



One Range, One Result, **One Name ...**



CHAINS | SPROCKETS | SHAFT FIXINGS | COUPLINGS | GEARED DRIVES | INVERTERS | MOTORS | BELTS | PULLEYS | CHAINS | SPROCKETS | SHAFT FIXINGS | COUPLINGS

Fenner[®]
THE MARK OF ENGINEERING EXCELLENCE

Shaft fixings

kennis maakt het verschil

ERIKS



Fenner®

SHAFT FIXINGS

The extended range of Fenner shaft fixing devices offers the ideal means for every application. As well as the industrial standard Taper Lock bush, and associated hubs/adaptors, the Fenner keyless fixing device range includes FenLock fixings in most formats and the rapid fit Trantorque GT.



Shaft Fixings Design Data Required

- **Shaft dimensions**
diameter and tolerance
length
- **Keyway details if present**
- **Torque to be transmitted**
- **Product hub details**
diameter
length
material (strength)
- **Special considerations**
already taper bored?
bending moments on the shaft

SHAFT FIXINGS

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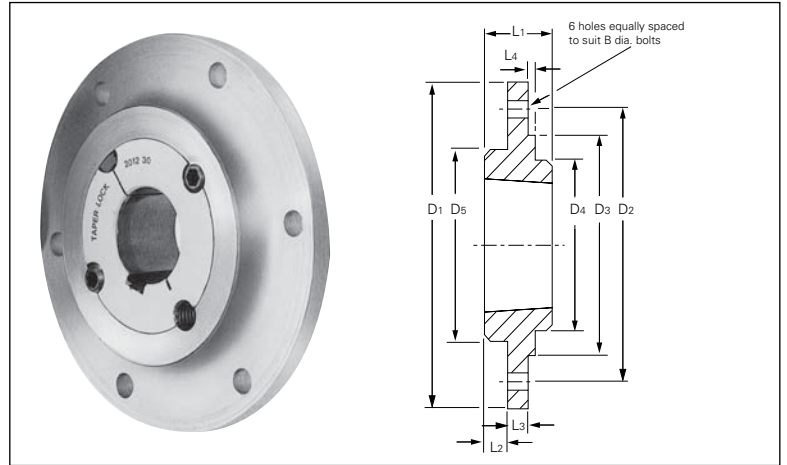
BOLT-ON-HUBS

Fenner Taper Lock Bolt-on Hubs are designed for use with the universally accepted Taper Lock bush.

They provide a convenient means of securing fan rotors, impellers, agitators and other devices which must be fastened firmly to shafts.

| Product Code | Size | Use Bush Size | D ₁ | D ₂ | D ₃ * | D ₄ | D ₅ |
|--------------|-------------|---------------|----------------|----------------|------------------|----------------|----------------|
| 017C0010 | BF12 | 1210 | 120 | 100 | 80 | 74 | 80 |
| 017G0010 | BF16 | 1610 | 130 | 110 | 90 | 84 | 90 |
| 017K0010 | BF20 | 2012 | 145 | 125 | 100 | 99 | 100 |
| 017M0010 | BF25 | 2517 | 185 | 155 | 130 | 120 | 119 |
| 017P0010 | BF30 | 3020 | 220 | 190 | 165 | 146 | 147 |

*Bore tolerance of D₃ +0mm/-0.05mm is recommended



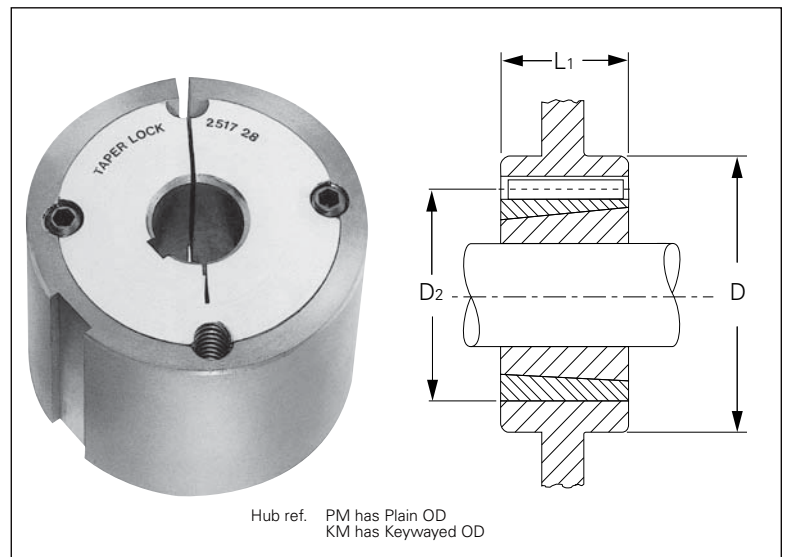
| Product Code | Size | Use Bush Size | L ₁ | L ₂ | L ₃ | L ₄ | B |
|--------------|-------------|---------------|----------------|----------------|----------------|----------------|-----|
| 017C0010 | BF12 | 1210 | 25 | 10 | 6.5 | 2.5 | M6 |
| 017G0010 | BF16 | 1610 | 25 | 10 | 6.5 | 2.5 | M6 |
| 017K0010 | BF20 | 2012 | 32 | 13 | 8.5 | 2.5 | M8 |
| 017M0010 | BF25 | 2517 | 44 | 20 | 11.5 | 2.5 | M10 |
| 017P0010 | BF30 | 3020 | 50 | 20 | 11.5 | 2.5 | M16 |

ADAPTORS

Adaptors for Fenner Taper Lock bushes are available for use in parallel bored components, either keyed (KM) or plain (PM) thereby eliminating the need to drill, tap and taper-bore.

| Product Code | Hub ref. | L ₁ | D ₂ | Key Section | Hub dia. D | | |
|--------------|---------------|----------------|----------------|-------------|---------------------------|-----------------------|-----|
| | | | | | Cast Iron BS1452 GG-20-25 | Steel BS970Pt1 070M20 | |
| 030A0200 | 1008PM | 22 | 45 | - | 71 | 62 | 56 |
| 030A0210 | 1008KM | | | 5 x 5 | 75 | 67 | 60 |
| 030C0200 | 1210PM | 25 | 60 | - | 97 | 85 | 76 |
| 030C0210 | 1210KM | | | 6 x 6 | 103 | 93 | 85 |
| 030G0200 | 1610PM | 25 | 70 | - | 106 | 95 | 86 |
| 030G0210 | 1610KM | | | 10 x 8 | 113 | 102 | 92 |
| 030M0200 | 2517PM | 45 | 105 | - | 145 | 133 | 121 |
| 030M0210 | 2517KM | | | 16 x 10 | 151 | 140 | 127 |
| 030Q0200 | 3030PM | 76 | 130 | - | 181 | 165 | 156 |
| 030Q0210 | 3030KM | | | 20 x 12 | 191 | 175 | 159 |
| 030R0200 | 3535PM | 89 | 160 | - | 225 | 203 | 191 |
| 030R0210 | 3535KM | | | 22 x 12 | 235 | 213 | 200 |
| 030S0200 | 4040PM | 102 | 185 | - | 275 | 248 | 229 |
| 030S0210 | 4040KM | | | 24 x 12 | 285 | 257 | 238 |

*Bore tolerance of D₃ +0.025/+0.075mm recommended
All dimensions in millimetres.



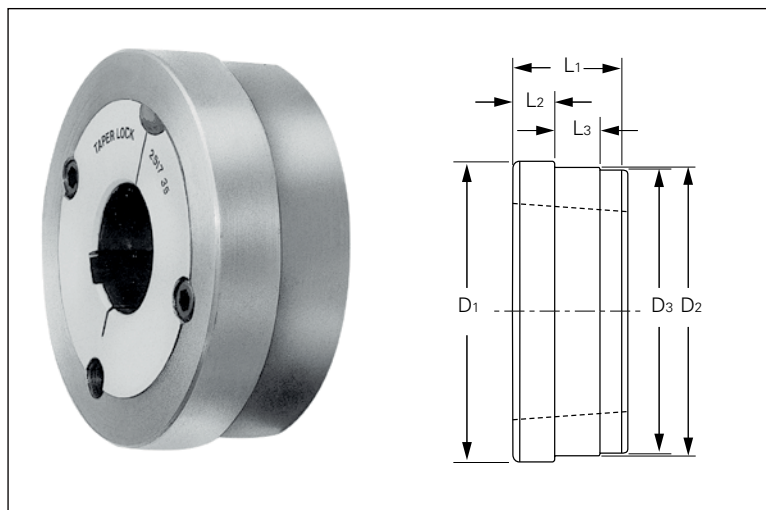
WELD-ON-HUBS

Fenner Taper Lock Weld-on Hubs are made of steel, grade 070M20, drilled, tapped and taper bored to receive standard Taper Lock bushes.

The shouldered outer diameter provides a convenient means of welding hubs into fan rotors, steel pulleys, plate sprockets, impellers, agitators and many other devices which must be firmly fastened to the shaft.

| Product Code | Size | Use Bush Size | D ₁ | D ₂ * | D ₃ | L ₁ | L ₂ | L ₃ |
|--------------|------|---------------|----------------|------------------|----------------|----------------|----------------|----------------|
| 025C0010 | WH12 | 1210 | 70 | 65 | 64.5 | 25 | 9 | 10 |
| 025G0010 | WH16 | 1610 | 80 | 75 | 74.5 | 25 | 9 | 10 |
| 025K0010 | WH20 | 2012 | 95 | 90 | 89.5 | 32 | 12 | 12 |
| 025M0010 | WH25 | 2517 | 115 | 110 | 109.5 | 44 | 19 | 15 |
| 025P0010 | WH30 | 3020 | 145 | 140 | 139.5 | 50 | 20 | 15 |
| 025J0010 | WH35 | 3525 | 190 | 180 | 179.5 | 65 | 25 | 25 |
| 025X0010 | WH40 | 4030 | 200 | 190 | 189.5 | 76 | 32 | 30 |
| 025Y0010 | WH45 | 4535 | 210 | 200 | 199.5 | 89 | 40 | 30 |
| 025Z0010 | WH50 | 5040 | 230 | 220 | 219.5 | 102 | 40 | 35 |

*Bore tolerance of D₂ +0mm/-0.05mm is recommended



WELDING INSTRUCTIONS

Fenner Taper Lock Weld-on Hubs are made of steel, are machined to accept Taper Lock bushes for shaft fixing, and have a precision machined shoulder against which flanges or webs can be located.

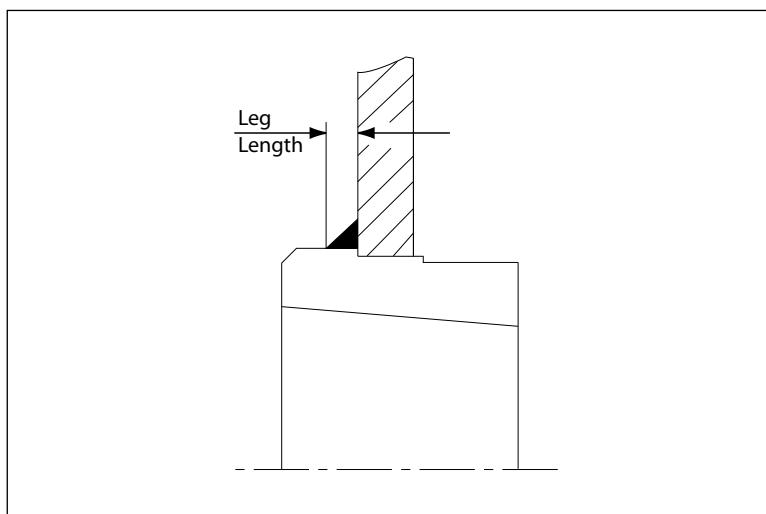
It is recommended that a continuous 45° mitre weld be used, working on the larger hub diameter section only. To ensure accuracy in the welded assembly it is essential to apply only sufficient weld to achieve sufficient strength.

Excess weld should not be necessary for normal use and, due to greater heat input, gives a higher risk of distortion.

The table below shows recommended continuous fillet weld requirements for each hub size.

| Hub No | Leg Length mm |
|--------|---------------|
| WH12 | 4 |
| WH16 | 4 |
| WH20 | 5 |
| WH25 | 5 |
| WH30 | 6 |
| WH35 | 6 |
| WH40 | 8 |
| WH45 | 8 |
| WH50 | 10 |

For electric arc welding, low hydrogen electrodes are recommended



METRIC BORES AND KEYWAYS

| Bore Dia. | Keyway | | Shallow Keyway Depth | Product Code | | | | | | | | | | |
|-----------|--------|-------|----------------------|--------------|-------------|----------|-------------|-------------|----------|----------|----------|------|----------|--|
| | Width | Depth | | 1008 | 1108 | 1210 | 1610 | 1615 | 2012 | 2517 | 3020 | 3030 | | |
| 9 | 3 | 1.4 | – | 029A0009 | 029B0009 | | | | | | | | | |
| 10 | 3 | 1.4 | – | 010 | 010 | | | | | | | | | |
| 11 | 4 | 1.8 | – | 011 | 011 | 029C0011 | | | | | | | | |
| 12 | 4 | 1.8 | – | 012 | 012 | 012 | | | | | | | | |
| 14 | 5 | 2.3 | – | 014 | 014 | 014 | 029G0014 | 029H0014 | 029K0014 | | | | | |
| 15 | 5 | 2.3 | – | 015 | 015 | 015 | 015 | 015 | 015 | | | | | |
| 16 | 5 | 2.3 | – | 016 | 016 | 016 | 016 | 016 | 016 | 029M0016 | | | | |
| 18 | 6 | 2.8 | – | 018 | 018 | 018 | 018 | 018 | 018 | 018 | | | | |
| 19 | 6 | 2.8 | – | 019 | 019 | 019 | 019 | 019 | 019 | 019 | | | | |
| 20 | 6 | 2.8 | – | 020 | 020 | 020 | 020 | 020 | 020 | 020 | | | | |
| 22 | 6 | 2.8 | – | 022 | 022 | 022 | 022 | 022 | 022 | 022 | | | | |
| 24 | 8 | 3.3 | 1.3 | 024* | 024 | 024 | 024 | 024 | 024 | 024 | | | | |
| 25 | 8 | 3.3 | 1.3 | 025* | 025 | 025 | 025 | 025 | 025 | 025 | 029P0025 | | | |
| 28 | 8 | 3.3 | 1.3 | | 028* | 028 | 028 | 028 | 028 | 028 | 028 | | | |
| 30 | 8 | 3.3 | – | | | 030 | 030 | 030 | 030 | 030 | 030 | | | |
| 32 | 10 | 3.3 | – | | | 032 | 032 | 032 | 032 | 032 | 032 | | | |
| 35 | 10 | 3.3 | – | | | | 035 | 035 | 035 | 035 | 035 | | 029Q0035 | |
| 38 | 10 | 3.3 | – | | | | 038 | 038 | 038 | 038 | 038 | | 038 | |
| 40 | 12 | 3.3 | – | | | | 040 | 040 | 040 | 040 | 040 | | 040 | |
| 42 | 12 | 3.3 | 2.2 | | | | 042* | 042* | 042 | 042 | 042 | | 042 | |
| 45 | 14 | 3.8 | – | | | | | | 045 | 045 | 045 | | 045 | |
| 48 | 14 | 3.8 | – | | | | | | 048 | 048 | 048 | | 048 | |
| 50 | 14 | 3.8 | – | | | | | | 050 | 050 | 050 | | 050 | |
| 55 | 16 | 4.3 | – | | | | | | | 055 | 055 | | 055 | |
| 60 | 18 | 4.4 | – | | | | | | | 060 | 060 | | 060 | |
| 65 | 18 | 4.4 | – | | | | | | | | 065 | | 065 | |
| 70 | 20 | 4.9 | – | | | | | | | | 070 | | 070 | |
| 75 | 20 | 4.9 | – | | | | | | | | 075 | | 075 | |

METRIC BORES AND KEYWAYS

| Bore Dia. | Keyway | | Shallow Keyway Depth | Product Code | | | | | | | | | | |
|-----------|--------|-------|----------------------|--------------|-------------|-------------|----------|------------|----------|----------|------|----------|--|-----|
| | Width | Depth | | 3525 | 3535 | 4030 | 4040 | 4535 | 4545 | 5040 | 5050 | | | |
| 35 | 10 | 3.3 | – | 029J0035 | 029R0035 | | | | | | | | | |
| 38 | 10 | 3.3 | – | 038 | 038 | | | | | | | | | |
| 40 | 12 | 3.3 | – | 040 | 040 | 029X0040 | 029S0040 | | | | | | | |
| 42 | 12 | 3.3 | – | 042 | 042 | 042 | 042 | | | | | | | |
| 45 | 14 | 3.8 | – | 045 | 045 | 045 | 045 | | | | | | | |
| 48 | 14 | 3.8 | – | 048 | 048 | 048 | 048 | | | | | | | |
| 50 | 14 | 3.8 | – | 050 | 050 | 050 | 050 | | | | | | | |
| 55 | 16 | 4.3 | – | 055 | 055 | 055 | 055 | 029Y0055 | 029T0055 | | | | | |
| 60 | 18 | 4.4 | – | 060 | 060 | 060 | 060 | 060 | 060 | | | | | |
| 65 | 18 | 4.4 | – | 065 | 065 | 065 | 065 | 065 | 065 | | | | | |
| 70 | 20 | 4.9 | – | 070 | 070 | 070 | 070 | 070 | 070 | 029Z0070 | | 029U0070 | | |
| 75 | 20 | 4.9 | – | 075 | 075 | 075 | 075 | 075 | 075 | 075 | | 075 | | 075 |
| 80 | 22 | 5.4 | – | 080 | 080 | 080 | 080 | 080 | 080 | 080 | | 080 | | 080 |
| 85 | 22 | 5.4 | – | 085 | 085 | 085 | 085 | 085 | 085 | 085 | | 085 | | 085 |
| 90 | 25 | 5.4 | – | 090 | 090 | 090 | 090 | 090 | 090 | 090 | | 090 | | 090 |
| 95 | 25 | 5.4 | – | | 095 | 095 | 095 | 095 | 095 | 095 | | 095 | | 095 |
| 100 | 28 | 6.4 | 4.4 | | 100* | 100 | 100 | 100 | 100 | 100 | | 100 | | 100 |
| 105 | 28 | 6.4 | – | | | 105 | | 105 | 105 | 105 | | 105 | | 105 |
| 110 | 28 | 6.4 | – | | | 110 | | 110 | 110 | 110 | | 110 | | 110 |
| 115 | 32 | 7.4 | 5.4 | | | 115* | | 115 | | 115 | | 115 | | 115 |
| 120 | 32 | 7.4 | – | | | | | 120 | | 120 | | 120 | | 120 |
| 125 | 32 | 7.4 | – | | | | | 125 | | 125 | | 125 | | 125 |

Dimensions in millimetres.

