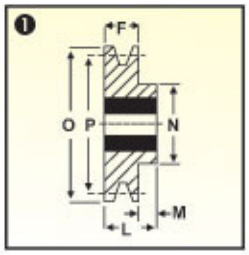
# Taper-Lock®
# Dual Duty Pulleys

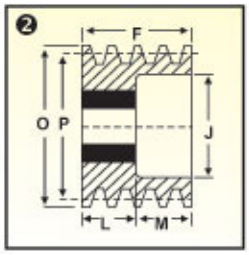

Fenner Taper-Lock® Dual Duty Pulleys are India's first standard range of metric pulleys. They eliminate reboring and keywaying problems since each pulley need not be finished according to different bore and keyway requirements. With Taper-Lock® Bushes, changes in the diameter and position of pulleys are easily made. These metric pulleys are precision machined and have dual duty grooves to perfectly match Fenner "PB" Precision Built V-Belts as well as Fenner SpacesaVer Wedge Belts.

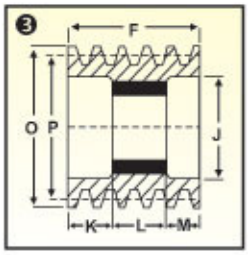
All Fenner pulleys are manufactured from superior quality cast iron in over 400 standard sizes. Also additional sizes against special requirements and special material grade can be provided. Fenner metric pulleys conform to IS and ISO groove specifications and standard sizes can transmit upto 250 kW of power at 1440 rpm with speed ratios upto 1 : 7. The products are made available with excellent pre and post - sales service through our Branches and Distributors across the country.

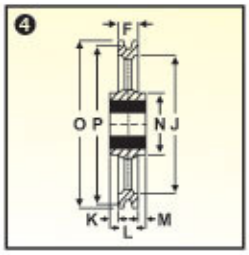
**Fenner** PowerTran

# Taper Lock® Dual Duty Pulleys




## RECOMMENDED MINIMUM PULLEY PITCH DIAMETERS

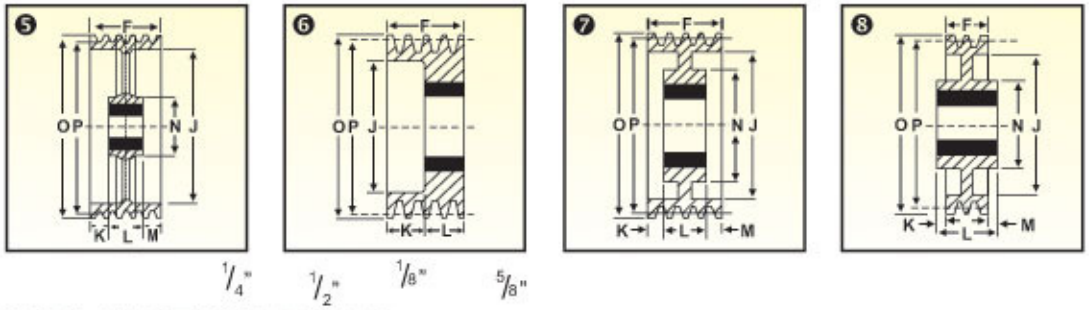
| V / WEDGE BELT SECTION | A | B | C | SPZ | SPA | SPB | SPC |
|---|---|---|---|---|---|---|---|
| | 80 | 125 | 200 | 56 | 90 | 160 | 224 |
| | | 1/4" 1/2" | 1/8" | 5/8" | | | |

## FOR USE WITH 'SPZ' SECTION BELTS

| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 001Z0067 | | 1 | 1108 | 28 | 1 1/8" | 1 | 16 | - | - | 22 | 6 | 60 | |
| 2Z0067 | 67 | 2 | 1108 | 28 | 1 1/8" | 6 | 28 | 38 | 6 .0 | 22 | - | - | 72.5 |
| 3Z0067 | | 3 | 1108 | 28 | 1 1/8" | 6 | 40 | 38 | 18.0 | 22 | - | - | |
| 001Z0071 | | 1 | 1108 | 28 | 1 1/8" | 1 | 16 | - | - | 22 | 6.0 | 60 | |
| 2Z0071 | 71 | 2 | 1108 | 28 | 1 1/8" | 6 | 28 | 42 | 6.0 | 22 | - | - | 76.5 |
| 3Z0071 | | 3 | 1108 | 28 | 1 1/8" | 6 | 40 | 42 | 18.0 | 22 | - | - | |
| 001Z0075 | | 1 | 1108 | 28 | 1 1/8" | 1 | 16 | - | - | 22 | 6.0 | 60 | |
| 2Z0075 | 75 | 2 | 1210 | 32 | 1 1/4" | 6 | 28 | 46 | 3.0 | 25 | - | - | 80.5 |
| 3Z0075 | | 3 | 1210 | 32 | 1 1/4" | 6 | 40 | 46 | 15.0 | 25 | - | - | |
| 001Z0080 | | 1 | 1210 | 32 | 1 1/4" | 1 | 16 | - | - | 25 | 9.0 | 75 | |
| 2Z0080 | 80 | 2 | 1210 | 32 | 1 1/4" | 6 | 28 | 51 | 3.0 | 25 | - | - | |
| 3Z0080 | | 3 | 1210 | 32 | 1 1/4" | 6 | 40 | 51 | 15.0 | 25 | - | - | 85.5 |
| 4Z0080 | | 4 | 1210 | 32 | 1 1/4" | 6 | 52 | 51 | 27.0 | 25 | - | - | |
| 001Z0085 | | 1 | 1210 | 32 | 1 1/4" | 1 | 16 | - | - | 25 | 9.0 | 83 | |
| 2Z0085 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 56 | 3.0 | 25 | - | - | |
| 3Z0085 | 85 | 3 | 1610 | 42 | 1 5/8" | 6 | 40 | 56 | 15.0 | 25 | - | - | 90.5 |
| 4Z0085 | | 4 | 1610 | 42 | 1 5/8" | 6 | 52 | 56 | 27.0 | 25 | - | - | |
| 5Z0085 | | 5 | 1610 | 42 | 1 5/8" | 6 | 64 | 56 | 39.0 | 25 | - | - | |
| 001Z0090 | | 1 | 1210 | 32 | 1 1/4" | 1 | 16 | - | - | 25 | 9.0 | 83 | |
| 2Z0090 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 61 | 3.0 | 25 | - | - | |
| 3Z0090 | | 3 | 1610 | 42 | 1 5/8" | 6 | 40 | 61 | 15.0 | 25 | - | - | |
| 4Z0090 | 90 | 4 | 1610 | 42 | 1 5/8" | 6 | 52 | 61 | 27.0 | 25 | - | - | 95.5 |
| 5Z0090 | | 5 | 1610 | 42 | 1 5/8" | 6 | 64 | 61 | 39.0 | 25 | - | - | |
| 6Z0090 | | 6 | 1610 | 42 | 1 5/8" | 6 | 76 | 61 | 51.0 | 25 | - | - | |
| 001Z0095 | | 1 | 1210 | 32 | 1 1/4" | 1 | 16 | - | - | 25 | 9.0 | 83 | |
| 2Z0095 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 66 | 3.0 | 25 | - | - | |
| 3Z0095 | | 3 | 1610 | 42 | 1 5/8" | 6 | 40 | 66 | 15.0 | 25 | - | - | |
| 4Z0095 | 95 | 4 | 1610 | 42 | 1 5/8" | 6 | 52 | 66 | 27.0 | 25 | - | - | 100.5 |
| 5Z0095 | | 5 | 1610 | 42 | 1 5/8" | 6 | 64 | 66 | 39.0 | 25 | - | - | |
| 6Z0095 | | 6 | 1610 | 42 | 1 5/8" | 6 | 76 | 66 | 51.0 | 25 | - | - | |

DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



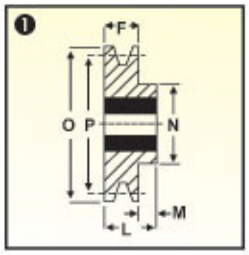

1/4" 1/2" 1/8" 5/8"

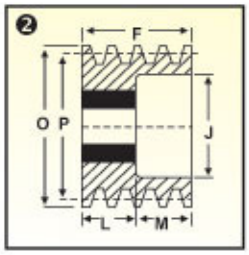
## FOR USE WITH 'SPZ' SECTION BELTS

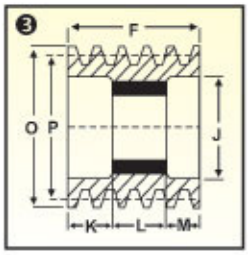
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 001Z0100 | | 1 | 1210 | 32 | 1 1/4" | 1 | 16 | - | - | 25 | 9 | 83 | |
| 2Z0100 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 71 | 3.0 | 25 | - | - | |
| 3Z0100 | | 3 | 1610 | 42 | 1 5/8" | 6 | 40 | 71 | 15.0 | 25 | - | - | |
| 4Z0100 | 100 | 4 | 2012 | 50 | 2" | 6 | 52 | 71 | 20.0 | 32 | - | - | 105.5 |
| 5Z0100 | | 5 | 2012 | 50 | 2" | 6 | 64 | 71 | 32.0 | 32 | - | - | |
| 6Z0100 | | 6 | 2012 | 50 | 2" | 6 | 76 | 71 | 44.0 | 32 | - | - | |
| 001Z0112 | | 1 | 1610 | 42 | 1 5/8" | 1 | 16 | - | - | 25 | 9.0 | 92 | |
| 2Z0112 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 83 | 3.0 | 25 | - | - | |
| 3Z0112 | | 3 | 2012 | 50 | 2" | 6 | 40 | 83 | 8.0 | 32 | - | - | 117.5 |
| 4Z0112 | 112 | 4 | 2012 | 50 | 2" | 6 | 52 | 83 | 20.0 | 32 | - | - | |
| 5Z0112 | | 5 | 2012 | 50 | 2" | 6 | 64 | 83 | 32.0 | 32 | - | - | |
| 6Z0112 | | 6 | 2012 | 50 | 2" | 6 | 76 | 83 | 44.0 | 32 | - | - | |
| 001Z0125 | | 1 | 1610 | 42 | 1 5/8" | 1 | 16 | - | - | 25 | 9.0 | 92 | |
| 2Z0125 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 96 | 3.0 | 25 | - | - | |
| 3Z0125 | | 3 | 2012 | 50 | 2" | 6 | 40 | 96 | 8.0 | 32 | - | - | 130.5 |
| 4Z0125 | 125 | 4 | 2012 | 50 | 2" | 6 | 52 | 96 | 20.0 | 32 | - | - | |
| 5Z0125 | | 5 | 2517 | 60 | 2 1/2" | 6 | 64 | 96 | 19.0 | 45 | - | - | |
| 6Z0125 | | 6 | 2517 | 60 | 2 1/2" | 6 | 76 | 96 | 31.0 | 45 | - | - | |
| 001Z0140 | | 1 | 1610 | 42 | 1 5/8" | 1 | 16 | - | - | 25 | 9.0 | 92 | |
| 2Z0140 | | 2 | 1610 | 42 | 1 5/8" | 6 | 28 | 111 | 3 | 25 | - | - | |
| 3Z0140 | 140 | 3 | 2012 | 50 | 2" | 2 | 40 | 111 | - | 32 | 8.0 | - | 145.5 |
| 4Z0140 | | 4 | 2012 | 50 | 2" | 2 | 52 | 111 | - | 32 | 20.0 | - | |
| 5Z0140 | | 5 | 2517 | 60 | 2 1/2" | 2 | 64 | 111 | - | 45 | 19.0 | - | |
| 6Z0140 | | 6 | 2517 | 60 | 2 1/2" | 2 | 76 | 111 | - | 45 | 31.0 | - | |
| 001Z0160 | | 1 | 1610 | 42 | 1 5/8" | 1 | 16 | - | - | 25 | 9.0 | 92 | |
| 2Z0160 | | 2 | 2012 | 50 | 2" | 1 | 28 | - | - | 32 | 4.0 | 112 | |
| 3Z0160 | 160 | 3 | 2012 | 50 | 2" | 2 | 40 | 131 | - | 32 | 8.0 | - | 165.5 |
| 4Z0160 | | 4 | 2517 | 60 | 2 1/2" | 2 | 52 | 131 | - | 45 | 7.0 | - | |
| 5Z0160 | | 5 | 2517 | 60 | 2 1/2" | 2 | 64 | 131 | - | 45 | 19.0 | - | |
| 6Z0160 | | 6 | 2517 | 60 | 2 1/2" | 2 | 76 | 131 | - | 45 | 31.0 | - | |
| 001Z0180 | | 1 | 1610 | 42 | 1 5/8" | 1 | 16 | - | - | 25 | 9.0 | 92 | |
| 2Z0180 | | 2 | 2012 | 50 | 2" | 1 | 28 | - | - | 32 | 4.0 | 112 | |
| 3Z0180 | 180 | 3 | 2012 | 50 | 2" | 2 | 40 | 151 | - | 32 | 8.0 | - | 185.5 |
| 4Z0180 | | 4 | 2517 | 60 | 2 1/2" | 2 | 52 | 151 | - | 45 | 7.0 | - | |
| 5Z0180 | | 5 | 2517 | 60 | 2 1/2" | 2 | 64 | 151 | - | 45 | 19.0 | - | |
| 6Z0180 | | 6 | 2517 | 60 | 2 1/4 | 2 | 76 | 151 | - | 45 | 31.0 | - | |

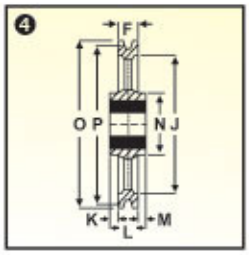
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



