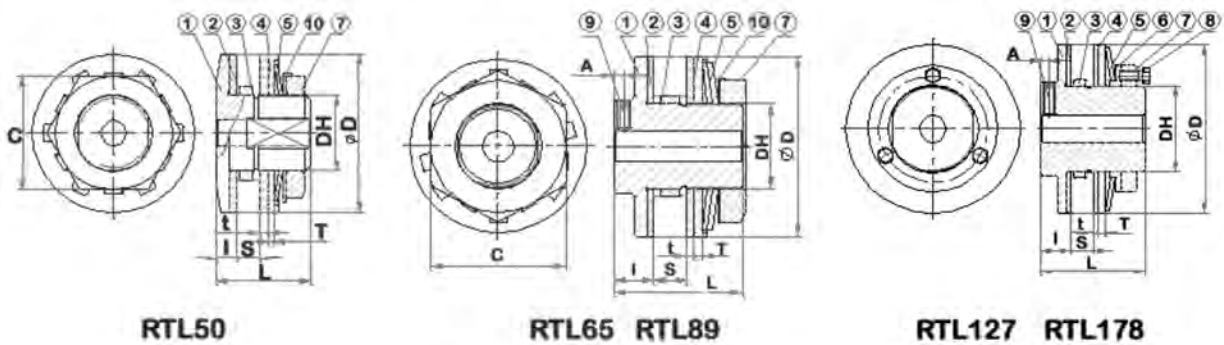
Finer Power Transmissions P/L | www.finerpt.com

The Finer Torque Limiter has been designed to protect drive systems from unnecessary overload. When too much torque is transmitted through a drive, the Torque Limiter automatically slips on its shaft when a predetermined torque level is reached.

This device is suitable in situations where there is excessive and unpredictable shock loads, overloads or machine jams. When the problem in the system is overcome or removed, the Torque Limiter automatically reengages, unlike other devices, such as those with shear pin mechanisms, which have to be manually reset.

Torque Limiters not only prevent damage to drive systems but also eliminates unnecessary downtime due to system resets.

The Torque Limiter utilizes spring loaded friction surfaces, the slip torque is preset by the adjustment of the spring force, this is as simple as tightening or loosening the appropriate nut or bolt.



RTL50

RTL65 RTL89

RTL127 RTL178

| | | | | |
|--------------------|-------------------|----------------|--------------------|-----------------|
| 1) Hub | 3) Bushing | 5) Disc Spring | 7) Adjustment Nut | 9) Set Screw |
| 2) Friction Facing | 4) Pressure Plate | 6) Pilot Plate | 8) Adjustment Bolt | 10) Lock Washer |

| Size | Torque Range (kgf-m) | Plain Bore | Max Bore | Bush Length | OD of Bush | Bore for Centre Member | D | DH | L | L | T | t | S (Max) | A | C | Adjust. Nut | Adjust. Bolt | Set Screw | (kg) | | |
|----------|----------------------|------------|----------|-------------|------------|------------------------|-----|--------|-----|----|----|-----|---------|-----|----|-------------|--------------|-----------|----------------|-----|--------|
| RTL50-1 | 0.3 ~ 1.0 | 8 | 14 | 3.8 | 30 | -0.020 | 30 | +0.033 | 50 | 24 | 29 | 6.5 | 1.6 | 2.5 | 7 | - | 36 | M24 P1.0 | - | - | 0.248 |
| RTL50-2 | 0.7 ~ 2.0 | | | -0.041 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.256 |
| RTL65-1 | 0.7 ~ 2.8 | 10 | 22 | 6 | 41 | -0.025 | 41 | +0.039 | 65 | 35 | 48 | 16 | 4 | 3.2 | 9 | 4 | 50 | M35 P1.5 | - | M5 | 0.721 |
| RTL65-2 | 1.4 ~ 5.5 | | | -0.050 | 0 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | 0.739 |
| RTL89-1 | 2.0 ~ 7.6 | 17 | 25 | 6 | 49 | -0.025 | 49 | +0.039 | 89 | 42 | 62 | 19 | 4 | 3.2 | 16 | 5 | 65 | M42 P1.5 | - | M6 | 2.417 |
| RTL89-2 | 3.5 ~ 15.2 | | | 8 | | | | | | | | | | | | | | | | | -0.050 |
| RTL127-1 | 4.8 ~ 21.4 | 20 | 42 | 6 | 74 | -0.030 | 74 | +0.046 | 127 | 65 | 76 | 22 | 6 | 3.2 | 16 | 6 | - | M65 P1.5 | M8 P1.0 3pcs | M8 | 3.692 |
| RTL127-2 | 9.0 ~ 42.9 | | | 8 | | | | | | | | | | | | | | | | | -0.060 |
| RTL178-1 | 11.8 ~ 58.1 | 30 | 64 | 8 | 105 | -0.036 | 105 | +0.054 | 178 | 95 | 98 | 24 | 7 | 3.2 | 29 | 6.5 | - | M95 P1.5 | M10 P1.25 3pcs | M10 | 9.033 |
| RTL178-2 | 22.8 ~ 111 | | | 9.5 | | | | | | | | | | | | | | | | | -0.071 |