Keyways are British Standard Metric BS 4235: Part 1: 1972 DIN 6885 and conform to ISO recommendations with the exception of those marked* which are shallower. Where a key is to be used it should be parallel and side fitting, with top clearance. Depth of keyway is measured at the CENTRE.

Bold italic type indicates bushes made of steel or ductile iron.

Taper Lock Inch Bushes



INCH BORES AND KEYWAYS

| Bore Dia. | Keyway | | Shallow Keyway Depth | Product Code | | | | | | | | | | |
|-----------|--------|-------|----------------------|--------------|-------------|----------|----------|----------|----------|----------|----------|----------|-----|-----|
| | Width | Depth | | 1008 | 1108 | 1210 | 1610 | 1615 | 2012 | 2517 | 3020 | 3030 | | |
| 0.375 | 0.125 | 0.06 | – | 019A0006 | 019B0006 | | | | | | | | | |
| 0.500 | 0.125 | 0.06 | – | 008 | 008 | | 019G0008 | 019H0008 | | | | | | |
| 0.625 | 0.187 | 0.09 | – | 010 | 010 | 019C0010 | 010 | 010 | | | | | | |
| 0.750 | 0.187 | 0.09 | – | 012 | 012 | 012 | 012 | 012 | 019K0012 | 019M0012 | | | | |
| 0.875 | 0.250 | 0.12 | – | 014 | 014 | 014 | 014 | 014 | 014 | 014 | | | | |
| 1.000 | 0.250 | 0.12 | 0.052 | 100* | 100 | 100 | 100 | 100 | 100 | 100 | | | | |
| 1.125 | 0.312 | 0.11 | 0.064 | | 102* | 102 | 102 | 102 | 102 | 102 | | | | |
| 1.250 | 0.312 | 0.11 | – | | | 104 | 104 | 104 | 104 | 104 | 019P0104 | 019Q0104 | | |
| 1.375 | 0.375 | 0.11 | – | | | | 106 | 106 | 106 | 106 | 106 | 106 | 106 | 106 |
| 1.500 | 0.375 | 0.11 | – | | | | 108 | 108 | 108 | 108 | 108 | 108 | 108 | 108 |
| 1.625 | 0.437 | 0.13 | 0.103 | | | | 110 | 110* | 110 | 110 | 110 | 110 | 110 | 110 |
| 1.750 | 0.437 | 0.13 | – | | | | | | 112 | 112 | 112 | 112 | 112 | 112 |
| 1.875 | 0.500 | 0.13 | – | | | | | | 114 | 114 | 114 | 114 | 114 | 114 |
| 2.000 | 0.500 | 0.13 | – | | | | | | 200 | 200 | 200 | 200 | 200 | 200 |
| 2.125 | 0.625 | 0.18 | – | | | | | | | 202 | 202 | 202 | 202 | 202 |
| 2.250 | 0.625 | 0.18 | – | | | | | | | 204 | 204 | 204 | 204 | 204 |
| 2.375 | 0.625 | 0.18 | – | | | | | | | 206 | 206 | 206 | 206 | 206 |
| 2.500 | 0.625 | 0.18 | – | | | | | | | 208 | 208 | 208 | 208 | 208 |
| 2.625 | 0.750 | 0.21 | – | | | | | | | | 210 | 210 | 210 | 210 |
| 2.750 | 0.750 | 0.21 | – | | | | | | | | 212 | 212 | 212 | 212 |
| 2.875 | 0.750 | 0.21 | – | | | | | | | | 214 | 214 | 214 | 214 |
| 3.000 | 0.750 | 0.21 | – | | | | | | | | 300 | 300 | 300 | 300 |

INCH BORES AND KEYWAYS

| Bore Dia. | Keyway | | Shallow Keyway Depth | Product Code | | | | | | | | | | |
|-----------|--------|-------|----------------------|--------------|----------|-------------|---------|-------------|----------|----------|----------|-----|-----|-----|
| | Width | Depth | | 3525 | 3535 | 4030 | 4040 | 4535 | 4545 | 5040 | 5050 | | | |
| 1.500 | 0.375 | 0.11 | – | 019J0108 | 019R0108 | | | | | | | | | |
| 1.625 | 0.437 | 0.13 | – | 110 | 110 | | | | | | | | | |
| 1.750 | 0.437 | 0.13 | – | 112 | 112 | 019X0112 | 19S0112 | | | | | | | |
| 1.875 | 0.500 | 0.13 | – | 114 | 114 | 114 | 114 | | | | | | | |
| 2.000 | 0.500 | 0.13 | – | 200 | 200 | 200 | 200 | | | | | | | |
| 2.125 | 0.625 | 0.18 | – | 202 | 202 | 202 | 202 | | | | | | | |
| 2.250 | 0.625 | 0.18 | – | 204 | 204 | 204 | 204 | 019Y0204 | 019T0204 | | | | | |
| 2.375 | 0.625 | 0.18 | – | 206 | 206 | 206 | 206 | 206 | 206 | | | | | |
| 2.500 | 0.625 | 0.18 | – | 208 | 208 | 208 | 208 | 208 | 208 | | | | | |
| 2.625 | 0.750 | 0.21 | – | 210 | 210 | 210 | 210 | 210 | 210 | | | | | |
| 2.750 | 0.750 | 0.21 | – | 212 | 212 | 212 | 212 | 212 | 212 | 019Z0212 | 019U0212 | | | |
| 2.875 | 0.750 | 0.21 | – | 214 | 214 | 214 | 214 | 214 | 214 | 214 | 214 | 214 | 214 | 214 |
| 3.000 | 0.750 | 0.21 | – | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 | 300 |
| 3.125 | 0.875 | 0.26 | – | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 | 302 |
| 3.250 | 0.875 | 0.26 | – | 304 | 304 | 304 | 304 | 304 | 304 | 304 | 304 | 304 | 304 | 304 |
| 3.375 | 0.875 | 0.26 | – | 306 | 306 | 306 | 306 | 306 | 306 | 306 | 306 | 306 | 306 | 306 |
| 3.500 | 0.875 | 0.26 | – | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 | 308 |
| 3.750 | 1.000 | 0.32 | 0.245 | 312* | | 312 | 312 | 312 | 312 | 312 | 312 | 312 | 312 | 312 |
| 4.000 | 1.000 | 0.32 | 0.155 | 400* | | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 | 400 |
| 4.250 | 1.250 | 0.37 | – | | | 404 | | 404 | 404 | 404 | 404 | 404 | 404 | 404 |
| 4.500 | 1.250 | 0.37 | 0.255 | | | 408* | | 408 | 408 | 408 | 408 | 408 | 408 | 408 |
| 4.750 | 1.250 | 0.37 | – | | | | | 412 | | | 412 | 412 | 412 | 412 |
| 5.000 | 1.250 | 0.37 | 0.258 | | | | | 500* | | | 500 | 500 | 500 | 500 |

Dimensions in inches.

All Keyways are parallel and to British Standard 46: Part 1: 1958, with the exception of those marked* which are shallower.

Where a key is to be used it should be side fitting, with top clearance. Depth of keyway is measured at the CENTRE.

Bold italic type indicates bushes made of steel or ductile iron.

MINIMUM DIAMETERS OF TAPER BORED HUBS

The following table shows the recommended minimum diameter in mm for bespoke component hubs that are to be drilled, tapped and taper bored for use with Taper Lock bushes. The table differentiates between grey iron and ductile materials of various minimum tensile strength grades (in N/mm² or MN/m² units, which are numerically equal).

All standard Fenner Taper Lock products are tested to ensure that they are capable of safely containing the radial and circumferential hub stresses generated by the wedging mechanism which makes Taper Lock the equivalent of a shrink-on fit. For Taper Lock hub machining details, consult your local Authorised Distributor.

| Taper Lock® Bush | Minimum Hub Diameters (mm) for Various Materials | | | |
|---------------------|--|------------------|-----------------------------|--------------|
| | Tensile Strength N/mm ² | | | |
| | Cast Iron 180 | Cast Iron 250 | Steel / Ductile Iron 420 | Steel 600 |
| 1008 | 62 | 54 | 51 | 47 |
| 1108 | 64 | 57 | 54 | 50 |
| 1210 | 104 | 86 | 78 | 69 |
| 1610 | 109 | 92 | 85 | 78 |
| 1615 | 90 | 81 | 77 | 73 |
| 2012 | 121 | 106 | 99 | 92 |
| 2517 | 130 | 119 | 113 | 108 |
| 3020 | 160 | 146 | 140 | 132 |
| 3030 | 144 | 136 | 132 | 127 |
| 3525 | 211 | 191 | 178 | 167 |
| 3535 | 191 | 176 | 168 | 160 |
| 4030 | 224 | 207 | 197 | 186 |
| 4040 | 209 | 195 | 188 | 180 |
| 4535 | 223 | 212 | 205 | 198 |
| 4545 | 215 | 205 | 200 | 194 |
| 5040 | 240 | 229 | 223 | 216 |
| 5050 | 233 | 223 | 219 | 213 |

AVERAGE SLIP TORQUES FOR TAPER LOCK FIXING (WITHOUT KEY)

The following table shows empirically derived average slip torque values in Nm for each basic Taper Lock bush size with a variety of common metric bore diameters. The values assume that the assembly uses a Fenner Taper Lock bush fitted, in accordance with the instructions supplied with every bush, to a hub prepared to the Fenner specification. Slip will tend to occur at the bush/shaft interface, at the prescribed torque, unless a key is fitted. With a key, the slip tendency transfers to the bush/hub interface at a greater torque value related to the ratio of bush outer dia. to bore dia.. Consult your local Authorised Distributor for specific values.

Formula to calculate the slip torque if a key is used: $\frac{\text{Large OD of Bush}^\#}{\text{Bush bore}} \times \text{Average slip torque value}$

[#] From the table on page 129

| Bush | Bore (mm) | Average Slip Torque (Nm) | Bush | Bore (mm) | Average Slip Torque (Nm) | |
|------|-----------|--------------------------|-------|-----------|--------------------------|------|
| 1008 | 12 | 29 | 3020 | 38 | 520 | |
| | 19 | 51 | | 3030 | 48 | 730 |
| | 24 | 66 | | | 55 | 890 |
| 1108 | 12 | 28 | 3525* | | 60 | 970 |
| | 19 | 49 | | 75 | 1300 | |
| | 24 | 64 | | 3535 | 42 | 1000 |
| | 28 | 79 | | | 60 | 1580 |
| 1210 | 16 | 82 | 4030* | 75 | 2150 | |
| | 19 | 105 | | 90 | 2600 | |
| | 24 | 142 | | 100* | 3075 | |
| | 32 | 210 | | 4040 | 48 | 1700 |
| 1610 | 19 | 98 | 60 | | 2300 | |
| | 1615 | 24 | 135 | | 75 | 3150 |
| | | 38 | 240 | | 100 | 4400 |
| | | 42 | 265 | 115* | 5150 | |
| 2012 | | 24 | 165 | 4535* | 55 | 2500 |
| 2012 | 38 | 320 | 4545 | | 75 | 3900 |
| | 42 | 340 | | | 100 | 5500 |
| | 48 | 400 | | | 110 | 6300 |
| | 50 | 420 | | 125* | 6625 | |
| 2517 | 24 | 220 | 5040 | 75 | 3950 | |
| | 38 | 380 | | 5050 | 100 | 5650 |
| | 42 | 430 | | | 125 | 7370 |
| | 48 | 510 | | | | |
| | 55 | 600 | | | | |
| | 60 | 670 | | | | |

Large bores marked* are only available in bush sizes marked*

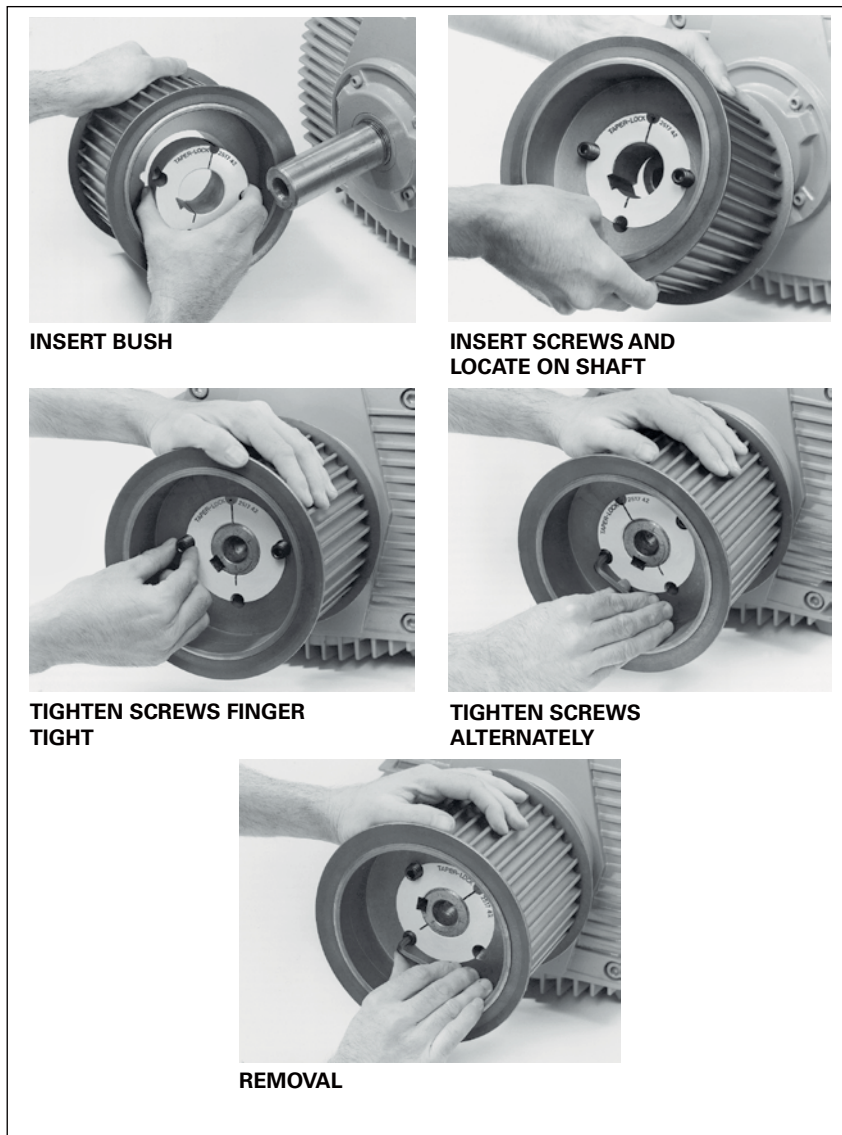
Taper Lock bushes work effectively on shaft diameters of: Nominal +0.05 / -0.125mm

Taper Lock Installation Instructions



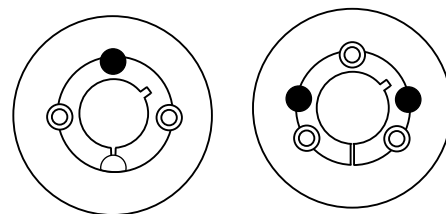
TO INSTALL

1. After ensuring that the mating tapered surfaces, bore and shaft are completely clean and free from oil or dirt, insert bush in hub so that holes line up.
2. Sparingly oil thread and point of grub screws, or thread and under head of cap screws. Place screws loosely in holes threaded in hub, shown thus ⊙ in diagram.
3. If a key is to be fitted place it in the shaft keyway before fitting the bush. It is essential that it is a parallel key and side fitting only and has TOP CLEARANCE.
4. Clean shaft and fit hub to shaft as one unit and locate in position desired, remembering that bush will nip the shaft first and then hub will be slightly drawn on to the brush.
5. Using a hexagon wrench tighten screws gradually and alternately to torque shown in table below.
6. Hammer against large-end of bush, using a block or sleeve to prevent damage. (This will ensure that the bush is seated squarely in the bore.) Screws will now turn a little more. Repeat this alternate hammering and screw tightening once or twice to achieve maximum grip on the shaft.
7. After drive has been running under load for a short time stop and check tightness of screws.
8. Fill empty holes with grease to exclude dirt.



TO REMOVE

1. Slacken all screws by several turns, remove one or two according to number of removal holes shown thus ● in diagram. Insert screws into removal holes after oiling thread and under head of cap screws.
2. Tighten screws alternately until bush is loosened in hub and assembly is free on the shaft.
3. Remove assembly from shaft.



REMOVAL HOLES ●

| Bush size | 1008 | 1108 | 1210 | 1610 | 1615 | 2012 | 2517 | 3020 | 3030 | 3525 | 3535 | 4030 | 4040 | 4535 | 4545 | 5040 | 5050 |
|------------------------------|-----------------------|------|------|------|------|------|-------|-------|------|------|------|------|------|------|------|------|------|
| Screw tightening torque (Nm) | 5.6 | 5.6 | 20 | 20 | 20 | 30 | 50 | 90 | 90 | 115 | 115 | 170 | 170 | 190 | 190 | 270 | 270 |
| qty | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| Screw details | size (BSW) | 1/4" | 1/4" | 3/8" | 3/8" | 3/8" | 7/16" | 1/2" | 5/8" | 5/8" | 1/2" | 1/2" | 5/8" | 5/8" | 3/4" | 3/4" | 7/8" |
| | Hex. socket size (mm) | 3 | 3 | 5 | 5 | 5 | 6 | 6 | 8 | 8 | 10 | 10 | 12 | 12 | 14 | 14 | 14 |
| Large end dia. (mm) | 35.0 | 38.0 | 47.5 | 57.0 | 57.0 | 70.0 | 85.5 | 108.5 | 108 | 127 | 127 | 146 | 146 | 162 | 162 | 178 | 178 |
| Bush length (mm) | 22.3 | 22.3 | 25.4 | 25.4 | 38.1 | 31.8 | 44.5 | 50.8 | 76.2 | 63.5 | 89.0 | 76.2 | 102 | 89.0 | 114 | 102 | 127 |
| Approx mass (kg) | 0.1 | 0.1 | 0.2 | 0.3 | 0.5 | 0.7 | 1.5 | 2.7 | 3.6 | 3.8 | 5.0 | 5.6 | 7.7 | 7.5 | 10.0 | 11.1 | 14.0 |

THE PROBLEM

For many years, the power transmission industry has struggled with the problems of mounting components to shafts. The "industry standard", the keyed mounting, has a number of widely acknowledged limitations. The process of cutting keyways into the shaft is time-consuming, tedious and permanent. There's little chance to adjust timing or synchronise a drive, and cutting the keyway or slot reduces the strength of the shaft.