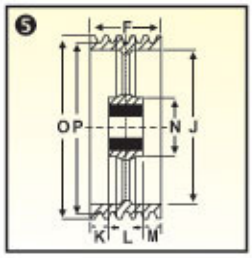



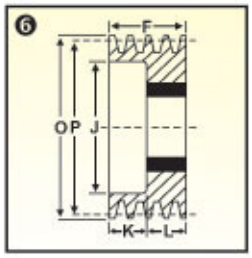

## FOR USE WITH 'SPZ' SECTION BELTS

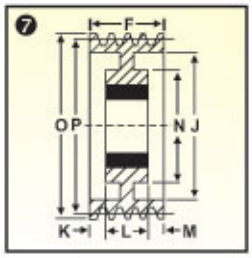
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 001Z0200 | | 1 | 2012 | 50 | 2" | 1 | 16 | - | - | 32.0 | 16.0 | 112 | |
| 2Z0200 | | 2 | 2012 | 50 | 2" | 1 | 28 | 171 | - | 32.0 | 4.0 | 124 | |
| 3Z0200 | 200 | 3 | 2012 | 50 | 2" | 2 | 40 | 171 | - | 32.0 | 8.0 | 124 | 205.5 |
| 4Z0200 | | 4 | 2517 | 60 | 2 ½" | 3 | 52 | 171 | 3.5 | 45.0 | 3.5 | - | |
| 5Z0200 | | 5 | 2517 | 60 | 2 ½" | 7 | 64 | 171 | 9.5 | 45.0 | 9.5 | 124 | |
| 6Z0200 | | 6 | 2517 | 60 | 2 ½" | 7 | 76 | 171 | 15.5 | 45.0 | 15.5 | 124 | |
| 001Z0250 | | 1 | 2012 | 50 | 2" | 4 | 16 | 221 | 8.0 | 32.0 | 8.0 | 112 | |
| 2Z0250 | | 2 | 2012 | 50 | 2" | 4 | 28 | 221 | 2.0 | 32.0 | 2.0 | 112 | |
| 3Z0250 | 250 | 3 | 2012 | 50 | 2" | 5 | 40 | 221 | 4.0 | 32.0 | 4.0 | 112 | 255.5 |
| 4Z0250 | | 4 | 2517 | 60 | 2 ½" | 7 | 52 | 221 | 3.5 | 45.0 | 3.5 | 124 | |
| 5Z0250 | | 5 | 2517 | 60 | 2 ½" | 5 | 64 | 221 | 9.5 | 45.0 | 9.5 | 124 | |
| 6Z0250 | | 6 | 2517 | 60 | 2 ½" | 5 | 76 | 221 | 15.5 | 45.0 | 15.5 | 124 | |
| 001Z0315 | | 1 | 2012 | 50 | 2" | 4 | 16 | 286 | 8.0 | 32.0 | 8.0 | 112 | |
| 2Z0315 | | 2 | 2012 | 50 | 2" | 4 | 28 | 286 | 2.0 | 32.0 | 2.0 | 112 | |
| 3Z0315 | 315 | 3 | 2517 | 60 | 2 ½" | 8 | 40 | 286 | 2.5 | 45.0 | 2.5 | 124 | 320.5 |
| 4Z0315 | | 4 | 2517 | 60 | 2 ½" | 5 | 52 | 286 | 3.5 | 45.0 | 3.5 | 124 | |
| 5Z0315 | | 5 | 2517 | 60 | 2 ½" | 5 | 64 | 286 | 9.5 | 45.0 | 9.5 | 124 | |
| 6Z0315 | | 6 | 2517 | 60 | 2 ½" | 5 | 76 | 286 | 15.5 | 45.0 | 15.5 | 124 | |
| 001Z0400 | | 1 | 2012 | 50 | 2" | 4 | 16 | 371 | 8.0 | 32.0 | 8.0 | 112 | |
| 2Z0400 | | 2 | 2517 | 60 | 2 ½" | 4 | 28 | 371 | 8.5 | 45.0 | 8.5 | 124 | |
| 3Z0400 | 400 | 3 | 2517 | 60 | 2 ½" | 4 | 40 | 371 | 2.5 | 45.0 | 2.5 | 124 | 405.5 |
| 4Z0400 | | 4 | 2517 | 60 | 2 ½" | 5 | 52 | 371 | 3.5 | 45.0 | 3.5 | 124 | |
| 5Z0400 | | 5 | 3020 | 75 | 3" | 5 | 64 | 371 | 6.5 | 51.0 | 6.5 | 159 | |
| 6Z0400 | | 6 | 3030 | 75 | 3" | 4 | 76 | 371 | - | 76.0 | - | 159 | |
| 002Z0500 | | 2 | 2517 | 60 | 2 ½" | 4 | 28 | 471 | 8.5 | 45.0 | 8.5 | 124 | |
| 3Z0500 | | 3 | 2517 | 60 | 2 ½" | 4 | 40 | 471 | 2.5 | 45.0 | 2.5 | 124 | |
| 4Z0500 | 500 | 4 | 3020 | 75 | 3" | 5 | 52 | 471 | 0.5 | 51.0 | 0.5 | 159 | 505.5 |
| 5Z0500 | | 5 | 3020 | 75 | 3" | 5 | 64 | 471 | 6.5 | 51.0 | 6.5 | 159 | |
| 6Z0500 | | 6 | 3030 | 75 | 3" | 4 | 76 | 471 | - | 76.0 | - | 159 | |
| 003Z0630 | | 3 | 2517 | 60 | 2 ½" | 4 | 40 | 601 | 2.5 | 45.0 | 2.5 | 124 | |
| 4Z0630 | 630 | 4 | 3020 | 75 | 3" | 5 | 52 | 601 | 0.5 | 51.0 | 0.5 | 159 | 635.5 |
| 5Z0630 | | 5 | 3030 | 75 | 3" | 4 | 64 | 601 | 6.0 | 76.0 | 6.0 | 159 | |
| 6Z0630 | | 6 | 3535 | 90 | 3 ½" | 4 | 76 | 601 | 6.5 | 89.0 | 6.5 | 178 | |
| 003Z0800 | | 3 | 3030 | 75 | 3" | 4 | 40 | 771 | 18.0 | 76.0 | 18.0 | 159 | |
| 4Z0800 | 800 | 4 | 3030 | 75 | 3" | 4 | 52 | 771 | 12.0 | 76.0 | 12.0 | 159 | 805.5 |
| 5Z0800 | | 5 | 3535 | 90 | 3 ½" | 4 | 64 | 771 | 12.5 | 89.0 | 12.5 | 178 | |
| 6Z0800 | | 6 | 3535 | 90 | 3 ½" | 4 | 76 | 771 | 6.5 | 89.0 | 6.5 | 178 | |

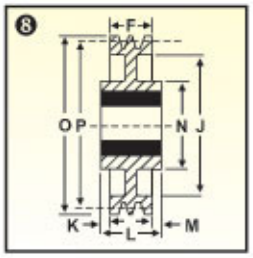
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