Selection

Determine the required slip torque from the loading conditions or from the design strength of the machine. If the loading conditions of the machine are unknown, set the required slip torque of the torque limiter to 1.5~2 times the torque that the motor produces on the shaft where the torque limiter is mounted.

Select a Torque Limiter that has enough torque range and bore range.

Determine the proper bushing length from the thickness of the centre member to be inserted between the friction facings. Always choose the largest bushing which does not exceed the width of the centre member, shown as S Max in the dimension table.

Torque Limiters



"Why compete against your supplier when you can be our partner"

Centre Member

The centre member should be machined on its rubbing surface to obtain the rated torque and be flat, parallel, square with the bore and free from rust, scale and oil. Surface finish recommended is Ra1.6. If the centre member is not in accordance with these specifications, the slip torque will be erratic.

The Max. Bore of the centre member is listed below. Also shown is the Min. number of sprocket teeth to be used and the bushing length.

| Size | Bore of Centre Member (mm) | 9.525-06B | | 12.7-08B | | 15.875-10B | | 19.05-12B | | 25.4-16B | | 31.75-20B | | 38.1-24B | |
|--------|----------------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|
| | | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) | Spr. Min. Teeth | Bush Length (mm) |
| RTL50 | 30 | 20 | 3.8 | 16 | 6 | - | - | - | - | - | - | - | - | - | - |
| RTL65 | 41 | - | - | 20 | 6 | 17 | 8 | - | - | - | - | - | - | - | - |
| RTL89 | 49 | - | - | 26 | 6 | 21 | 8 | 18 | 9.5 | 15 | 14.5 | - | - | - | - |
| RTL127 | 74 | - | - | 35 | 6 | 29 | 8 | 25 | 9.5 | 19 | 14.5 | - | - | - | - |
| RTL178 | 105 | - | - | - | - | 39 | 8 | 33 | 9.5 | 26 | 14.5 | 21 | 17 | 18 | 22 |

Torque Settings

The torque setting of the Torque Limiter is manipulated by tightening or loosening the adjustment nut and/or the adjustment bolts. RTL 50 – RTL 89 use an adjustment nut, RTL 127 – RTL 178 use adjustment bolts.

The torque setting is adjusted after the Torque Limiter is mounted on the shaft, once the Torque Limiter is mounted:

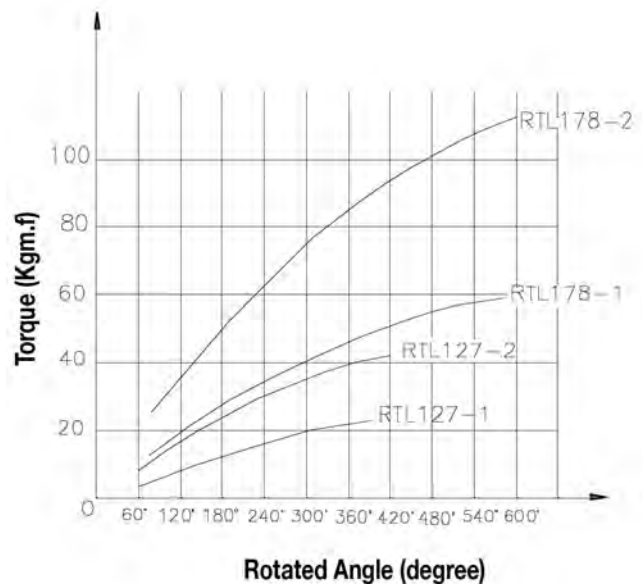
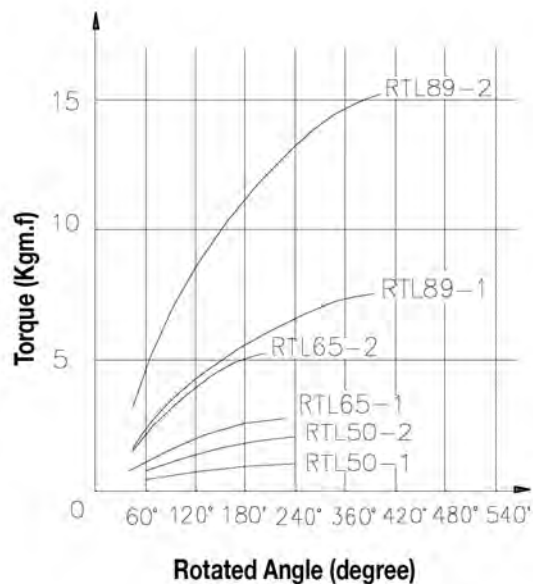
RTL 50 – RTL 89

First, rotate the adjustment nut tightly by hand so that the disk spring fits the plate. Then tentatively tighten the nut by about 60 degrees with a wrench.

RTL 127 – RTL 178

First, rotate the nut for fixing the disk spring to the plate, and then tighten each adjustment bolt by about 60 degrees. Then, if the Torque Limiter slips under normal loading conditions, tighten the bolts gradually until the Torque Limiter stops slipping. Always tighten or loosen the bolts evenly. You may have to make several adjustments to find the appropriate setting for the machine. For your guidance the below chart shows the relation between the effective rotated angle and preset torque.

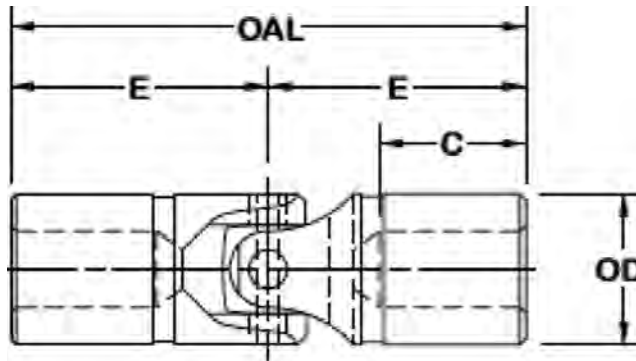
For precise torque setting, run-in of the Torque Limiter is recommended, eg: 500 revolution at 50~60rpm with a rotated angle of 45 degrees of the adjustment bolts.



Universal Joints

Finer Power Transmissions stock a range of Universal joints in D Type blank bores; the blank bore allows for any bore diameter up to the recommended maximum.

- **D Type:**
Multi-purpose industrial type, standard pin and block design.