In addition, the stress of stopping, starting and transmitting power under high torque can induce fretting corrosion and cracking that can ultimately result in unit failure. Even the smallest discrepancies in the fit between the hub and the shaft will increase fretting corrosion and wear and cause premature failure of the mounting. Poor fit will also allow "backlash" during rapid stops.

It's not surprising, then, that many manufacturers have eliminated keyway problems and switched to TRANTORQUE GT.

SOLVING THE PROBLEM

TRANTORQUE GT is the solution to the problems of keyed mountings – a keyless bushing ideal for critical timing and high-torque applications. TRANTORQUE GT is a single-nut locking bushing with interlocking components that ensure positive release.

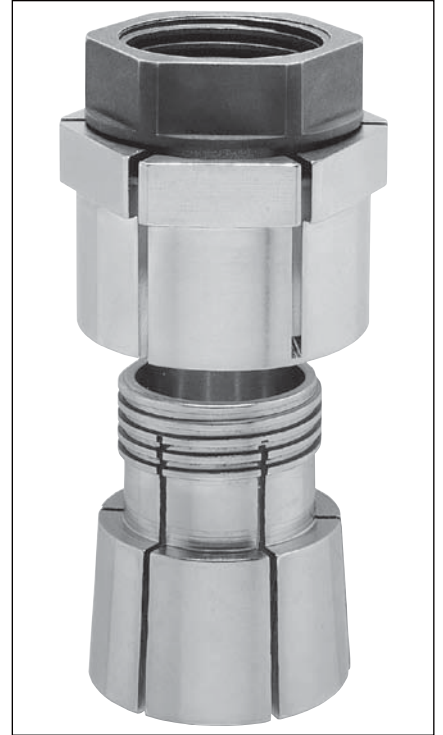
Easy to install, TRANTORQUE GT requires no special machining or cutting of keyways. It can be easily adjusted or removed, and allows the kind of infinite positioning that's critical for precise timing and synchronisation.

Because it functions as a mechanical shrink fit, there is no movement between the holding device and the shaft, thus eliminating the problems of fretting corrosion, backlash and key wallowing.

HOW IT WORKS

TRANTORQUE GT is a three-piece bushing consisting of an inner collet-like element, an outer sleeve and a nut that controls them. The inner and outer elements have matching, opposite tapers. As a result, when the nut is turned, the unit expands within the component and contracts onto the shaft, offering high torque ratings and excellent concentricity – within 0,025mm FIM.

With fewer component parts, Trantorque GT offers significant installation advantages, reducing downtime and operating costs. The single GT nut can be torqued-up in seconds...



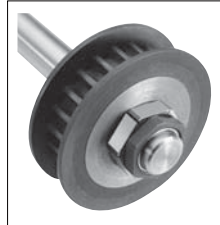
ADVANTAGES TRANTORQUE GT

■ Eliminate Keys, Keyways, Setscrews



Eliminate costly machining with inexpensive Trantorque GT mounts. They grip like a shrink-fit on shaft and bore, and resist shocks and torque reversals better than keyways. Single-nut design self-centres accurately, locks or unlocks with the twist of a wrench.

■ Infinite, Precise Radial Adjustment



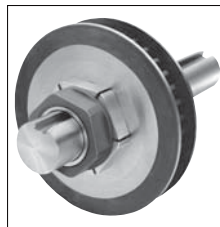
The positive lock and release action permits exact initial positioning with easy readjustment at a later date. This is not possible with fixed keyed connections.

■ Use Smaller Shafts



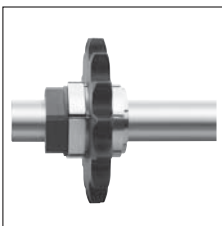
Eliminate the weak spot in shafts and hubs caused by machining keyways. This, plus the rigidising effect, permits smaller and less expensive shafts and bearings with equal strength and stiffness.

■ Retrofit and Repair



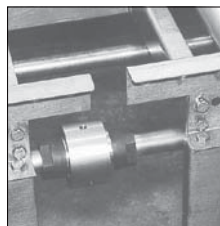
Can be used directly over empty keyways to repair a worn or damaged connection. Both metric and Imperial units are available making it easy to quickly return machinery to service.

■ Mount Hubless Devices



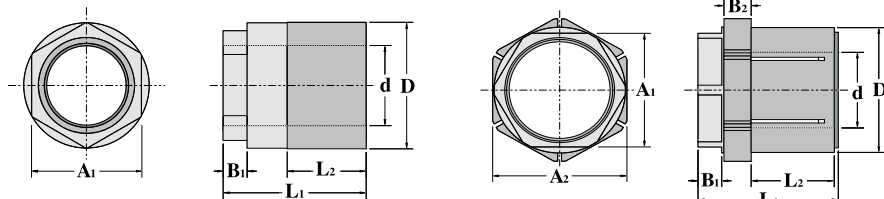
Trantorque GT mounts are unique in their ability to mount thin hubless devices. They need not be completely within the bore. This permits mounting plate sprockets, hubless gears, disc brakes, etc. – often at substantial savings to the user or OEM.

■ Speed Prototype Development



Easy installation, adjustment and removal permit great freedom and flexibility in new-product development. Trantorque mounts can be removed and reinstalled many times...a major advantage on prototype or final product.

Trantorque GT™



Trantorque Mini Series

Trantorque GT

METRIC STOCK RANGE

| MINIATURE SERIES TRANTORQUE | PRODUCT CODES | DIMENSIONS | | | | | | | | PERFORMANCE | | | NUT TORQUE | |
|--------------------------------|---------------|------------|-------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|------------|--------------------------------|------------|---------------------|
| | | d | D | L ₁ | L ₂ | A ₁ | A ₂ | B ₁ | B ₂ | Max Transmissible Torque Nm | Thrust kgf | Hub Pressure N/cm ² | Nm | Approximate Mass kg |
| 184A0105 | 5 | 16.0 | 19.0 | 9.5 | 13 | - | 3.0 | - | 12 | 323 | 3585 | 14 | 0.014 | |
| 184A0106 | 6 | 16.0 | 19.0 | 9.5 | 13 | - | 3.0 | - | 16 | 349 | 3585 | 14 | 0.014 | |
| 184B0108 | 8 | 19.0 | 22.0 | 11.0 | 16 | - | 3.0 | - | 23 | 405 | 2550 | 17 | 0.028 | |
| 184B0109 | 9 | 19.0 | 22.0 | 11.0 | 16 | - | 3.0 | - | 26 | 414 | 2550 | 17 | 0.028 | |
| 184C0110 | 10 | 22.5 | 25.5 | 12.5 | 19 | - | 5.0 | - | 30 | 423 | 1860 | 20 | 0.042 | |
| 184C0111 | 11 | 22.5 | 25.5 | 12.5 | 19 | - | 5.0 | - | 34 | 430 | 1860 | 20 | 0.042 | |
| 184C0112 | 12 | 22.5 | 25.5 | 12.5 | 19 | - | 5.0 | - | 39 | 439 | 1860 | 20 | 0.042 | |
| 184D0114 | 14 | 25.5 | 28.5 | 16.0 | 22 | - | 5.0 | - | 44 | 449 | 1240 | 23 | 0.056 | |
| 184D0115 | 15 | 25.5 | 28.5 | 16.0 | 22 | - | 5.0 | - | 45 | 451 | 1240 | 23 | 0.056 | |
| 184D0116 | 16 | 25.5 | 28.5 | 16.0 | 22 | - | 5.0 | - | 50 | 459 | 1240 | 23 | 0.056 | |
| 184E0115 | 15 | 38.0 | 38.0 | 19.0 | 32 | 38.0 | 8.0 | 8.0 | 180 | 1366 | 7600 | 136 | 0.230 | |
| 184E0116 | 16 | 38.0 | 38.0 | 19.0 | 32 | 38.0 | 8.0 | 8.0 | 198 | 1500 | 7600 | 136 | 0.230 | |
| 184E0118 | 18 | 38.0 | 38.0 | 19.0 | 32 | 38.0 | 8.0 | 8.0 | 265 | 1835 | 7600 | 136 | 0.230 | |
| 184E0119 | 19 | 38.0 | 38.0 | 19.0 | 32 | 38.0 | 8.0 | 8.0 | 282 | 2000 | 7600 | 136 | 0.230 | |
| 184F0120 | 20 | 45.0 | 47.5 | 21.5 | 38 | 44.5 | 11.0 | 9.5 | 290 | 2140 | 6500 | 170 | 0.310 | |
| 184F0122 | 22 | 45.0 | 47.5 | 21.5 | 38 | 44.5 | 11.0 | 9.5 | 315 | 2446 | 6500 | 170 | 0.310 | |
| 184F0124 | 24 | 45.0 | 47.5 | 21.5 | 38 | 44.5 | 11.0 | 9.5 | 380 | 2752 | 6500 | 170 | 0.310 | |
| 184F0125 | 25 | 45.0 | 47.5 | 21.5 | 38 | 44.5 | 11.0 | 9.5 | 390 | 2956 | 6500 | 170 | 0.310 | |
| 184G0128 | 28 | 51.0 | 57.0 | 25.5 | 46 | 51.0 | 13.0 | 14.5 | 495 | 3262 | 5400 | 225 | 0.450 | |
| 184G0130 | 30 | 51.0 | 57.0 | 25.5 | 46 | 51.0 | 13.0 | 14.5 | 580 | 3568 | 5400 | 225 | 0.450 | |
| 184G0132 | 32 | 51.0 | 57.0 | 25.5 | 46 | 51.0 | 13.0 | 14.5 | 680 | 3874 | 5400 | 225 | 0.450 | |
| 184H0134 | 34 | 60.5 | 70.0 | 38.0 | 50 | 60.3 | 14.0 | 13.0 | 710 | 4077 | 4500 | 260 | 0.770 | |
| 184H0135 | 35 | 60.5 | 70.0 | 38.0 | 50 | 60.3 | 14.0 | 13.0 | 725 | 4281 | 4500 | 260 | 0.770 | |
| 184H0136 | 36 | 60.5 | 70.0 | 38.0 | 50 | 60.3 | 14.0 | 13.0 | 750 | 4485 | 4500 | 260 | 0.770 | |
| 184H0138 | 38 | 60.5 | 70.0 | 38.0 | 50 | 60.3 | 14.0 | 13.0 | 790 | 4791 | 4500 | 260 | 0.770 | |
| 184J0140 | 40 | 67.0 | 79.5 | 43.0 | 60 | 67.0 | 14.5 | 17.5 | 900 | 5097 | 3800 | 315 | 1.050 | |
| 184J0142 | 42 | 67.0 | 79.5 | 43.0 | 60 | 67.0 | 14.5 | 17.5 | 1000 | 5043 | 3800 | 315 | 1.050 | |
| 184K0145 | 45 | 73.0 | 90.5 | 51.0 | 65 | 73.0 | 16.0 | 19.0 | 1170 | 5912 | 2900 | 550 | 1.360 | |
| 184K0148 | 48 | 73.0 | 90.5 | 51.0 | 65 | 73.0 | 16.0 | 19.0 | 1356 | 6422 | 2900 | 550 | 1.360 | |
| 184K0150 | 50 | 73.0 | 90.5 | 51.0 | 65 | 73.0 | 16.0 | 19.0 | 1515 | 6728 | 2900 | 550 | 1.360 | |
| 184L0155 | 55 | 80.0 | 95.0 | 54.0 | 70 | 79.4 | 16.0 | 20.5 | 1650 | 6932 | 2400 | 600 | 2.130 | |
| 184M0160 | 60 | 86.0 | 98.5 | 57.0 | 75 | 85.7 | 17.5 | 19.0 | 1745 | 7034 | 2000 | 635 | 2.270 | |
| 184N0165 | 65 | 92.0 | 103.0 | 60.5 | 82 | 92.0 | 17.5 | 20.5 | 1830 | 7136 | 1700 | 680 | 2.680 | |
| 184N0170 | 70 | 92.0 | 103.0 | 60.5 | 82 | 92.0 | 17.5 | 20.5 | 1920 | 7238 | 1700 | 680 | 2.680 | |
| 184P0175 | 75 | 100.0 | 108.0 | 63.5 | 90 | 98.5 | 19.0 | 20.5 | 2000 | 7339 | 1600 | 750 | 2.720 | |

INCH STOCK RANGE

| MINIATURE SERIES TRANTORQUE | PRODUCT CODES | DIMENSIONS | | | | | | | | PERFORMANCE | | | NUT TORQUE | |
|--------------------------------|---------------|------------|---------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------------------|------------|--------------------------------|------------|---------------------|
| | | d | D | L ₁ | L ₂ | A ₁ | A ₂ | B ₁ | B ₂ | Max Transmissible Torque Nm | Thrust kgf | Hub Resource N/cm ² | Nm | Approximate Mass kg |
| 184A0604 | 1/4" | 5/8" | 3/4" | 3/8" | 1/2" | - | 1/8" | - | 17.0 | 358 | 3585 | 14.1 | 0.014 | |
| 184B0606 | 3/8" | 3/4" | 7/8" | 7/16" | 5/8" | - | 1/8" | - | 28.0 | 418 | 2550 | 17.0 | 0.028 | |
| 184C0608 | 1/2" | 7/8" | 1" | 1/2" | 3/4" | - | 3/16" | - | 39.5 | 445 | 1857 | 19.8 | 0.042 | |
| 184D0610 | 5/8" | 1" | 1 1/8" | 5/8" | 7/8" | - | 3/16" | - | 50.0 | 453 | 1240 | 22.6 | 0.056 | |
| 184E0610 | 5/8" | 1 1/2" | 1 1/2" | 3/4" | 1 1/4" | 1 1/2" | 5/16" | 5/16" | 198.0 | 1497 | 7586 | 136.0 | 0.230 | |
| 184E0612 | 3/4" | 1 1/2" | 1 1/2" | 3/4" | 1 1/4" | 1 1/2" | 5/16" | 5/16" | 282.0 | 1996 | 7586 | 136.0 | 0.230 | |
| 184F0614 | 7/8" | 1 3/4" | 1 7/8" | 7/8" | 1 1/2" | 1 3/4" | 7/16" | 3/8" | 316.0 | 2495 | 6480 | 170.0 | 0.310 | |
| 184F0616 | 1" | 1 3/4" | 1 7/8" | 7/8" | 1 1/2" | 1 3/4" | 7/16" | 3/8" | 395.0 | 2994 | 6480 | 170.0 | 0.310 | |
| 184G0620 | 1 1/4" | 2" | 2 1/4" | 1" | 1 3/4" | 2" | 1/2" | 9/16" | 678.0 | 3856 | 5380 | 225.0 | 0.450 | |
| 184H0624 | 1 1/2" | 2 3/8" | 2 3/4" | 1 1/2" | 2" | 2 3/8" | 9/16" | 1/2" | 790.0 | 4770 | 4480 | 260.0 | 0.770 | |
| 184J0628 | 1 3/4" | 2 5/8" | 3 1/8" | 1 11/16" | 2 1/4" | 2 5/8" | 9/16" | 1 1/16" | 1130.0 | 5785 | 3790 | 315.0 | 1.050 | |
| 184K0632 | 2" | 2 7/8" | 3 9/16" | 2" | 2 1/2" | 2 7/8" | 5/8" | 3/4" | 1582.0 | 6805 | 2900 | 550.0 | 1.360 | |
| 184L0636 | 2 1/4" | 3 1/8" | 3 3/4" | 2 1/8" | 2 3/4" | 3 1/8" | 5/8" | 13/16" | 1695.0 | 6930 | 2415 | 600.0 | 2.130 | |
| 184M0638 | 2 3/8" | 3 3/8" | 3 7/8" | 2 1/4" | 3" | 3 3/8" | 1 1/16" | 3/4" | 1750.0 | 6985 | 1930 | 635.0 | 2.270 | |
| 184M0640 | 2 1/2" | 3 3/8" | 3 7/8" | 2 1/4" | 3" | 3 3/8" | 1 1/16" | 3/4" | 1810.0 | 7060 | 1930 | 635.0 | 2.270 | |
| 184N0644 | 2 3/4" | 3 5/8" | 4 1/16" | 2 3/8" | 3 1/4" | 3 5/8" | 1 1/16" | 13/16" | 1920.0 | 7170 | 1655 | 680.0 | 2.530 | |
| 184P0648 | 3" | 3 7/8" | 4 1/4" | 2 1/2" | 3 1/2" | 3 7/8" | 3/4" | 13/16" | 2030.0 | 7330 | 1585 | 750.0 | 2.720 | |

Tolerances on shaft and bore, miniature Series ± .038 mm, (.0015"). Standard and Larger Series ± .076 mm, (.003"). Other sizes, types and materials are available to order. Consult your local Authorised Distributor.

SELECTION

To select the TRANTORQUE GT suitable for your application simply choose the bush with the appropriate ('d') to suit the shaft diameter and determine that the outside diameter ('D') and transmissible torque rating will be adequate.

Note: The nominal transmitted torque in Nm should be multiplied by a service factor before comparing with the tabulated maximum transmissible torque.

Service factors range from 1.0 for electric motor driven, smooth machines, to 2.25 for heavy shock machinery driven by i/c engines.

If in doubt consult your local Authorised Distributor.

Use the following formula to convert power (kW) to torque (Nm)

$$\text{Torque (Nm)} = \frac{\text{kW} \times 9550}{\text{rev/min}}$$

INSTALLATION

- Clean off the shaft and bore with a clean rag dampened with a commercial solvent so that the bore and the shaft are clean and completely free of oil.
- Fit the TRANTORQUE GT unit onto the shaft: the shaft must extend through the full length of the TRANTORQUE GT (dimension L₁).
- Fit the hub over the TRANTORQUE GT unit so that the expanding section of the unit (dimension L₂) is approximately in the centre of the hub. If the hub is longer than the L₂ dimension, make sure that the flats of the nut(s) (dimensions B) are outside of the hub to permit spanners to be applied to the nut(s).
- Tighten the outboard nut lightly by hand. Position the unit and the hub in the desired location. Now tighten the outboard nut to the torque indicated in the charts. The hub is now locked to the shaft. With Trantorque GT the inboard nut is used to restrain the unit and the shaft during tightening.