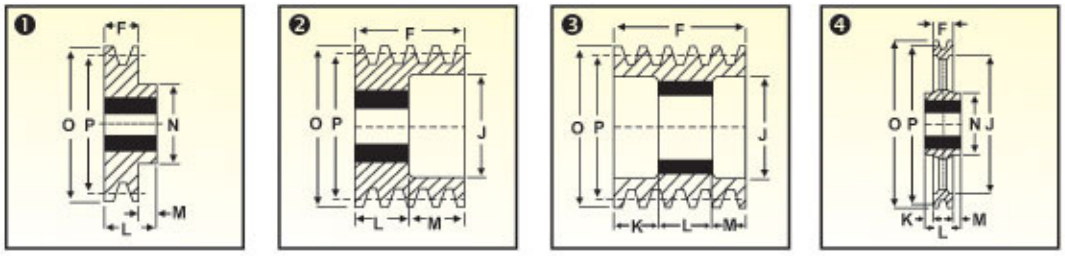




## FOR USE WITH 'A' & 'SPA' SECTION BELTS

| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| **FOR USE WITH 'A' SECTION BELTS** | | | | | | | | | | | | | |
| 002A0080 | | 2 | 1108 | 28 | 1 ⅛" | 6 | 35 | 50 | 13 | 22 | - | - | |
| 3A0080 | 80 | 3 | 1210 | 32 | 1 ¼" | 6 | 50 | 50 | 25 | 25 | - | - | 85.5 |
| 4A0080 | | 4 | 1215 | 32 | 1 ¼" | 6 | 65 | 50 | 27 | 38 | - | - | |
| 5A0080 | | 5 | 1215 | 32 | 1 ¼" | 6 | 80 | 50 | 42 | 38 | - | - | |
| 002A0085 | | 2 | 1108 | 28 | 1 ⅛" | 6 | 35 | 55 | 13 | 22 | - | - | |
| 3A0085 | 85 | 3 | 1210 | 32 | 1 ¼" | 6 | 50 | 55 | 25 | 25 | - | - | 90.5 |
| 4A0085 | | 4 | 1215 | 32 | 1 ¼" | 6 | 65 | 55 | 27 | 38 | - | - | |
| 5A0085 | | 5 | 1215 | 32 | 1 ¼" | 6 | 80 | 55 | 42 | 38 | - | - | |
| 002A0090 | | 2 | 1108 | 28 | 1 ⅛" | 6 | 35 | 60 | 13.0 | 22 | - | - | |
| 3A0090 | 90 | 3 | 1610 | 42 | 1 ⅝" | 6 | 50 | 60 | 25.0 | 25 | - | - | 95.5 |
| 4A0090 | | 4 | 1615 | 42 | 1 ⅝" | 3 | 65 | 60 | 13.5 | 38 | 13.5 | - | |
| 5A0090 | | 5 | 1615 | 42 | 1 ⅝" | 3 | 80 | 60 | 21.0 | 38 | 21.0 | - | |
| **FOR USE WITH 'A' / 'SPA' SECTION BELTS** | | | | | | | | | | | | | |
| 002A0095 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 35 | 65 | 10.0 | 25 | - | - | |
| 3A0095 | 95 | 3 | 1610 | 42 | 1 ⅝" | 6 | 50 | 65 | 25.0 | 25 | - | - | 100.5 |
| 4A0095 | | 4 | 1615 | 42 | 1 ⅝" | 3 | 65 | 65 | 13.5 | 38 | 13.5 | - | |
| 5A0095 | | 5 | 1615 | 42 | 1 ⅝" | 3 | 80 | 65 | 21.0 | 38 | 21.0 | - | |
| 002A0100 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 35 | 65 | 10.0 | 25 | - | - | |
| 3A0100 | 100 | 3 | 1610 | 42 | 1 ⅝" | 6 | 50 | 65 | 25.0 | 25 | - | - | 105.5 |
| 4A0100 | | 4 | 1615 | 42 | 1 ⅝" | 6 | 65 | 65 | 27.0 | 38 | - | - | |
| 5A0100 | | 5 | 1615 | 42 | 1 ⅝" | 6 | 80 | 65 | 42.0 | 38 | - | - | |
| 002A0106 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 35 | 71 | 10.0 | 25 | - | - | |
| 3A0106 | 106 | 3 | 1610 | 42 | 1 ⅝" | 6 | 50 | 71 | 25.0 | 25 | - | - | 111.5 |
| 4A0106 | | 4 | 1615 | 42 | 1 ⅝" | 6 | 65 | 71 | 27.0 | 38 | - | - | |
| 5A0106 | | 5 | 2012 | 50 | 2" | 6 | 80 | 71 | 48.0 | 32 | - | - | |
| 002A0112 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 35 | 77 | 10.0 | 25 | - | - | |
| 3A0112 | 112 | 3 | 2012 | 50 | 2" | 6 | 50 | 77 | 18.0 | 32 | - | - | 117.5 |
| 4A0112 | | 4 | 2012 | 50 | 2" | 6 | 65 | 77 | 33.0 | 32 | - | - | |
| 5A0112 | | 5 | 2012 | 50 | 2" | 6 | 80 | 77 | 48.0 | 32 | - | - | |
| 002A0118 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 35 | 84 | 10.0 | 25 | - | - | |
| 3A0118 | 118 | 3 | 2012 | 50 | 2" | 6 | 50 | 84 | 18.0 | 32 | - | - | 123.5 |
| 4A0118 | | 4 | 2012 | 50 | 2" | 6 | 65 | 84 | 33.0 | 32 | - | - | |
| 5A0118 | | 5 | 2012 | 50 | 2" | 6 | 80 | 84 | 48.0 | 32 | - | - | |
| 002A0125 | | 2 | 1610 | 42 | 1 ⅝" | 2 | 35 | 90 | - | 25 | 10.0 | - | |
| 3A0125 | 125 | 3 | 2012 | 50 | 2" | 2 | 50 | 90 | - | 32 | 18.0 | - | 130.5 |
| 4A0125 | | 4 | 2012 | 50 | 2" | 2 | 65 | 90 | - | 32 | 33.0 | - | |
| 5A0125 | | 5 | 2012 | 50 | 2" | 2 | 80 | 90 | - | 32 | 48.0 | - | |

DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys

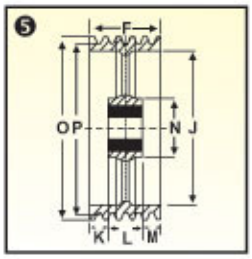


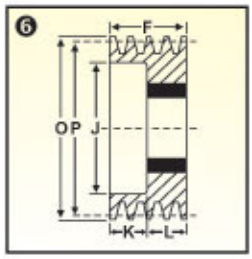

## FOR USE WITH 'A' / 'SPA' SECTION BELTS

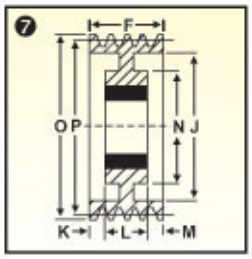
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 002A0132 | | 2 | 1610 | 42 | 1 ⅝" | 2 | 35 | 98 | - | 25 | 10.0 | - | |
| 3A0132 | 132 | 3 | 2012 | 50 | 2" | 2 | 50 | 98 | - | 32 | 18.0 | - | 137.5 |
| 4A0132 | | 4 | 2517 | 60 | 2 ½" | 2 | 65 | 98 | - | 45 | 20.0 | - | |
| 5A0132 | | 5 | 2517 | 60 | 2 ½" | 2 | 80 | 98 | - | 45 | 35.0 | - | |
| 002A0140 | | 2 | 2012 | 50 | 2" | 6 | 35 | 105 | 3 | 32 | - | - | |
| 3A0140 | | 3 | 2517 | 60 | 2 ½" | 2 | 50 | 105 | - | 45 | 5.0 | - | |
| 4A0140 | 140 | 4 | 2517 | 60 | 2 ½" | 2 | 65 | 105 | - | 45 | 20.0 | - | 145.5 |
| 5A0140 | | 5 | 2517 | 60 | 2 ½" | 2 | 80 | 105 | - | 45 | 35.0 | - | |
| 002A0150 | | 2 | 2012 | 50 | 2" | 6 | 35 | 115 | 3.0 | 32 | - | - | |
| 3A0150 | 150 | 3 | 2517 | 60 | 2 ½" | 2 | 50 | 115 | - | 45 | 5.0 | - | 155.5 |
| 4A0150 | | 4 | 2517 | 60 | 2 ½" | 2 | 65 | 115 | - | 45 | 20.0 | - | |
| 5A0150 | | 5 | 2517 | 60 | 2 ½" | 2 | 80 | 115 | - | 45 | 35.0 | - | |
| 002A0160 | | 2 | 2012 | 50 | 2" | 6 | 35 | 125 | 3.0 | 32 | - | - | |
| 3A0160 | 160 | 3 | 2517 | 60 | 2 ½" | 2 | 50 | 125 | - | 45 | 5.0 | - | 165.5 |
| 4A0160 | | 4 | 2517 | 60 | 2 ½" | 2 | 65 | 125 | - | 45 | 20.0 | - | |
| 5A0160 | | 5 | 2517 | 60 | 2 ½" | 2 | 80 | 125 | - | 45 | 35.0 | - | |
| 002A0180 | | 2 | 2012 | 50 | 2" | 2 | 35 | 145 | - | 32 | 3.0 | - | |
| 3A0180 | 180 | 3 | 2517 | 60 | 2 ½" | 2 | 50 | 145 | - | 45 | 5.0 | - | 185.5 |
| 4A0180 | | 4 | 2517 | 60 | 2 ½" | 2 | 65 | 145 | - | 45 | 20.0 | - | |
| 5A0180 | | 5 | 3020 | 75 | 3" | 2 | 80 | 145 | - | 51 | 29.0 | - | |
| 002A0200 | | 2 | 2517 | 60 | 2 ½" | 8 | 35 | 165 | - | 45 | 10.0 | 124 | |
| 3A0200 | 200 | 3 | 2517 | 60 | 2 ½" | 3 | 50 | 165 | 2.5 | 45 | 2.5 | - | 205.5 |
| 4A0200 | | 4 | 3020 | 75 | 3" | 2 | 65 | 165 | - | 51 | 14.0 | - | |
| 5A0200 | | 5 | 3020 | 75 | 3" | 2 | 80 | 165 | - | 51 | 29.0 | - | |
| 002A0250 | | 2 | 2517 | 60 | 2 ½" | 8 | 35 | 215 | - | 45 | 10.0 | 124 | |
| 3A0250 | 250 | 3 | 2517 | 60 | 2 ½" | 7 | 50 | 215 | 2.5 | 45 | 2.5 | 124 | 255.5 |
| 4A0250 | | 4 | 3020 | 75 | 3" | 7 | 65 | 215 | 7.0 | 51 | 7.0 | 159 | |
| 5A0250 | | 5 | 3020 | 75 | 3" | 7 | 80 | 215 | 14.5 | 51 | 14.5 | 159 | |
| 002A0315 | | 2 | 2517 | 60 | 2 ½" | 4 | 35 | 280 | - | 45 | 10.0 | 124 | |
| 3A0315 | 315 | 3 | 3020 | 75 | 3" | 8 | 50 | 280 | 0.5 | 51 | 0.5 | 159 | 320.5 |
| 4A0315 | | 4 | 3020 | 75 | 3" | 7 | 65 | 280 | 7.0 | 51 | 7.0 | 159 | |
| 5A0315 | | 5 | 3535 | 90 | 3 ½" | 8 | 80 | 280 | 4.5 | 89 | 4.5 | 178 | |
| 002A0400 | | 2 | 2517 | 60 | 2 ½" | 4 | 35 | 365 | - | 45 | 10.0 | 124 | |
| 3A0400 | 400 | 3 | 3020 | 75 | 3" | 4 | 50 | 365 | 0.5 | 51 | 0.5 | 159 | 405.5 |
| 4A0400 | | 4 | 3020 | 75 | 3" | 5 | 65 | 365 | 7.0 | 51 | 7.0 | 159 | |
| 5A0400 | | 5 | 3535 | 90 | 3 ½" | 4 | 80 | 365 | 4.5 | 89 | 4.5 | 178 | |
| 002A0500 | | 2 | 2517 | 60 | 2 ½" | 4 | 35 | 465 | - | 45 | 10.0 | 124 | |
| 3A0500 | 500 | 3 | 3020 | 75 | 3" | 4 | 50 | 465 | 0.5 | 51 | 0.5 | 159 | 505.5 |
| 4A0500 | | 4 | 3020 | 75 | 3" | 5 | 65 | 465 | 7.0 | 51 | 7.0 | 159 | |
| 5A0500 | | 5 | 3535 | 90 | 3 ½" | 4 | 80 | 465 | 4.5 | 89 | 4.5 | 178 | |
| 002A0630 | | 2 | 3020 | 75 | 3" | 4 | 35 | 595 | - | 51 | 16.0 | 159 | |
| 3A0630 | 630 | 3 | 3020 | 75 | 3" | 4 | 50 | 595 | 0.5 | 51 | 0.5 | 159 | 635.5 |
| 4A0630 | | 4 | 3535 | 90 | 3 ½" | 4 | 65 | 595 | 12.0 | 89 | 12.0 | 178 | |
| 5A0630 | | 5 | 3535 | 90 | 3 ½" | 4 | 80 | 595 | 4.5 | 89 | 4.5 | 178 | |

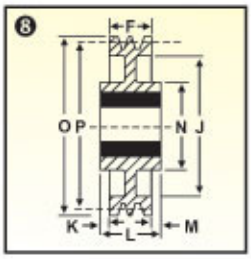
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