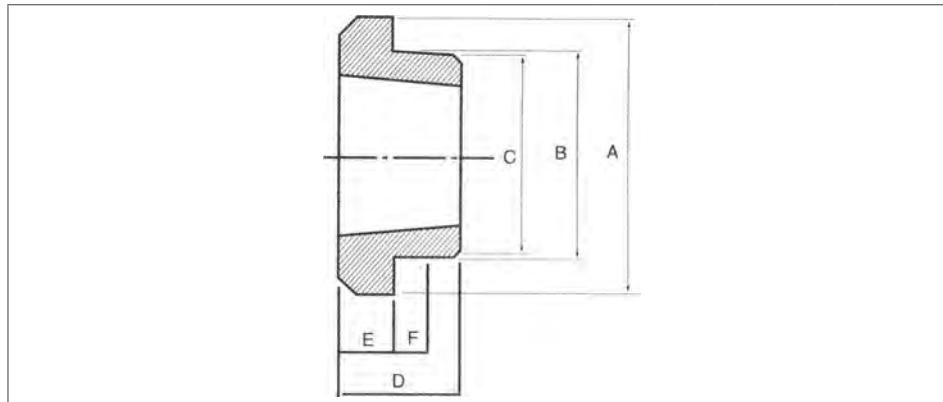
| U- joint Size | Max. Bore No Keyway | | Max. Bore with Keyway | | Max. Square/ Hex Hole | | OD | OAL | Bore Depth | | Static Breaking Torques | | App. Weight Kg |
|---------------|---------------------|----|-----------------------|----|-----------------------|----|------|------|------------|------|-------------------------|------|----------------|
| | in | mm | in | mm | in | mm | | | C | E | in-lb | Nm | |
| D-1 | 0.25 | 6 | | | 0.19 | 4 | 0.38 | 1.75 | 0.56 | 0.88 | 110 | 12 | 0.02 |
| D-2 | 0.38 | 9 | | | 0.25 | 6 | 0.50 | 2.00 | 0.62 | 1.00 | 378 | 42 | 0.05 |
| D-3 | 0.50 | 12 | 0.25 | 6 | 0.31 | 8 | 0.62 | 2.25 | 0.68 | 1.12 | 540 | 61 | 0.07 |
| D-4 | 0.62 | 15 | 0.44 | 11 | 0.38 | 9 | 0.75 | 2.68 | 0.88 | 1.34 | 768 | 86 | 0.14 |
| D-5 | 0.69 | 17 | 0.50 | 12 | 0.44 | 11 | 0.88 | 3.00 | 0.88 | 1.50 | 1176 | 132 | 0.21 |
| D-6 | 0.75 | 19 | 0.56 | 13 | 0.50 | 12 | 1.00 | 3.38 | 1.00 | 1.68 | 1560 | 176 | 0.29 |
| D-7 | 0.88 | 22 | 0.62 | 15 | 0.56 | 14 | 1.12 | 3.50 | 1.00 | 1.75 | 2880 | 325 | 0.38 |
| D-8 | 1.00 | 25 | 0.75 | 18 | 0.62 | 15 | 1.25 | 3.75 | 1.06 | 1.88 | 5220 | 589 | 0.50 |
| D-10 | 1.12 | 28 | 0.88 | 21 | 0.75 | 19 | 1.50 | 4.25 | 1.18 | 2.12 | 7920 | 895 | 0.82 |
| D-11 | 1.25 | 31 | 1.00 | 25 | 0.88 | 22 | 1.75 | 5.00 | 1.38 | 2.50 | 10680 | 1206 | 1.36 |
| D-12 | 1.50 | 38 | 1.19 | 30 | 1.00 | 25 | 2.00 | 5.44 | 1.50 | 2.75 | 15600 | 1762 | 1.90 |
| D-13 | 1.75 | 44 | 1.50 | 39 | 1.12 | 28 | 2.50 | 7.00 | 2.00 | 3.50 | 33120 | 3742 | 3.86 |
| D-14 | 2.00 | 50 | 1.81 | 48 | 1.38 | 35 | 3.00 | 9.06 | 2.75 | 4.53 | 65400 | 7389 | 7.25 |

Weld on Hub

Taper Bore Weld-on Hubs are drilled, tapped 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.

- **Type W**

The 'W' Type Weld-on-Hub is designed for applications with a relatively high demand torque. The taper bore has a recess machined in the centre to prevent distortion of the taper when a heavy weld bead is applied.



| Hub Ref. | 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 | 184.15 | 158.75 | 157.96 | 88.9 | 31.75 | 25.4 |
| W40 | 4040 | 225.43 | 196.85 | 196.06 | 101.6 | 31.75 | 31.75 |
| W45 | 4545 | 254 | 222.25 | 221.46 | 114.3 | 38.1 | 38.1 |
| W50 | 5050 | 276 | 234 | 226 | 126 | 38.1 | 75 |

- **Type WH**

The 'WH' Type Weld-on-Hub is designed for applications with a relatively low torque, requiring only moderate weld strength. A heavy run of weld on the WH hub may cause some distortion of the taper bore.

| Hub Ref. | 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 | 179.5 | 65 | 25 | 25 |
| WH45 | 4545 | 210 | 200 | 199.5 | 114 | 40 | 30 |