EFFECT OF TEMPERATURE

TRANTORQUE GT units are not affected by temperature within wide limits (-34°C to 204°C) when the shaft and hub are made of steel. TRANTORQUE GT units are all steel. If the shaft and/or hub are made of different materials e.g. aluminum, straightforward engineering compensation should be made for the difference in expansion coefficients.

In normal environments, where the seasonal ambient variation is less than 35°C, no compensation will generally be required, even with dissimilar metals.

MOUNTING OF HUBLESS MACHINE ELEMENTS

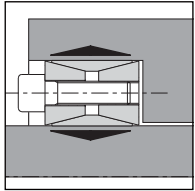
Hubless machine elements such as plate gears, plate disc brakes, plate cams and plate sprockets, can be successfully locked to the shaft by means of the TRANTORQUE GT, but some account should be taken of the increased hub pressure on these applications.

FenLock cone clamping elements are precision made in the finest steel materials to provide a wide, versatile range of keyless shaft/hub fixing assemblies.

They offer

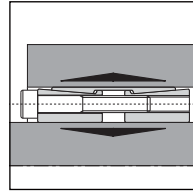
- Simple installation/disassembly
- Resistance to alternating torques
- Increased shaft strength
- High torque transmission capacity
- No backlash
- Axial and angular adjustment capability
- No fretting corrosion
- Simple selection

THE FENLOCK PRODUCT RANGE



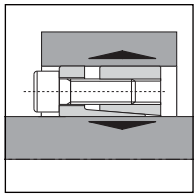
FLK 200

Medium/high torque
Non self centering
Available for shafts 20-900 mm dia.
Max allowable surface finish Rt max 16µm
Tolerances h11 shaft - H11 hub
No axial movement



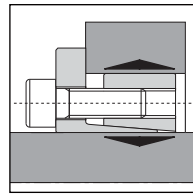
FLK 450

Very high torque
Self centering
Available for shafts 45-400 mm dia.
Max allowable surface finish Rt max 16µm
Tolerances h8 shaft - H8 hub.



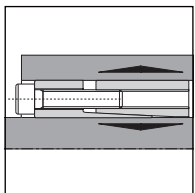
FLK 132

Less screws - quicker installation
Self centering Medium/high torque
Max allowable surface finish Rt max 16µm
Slight axial movement hub/shaft
Available for shafts 20-200 mm dia
Tolerances h8 shaft - H8 hub.



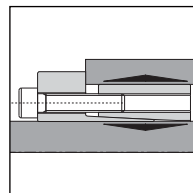
FLK 133

As FLK 132 with larger dia. location collar
Less screws - quicker installation
Medium/high torque Self centering
No axial movement hub/shaft
Available for shafts 20-200 mm dia
Max allowable surface finish Rt max 16µm
Tolerances h8 shaft - H8hub.



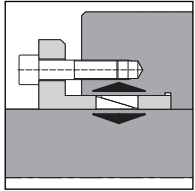
FLK 130

High torque
Self centering
Max allowable surface finish Rt max 16µm
Slight axial movement hub/shaft
Available for shafts 20-180 mm dia
Tolerances h8 shaft - H8 hub.



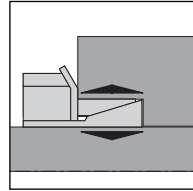
FLK 131

As FLK 130 with larger dia. location collar
High torque
Self centering
No axial movement hub/shaft
Available for shafts 20-180 mm dia
Max allowable surface finish Rt max 16µm
Tolerances h8 shaft - H8 hub.



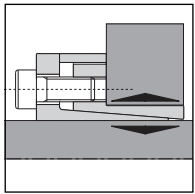
FLK 300

Medium/low torque
Non self centering
Max allowable surface finish Rt max 6µm
Available for shafts 6-300 mm dia
(larger sizes to order)
Tolerances ≥ 40 mm dia, h6 shaft - H7 hub
 ≤ 42 mm dia h8 shaft - H8 hub



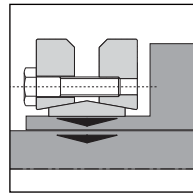
FLK 250L

Similar to FLK 300 with integral single nut fixing
Medium/low torque Self centering
Max allowable surface finish Rt max 16µm
Slight axial movement hub/shaft
Available for shafts 14-60 mm dia
Tolerances h8 shaft - H8 hub.



FLK 110

Few screws - quicker installation
Medium/high torque Self centering
Max allowable surface finish Rt max 16µm
Available for shafts 6-130 mm dia
Tolerances h8 shaft - H8 hub.



FLK 603

'Shrink disc' device for hub clamping
Quick installation
Medium/high torque Self centering
Available for hubs 14-280 mm dia
(larger sizes to order)
Max allowable surface finish Rt max 16µm
Tolerances h8 shaft.

FENLOCK SELECTION

1. Determine the maximum torque (Nm) to be transmitted, including fluctuations and shock loads, and any axial forces (kN) to be withstood.
2. Use the features table above to help determine the type of FenLock device to use.
3. Use the tabulated data on the following pages to establish torque (Mt) and axial load capacity (F) of the chosen unit on the shaft size being used, and that they exceed applicational requirements.

Note: Maximum torque and axial force values are mutually exclusive. For combined torque and axial force applications, consult your local Authorised Distributor.

4. Check dimensional suitability, self centering capability and ease of installation/disassembly.
5. For hub strength calculations or more detailed selection advice - consult your local Authorised Distributor.

INSTALLATION

1. Ensure cleanliness of hub and shaft contact surfaces
2. Screw threads and conical surfaces should be lightly oiled.
3. Tighten fixing screws gradually, in diagonal sequence, up to torque Ms (Nm)
4. For more detailed information - consult your local Authorised Distributor.



To Calculate the Minimum Hub Diameter (Dm).

FenLock cone clamping elements create a surface pressure **Pn** between the clamping outer ring and hub bore when fitted. Shaft values are higher than the hub stresses but generally the hub stress level is the critical factor as it must be below the yield stress of the material.

The minimum hub diameter **Dm** is calculated using the following formula

$$Dm \geq (D \cdot K)$$

where

Dm = Minimum hub diameter

D = Outside diameter of clamping element

K = Coefficient K derived from the table below

Use **Pn** from product tables on pages 134 - 138

factor C (see below)

Example

Based on securing a cast iron 50mm wide pulley to a steel shaft using a FenLock 200 80 x 120.

Pulley Material = GG25

C = 0.8 as assembly is as per type 2

Pn = 120 N/mm² as page 134

K = 1,81

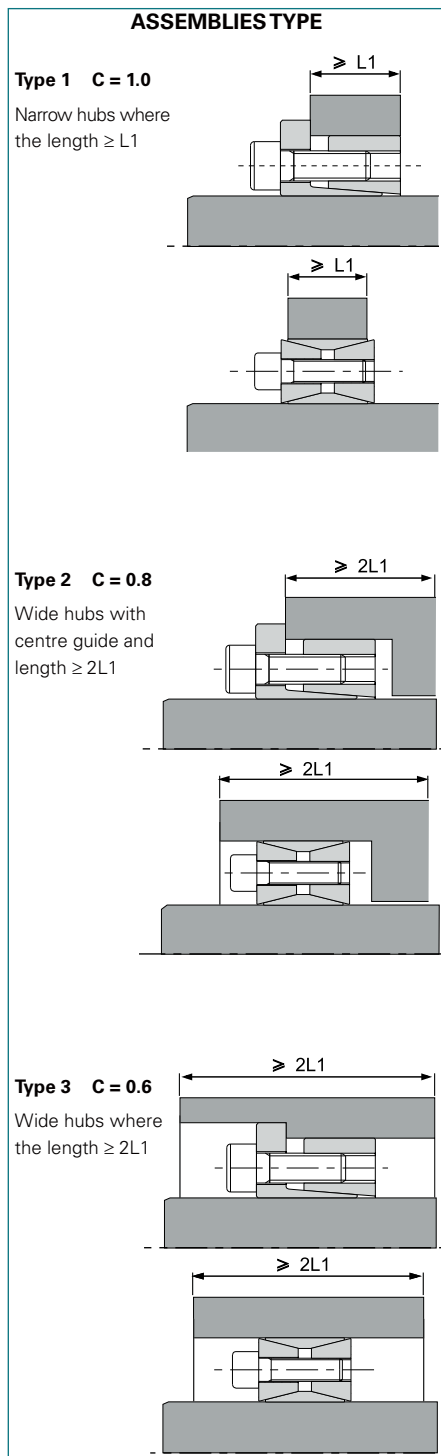
$$Dm \geq (D \cdot K)$$

$$Dm \geq (120 \times 1.81)$$

$$Dm \geq 217.2mm$$

Therefore, the minimum hub diameter that can be used is 217.2mm.

FACTOR C



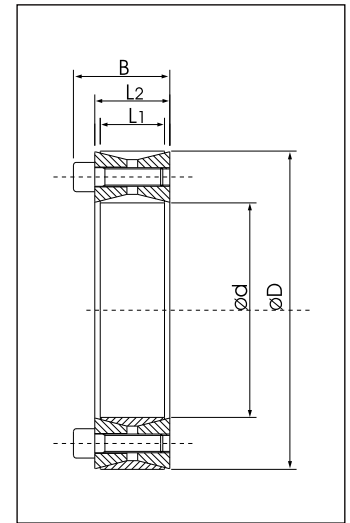
COEFFICIENT K

| Pressure generated on the hub | Pn N/mm ² | Application type C | Yield point N/mm ² | | | | | | | | | | | |
|-------------------------------|----------------------|--------------------|-------------------------------|-----------|------------|-------------|------------|------------|-------------------|-------------------|----------------|------|-----|--|
| | | | 150 | 180 | 200 | 220 | 250 | 270 | 300 | 350 | 400 | 450 | 600 | |
| | | | Material type | | | | | | | | | | | |
| | | | GG20 | GG25 GS38 | GG30 GTS35 | GS45 ST37-2 | GGG40 GS52 | ST50-2 C35 | GGG50 GS60 ST60-2 | GGG60 GS62 ST70-2 | GGG70 GS70 C60 | | | |
| 60 | C=0.6 | 1.28 | 1.25 | 1.20 | 1.18 | 1.15 | 1.14 | 1.12 | 1.10 | 1.09 | 1.08 | 1.06 | | |
| | C=0.8 | 1.39 | 1.30 | 1.24 | 1.23 | 1.22 | 1.20 | 1.18 | 1.15 | 1.12 | 1.11 | 1.08 | | |
| | C=1 | 1.52 | 1.42 | 1.36 | 1.32 | 1.28 | 1.25 | 1.22 | 1.18 | 1.16 | 1.14 | 1.10 | | |
| 65 | C=0.6 | 1.30 | 1.25 | 1.22 | 1.20 | 1.18 | 1.15 | 1.13 | 1.11 | 1.10 | 1.09 | 1.07 | | |
| | C=0.8 | 1.44 | 1.35 | 1.30 | 1.28 | 1.24 | 1.22 | 1.20 | 1.16 | 1.14 | 1.12 | 1.09 | | |
| | C=1 | 1.60 | 1.45 | 1.40 | 1.35 | 1.30 | 1.28 | 1.24 | 1.20 | 1.18 | 1.16 | 1.12 | | |
| 70 | C=0.6 | 1.34 | 1.26 | 1.24 | 1.22 | 1.18 | 1.16 | 1.15 | 1.12 | 1.11 | 1.10 | 1.07 | | |
| | C=0.8 | 1.48 | 1.38 | 1.34 | 1.30 | 1.25 | 1.23 | 1.20 | 1.18 | 1.15 | 1.13 | 1.10 | | |
| | C=1 | 1.65 | 1.50 | 1.45 | 1.40 | 1.34 | 1.30 | 1.26 | 1.22 | 1.20 | 1.17 | 1.13 | | |
| 75 | C=0.6 | 1.30 | 1.28 | 1.25 | 1.23 | 1.20 | 1.18 | 1.16 | 1.14 | 1.12 | 1.11 | 1.08 | | |
| | C=0.8 | 1.52 | 1.42 | 1.36 | 1.32 | 1.28 | 1.25 | 1.22 | 1.18 | 1.16 | 1.14 | 1.11 | | |
| | C=1 | 1.74 | 1.55 | 1.48 | 1.42 | 1.36 | 1.33 | 1.30 | 1.25 | 1.20 | 1.18 | 1.13 | | |
| 80 | C=0.6 | 1.39 | 1.31 | 1.28 | 1.25 | 1.21 | 1.20 | 1.18 | 1.15 | 1.13 | 1.11 | 1.08 | | |
| | C=0.8 | 1.58 | 1.45 | 1.39 | 1.35 | 1.30 | 1.27 | 1.24 | 1.20 | 1.18 | 1.15 | 1.11 | | |
| | C=1 | 1.81 | 1.61 | 1.53 | 1.46 | 1.39 | 1.36 | 1.31 | 1.26 | 1.22 | 1.20 | 1.14 | | |
| 85 | C=0.6 | 1.42 | 1.34 | 1.30 | 1.27 | 1.23 | 1.21 | 1.19 | 1.16 | 1.14 | 1.12 | 1.09 | | |
| | C=0.8 | 1.63 | 1.49 | 1.42 | 1.38 | 1.32 | 1.29 | 1.26 | 1.22 | 1.19 | 1.16 | 1.12 | | |
| | C=1 | 1.90 | 1.67 | 1.57 | 1.50 | 1.42 | 1.39 | 1.34 | 1.28 | 1.24 | 1.21 | 1.15 | | |
| 90 | C=0.6 | 1.46 | 1.36 | 1.32 | 1.28 | 1.25 | 1.22 | 1.20 | 1.17 | 1.15 | 1.13 | 1.09 | | |
| | C=0.8 | 1.69 | 1.53 | 1.46 | 1.40 | 1.34 | 1.31 | 1.28 | 1.23 | 1.20 | 1.18 | 1.13 | | |
| | C=1 | 2.00 | 1.73 | 1.62 | 1.54 | 1.46 | 1.41 | 1.36 | 1.30 | 1.26 | 1.22 | 1.16 | | |
| 95 | C=0.6 | 1.49 | 1.39 | 1.34 | 1.30 | 1.26 | 1.24 | 1.21 | 1.18 | 1.15 | 1.14 | 1.10 | | |
| | C=0.8 | 1.75 | 1.57 | 1.49 | 1.43 | 1.37 | 1.34 | 1.30 | 1.25 | 1.21 | 1.19 | 1.14 | | |
| | C=1 | 2.11 | 1.80 | 1.68 | 1.59 | 1.49 | 1.44 | 1.39 | 1.32 | 1.27 | 1.24 | 1.17 | | |
| 100 | C=0.6 | 1.53 | 1.41 | 1.36 | 1.32 | 1.28 | 1.25 | 1.22 | 1.19 | 1.16 | 1.14 | 1.11 | | |
| | C=0.8 | 1.81 | 1.61 | 1.53 | 1.46 | 1.39 | 1.36 | 1.31 | 1.26 | 1.22 | 1.20 | 1.14 | | |
| | C=1 | 2.24 | 1.87 | 1.73 | 1.63 | 1.53 | 1.48 | 1.41 | 1.34 | 1.29 | 1.25 | 1.18 | | |
| 105 | C=0.6 | 1.56 | 1.44 | 1.39 | 1.34 | 1.29 | 1.27 | 1.24 | 1.20 | 1.17 | 1.15 | 1.11 | | |
| | C=0.8 | 1.88 | 1.66 | 1.56 | 1.50 | 1.42 | 1.38 | 1.33 | 1.28 | 1.24 | 1.21 | 1.15 | | |
| | C=1 | 2.38 | 1.95 | 1.79 | 1.68 | 1.56 | 1.51 | 1.44 | 1.36 | 1.31 | 1.27 | 1.19 | | |
| 110 | C=0.6 | 1.60 | 1.47 | 1.41 | 1.36 | 1.31 | 1.28 | 1.25 | 1.21 | 1.18 | 1.16 | 1.12 | | |
| | C=0.8 | 1.96 | 1.71 | 1.60 | 1.53 | 1.44 | 1.41 | 1.35 | 1.29 | 1.25 | 1.22 | 1.16 | | |
| | C=1 | 2.55 | 2.04 | 1.86 | 1.73 | 1.60 | 1.54 | 1.47 | 1.38 | 1.33 | 1.28 | 1.20 | | |
| 115 | C=0.6 | 1.64 | 1.50 | 1.43 | 1.36 | 1.33 | 1.30 | 1.26 | 1.22 | 1.19 | 1.17 | 1.12 | | |
| | C=0.8 | 2.04 | 1.76 | 1.64 | 1.56 | 1.47 | 1.43 | 1.37 | 1.31 | 1.26 | 1.23 | 1.17 | | |
| | C=1 | 2.75 | 2.13 | 1.93 | 1.79 | 1.64 | 1.58 | 1.50 | 1.41 | 1.34 | 1.30 | 1.21 | | |
| 120 | C=0.6 | 1.69 | 1.53 | 1.46 | 1.40 | 1.34 | 1.31 | 1.28 | 1.23 | 1.20 | 1.18 | 1.13 | | |
| | C=0.8 | 2.13 | 1.81 | 1.69 | 1.60 | 1.50 | 1.45 | 1.39 | 1.33 | 1.28 | 1.24 | 1.18 | | |
| | C=1 | 3.00 | 2.24 | 2.00 | 1.84 | 1.69 | 1.61 | 1.53 | 1.43 | 1.36 | 1.31 | 1.22 | | |
| 125 | C=0.6 | 1.73 | 1.56 | 1.48 | 1.43 | 1.36 | 1.33 | 1.29 | 1.24 | 1.21 | 1.18 | 1.13 | | |
| | C=0.8 | 2.24 | 1.87 | 1.73 | 1.63 | 1.53 | 1.48 | 1.41 | 1.34 | 1.29 | 1.25 | 1.18 | | |
| | C=1 | 3.32 | 2.35 | 2.08 | 1.91 | 1.73 | 1.65 | 1.56 | 1.45 | 1.38 | 1.33 | 1.24 | | |
| 130 | C=0.6 | 1.78 | 1.59 | 1.51 | 1.45 | 1.38 | 1.35 | 1.30 | 1.25 | 1.22 | 1.19 | 1.14 | | |
| | C=0.8 | 2.35 | 1.93 | 1.78 | 1.67 | 1.56 | 1.50 | 1.44 | 1.36 | 1.30 | 1.27 | 1.19 | | |
| | C=1 | 3.74 | 2.49 | 2.17 | 1.97 | 1.78 | 1.69 | 1.59 | 1.48 | 1.40 | 1.35 | 1.25 | | |
| 135 | C=0.6 | 1.83 | 1.62 | 1.54 | 1.47 | 1.40 | 1.36 | 1.32 | 1.27 | 1.23 | 1.20 | 1.15 | | |
| | C=0.8 | 2.48 | 2.00 | 1.83 | 1.71 | 1.59 | 1.53 | 1.46 | 1.38 | 1.32 | 1.28 | 1.20 | | |
| | C=1 | 4.36 | 2.65 | 2.27 | 2.04 | 1.83 | 1.73 | 1.62 | 1.50 | 1.42 | 1.36 | 1.26 | | |
| 140 | C=0.6 | 1.88 | 1.66 | 1.56 | 1.50 | 1.42 | 1.38 | 1.33 | 1.28 | 1.24 | 1.21 | 1.15 | | |
| | C=0.8 | 2.63 | 2.07 | 1.88 | 1.75 | 1.62 | 1.55 | 1.48 | 1.39 | 1.33 | 1.29 | 1.21 | | |
| | C=1 | 5.39 | 2.83 | 2.38 | 2.12 | 1.88 | 1.78 | 1.66 | 1.53 | 1.44 | 1.38 | 1.27 | | |
| 145 | C=0.6 | 1.94 | 1.69 | 1.59 | 1.52 | 1.44 | 1.40 | 1.35 | 1.29 | 1.25 | 1.22 | 1.16 | | |
| | C=0.8 | 2.80 | 2.15 | 1.94 | 1.80 | 1.65 | 1.58 | 1.50 | 1.41 | 1.35 | 1.30 | 1.22 | | |
| | C=1 | 7.68 | 3.05 | 2.50 | 2.21 | 1.94 | 1.82 | 1.69 | 1.55 | 1.46 | 1.40 | 1.28 | | |
| 150 | C=0.6 | 2.00 | 1.73 | 1.62 | 1.54 | 1.46 | 1.41 | 1.36 | 1.30 | 1.26 | 1.23 | 1.16 | | |
| | C=0.8 | 3.00 | 2.24 | 2.00 | 1.84 | 1.69 | 1.61 | 1.53 | 1.43 | 1.36 | 1.31 | 1.23 | | |
| | C=1 | — | 3.32 | 2.65 | 2.30 | 2.00 | 1.87 | 1.73 | 1.58 | 1.48 | 1.41 | 1.29 | | |
| 155 | C=0.6 | 2.06 | 1.77 | 1.65 | 1.57 | 1.48 | 1.43 | 1.38 | 1.31 | 1.27 | 1.24 | 1.17 | | |
| | C=0.8 | 3.25 | 2.33 | 2.06 | 1.89 | 1.72 | 1.65 | 1.55 | 1.45 | 1.38 | 1.33 | 1.23 | | |
| | C=1 | — | 3.66 | 2.80 | 2.40 | 2.06 | 1.92 | 1.77 | 1.61 | 1.51 | 1.43 | 1.30 | | |
| 160 | C=0.6 | 2.13 | 1.81 | 1.69 | 1.60 | 1.50 | 1.45 | 1.39 | 1.33 | 1.28 | 1.24 | 1.18 | | |
| | C=0.8 | 3.55 | 2.43 | 2.13 | 1.94 | 1.76 | 1.67 | 1.58 | 1.47 | 1.39 | 1.34 | 1.24 | | |
| | C=1 | — | 4.12 | 3.00 | 2.52 | 2.13 | 1.98 | 1.81 | 1.64 | 1.53 | 1.45 | 1.31 | | |
| 165 | C=0.6 | 2.21 | 1.86 | 1.72 | 1.62 | 1.52 | 1.47 | 1.41 | 1.34 | 1.29 | 1.25 | 1.18 | | |
| | C=0.8 | 3.96 | 2.55 | 2.21 | 2.00 | 1.80 | 1.71 | 1.60 | 1.49 | 1.41 | 1.35 | 1.25 | | |
| | C=1 | — | 4.80 | 3.23 | 2.65 | 2.21 | 2.04 | 1.86 | 1.67 | 1.55 | 1.47 | 1.33 | | |