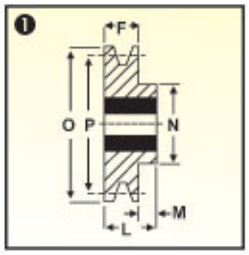



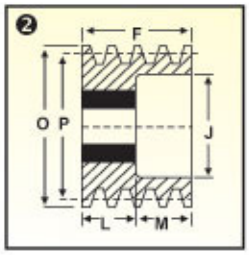

## FOR USE WITH 'B' & 'SPB' SECTION BELTS

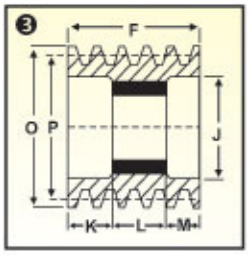
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| **FOR USE WITH 'B' SECTION BELTS** | | | | | | | | | | | | | |
| 002B0125 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 44 | 85 | 19.0 | 25 | - | - | |
| 3B0125 | | 3 | 1610 | 42 | 1 ⅝" | 6 | 63 | 85 | 38.0 | 25 | - | - | |
| 4B0125 | 125 | 4 | 2012 | 50 | 2" | 3 | 82 | 89 | 25.0 | 32 | 25.0 | - | 132 |
| 5B0125 | | 5 | 2012 | 50 | 2" | 3 | 101 | 89 | 34.5 | 32 | 34.5 | - | |
| 6B0125 | | 6 | 2012 | 50 | 2" | 3 | 120 | 89 | 44.0 | 32 | 44.0 | - | |
| 002B0132 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 44 | 92 | 19.0 | 25 | - | - | |
| 3B0132 | | 3 | 1610 | 42 | 1 ⅝" | 6 | 63 | 92 | 38.0 | 25 | - | - | |
| 4B0132 | 132 | 4 | 2012 | 50 | 2" | 3 | 82 | 92 | 25.0 | 32 | 25.0 | - | 139 |
| 5B0132 | | 5 | 2012 | 50 | 2" | 2 | 101 | 92 | - | 32 | 69.0 | - | |
| 6B0132 | | 6 | 2012 | 50 | 2" | 3 | 120 | 92 | 44.0 | 32 | 44.0 | - | |
| 002B0140 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 44 | 100 | 19.0 | 25 | - | - | |
| 3B0140 | | 3 | 1610 | 42 | 1 ⅝" | 6 | 63 | 100 | 38.0 | 25 | - | - | |
| 4B0140 | 140 | 4 | 2012 | 50 | 2" | 3 | 82 | 100 | 25.0 | 32 | 25.0 | - | 147 |
| 5B0140 | | 5 | 2012 | 50 | 2" | 2 | 101 | 100 | - | 32 | 69.0 | - | |
| 6B0140 | | 6 | 2517 | 60 | 2 ½" | 3 | 120 | 109 | 37.5 | 45 | 37.5 | - | |
| 002B0150 | | 2 | 1610 | 42 | 1 ⅝" | 6 | 44 | 110 | 19.0 | 25 | - | - | |
| 3B0150 | | 3 | 2012 | 50 | 2" | 6 | 63 | 110 | 31.0 | 32 | - | - | |
| 4B0150 | 150 | 4 | 2012 | 50 | 2" | 3 | 82 | 110 | 25.0 | 32 | 25.0 | - | 157 |
| 5B0150 | | 5 | 2517 | 60 | 2 ½" | 2 | 101 | 110 | - | 45 | 56.0 | - | |
| 6B0150 | | 6 | 2517 | 60 | 2 ½" | 2 | 120 | 110 | - | 45 | 75.0 | - | |
| **FOR USE WITH 'B' / 'SPB' SECTION BELTS** | | | | | | | | | | | | | |
| 002B0160 | | 2 | 2012 | 50 | 2" | 6 | 44 | 114 | 12.0 | 32 | - | - | |
| 3B0160 | | 3 | 2517 | 60 | 2 ½" | 6 | 63 | 114 | 18.0 | 45 | - | - | |
| 4B0160 | 160 | 4 | 2517 | 60 | 2 ½" | 3 | 82 | 114 | 18.5 | 45 | 18.5 | - | 167 |
| 5B0160 | | 5 | 2517 | 60 | 2 ½" | 3 | 101 | 114 | 28.0 | 45 | 28.0 | - | |
| 6B0160 | | 6 | 2517 | 60 | 2 ½" | 2 | 120 | 114 | - | 45 | 75.0 | - | |
| 002B0170 | | 2 | 2012 | 50 | 2" | 6 | 44 | 124 | 12.0 | 32 | - | - | |
| 3B0170 | | 3 | 2517 | 60 | 2 ½" | 6 | 63 | 124 | 18.0 | 45 | - | - | |
| 4B0170 | 170 | 4 | 2517 | 60 | 2 ½" | 3 | 82 | 124 | 18.5 | 45 | 18.5 | - | 177 |
| 5B0170 | | 5 | 3020 | 75 | 3" | 3 | 101 | 128 | 25.0 | 51 | 25.0 | - | |
| 6B0170 | | 6 | 3020 | 75 | 3" | 2 | 120 | 128 | - | 51 | 69.0 | - | |
| 002B0180 | | 2 | 2012 | 50 | 2" | 6 | 44 | 134 | 12.0 | 32 | - | - | |
| 3B0180 | | 3 | 2517 | 60 | 2 ½" | 6 | 63 | 134 | 18.0 | 45 | - | - | |
| 4B0180 | 180 | 4 | 2517 | 60 | 2 ½" | 3 | 82 | 134 | 18.5 | 45 | 18.5 | - | 187 |
| 5B0180 | | 5 | 3020 | 75 | 3" | 3 | 101 | 134 | 25.0 | 51 | 25.0 | - | |
| 6B0180 | | 6 | 3020 | 75 | 3" | 2 | 120 | 134 | - | 51 | 69.0 | - | |

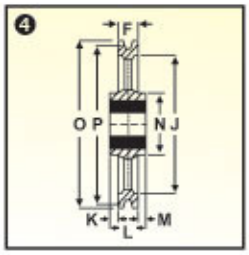
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



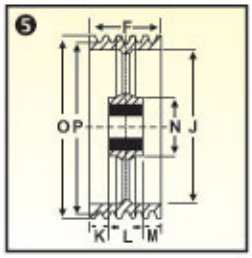



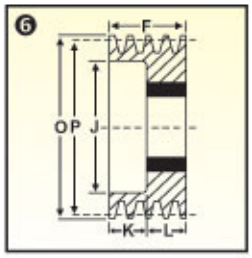

## FOR USE WITH 'B' / 'SPB' SECTION BELTS

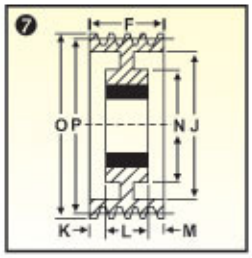
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 002B0190 | | 2 | 2517 | 60 | 2 ½" | 1 | 44 | - | - | 44 | - | - | |
| 3B0190 | | 3 | 2517 | 60 | 2 ½" | 6 | 63 | 144 | 18.0 | 45 | - | - | |
| 4B0190 | 190 | 4 | 2517 | 60 | 2 ½" | 3 | 82 | 144 | 18.5 | 45 | 18.5 | - | 197 |
| 5B0190 | | 5 | 3020 | 75 | 3" | 3 | 101 | 144 | 25.0 | 51 | 25.0 | - | |
| 6B0190 | | 6 | 3020 | 75 | 3" | 2 | 120 | 144 | - | 51 | 69.0 | - | |
| 002B0200 | | 2 | 2517 | 60 | 2 ½" | 1 | 44 | - | - | 44 | - | - | |
| 3B0200 | | 3 | 2517 | 60 | 2 ½" | 2 | 63 | 154 | - | 45 | 18.0 | - | |
| 4B0200 | 200 | 4 | 3020 | 75 | 3" | 2 | 82 | 154 | - | 51 | 31.0 | - | 207 |
| 5B0200 | | 5 | 3020 | 75 | 3" | 2 | 101 | 154 | - | 51 | 50.0 | - | |
| 6B0200 | | 6 | 3020 | 75 | 3" | 2 | 120 | 154 | - | 51 | 69.0 | - | |
| 002B0212 | | 2 | 2517 | 60 | 2 ½" | 1 | 44 | - | - | 44 | - | - | |
| 3B0212 | | 3 | 2517 | 60 | 2 ½" | 2 | 63 | 166 | - | 45 | 18.0 | - | |
| 4B0212 | 212 | 4 | 3020 | 75 | 3" | 2 | 82 | 166 | - | 51 | 31.0 | - | 219 |
| 5B0212 | | 5 | 3020 | 75 | 3" | 2 | 101 | 166 | - | 51 | 50.0 | - | |
| 6B0212 | | 6 | 3020 | 75 | 3" | 2 | 120 | 166 | - | 51 | 69.0 | - | |
| 002B0224 | | 2 | 2517 | 60 | 2 ½" | 1 | 44 | - | - | 44 | - | - | |
| 3B0224 | | 3 | 2517 | 60 | 2 ½" | 2 | 63 | 178 | - | 45 | 18.0 | - | |
| 4B0224 | 224 | 4 | 3020 | 75 | 3" | 2 | 82 | 178 | - | 51 | 31.0 | - | 231 |
| 5B0224 | | 5 | 3020 | 75 | 3" | 2 | 101 | 178 | - | 51 | 50.0 | - | |
| 6B0224 | | 6 | 3020 | 75 | 3" | 2 | 120 | 178 | - | 51 | 69.0 | - | |
| 002B0236 | | 2 | 2517 | 60 | 2 ½" | 1 | 44 | - | - | 44 | - | - | |
| 3B0236 | | 3 | 2517 | 60 | 2 ½" | 2 | 63 | 190 | - | 45 | 18.0 | - | |
| 4B0236 | 236 | 4 | 3020 | 75 | 3" | 2 | 82 | 190 | - | 51 | 31.0 | - | 243 |
| 5B0236 | | 5 | 3020 | 75 | 3" | 2 | 101 | 190 | - | 51 | 50.0 | - | |
| 6B0236 | | 6 | 3020 | 75 | 3" | 2 | 120 | 190 | - | 51 | 69.0 | - | |
| 002B0250 | | 2 | 2517 | 60 | 2 ½" | 8 | 44 | - | - | 44 | - | - | |
| 3B0250 | | 3 | 3020 | 75 | 3" | 2 | 63 | 204 | - | 51 | 12.0 | - | |
| 4B0250 | 250 | 4 | 3020 | 75 | 3" | 2 | 82 | 204 | - | 51 | 31.0 | - | 257 |
| 5B0250 | | 5 | 3020 | 75 | 3" | 2 | 101 | 204 | - | 51 | 50.0 | - | |
| 6B0250 | | 6 | 3020 | 75 | 3" | 2 | 120 | 204 | - | 51 | 69.0 | - | |
| 002B0280 | | 2 | 2517 | 60 | 2 ½" | 8 | 44 | 234 | 0.5 | 45 | 0.5 | 124 | |
| 3B0280 | | 3 | 3020 | 75 | 3" | 7 | 63 | 234 | 6.0 | 51 | 6.0 | 159 | |
| 4B0280 | 280 | 4 | 3020 | 75 | 3" | 7 | 82 | 234 | 15.5 | 51 | 15.5 | 159 | 287 |
| 5B0280 | | 5 | 3535 | 90 | 3 ½" | 7 | 101 | 234 | 6.0 | 89 | 6.0 | 178 | |
| 6B0280 | | 6 | 3535 | 90 | 3 ½" | 7 | 120 | 234 | 15.5 | 89 | 15.5 | 178 | |