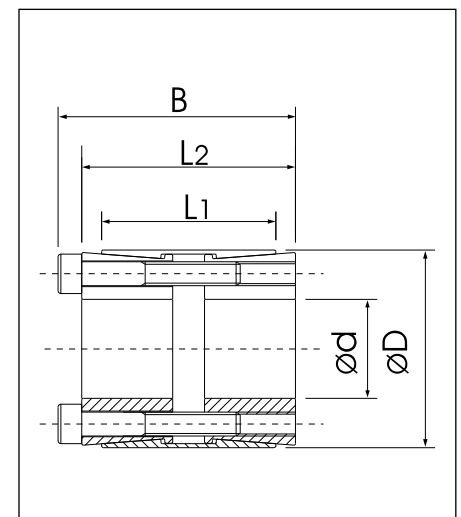
Fenlock™ Cone Clamping Element Dimensions

| Product Code | d x D mm | L1 mm | L2 mm | B mm | Torque Mt Nm | Axial Thrust F ass. kN | Hub Stress Pn N/mm² | Tightening screws | |
|--------------|-------------|----------|----------|---------|--------------------|------------------------------|---------------------------|-------------------|-------------------|
| | | | | | | | | Grade | Tightening Torque |
| | | | | | | | | 12.9 | Ms Nm |
| 630A0020 | 20 x 47 | 17 | 20 | 27.5 | 280 | 29 | 95 | 8 x M6 | 15 |
| 630A0022 | 22 x 47 | 17 | 20 | 27.5 | 310 | 29 | 95 | 8 x M6 | 15 |
| 630A0024 | 24 x 50 | 17 | 20 | 27.5 | 370 | 32 | 100 | 8 x M6 | 15 |
| 630A0025 | 25 x 50 | 17 | 20 | 27.5 | 400 | 32 | 100 | 8 x M6 | 15 |
| 630A0028 | 28 x 55 | 17 | 20 | 27.5 | 500 | 36 | 100 | 10 x M6 | 15 |
| 630A0030 | 30 x 55 | 17 | 20 | 27.5 | 530 | 36 | 100 | 10 x M6 | 15 |
| 630A0032 | 32 x 60 | 17 | 20 | 27.5 | 680 | 42 | 110 | 12 x M6 | 15 |
| 630A0035 | 35 x 60 | 17 | 20 | 27.5 | 750 | 43 | 110 | 12 x M6 | 15 |
| 630A0038 | 38 x 65 | 17 | 20 | 27.5 | 930 | 49 | 115 | 14 x M6 | 15 |
| 630A0040 | 40 x 65 | 17 | 20 | 27.5 | 980 | 49 | 115 | 14 x M6 | 15 |
| 630A0042 | 42 x 75 | 20 | 24 | 33.5 | 1580 | 75 | 130 | 12 x M8 | 37 |
| 630A0045 | 45 x 75 | 20 | 24 | 33.5 | 1700 | 76 | 130 | 12 x M8 | 37 |
| 630A0048 | 48 x 80 | 20 | 24 | 33.5 | 1790 | 74 | 120 | 12 x M8 | 37 |
| 630A0050 | 50 x 80 | 20 | 24 | 33.5 | 1870 | 75 | 120 | 12 x M8 | 37 |
| 630A0055 | 55 x 85 | 20 | 24 | 33.5 | 2390 | 88 | 135 | 14 x M8 | 37 |
| 630A0060 | 60 x 90 | 20 | 24 | 33.5 | 2610 | 88 | 125 | 14 x M8 | 37 |
| 630A0065 | 65 x 95 | 20 | 24 | 33.5 | 3210 | 98 | 135 | 16 x M8 | 37 |
| 630A0070 | 70 x 110 | 24 | 28 | 39.5 | 4600 | 132 | 130 | 14 x M10 | 70 |
| 630A0075 | 75 x 115 | 24 | 28 | 39.5 | 4900 | 131 | 125 | 14 x M10 | 70 |
| 630A0080 | 80 x 120 | 24 | 28 | 39.5 | 5200 | 131 | 120 | 14 x M10 | 70 |
| 630A0085 | 85 x 125 | 24 | 28 | 39.5 | 6300 | 148 | 130 | 15 x M10 | 70 |
| 630A0090 | 90 x 130 | 24 | 28 | 39.5 | 6600 | 147 | 125 | 16 x M10 | 70 |
| 630A0095 | 95 x 135 | 24 | 28 | 39.5 | 7900 | 167 | 135 | 18 x M10 | 70 |
| 630A0100 | 100 x 145 | 26 | 33 | 47.0 | 9750 | 195 | 135 | 14 x M12 | 127 |
| 630A0110 | 110 x 155 | 26 | 33 | 47.0 | 10650 | 194 | 125 | 14 x M12 | 127 |
| 630A0120 | 120 x 165 | 26 | 33 | 47.0 | 13300 | 221 | 135 | 16 x M12 | 127 |
| 630A0130 | 130 x 180 | 34 | 38 | 52.0 | 17850 | 276 | 115 | 20 x M12 | 127 |
| 630A0140 | 140 x 190 | 34 | 38 | 52.0 | 21200 | 302 | 125 | 22 x M12 | 127 |
| 630A0150 | 150 x 200 | 34 | 38 | 52.0 | 24500 | 329 | 125 | 24 x M12 | 127 |
| 630A0160 | 160 x 210 | 34 | 38 | 52.0 | 28400 | 355 | 130 | 26 x M12 | 127 |
| 630A0170 | 170 x 225 | 38 | 44 | 60.0 | 33600 | 396 | 120 | 22 x M14 | 195 |
| 630A0180 | 180 x 235 | 38 | 44 | 60.0 | 38700 | 431 | 130 | 24 x M14 | 195 |
| 630A0190 | 190 x 250 | 46 | 52 | 68.0 | 44700 | 502 | 120 | 28 x M14 | 195 |
| 630A0200 | 200 x 260 | 46 | 52 | 68.0 | 53500 | 538 | 120 | 30 x M14 | 195 |
| 630A0220 | 220 x 285 | 50 | 56 | 74.0 | 68500 | 630 | 120 | 26 x M16 | 300 |
| 630A0240 | 240 x 305 | 50 | 56 | 74.0 | 86000 | 717 | 130 | 30 x M16 | 300 |
| 630A0260 | 260 x 325 | 50 | 56 | 74.0 | 105000 | 810 | 135 | 34 x M16 | 300 |
| 630A0280 | 280 x 355 | 60 | 66 | 86.5 | 128500 | 920 | 120 | 32 x M18 | 410 |
| 630A0300 | 300 x 375 | 60 | 66 | 86.5 | 153600 | 1025 | 125 | 36 x M18 | 410 |
| 630A0320 | 320 x 405 | 72 | 78 | 100.5 | 210500 | 1325 | 125 | 36 x M20 | 590 |
| 630A0340 | 340 x 425 | 72 | 78 | 100.5 | 225000 | 1325 | 120 | 36 x M20 | 590 |
| 630A0360 | 360 x 455 | 84 | 90 | 116.0 | 294700 | 1635 | 120 | 36 x M22 | 790 |
| 630A0380 | 380 x 475 | 84 | 90 | 116.0 | 309100 | 1625 | 120 | 36 x M22 | 790 |
| 630A0400 | 400 x 495 | 84 | 90 | 116.0 | 321900 | 1617 | 110 | 36 x M22 | 790 |
| 630A0420 | 420 x 515 | 84 | 90 | 116.0 | 374000 | 1780 | 110 | 40 x M22 | 790 |
| 630A0440 | 440 x 545 | 96 | 102 | 130.0 | 455000 | 2060 | 105 | 40 x M24 | 1000 |
| 630A0460 | 460 x 565 | 96 | 102 | 130.0 | 470000 | 2040 | 100 | 40 x M24 | 1000 |
| 630A0480 | 480 x 585 | 96 | 102 | 130.0 | 515000 | 2160 | 100 | 42 x M24 | 1000 |
| 630A0500 | 500 x 605 | 96 | 102 | 130.0 | 560000 | 2240 | 100 | 44 x M24 | 1000 |
| 630A0520 | 520 x 630 | 96 | 102 | 130.0 | 600000 | 2320 | 100 | 45 x M24 | 1000 |
| 630A0540 | 540 x 650 | 96 | 102 | 130.0 | 630000 | 2340 | 100 | 45 x M24 | 1000 |
| 630A0560 | 560 x 670 | 96 | 102 | 130.0 | 680000 | 2440 | 100 | 48 x M24 | 1000 |
| 630A0580 | 580 x 690 | 96 | 102 | 130.0 | 735000 | 2540 | 100 | 50 x M24 | 1000 |
| 630A0600 | 600 x 710 | 96 | 102 | 130.0 | 775000 | 2580 | 100 | 50 x M24 | 1000 |
| 630A0620 | 620 x 730 | 96 | 102 | 130.0 | 825000 | 2660 | 100 | 52 x M24 | 1000 |
| 630A0640 | 640 x 750 | 96 | 102 | 130.0 | 865000 | 2700 | 100 | 54 x M24 | 1000 |
| 630A0660 | 660 x 770 | 96 | 102 | 130.0 | 925000 | 2800 | 100 | 56 x M24 | 1000 |
| 630A0680 | 680 x 790 | 96 | 102 | 130.0 | 965000 | 2840 | 100 | 56 x M24 | 1000 |
| 630A0700 | 700 x 810 | 96 | 102 | 130.0 | 1030000 | 2960 | 100 | 60 x M24 | 1000 |
| 630A0720 | 720 x 830 | 96 | 102 | 130.0 | 1070000 | 2980 | 100 | 60 x M24 | 1000 |
| 630A0740 | 740 x 850 | 96 | 102 | 130.0 | 1140000 | 3080 | 100 | 62 x M24 | 1000 |
| 630A0760 | 760 x 870 | 96 | 102 | 130.0 | 1210000 | 3180 | 100 | 64 x M24 | 1000 |
| 630A0780 | 780 x 890 | 96 | 102 | 130.0 | 1250000 | 3220 | 100 | 65 x M24 | 1000 |
| 630A0800 | 800 x 910 | 96 | 102 | 130.0 | 1300000 | 3260 | 100 | 66 x M24 | 1000 |
| 630A0820 | 820 x 930 | 96 | 102 | 130.0 | 1370000 | 3340 | 100 | 68 x M24 | 1000 |
| 630A0840 | 840 x 950 | 96 | 102 | 130.0 | 1450000 | 3460 | 100 | 70 x M24 | 1000 |
| 630A0860 | 860 x 970 | 96 | 102 | 130.0 | 1520000 | 3540 | 100 | 72 x M24 | 1000 |
| 630A0880 | 880 x 990 | 96 | 102 | 130.0 | 1590000 | 3620 | 100 | 74 x M24 | 1000 |
| 630A0900 | 900 x 1010 | 96 | 102 | 130.0 | 1650000 | 3680 | 100 | 75 x M24 | 1000 |