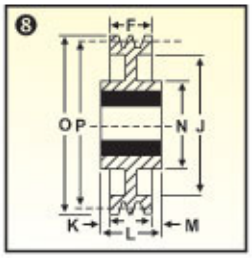
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



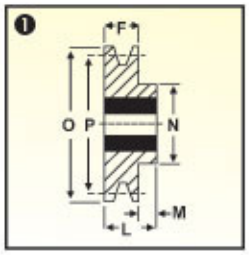



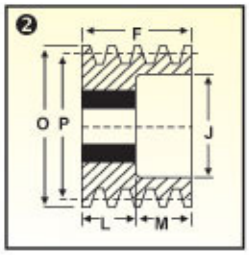

## FOR USE WITH 'B' / 'SPB' SECTION BELTS

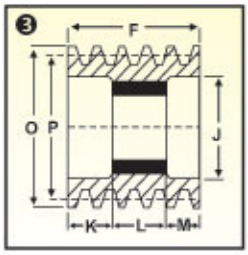
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 002B0315 | | 2 | 2517 | 60 | 2 ½" | 8 | 44 | 269 | 0.5 | 45 | 0.5 | 124 | |
| 3B0315 | | 3 | 3020 | 75 | 3" | 7 | 63 | 269 | 6.0 | 51 | 6.0 | 159 | |
| 4B0315 | 315 | 4 | 3535 | 90 | 3 ½" | 8 | 82 | 269 | 3.5 | 89 | 3.5 | 178 | 322 |
| 5B0315 | | 5 | 3535 | 90 | 3 ½" | 7 | 101 | 269 | 6.0 | 89 | 6.0 | 178 | |
| 6B0315 | | 6 | 3535 | 90 | 3 ½" | 7 | 120 | 269 | 15.5 | 89 | 15.5 | 178 | |
| 002B0355 | | 2 | 3020 | 75 | 3" | 4 | 44 | 309 | 3.5 | 51 | 3.5 | 159 | |
| 3B0355 | | 3 | 3020 | 75 | 3" | 5 | 63 | 309 | 6.0 | 51 | 6.0 | 159 | |
| 4B0355 | 355 | 4 | 3535 | 90 | 3 ½" | 8 | 82 | 309 | 3.5 | 89 | 3.5 | 178 | 362 |
| 5B0355 | | 5 | 3535 | 90 | 3 ½" | 7 | 101 | 309 | 6.0 | 89 | 6.0 | 178 | |
| 6B0355 | | 6 | 3535 | 90 | 3 ½" | 7 | 120 | 309 | 15.5 | 89 | 15.5 | 178 | |
| 002B0400 | | 2 | 3020 | 75 | 3" | 4 | 44 | 354 | 3.5 | 51 | 3.5 | 159 | |
| 3B0400 | | 3 | 3535 | 90 | 3 ½" | 4 | 63 | 354 | 13.0 | 89 | 13.0 | 178 | |
| 4B0400 | 400 | 4 | 3535 | 90 | 3 ½" | 4 | 82 | 354 | 3.5 | 89 | 3.5 | 178 | 407 |
| 5B0400 | | 5 | 3535 | 90 | 3 ½" | 5 | 101 | 354 | 6.0 | 89 | 6.0 | 178 | |
| 6B0400 | | 6 | 3535 | 90 | 3 ½" | 5 | 120 | 354 | 15.5 | 89 | 15.5 | 178 | |
| 002B0500 | | 2 | 3020 | 75 | 3" | 4 | 44 | 454 | 3.5 | 51 | 3.5 | 159 | |
| 3B0500 | | 3 | 3535 | 90 | 3 ½" | 4 | 63 | 454 | 13.0 | 89 | 13.0 | 178 | |
| 4B0500 | 500 | 4 | 3535 | 90 | 3 ½" | 4 | 82 | 454 | 3.5 | 89 | 3.5 | 178 | 507 |
| 5B0500 | | 5 | 3535 | 90 | 3 ½" | 5 | 101 | 454 | 6.0 | 89 | 6.0 | 178 | |
| 6B0500 | | 6 | 4040 | 100 | 4" | 5 | 120 | 454 | 9.0 | 102 | 9.0 | 216 | |
| 002B0630 | | 2 | 3030 | 75 | 3" | 4 | 44 | 584 | 16.0 | 76 | 16.0 | 159 | |
| 3B0630 | | 3 | 3535 | 90 | 3 ½" | 4 | 63 | 584 | 13.0 | 89 | 13.0 | 178 | |
| 4B0630 | 630 | 4 | 3535 | 90 | 3 ½" | 4 | 82 | 584 | 3.5 | 89 | 3.5 | 178 | 637 |
| 5B0630 | | 5 | 4040 | 100 | 4" | 4 | 101 | 584 | 0.5 | 102 | 0.5 | 216 | |
| 6B0630 | | 6 | 4040 | 100 | 4" | 5 | 120 | 584 | 9.0 | 102 | 9.0 | 216 | |
| 002B0800 | | 2 | 3030 | 75 | 3" | 4 | 44 | 754 | 16.0 | 76 | 16.0 | 159 | |
| 3B0800 | | 3 | 3535 | 90 | 3 ½" | 4 | 63 | 754 | 13.0 | 89 | 13.0 | 178 | |
| 4B0800 | 800 | 4 | 4040 | 100 | 4" | 4 | 82 | 754 | 10.0 | 102 | 10.0 | 216 | 807 |
| 5B0800 | | 5 | 4040 | 100 | 4" | 4 | 101 | 754 | 0.5 | 102 | 0.5 | 216 | |
| 6B0800 | | 6 | 4545 | 110 | 4 ½" | 5 | 120 | 754 | 3.0 | 114 | 3.0 | 242 | |
| 003B1000 | | 3 | 4040 | 100 | 4' | 4 | 63 | 954 | 19.5 | 102 | 19.5 | 216 | |
| 4B1000 | 1000 | 4 | 4040 | 100 | 4" | 4 | 82 | 954 | 10.0 | 102 | 10.0 | 216 | 1007 |
| 5B1000 | | 5 | 4545 | 110 | 4 ½" | 4 | 101 | 954 | 6.5 | 114 | 6.5 | 242 | |
| 6B1000 | | 6 | 4545 | 110 | 4 ½" | 5 | 120 | 954 | 3.0 | 114 | 3.0 | 242 | |