FenLock clamping elements type FLK 200 non self-centering



FenLock clamping elements type FLK 450 self-centering

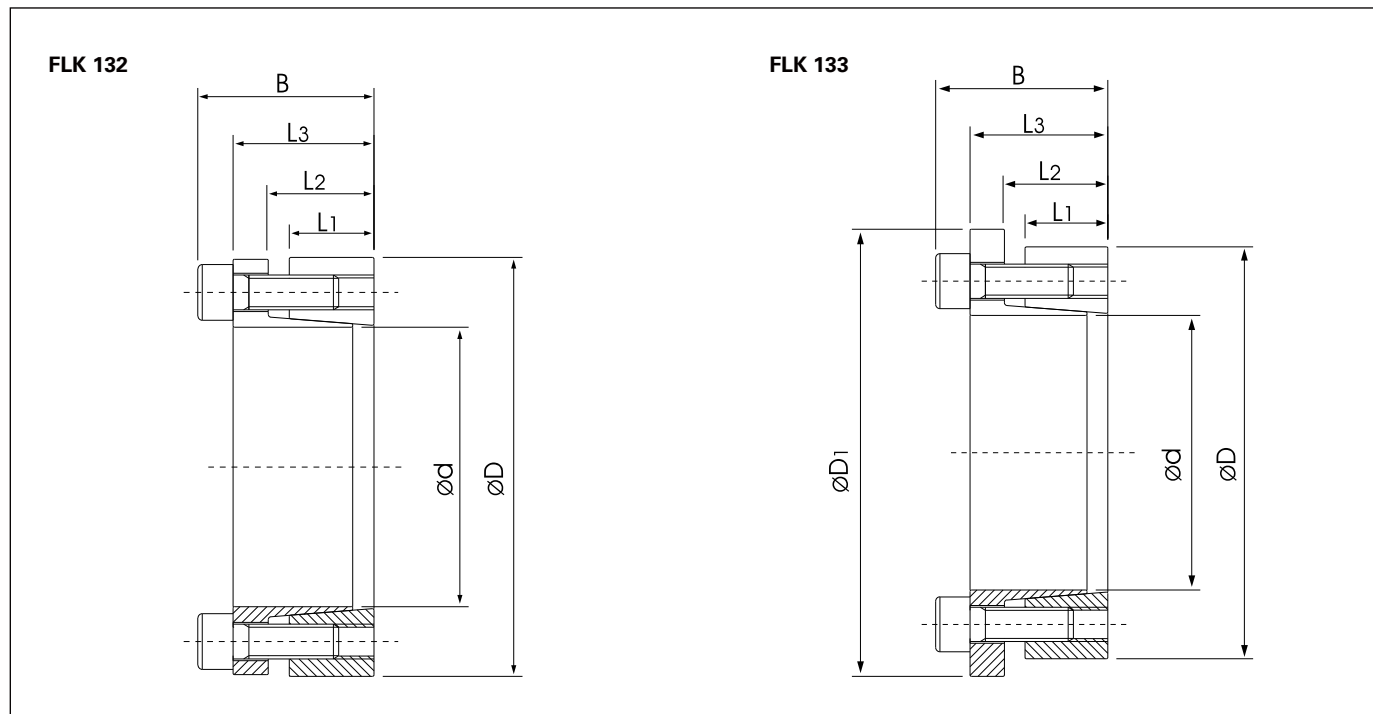


| Product Code | d x D mm | L1 mm | L2 mm | B mm | Torque Mt Nm | Axial Thrust F ass. kN | Hub Stress pn N/mm² | Tightening screws | |
|--------------|-------------|----------|----------|---------|--------------------|------------------------------|---------------------------|-------------------|-------------------|
| | | | | | | | | Grade | Tightening Torque |
| | | | | | | | | 12.9 | Ms Nm |
| 630X0045 | 45 x 75 | 56 | 64 | 72.0 | 3150 | 141 | 105 | 8 x M8 | 41 |
| 630X0048 | 48 x 80 | 56 | 64 | 72.0 | 4000 | 166 | 98 | 8 x M8 | 41 |
| 630X0050 | 50 x 80 | 56 | 64 | 72.0 | 4150 | 166 | 98 | 8 x M8 | 41 |
| 630X0055 | 55 x 85 | 56 | 64 | 72.0 | 4550 | 166 | 93 | 8 x M8 | 41 |
| 630X0060 | 60 x 90 | 56 | 61 | 72.0 | 6200 | 207 | 109 | 10 x M8 | 41 |
| 630X0065 | 65 x 95 | 56 | 64 | 72.0 | 6750 | 207 | 104 | 10 x M8 | 41 |
| 630X0070 | 70 x 110 | 70 | 78 | 88.0 | 11550 | 330 | 114 | 10 x M10 | 83 |
| 630X0075 | 75 x 115 | 70 | 78 | 88.0 | 12350 | 330 | 109 | 10 x M10 | 83 |
| 630X0080 | 80 x 120 | 70 | 78 | 88.0 | 15800 | 396 | 125 | 12 x M10 | 83 |
| 630X0085 | 85 x 125 | 70 | 78 | 88.0 | 16800 | 396 | 120 | 12 x M10 | 83 |
| 630X0090 | 90 x 130 | 70 | 78 | 88.0 | 17800 | 396 | 115 | 12 x M10 | 83 |
| 630X0095 | 95 x 135 | 70 | 78 | 88.0 | 18800 | 396 | 111 | 12 x M10 | 83 |
| 630X0100 | 100 x 145 | 90 | 100 | 112.0 | 28800 | 576 | 117 | 12 x M12 | 145 |
| 630X0110 | 110 x 155 | 90 | 100 | 112.0 | 31700 | 576 | 110 | 12 x M12 | 145 |
| 630X0120 | 120 x 165 | 90 | 100 | 112.0 | 40300 | 673 | 120 | 14 x M12 | 145 |
| 630X0130 | 130 x 180 | 104 | 116 | 130.0 | 51400 | 791 | 112 | 12 x M14 | 230 |
| 630X0140 | 140 x 190 | 104 | 116 | 130.0 | 64600 | 923 | 124 | 14 x M14 | 230 |
| 630X0150 | 150 x 200 | 104 | 116 | 130.0 | 79100 | 1055 | 135 | 16 x M14 | 230 |
| 630X0160 | 160 x 210 | 104 | 116 | 130.0 | 84400 | 1055 | 128 | 16 x M14 | 230 |
| 630X0170 | 170 x 225 | 134 | 146 | 162.0 | 109000 | 1283 | 113 | 14 x M16 | 355 |
| 630X0180 | 180 x 235 | 134 | 146 | 162.0 | 132000 | 1466 | 124 | 16 x M16 | 355 |
| 630X0190 | 190 x 250 | 134 | 146 | 162.0 | 139000 | 1466 | 116 | 16 x M16 | 355 |
| 630X0200 | 200 x 260 | 134 | 146 | 162.0 | 146500 | 1466 | 112 | 16 x M16 | 355 |

Fenlock™ Cone Clamping Element Dimensions



FENLOCK CLAMPING ELEMENTS TYPE FLK 132 + FLK 133 SELF-CENTERING

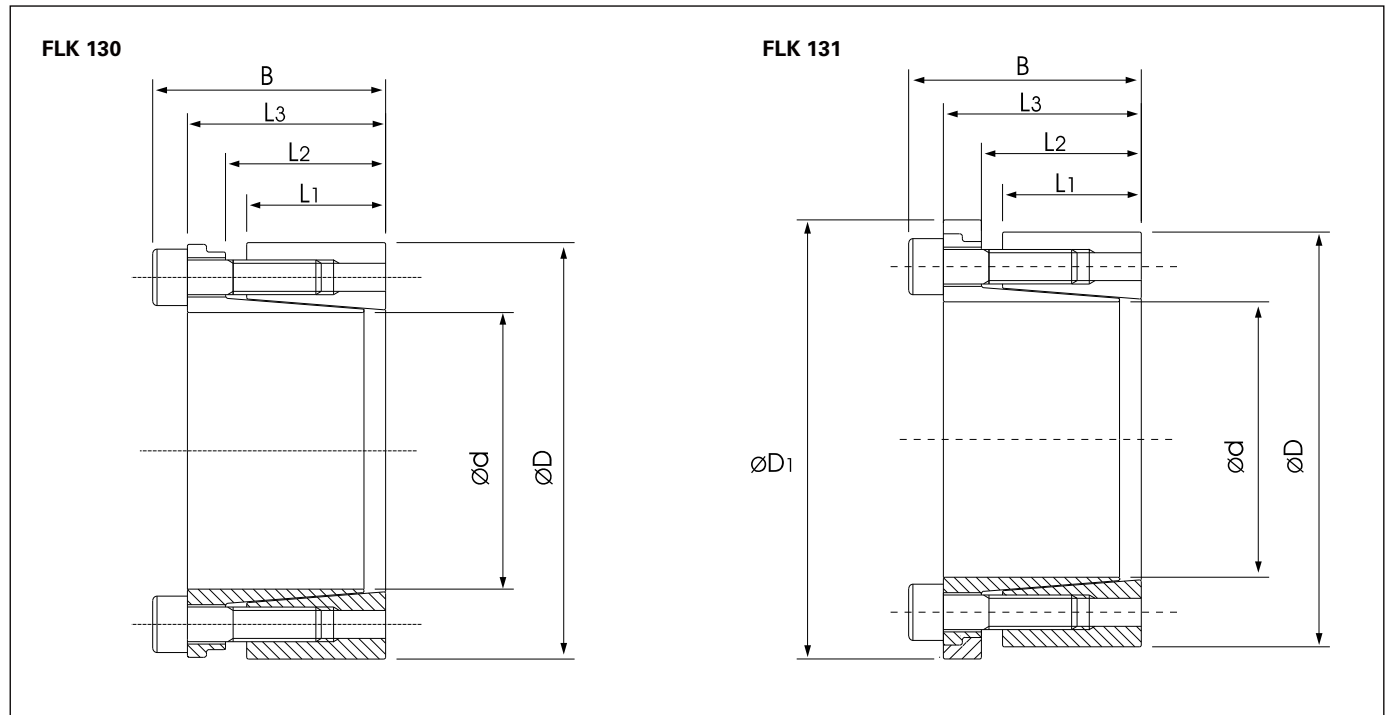


| Product Code | d x D mm | L1 mm | L2 mm | L3 mm | B mm | FLK 133 Only D1 mm | Tightening Screws | | | FLK 132 | | | FLK 133 | | |
|--------------|------------------|----------|----------|----------|---------|--------------------------|-------------------|---------|-------------------------------|--------------------|------------------------------|---------------------------------------|--------------------|------------------------------|---------------------------------------|
| | | | | | | | Grade 12.9 | | Tightening torque Ms Nm | Torque Mt Nm | Axial Thrust F ass. kN | Hub Stress Pn N/mm ² | Torque Mt Nm | Axial Thrust F ass. kN | Hub Stress Pn N/mm ² |
| | | | | | | | No. x type | FLK 132 | | | | | | | |
| 630 R/G 0020 | 20 x 47 | 17 | 22 | 28 | 34 | 54 | 5 x M6 | 14 | 17 | 380 | 38 | 125 | 280 | 28 | 95 |
| 630 R/G 0022 | 22 x 47 | 17 | 22 | 28 | 34 | 54 | 5 x M6 | 14 | 17 | 410 | 38 | 125 | 300 | 28 | 95 |
| 630 R/G 0024 | 24 x 50 | 17 | 22 | 28 | 34 | 57 | 5 x M6 | 14 | 17 | 450 | 38 | 120 | 330 | 28 | 90 |
| 630 R/G 0025 | 25 x 50 | 17 | 22 | 28 | 34 | 57 | 6 x M6 | 14 | 17 | 570 | 46 | 140 | 420 | 34 | 105 |
| 630 R/G 0028 | 28 x 55 | 17 | 22 | 28 | 34 | 62 | 6 x M6 | 14 | 17 | 630 | 46 | 130 | 470 | 34 | 95 |
| 630 R/G 0030 | 30 x 55 | 17 | 22 | 28 | 34 | 62 | 6 x M6 | 14 | 17 | 660 | 46 | 130 | 500 | 34 | 95 |
| 630 R/G 0032 | 32 x 60 | 17 | 22 | 28 | 34 | 67 | 8 x M6 | 14 | 17 | 970 | 60 | 155 | 720 | 45 | 115 |
| 630 R/G 0035 | 35 x 60 | 17 | 22 | 28 | 34 | 67 | 8 x M6 | 14 | 17 | 1060 | 60 | 155 | 790 | 45 | 115 |
| 630 R/G 0038 | 38 x 65 | 17 | 22 | 28 | 34 | 72 | 8 x M6 | 14 | 17 | 1150 | 60 | 145 | 850 | 45 | 105 |
| 630 R/G 0040 | 40 x 65 | 17 | 22 | 28 | 34 | 72 | 8 x M6 | 14 | 17 | 1210 | 60 | 145 | 900 | 45 | 105 |
| 630 R/G 0042 | 42 x 75 | 20 | 25 | 33 | 41 | 82 | 7 x M8 | 35 | 41 | 2050 | 98 | 170 | 1530 | 73 | 125 |
| 630 R/G 0045 | 45 x 75 | 20 | 25 | 33 | 41 | 82 | 7 x M8 | 35 | 41 | 2200 | 98 | 170 | 1650 | 73 | 125 |
| 630 R/G 0048 | 48 x 80 | 20 | 25 | 33 | 41 | 87 | 7 x M8 | 35 | 41 | 2350 | 98 | 160 | 1760 | 73 | 120 |
| 630 R/G 0050 | 50 x 80 | 20 | 25 | 33 | 41 | 87 | 7 x M8 | 35 | 41 | 2450 | 98 | 160 | 1830 | 73 | 120 |
| 630 R/G 0055 | 55 x 85 | 20 | 25 | 33 | 41 | 92 | 8 x M8 | 35 | 41 | 3080 | 112 | 175 | 2300 | 83 | 130 |
| 630 R/G 0060 | 60 x 90 | 20 | 25 | 33 | 41 | 97 | 8 x M8 | 35 | 41 | 3360 | 112 | 165 | 2510 | 83 | 125 |
| 630 R/G 0065 | 65 x 95 | 20 | 25 | 33 | 41 | 102 | 9 x M8 | 35 | 41 | 4090 | 126 | 175 | 3060 | 94 | 130 |
| 630 R/G 0070 | 70 x 110 | 24 | 30 | 40 | 50 | 117 | 8 x M10 | 70 | 83 | 6300 | 179 | 180 | 4670 | 133 | 135 |
| 630 R/G 0075 | 75 x 115 | 24 | 30 | 40 | 50 | 122 | 8 x M10 | 70 | 83 | 6700 | 179 | 170 | 5000 | 133 | 125 |
| 630 R/G 0080 | 80 x 120 | 24 | 30 | 40 | 50 | 127 | 8 x M10 | 70 | 83 | 7150 | 179 | 170 | 5300 | 133 | 125 |
| 630 R/G 0085 | 85 x 125 | 24 | 30 | 40 | 50 | 132 | 9 x M10 | 70 | 83 | 8500 | 200 | 180 | 6300 | 148 | 135 |
| 630 R/G 0090 | 90 x 130 | 24 | 30 | 40 | 50 | 137 | 9 x M10 | 70 | 83 | 9100 | 200 | 170 | 6750 | 148 | 130 |
| 630 R/G 0095 | 95 x 135 | 24 | 30 | 40 | 50 | 142 | 10 x M10 | 70 | 83 | 10600 | 224 | 180 | 7900 | 166 | 135 |
| 630 R/G 0100 | 100 x 145 | 26 | 32 | 44 | 56 | 152 | 8 x M12 | 125 | 145 | 13400 | 268 | 190 | 9700 | 194 | 140 |
| 630 R/G 0110 | 110 x 155 | 26 | 32 | 44 | 56 | 162 | 8 x M12 | 125 | 145 | 14600 | 268 | 180 | 10600 | 194 | 130 |
| 630 R/G 0120 | 120 x 165 | 26 | 32 | 44 | 56 | 172 | 9 x M12 | 125 | 145 | 17900 | 298 | 180 | 13000 | 216 | 135 |
| 630 R/G 0130 | 130 x 180 | 34 | 40 | 54 | 66 | 187 | 12 x M12 | 125 | 145 | 26000 | 400 | 170 | 18900 | 290 | 125 |
| 630 R/G 0140 | 140 x 190 | 34 | 40 | 54 | 68 | 197 | 9 x M14 | 190 | 230 | 27000 | 384 | 150 | 20500 | 290 | 120 |
| 630 R/G 0150 | 150 x 200 | 34 | 40 | 54 | 68 | 207 | 10 x M14 | 190 | 230 | 33000 | 440 | 170 | 25000 | 333 | 130 |
| 630 R/G 0160 | 160 x 210 | 34 | 40 | 54 | 68 | 217 | 11 x M14 | 190 | 230 | 38000 | 479 | 170 | 29000 | 362 | 135 |
| 630 R/G 0170 | 170 x 225 | 44 | 50 | 64 | 78 | 232 | 12 x M14 | 190 | 230 | 45000 | 530 | 130 | 34000 | 400 | 105 |
| 630 R/G 0180 | 180 x 235 | 44 | 50 | 64 | 78 | 242 | 12 x M14 | 190 | 230 | 47000 | 530 | 130 | 36000 | 400 | 105 |
| 630 R/G 0190 | 190 x 250 | 44 | 50 | 64 | 78 | 257 | 15 x M14 | 190 | 230 | 62900 | 660 | 150 | 47500 | 500 | 120 |
| 630 R/G 0200 | 200 x 260 | 44 | 50 | 64 | 78 | 267 | 15 x M14 | 190 | 230 | 66000 | 660 | 150 | 50000 | 500 | 115 |

R = FLK 132 G = FLK 133

NOTE: It is possible to reduce the screw tightening torque down to 60% of the values indicated in above table; as a result Mt & F ass, are reduced proportionally.

FENLOCK CLAMPING ELEMENTS TYPE FLK 130 + FLK 131 SELF CENTERING



| Product Code | d x D | L1 | L2 | L3 | B | FLK 131 Only D1 | Tightening Screws | | FLK 130 | | | FLK 131 | | |
|--------------|------------------|----|----|----|----|-----------------|-------------------|-------------------|---------|-------------------|------------|---------|-------------------|------------|
| | | | | | | | Grade 12.9 | Tightening torque | Torque | Axial Thrust | Hub Stress | Torque | Axial Thrust | Hub Stress |
| | | | | | | | No. x type | Ms | Mt | F ass. | Pn | Mt | F ass. | Pn |
| | mm | mm | mm | mm | mm | mm | Nm | Nm | kN | N/mm ² | Nm | kN | N/mm ² | |
| 630 C/D 0020 | 20 x 47 | 26 | 30 | 41 | 47 | 53 | 6 x M6 | 17 | 540 | 54 | 120 | 330 | 34 | 75 |
| 630 C/D 0022 | 22 x 47 | 26 | 30 | 41 | 47 | 53 | 6 x M6 | 17 | 600 | 54 | 120 | 370 | 34 | 75 |
| 630 C/D 0024 | 24 x 50 | 26 | 30 | 41 | 47 | 56 | 6 x M6 | 17 | 650 | 54 | 115 | 400 | 34 | 70 |
| 630 C/D 0025 | 25 x 50 | 26 | 30 | 41 | 47 | 56 | 6 x M6 | 17 | 680 | 54 | 115 | 420 | 34 | 70 |
| 630 C/D 0028 | 28 x 55 | 26 | 30 | 41 | 47 | 61 | 6 x M6 | 17 | 760 | 54 | 105 | 470 | 34 | 65 |
| 630 C/D 0030 | 30 x 55 | 26 | 30 | 41 | 47 | 61 | 6 x M6 | 17 | 820 | 54 | 105 | 510 | 34 | 65 |
| 630 C/D 0032 | 32 x 60 | 26 | 30 | 41 | 47 | 66 | 9 x M6 | 17 | 1160 | 73 | 125 | 720 | 45 | 80 |
| 630 C/D 0035 | 35 x 60 | 26 | 30 | 41 | 47 | 66 | 9 x M6 | 17 | 1270 | 73 | 125 | 790 | 45 | 80 |
| 630 C/D 0038 | 38 x 65 | 26 | 30 | 41 | 47 | 71 | 9 x M6 | 17 | 1380 | 73 | 115 | 860 | 45 | 70 |
| 630 C/D 0040 | 40 x 65 | 26 | 30 | 41 | 47 | 71 | 9 x M6 | 17 | 1450 | 73 | 115 | 900 | 45 | 70 |
| 630 C/D 0042 | 42 x 75 | 30 | 35 | 49 | 57 | 81 | 6 x M8 | 41 | 2130 | 101 | 120 | 1320 | 63 | 75 |
| 630 C/D 0045 | 45 x 75 | 30 | 35 | 49 | 57 | 81 | 6 x M8 | 41 | 2280 | 101 | 120 | 1410 | 63 | 75 |
| 630 C/D 0048 | 48 x 80 | 30 | 35 | 49 | 57 | 86 | 6 x M8 | 41 | 2430 | 101 | 115 | 1510 | 63 | 70 |
| 630 C/D 0050 | 50 x 80 | 30 | 35 | 49 | 57 | 86 | 6 x M8 | 41 | 2530 | 101 | 115 | 1570 | 63 | 70 |
| 630 C/D 0055 | 55 x 85 | 30 | 35 | 49 | 57 | 91 | 9 x M8 | 41 | 3700 | 135 | 140 | 2310 | 84 | 90 |
| 630 C/D 0060 | 60 x 90 | 30 | 35 | 49 | 57 | 96 | 9 x M8 | 41 | 4000 | 135 | 135 | 2520 | 84 | 85 |
| 630 C/D 0065 | 65 x 95 | 30 | 35 | 49 | 57 | 102 | 9 x M8 | 41 | 4380 | 135 | 125 | 2730 | 84 | 80 |
| 630 C/D 0070 | 70 x 110 | 40 | 45 | 59 | 69 | 117 | 7 x M10 | 83 | 7500 | 214 | 130 | 4650 | 133 | 80 |
| 630 C/D 0075 | 75 x 115 | 40 | 45 | 59 | 69 | 122 | 7 x M10 | 83 | 8000 | 214 | 125 | 5000 | 133 | 80 |
| 630 C/D 0080 | 80 x 120 | 40 | 45 | 59 | 69 | 127 | 7 x M10 | 83 | 8560 | 214 | 120 | 5330 | 133 | 75 |
| 630 C/D 0085 | 85 x 125 | 40 | 45 | 59 | 69 | 132 | 8 x M10 | 83 | 11370 | 268 | 145 | 7080 | 167 | 90 |
| 630 C/D 0090 | 90 x 130 | 40 | 45 | 59 | 69 | 137 | 8 x M10 | 83 | 12000 | 268 | 135 | 7500 | 167 | 85 |
| 630 C/D 0095 | 95 x 135 | 40 | 45 | 59 | 69 | 142 | 10 x M10 | 83 | 12600 | 268 | 130 | 7900 | 167 | 85 |
| 630 C/D 0100 | 100 x 145 | 46 | 52 | 68 | 80 | 153 | 7 x M12 | 145 | 15580 | 312 | 125 | 9700 | 194 | 80 |
| 630 C/D 0110 | 110 x 155 | 46 | 52 | 68 | 80 | 163 | 7 x M12 | 145 | 17100 | 312 | 115 | 10650 | 194 | 75 |
| 630 C/D 0120 | 120 x 165 | 46 | 52 | 68 | 80 | 173 | 8 x M12 | 145 | 23370 | 390 | 135 | 14550 | 243 | 85 |
| 630 C/D 0130 | 130 x 180 | 46 | 52 | 68 | 80 | 188 | 10 x M12 | 145 | 30380 | 467 | 150 | 18950 | 291 | 95 |
| 630 C/D 0140 | 140 x 190 | 50 | 57 | 76 | 90 | 199 | 11 x M14 | 230 | 29900 | 428 | 120 | 18650 | 267 | 75 |
| 630 C/D 0150 | 150 x 200 | 50 | 57 | 76 | 90 | 209 | 12 x M14 | 230 | 40000 | 535 | 145 | 25000 | 333 | 90 |
| 630 C/D 0160 | 160 x 210 | 50 | 57 | 76 | 90 | 219 | 13 x M14 | 230 | 42750 | 535 | 135 | 26650 | 333 | 85 |
| 630 C/D 0170 | 170 x 225 | 50 | 57 | 76 | 90 | 234 | 14 x M14 | 230 | 54500 | 641 | 150 | 34000 | 400 | 95 |
| 630 C/D 0180 | 180 x 235 | 50 | 57 | 76 | 90 | 244 | 14 x M14 | 230 | 57700 | 641 | 145 | 36000 | 400 | 90 |

C = FLK 130 D = FLK 131

NOTE: It is possible to reduce the screw tightening torque down to 60% of the values indicated in above table; as a result Mt & F ass, are reduced proportionally.

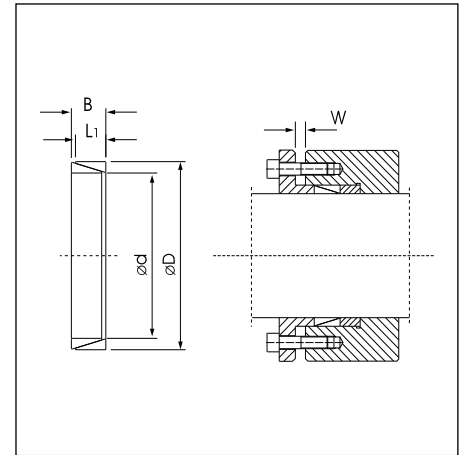
Fenlock™ Cone Clamping Element Dimensions



FENLOCK CLAMPING ELEMENTS TYPE FLK 300 NON SELF-CENTERING

| Product Code | Dimensions | | | Pre-load force Pt N | Total force Pa N | Torque Mt Nm | Axial thrust F ass kN | Distance W before tightening * | | | | Hub Stress Pn N/mm² |
|--------------|------------|------|-------|---------------------|------------------|--------------|-----------------------|--------------------------------|------|------|------|---------------------|
| | d x D mm | B mm | L1 mm | | | | | 1 mm | 2 mm | 3 mm | 4 mm | |
| 630T0006 | 6 x 9 | 4.5 | 3.7 | - | 3800 | 2 | 0.84 | 2.5 | 2.5 | 3.0 | 4.0 | 75 |
| 630T0007 | 7 x 10 | 4.5 | 3.7 | - | 3900 | 3 | 0.86 | 2.5 | 2.5 | 3.0 | 4.0 | 70 |
| 630T0008 | 8 x 11 | 4.5 | 3.7 | - | 5300 | 5 | 1.17 | 2.5 | 2.5 | 3.0 | 4.0 | 90 |
| 630T0009 | 9 x 12 | 4.5 | 3.7 | 7650 | 15600 | 8 | 1.76 | 2.5 | 2.5 | 3.0 | 4.0 | 105 |
| 630T0010 | 10 x 13 | 4.5 | 3.7 | 7000 | 15600 | 10 | 1.91 | 2.5 | 2.5 | 3.0 | 4.0 | 105 |
| 630T0012 | 12 x 15 | 4.5 | 3.7 | 7000 | 15600 | 11 | 1.91 | 2.5 | 2.5 | 3.0 | 4.0 | 90 |
| 630T0013 | 13 x 16 | 4.5 | 3.7 | 6500 | 15600 | 13 | 2.02 | 2.5 | 2.5 | 3.0 | 4.0 | 90 |
| 630T0014 | 14 x 18 | 6.3 | 5.3 | 11000 | 25400 | 22 | 3.18 | 3.5 | 3.5 | 4.5 | 5.5 | 90 |
| 630T0015 | 15 x 19 | 6.3 | 5.3 | 10800 | 25400 | 24 | 3.24 | 3.5 | 3.5 | 4.5 | 5.5 | 85 |
| 630T0016 | 16 x 20 | 6.3 | 5.3 | 10000 | 25400 | 27 | 3.42 | 3.5 | 3.5 | 4.5 | 5.5 | 85 |
| 630T0017 | 17 x 21 | 6.3 | 5.3 | 9600 | 25400 | 30 | 3.51 | 3.5 | 3.5 | 4.5 | 5.5 | 85 |
| 630T0018 | 18 x 22 | 6.3 | 5.3 | 9150 | 25400 | 32 | 3.61 | 3.5 | 3.5 | 4.5 | 5.5 | 80 |
| 630T0019 | 19 x 24 | 6.3 | 5.3 | 12500 | 36000 | 49 | 5.22 | 3.5 | 3.5 | 4.5 | 5.5 | 110 |
| 630T0020 | 20 x 25 | 6.3 | 5.3 | 12000 | 36000 | 53 | 5.33 | 3.5 | 3.5 | 4.5 | 5.5 | 105 |
| 630T0022 | 22 x 26 | 6.3 | 5.3 | 9000 | 36000 | 66 | 6.00 | 3.5 | 3.5 | 4.5 | 5.5 | 115 |
| 630T0024 | 24 x 28 | 6.3 | 5.3 | 8400 | 36000 | 73 | 6.13 | 3.5 | 3.5 | 4.5 | 5.5 | 110 |
| 630T0025 | 25 x 30 | 6.3 | 5.3 | 10000 | 36000 | 72 | 5.77 | 3.5 | 3.5 | 4.5 | 5.5 | 95 |
| 630T0028 | 28 x 32 | 6.3 | 5.3 | 7500 | 36000 | 88 | 6.33 | 3.5 | 3.5 | 4.5 | 5.5 | 100 |
| 630T0030 | 30 x 35 | 6.3 | 5.3 | 8600 | 36000 | 91 | 6.08 | 3.5 | 3.5 | 4.5 | 5.5 | 85 |
| 630T0032 | 32 x 36 | 6.3 | 5.3 | 7900 | 45000 | 131 | 8.24 | 3.5 | 3.5 | 4.5 | 5.5 | 115 |
| 630T0035 | 35 x 40 | 7.0 | 6.0 | 10000 | 54000 | 171 | 9.77 | 3.5 | 3.5 | 4.5 | 5.5 | 110 |
| 630T0036 | 36 x 42 | 7.0 | 6.0 | 11700 | 54000 | 169 | 9.39 | 3.5 | 3.5 | 4.5 | 5.5 | 110 |
| 630T0038 | 38 x 44 | 7.0 | 6.0 | 11000 | 54000 | 181 | 9.55 | 3.5 | 3.5 | 4.5 | 5.5 | 95 |
| 630T0040 | 40 x 45 | 8.0 | 6.6 | 13900 | 66000 | 231 | 11.57 | 3.5 | 4.5 | 5.5 | 6.5 | 105 |
| 630T0042 | 42 x 48 | 8.0 | 6.6 | 15550 | 66000 | 235 | 11.22 | 3.5 | 4.5 | 5.5 | 6.5 | 95 |
| 630T0045 | 45 x 52 | 10.0 | 8.6 | 28300 | 99000 | 353 | 15.71 | 3.5 | 4.5 | 5.5 | 6.5 | 95 |
| 630T0048 | 48 x 55 | 10.0 | 8.6 | 24700 | 132000 | 572 | 23.84 | 3.5 | 4.5 | 5.5 | 6.5 | 135 |
| 630T0050 | 50 x 57 | 10.0 | 8.6 | 23600 | 132000 | 602 | 24.08 | 3.5 | 4.5 | 5.5 | 6.5 | 130 |
| 630T0055 | 55 x 62 | 10.0 | 8.6 | 21700 | 132000 | 670 | 24.35 | 3.5 | 4.5 | 5.5 | 6.5 | 125 |
| 630T0060 | 60 x 68 | 12.0 | 10.4 | 27500 | 157200 | 860 | 28.60 | 3.5 | 4.5 | 5.5 | 7.0 | 110 |
| 630T0063 | 63 x 71 | 12.0 | 10.4 | 26500 | 157200 | 910 | 28.80 | 3.5 | 4.5 | 5.5 | 7.0 | 105 |
| 630T0065 | 65 x 73 | 12.0 | 10.4 | 25500 | 157200 | 950 | 29.20 | 3.5 | 4.5 | 5.5 | 7.0 | 100 |
| 630T0070 | 70 x 79 | 14.0 | 12.2 | 31000 | 209600 | 1380 | 39.40 | 3.5 | 5.0 | 6.5 | 7.5 | 110 |
| 630T0071 | 71 x 80 | 14.0 | 12.2 | 31000 | 209600 | 1400 | 39.40 | 3.5 | 5.0 | 6.5 | 7.5 | 110 |
| 630T0075 | 75 x 84 | 14.0 | 12.2 | 34700 | 209600 | 1450 | 38.60 | 3.5 | 5.0 | 6.5 | 7.5 | 100 |
| 630T0080 | 80 x 91 | 17.0 | 15.0 | 48000 | 290000 | 2200 | 55.00 | 4.0 | 6.0 | 6.5 | 8.0 | 105 |
| 630T0085 | 85 x 96 | 17.0 | 15.0 | 45500 | 305000 | 2400 | 56.40 | 4.0 | 6.0 | 6.5 | 8.0 | 105 |
| 630T0090 | 90 x 101 | 17.0 | 15.0 | 43600 | 320000 | 2730 | 60.50 | 4.0 | 6.0 | 6.5 | 8.0 | 105 |
| 630T0095 | 95 x 106 | 17.0 | 15.0 | 41300 | 330000 | 3050 | 64.20 | 4.0 | 6.0 | 6.5 | 8.0 | 110 |
| 630T0100 | 100 x 114 | 21.0 | 18.7 | 61000 | 445000 | 4200 | 84.00 | 5.0 | 6.0 | 7.0 | 9.0 | 105 |
| 630T0110 | 110 x 124 | 21.0 | 18.7 | 66000 | 485000 | 5150 | 93.60 | 5.0 | 6.0 | 7.0 | 9.0 | 105 |
| 630T0120 | 120 x 134 | 21.0 | 18.7 | 60300 | 510000 | 6050 | 100.80 | 5.0 | 6.0 | 7.0 | 9.0 | 105 |
| 630T0130 | 130 x 148 | 28.0 | 25.3 | 96300 | 765000 | 9600 | 147.60 | 5.0 | 7.0 | 9.0 | 11.0 | 105 |
| 630T0140 | 140 x 158 | 28.0 | 25.3 | 89000 | 800500 | 11000 | 158.50 | 6.0 | 7.0 | 9.0 | 11.0 | 105 |
| 630T0160 | 160 x 178 | 28.0 | 25.3 | 78600 | 900000 | 14600 | 182.50 | 6.0 | 7.0 | 9.0 | 11.0 | 110 |
| 630T0170 | 170 x 191 | 33.0 | 30.0 | 117400 | 1160000 | 19500 | 229.00 | 7.0 | 9.0 | 10.0 | 12.0 | 105 |
| 630T0180 | 180 x 201 | 33.0 | 30.0 | 111300 | 1200000 | 21300 | 236.00 | 7.0 | 9.0 | 10.0 | 12.0 | 105 |
| 630T0190 | 190 x 211 | 33.0 | 30.0 | 105000 | 1260000 | 24200 | 255.00 | 7.0 | 9.0 | 10.0 | 12.0 | 110 |
| 630T0200 | 200 x 224 | 38.0 | 34.8 | 134200 | 1550000 | 31000 | 310.00 | 7.0 | 8.0 | 11.0 | 13.0 | 105 |
| 630T0210 | 210 x 234 | 38.0 | 34.8 | 127200 | 1610000 | 35000 | 333.00 | 7.0 | 8.0 | 11.0 | 13.0 | 110 |
| 630T0220 | 220 x 244 | 38.0 | 34.8 | 122100 | 1690000 | 38000 | 345.00 | 7.0 | 9.0 | 11.0 | 13.0 | 110 |
| 630T0230 | 230 x 257 | 43.0 | 39.5 | 164500 | 2000000 | 47000 | 408.00 | 7.0 | 10.0 | 12.0 | 14.0 | 105 |
| 630T0240 | 240 x 267 | 43.0 | 39.5 | 157400 | 2250000 | 51000 | 425.00 | 7.0 | 10.0 | 12.0 | 14.0 | 110 |
| 630T0250 | 250 x 280 | 48.0 | 44.0 | 190000 | 2060000 | 52000 | 415.00 | 7.0 | 10.0 | 13.0 | 16.0 | 89 |
| 630T0260 | 260 x 290 | 48.0 | 44.0 | 182000 | 2132000 | 56000 | 435.00 | 7.0 | 10.0 | 13.0 | 16.0 | 89 |
| 630T0270 | 270 x 300 | 48.0 | 44.0 | 177000 | 2207000 | 61000 | 450.00 | 7.0 | 10.0 | 13.0 | 16.0 | 89 |
| 630T0280 | 280 x 313 | 53.0 | 49.0 | 206000 | 2536000 | 72500 | 520.00 | 7.0 | 11.0 | 14.0 | 17.0 | 89 |
| 630T0290 | 290 x 323 | 53.0 | 49.0 | 222000 | 2632000 | 77500 | 535.00 | 7.0 | 11.0 | 14.0 | 17.0 | 89 |
| 630T0300 | 300 x 333 | 53.0 | 49.0 | 214000 | 2704000 | 83000 | 555.00 | 7.0 | 11.0 | 14.0 | 17.0 | 89 |
| 630T0320 | 320 x 360 | 65.0 | 59.0 | 292000 | 3492000 | 114000 | 710.00 | 10.0 | 15.0 | 20.0 | 25.0 | 89 |
| 630T0340 | 340 x 380 | 65.0 | 59.0 | 272000 | 3672000 | 126000 | 755.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0360 | 360 x 400 | 65.0 | 59.0 | 258000 | 3858000 | 144000 | 800.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0380 | 380 x 420 | 65.0 | 59.0 | 269000 | 4069000 | 160500 | 845.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0400 | 400 x 440 | 65.0 | 59.0 | 256000 | 4256000 | 178000 | 890.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0420 | 420 x 460 | 65.0 | 59.0 | 244000 | 4444000 | 196000 | 935.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0440 | 440 x 480 | 65.0 | 59.0 | 234000 | 4633000 | 215000 | 980.00 | 10.0 | 15.0 | 20.0 | 25.0 | 90 |
| 630T0460 | 460 x 500 | 65.0 | 59.0 | 224000 | 4824000 | 235000 | 1020.00 | 10.0 | 15.0 | 20.0 | 25.0 | 91 |
| 630T0480 | 480 x 520 | 65.0 | 59.0 | 239000 | 5039000 | 256000 | 1070.00 | 10.0 | 15.0 | 20.0 | 25.0 | 91 |
| 630T0500 | 500 x 540 | 65.0 | 59.0 | 229000 | 5229000 | 278000 | 1110.00 | 10.0 | 15.0 | 20.0 | 25.0 | 91 |
| 630T0520 | 520 x 570 | 80.0 | 73.0 | 338000 | 6798000 | 372000 | 1430.00 | 12.0 | 18.0 | 24.0 | 30.0 | 91 |
| 630T0540 | 540 x 590 | 80.0 | 73.0 | 326000 | 7026000 | 400000 | 1480.00 | 12.0 | 18.0 | 24.0 | 30.0 | 91 |

FENLOCK CLAMPING ELEMENTS TYPE FLK 300 NON SELF-CENTERING



For appropriate thrust collar dimensions – consult your local Authorised Distributor.

* Several FLK 300 clamping elements can be used in series to achieve higher torques.

W is the minimum clearance distance for tightening 1, 2, 3, & 4 elements.

For multiple elements, Mt is multiplied by:

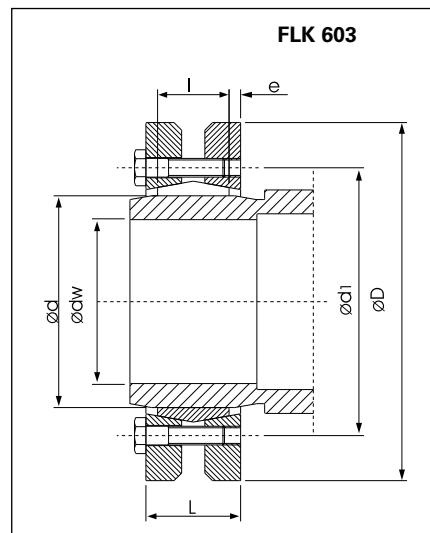
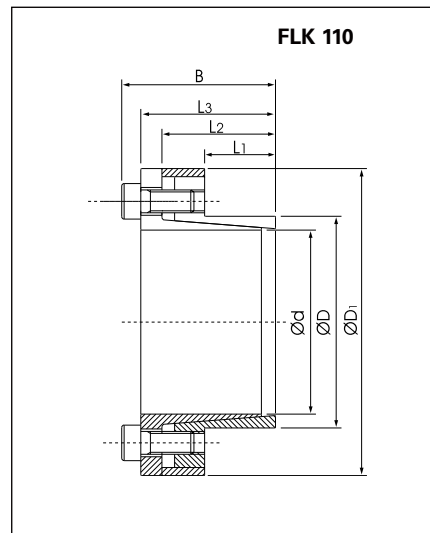
- 2 elements Mt x 1.55
- 3 elements Mt x 1.85
- 4 elements Mt x 2.02

FENLOCK CLAMPING ELEMENTS TYPE FLK 250 L SELF-CENTERING

| Product Code | d x D mm | B mm | L1 mm | D1 mm | Torque Mt Nm | Axial Thrust F ass. kN | Tightening nut | | Hub Stress Pn N/mm² |
|--------------|----------|------|-------|-------|--------------|------------------------|----------------|-------------------------|---------------------|
| | | | | | | | Type | Tightening torque Ms Nm | |
| 630 F 0014 | 14 x 25 | 30 | 20 | 32 | 64 | 9 | KM4 | 95 | 45 |
| 630 F 0015 | 15 x 25 | 30 | 20 | 32 | 70 | 9 | KM4 | 95 | 45 |
| 630 F 0016 | 16 x 25 | 30 | 20 | 32 | 73 | 9 | KM4 | 95 | 45 |
| 630 F 0017 | 17 x 25 | 32 | 20 | 32 | 80 | 9 | KM4* | 95 | 45 |
| 630 F 0018 | 18 x 30 | 32 | 20 | 38 | 100 | 10 | KM5 | 160 | 45 |
| 630 F 0019 | 19 x 30 | 32 | 20 | 38 | 105 | 11 | KM5 | 160 | 45 |
| 630 F 0020 | 20 x 30 | 32 | 20 | 38 | 112 | 11 | KM5 | 160 | 45 |
| 630 F 0022 | 22 x 35 | 36 | 25 | 45 | 163 | 14 | KM6 | 220 | 45 |
| 630 F 0024 | 24 x 35 | 36 | 25 | 45 | 178 | 14 | KM6 | 220 | 45 |
| 630 F 0025 | 25 x 35 | 36 | 25 | 45 | 185 | 14 | KM6 | 220 | 45 |
| 630 F 0028 | 28 x 40 | 42 | 30 | 52 | 250 | 17 | KM7 | 340 | 40 |
| 630 F 0030 | 30 x 40 | 42 | 30 | 52 | | | | | |

FENLOCK CLAMPING ELEMENTS TYPE FLK 110 SELF-CENTERING

| Product Code | d x D mm | L1 mm | L2 mm | L3 mm | B mm | D1 mm | Torque Mt Nm | Axial Thrust F ass. kN | Tightening Screws | | Hub Stress Pn N/mm ² |
|--------------|-------------|----------|----------|----------|---------|----------|--------------------|------------------------------|-------------------|-------------------|---------------------------------------|
| | | | | | | | | | Grade 12.9 | Tightening torque | |
| | | | | | | | | | No. x type | Ms Nm | |
| 630B0006 | 6 x 14 | 10 | 18.5 | 21 | 24 | 25 | 12 | 4 | 3 x M3 | 2 | 80 |
| 630B0007 | 7 x 15 | 12 | 22.0 | 25 | 29 | 27 | 25 | 7 | 3 x M4 | 5 | 110 |
| 630B0008 | 8 x 15 | 12 | 22.0 | 25 | 29 | 27 | 29 | 7 | 3 x M4 | 5 | 110 |
| 630B0009 | 9 x 16 | 14 | 23.0 | 26 | 30 | 28 | 44 | 10 | 4 x M4 | 5 | 115 |
| 630B0010 | 10 x 16 | 14 | 23.0 | 26 | 30 | 28 | 49 | 10 | 4 x M4 | 5 | 115 |
| 630B0011 | 11 x 18 | 14 | 23.0 | 26 | 30 | 32 | 53 | 10 | 4 x M4 | 5 | 105 |
| 630B0012 | 12 x 18 | 14 | 23.0 | 26 | 30 | 32 | 58 | 10 | 4 x M4 | 5 | 105 |
| 630B0013 | 13 x 23 | 14 | 23.0 | 26 | 30 | 38 | 63 | 10 | 4 x M4 | 5 | 80 |
| 630B0014 | 14 x 23 | 14 | 23.0 | 26 | 30 | 38 | 68 | 10 | 4 x M4 | 5 | 80 |
| 630B0015 | 15 x 24 | 16 | 29.0 | 36 | 42 | 45 | 127 | 17 | 3 x M6 | 17 | 115 |
| 630B0016 | 16 x 24 | 16 | 29.0 | 36 | 42 | 45 | 136 | 17 | 3 x M6 | 17 | 115 |
| 630B0017 | 17 x 26 | 18 | 31.0 | 38 | 44 | 47 | 180 | 22 | 4 x M6 | 17 | 125 |
| 630B0018 | 18 x 26 | 18 | 31.0 | 38 | 44 | 47 | 200 | 22 | 4 x M6 | 17 | 125 |
| 630B0019 | 19 x 27 | 18 | 31.0 | 38 | 44 | 49 | 210 | 22 | 4 x M6 | 17 | 120 |
| 630B0020 | 20 x 28 | 18 | 31.0 | 38 | 44 | 50 | 220 | 22 | 4 x M6 | 17 | 115 |
| 630B0022 | 22 x 32 | 25 | 38.0 | 45 | 51 | 54 | 250 | 22 | 4 x M6 | 17 | 80 |
| 630B0024 | 24 x 34 | 25 | 38.0 | 45 | 51 | 56 | 270 | 22 | 4 x M6 | 17 | 75 |
| 630B0025 | 25 x 34 | 25 | 38.0 | 45 | 51 | 56 | 280 | 22 | 4 x M6 | 17 | 75 |
| 630B0028 | 28 x 39 | 25 | 38.0 | 45 | 51 | 61 | 465 | 33 | 6 x M6 | 17 | 97 |
| 630B0030 | 30 x 41 | 25 | 38.0 | 45 | 51 | 62 | 510 | 33 | 6 x M6 | 17 | 90 |
| 630B0032 | 32 x 43 | 25 | 38.0 | 45 | 51 | 65 | 540 | 33 | 6 x M6 | 17 | 90 |
| 630B0038 | 38 x 50 | 32 | 45.0 | 52 | 58 | 72 | 860 | 45 | 8 x M6 | 17 | 75 |
| 630B0040 | 40 x 53 | 32 | 45.0 | 52 | 58 | 75 | 900 | 45 | 8 x M6 | 17 | 70 |
| 630B0042 | 42 x 55 | 32 | 45.0 | 52 | 58 | 78 | 950 | 45 | 8 x M6 | 17 | 70 |
| 630B0045 | 45 x 59 | 45 | 62.0 | 70 | 78 | 86 | 1890 | 84 | 8 x M8 | 41 | 85 |
| 630B0048 | 48 x 62 | 45 | 62.0 | 70 | 78 | 87 | 2010 | 84 | 8 x M8 | 41 | 80 |
| 630B0050 | 50 x 65 | 45 | 62.0 | 70 | 78 | 92 | 2100 | 84 | 8 x M8 | 41 | 75 |
| 630B0055 | 55 x 71 | 55 | 72.0 | 80 | 88 | 98 | 2600 | 94 | 9 x M8 | 41 | 65 |
| 630B0060 | 60 x 77 | 55 | 72.0 | 80 | 88 | 104 | 2840 | 94 | 9 x M8 | 41 | 60 |
| 630B0065 | 65 x 84 | 55 | 72.0 | 80 | 88 | 111 | 3070 | 94 | 9 x M8 | 41 | 55 |
| 630B0070 | 70 x 90 | 65 | 86.0 | 96 | 106 | 119 | 5250 | 150 | 9 x M10 | 83 | 70 |
| 630B0075 | 75 x 95 | 65 | 86.0 | 96 | 106 | 126 | 5600 | 150 | 9 x M10 | 83 | 65 |
| 630B0080 | 80 x 100 | 65 | 86.0 | 96 | 106 | 131 | 8020 | 200 | 12 x M10 | 83 | 80 |
| 630B0085 | 85 x 106 | 65 | 86.0 | 96 | 106 | 137 | 8500 | 200 | 12 x M10 | 83 | 75 |
| 630B0090 | 90 x 112 | 65 | 86.0 | 96 | 106 | 144 | 9000 | 200 | 12 x M10 | 83 | 75 |
| 630B0095 | 95 x 120 | 65 | 86.0 | 96 | 106 | 149 | 11000 | 230 | 14 x M10 | 83 | 80 |
| 630B0100 | 100 x 125 | 65 | 86.0 | 96 | 106 | 154 | 15000 | 300 | 18 x M10 | 83 | 95 |
| 630B0110 | 110 x 140 | 90 | 114.0 | 128 | 140 | 180 | 16000 | 290 | 12 x M12 | 145 | 65 |
| 630B0120 | 120 x 155 | 90 | 114.0 | 128 | 140 | 198 | 17500 | 290 | 12 x M12 | 145 | 55 |
| 630B0130 | 130 x 165 | 90 | 114.0 | 128 | 140 | 208 | 25000 | 384 | 16 x M12 | 145 | 70 |



FENLOCK CLAMPING ELEMENTS TYPE FLK 603 STD. VERSION

| Product Code | Type | Shaft dia. d | Torque Mt | Axial Thrust F ass. | Dimensions | | | | | Tightening screws 10.9 | Tightening torque Ms | Contact Stress Pw | |
|--------------|------|------------------|-------------------------|------------------------|------------|----|------|-----|------|---------------------------|-------------------------|----------------------|---|
| | | | | | dw | D | l | L | d1 | | | | e |
| | | | | | | | | | | | | | |
| 630 M 0014 | 14 | 11 12 | 30 50 | 6 9 | 38 | 7 | 11.0 | 23 | 2.00 | 4 x M5 | 4 | 186 | |
| 630 M 0016 | 16 | 13 14 | 70 90 | 10 13 | 41 | 11 | 15.0 | 26 | 2.00 | 5 x M5 | 4 | 130 | |
| 630 M 0024 | 24 | 19 20 21 | 170 210 250 | 25 27 29 | 50 | 14 | 19.5 | 36 | 2.75 | 6 x M5 | 4 | 286 | |
| 630 M 0030 | 30 | 24 25 26 | 300 340 380 | 29 31 33 | 60 | 16 | 21.5 | 44 | 2.75 | 7 x M5 | 4 | 233 | |
| 630 M 0036 | 36 | 28 30 31 | 440 570 630 | 50 58 58 | 72 | 18 | 23.5 | 52 | 2.75 | 5 x M6 | 12 | 307 | |
| 630 M 0044 | 44 | 32 35 36 | 620 780 860 | 64 74 77 | 80 | 20 | 25.5 | 61 | 2.75 | 7 x M6 | 12 | 317 | |
| 630 M 0050 | 50 | 38 40 42 | 940 1160 1380 | 79 86 92 | 90 | 22 | 27.5 | 70 | 2.75 | 8 x M6 | 12 | 289 | |
| 630 M 0055 | 55 | 42 45 48 | 1160 1520 1880 | 79 88 97 | 100 | 23 | 30.5 | 75 | 3.75 | 8 x M6 | 12 | 252 | |
| 630 M 0062 | 62 | 48 50 52 | 1850 2200 2400 | 100 111 117 | 110 | 23 | 30.5 | 86 | 3.75 | 10 x M6 | 12 | 279 | |
| 630 M 0068 | 68 | 50 55 60 | 2000 2500 3150 | 97 106 120 | 115 | 23 | 30.5 | 86 | 3.75 | 10 x M6 | 12 | 255 | |
| 630 M 0075 | 75 | 55 60 65 | 2500 3200 3950 | 119 137 155 | 138 | 25 | 32.5 | 100 | 3.75 | 7 x M8 | 30 | 273 | |
| 630 M 0080 | 80 | 60 65 70 | 3200 3900 4600 | 124 140 158 | 145 | 25 | 32.5 | 100 | 3.75 | 7 x M8 | 30 | 256 | |
| 630 M 0085 | 85 | 65 70 75 | 4800 6100 7400 | 175 195 216 | 155 | 30 | 39.0 | 114 | 4.50 | 10 x M8 | 30 | 285 | |
| 630 M 0090 | 90 | 65 70 75 | 4750 6000 7250 | 170 190 210 | 155 | 30 | 39.0 | 114 | 4.50 | 10 x M8 | 30 | 271 | |
| 630 M 0100 | 100 | 70 75 80 | 6900 7500 9000 | 195 220 240 | 170 | 34 | 44.0 | 124 | 5.00 | 12 x M8 | 30 | 258 | |
| 630 M 0110 | 110 | 75 80 85 | 7200 9000 10800 | 229 252 262 | 185 | 39 | 50.0 | 136 | 5.50 | 9 x M10 | 59 | 244 | |
| 630 M 0115 | 115 | 80 85 90 | 7400 9200 11100 | 235 259 269 | 188 | 39 | 50.0 | 141 | 5.50 | 9 x M10 | 59 | 234 | |
| 630 M 0120 | 120 | 80 85 90 | 10600 13300 14500 | 285 314 340 | 215 | 42 | 54.0 | 160 | 6.00 | 12 x M10 | 59 | 277 | |
| 630 M 0125 | 125 | 85 90 95 | 11000 13000 15000 | 296 324 352 | 215 | 42 | 54.0 | 160 | 6.00 | 12 x M10 | 59 | 266 | |
| 630 M 0130 | 130 | 90 95 100 | 11300 13300 15400 | 304 333 362 | 215 | 42 | 54.0 | 160 | 6.00 | 12 x M10 | 59 | 255 | |
| 630 M 0140 | 140 | 95 100 105 | 15100 17600 20100 | 367 396 425 | 230 | 46 | 60.5 | 175 | 7.25 | 10 x M12 | 100 | 264 | |

| Product Code | Type | Shaft dia. d | Torque Mt | Axial Thrust F ass. | Dimensions | | | | | Tightening screws 10.9 | Tightening torque Ms | Contact Stress Pw | |
|--------------|------|-------------------|----------------------------|------------------------|------------|-----|-------|-----|-------|---------------------------|-------------------------|----------------------|---|
| | | | | | dw | D | l | L | d1 | | | | e |
| | | | | | | | | | | | | | |
| 630 M 0155 | 155 | 105 110 115 | 22000 25000 28000 | 447 478 509 | 265 | 50 | 64.5 | 192 | 7.25 | 12 x M12 | 100 | 263 | |
| 630 M 0160 | 160 | 110 115 120 | 22600 25700 28800 | 460 490 520 | 265 | 50 | 64.5 | 192 | 7.25 | 12 x M12 | 100 | 254 | |
| 630 M 0165 | 165 | 115 120 125 | 31000 35000 39000 | 595 630 655 | 290 | 56 | 71.0 | 210 | 7.50 | 8 x M16 | 250 | 277 | |
| 630 M 0170 | 170 | 120 125 130 | 31900 36000 40100 | 610 640 670 | 290 | 56 | 71.0 | 210 | 7.50 | 8 x M16 | 250 | 268 | |
| 630 M 0175 | 175 | 125 130 135 | 36000 41000 45000 | 605 639 675 | 300 | 56 | 71.0 | 220 | 7.50 | 8 x M16 | 250 | 261 | |
| 630 M 0180 | 180 | 130 135 140 | 37000 42200 46300 | 800 840 885 | 300 | 56 | 71.0 | 220 | 7.50 | 8 x M16 | 250 | 253 | |
| 630 M 0185 | 185 | 135 140 145 | 52000 57000 62000 | 778 819 861 | 330 | 71 | 86.0 | 236 | 7.50 | 10 x M16 | 250 | 244 | |
| 630 M 0190 | 190 | 140 145 150 | 53500 58700 63800 | 800 840 885 | 330 | 71 | 86.0 | 236 | 7.50 | 10 x M16 | 250 | 237 | |
| 630 M 0195 | 195 | 140 150 155 | 65000 76000 81500 | 933 1025 1071 | 350 | 71 | 86.0 | 246 | 7.00 | 12 x M16 | 250 | 277 | |
| 630 M 0200 | 200 | 150 155 160 | 74000 80000 86000 | 990 1035 1080 | 350 | 71 | 86.0 | 246 | 7.00 | 12 x M16 | 250 | 270 | |
| 630 M 0220 | 220 | 160 165 170 | 95000 102000 110000 | 1190 1239 1290 | 370 | 88 | 104.0 | 270 | 8.00 | 15 x M16 | 250 | 248 | |
| 630 M 0240 | 240 | 170 180 190 | 120000 138000 156000 | 1464 1576 1675 | 405 | 92 | 109.0 | 295 | 8.00 | 12 x M20 | 490 | 272 | |
| 630 M 0260 | 260 | 190 200 210 | 164000 184000 205000 | 1760 1880 2010 | 430 | 103 | 120.0 | 321 | 8.00 | 14 x M20 | 490 | 262 | |
| 630 M 0280 | 280 | 210 220 230 | 217000 244000 270000 | 2090 2220 2350 | 460 | 114 | 134.0 | 346 | 10.00 | 16 x M20 | 490 | 251 | |

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