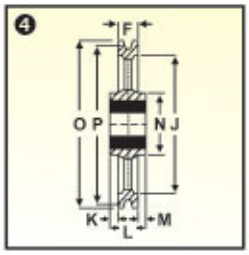
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



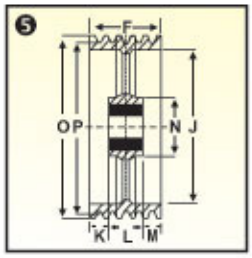



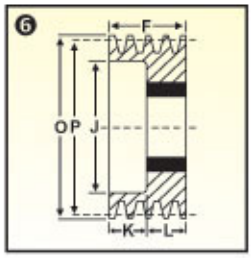

## FOR USE WITH 'C' & 'SPC' SECTION BELTS

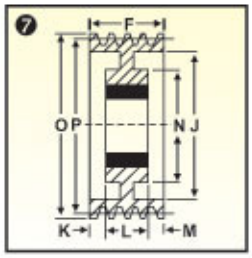
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| **FOR USE WITH 'C' SECTION BELTS** | | | | | | | | | | | | | |
| 004C0200 | | 4 | 3020 | 75 | 3" | 3 | 111 | 151 | 30.0 | 51 | 30.0 | - | |
| 5C0200 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 151 | 16.0 | 89 | 31.0 | - | |
| 6C0200 | 200 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 151 | 16.0 | 89 | 57.0 | - | 209.6 |
| 7C0200 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 151 | 36.0 | 89 | 62.0 | - | |
| 8C0200 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 151 | 46.0 | 89 | 78.0 | - | |
| 004C0212 | | 4 | 3020 | 75 | 3" | 3 | 111 | 163 | 30.0 | 51 | 30.0 | - | |
| 5C0212 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 163 | 16.0 | 89 | 31.0 | - | |
| 6C0212 | 212 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 163 | 36.5 | 89 | 36.5 | - | 221.6 |
| 7C0212 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 163 | 36.0 | 89 | 62.0 | - | |
| 8C0212 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 163 | 46.0 | 89 | 78.0 | - | |
| **FOR USE WITH 'C' / 'SPC' SECTION BELTS** | | | | | | | | | | | | | |
| 004C0224 | | 4 | 3535 | 90 | 3 ½" | 3 | 111 | 161 | 11.0 | 89 | 11.0 | - | |
| 5C0224 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 161 | 23.5 | 89 | 23.5 | - | |
| 6C0224 | 224 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 161 | 36.5 | 89 | 36.5 | - | 233.6 |
| 7C0224 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 161 | 36.0 | 89 | 62.0 | - | |
| 8C0224 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 161 | 46.0 | 89 | 78.0 | - | |
| 004C0236 | | 4 | 3535 | 90 | 3 ½" | 3 | 111 | 173 | 11.0 | 89 | 11.0 | - | |
| 5C0236 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 173 | 23.5 | 89 | 23.5 | - | |
| 6C0236 | 236 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 173 | 36.5 | 89 | 36.5 | - | 245.6 |
| 7C0236 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 173 | 36.0 | 89 | 62.0 | - | |
| 8C0236 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 173 | 46.0 | 89 | 78.0 | - | |
| 004C0250 | | 4 | 3535 | 90 | 3 ½" | 3 | 111 | 187 | 11.0 | 89 | 11.0 | - | |
| 5C0250 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 187 | 23.5 | 89 | 23.5 | - | |
| 6C0250 | 250 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 187 | 36.5 | 89 | 36.5 | - | 259.6 |
| 7C0250 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 187 | 36.0 | 89 | 62.0 | - | |
| 8C0250 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 187 | 62.0 | 89 | 62.0 | - | |
| 004C0265 | | 4 | 3535 | 90 | 3 ½" | 3 | 111 | 202 | 11.0 | 89 | 11.0 | - | |
| 5C0265 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 202 | 23.5 | 89 | 23.5 | - | |
| 6C0265 | 265 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 202 | 36.5 | 89 | 36.5 | - | 274.6 |
| 7C0265 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 202 | 36.0 | 89 | 62.0 | - | |
| 8C0265 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 202 | 62.0 | 89 | 62.0 | - | |
| 004C0280 | | 4 | 3535 | 90 | 3 ½" | 3 | 111 | 217 | 11.0 | 89 | 11.0 | - | |
| 5C0280 | | 5 | 3535 | 90 | 3 ½" | 3 | 136 | 217 | 23.5 | 89 | 23.5 | - | |
| 6C0280 | 280 | 6 | 3535 | 90 | 3 ½" | 3 | 162 | 217 | 36.5 | 89 | 36.5 | - | 289.6 |
| 7C0280 | | 7 | 3535 | 90 | 3 ½" | 3 | 187 | 217 | 36.0 | 89 | 62.0 | - | |
| 8C0280 | | 8 | 3535 | 90 | 3 ½" | 3 | 213 | 217 | 62.0 | 89 | 62.0 | - | |
| 004C0300 | | 4 | 3535 | 90 | 3 ½" | 7 | 111 | 237 | 11.0 | 89 | 11.0 | 178 | |
| 5C0300 | | 5 | 3535 | 90 | 3 ½" | 7 | 136 | 237 | 23.5 | 89 | 23.5 | 178 | |
| 6C0300 | 300 | 6 | 3535 | 90 | 3 ½" | 7 | 162 | 237 | 36.5 | 89 | 36.5 | 178 | 309.6 |
| 7C0300 | | 7 | 3535 | 90 | 3 ½" | 7 | 187 | 237 | 49.0 | 89 | 49.0 | 178 | |
| 8C0300 | | 8 | 4040 | 100 | 4" | 3 | 213 | 237 | 55.5 | 102 | 55.5 | - | |

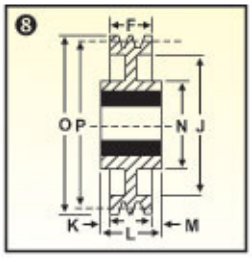
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys



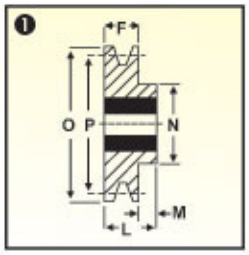



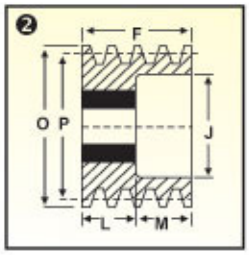

## FOR USE WITH 'C' / 'SPC' BELTS

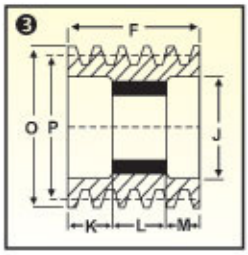
| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 004C0315 | | 4 | 3535 | 90 | 3 ½" | 7 | 111 | 252 | 11.0 | 89 | 11.0 | 178 | |
| 5C0315 | | 5 | 3535 | 90 | 3 ½" | 7 | 136 | 252 | 23.5 | 89 | 23.5 | 178 | |
| 6C0315 | 315 | 6 | 3535 | 90 | 3 ½" | 7 | 162 | 252 | 36.5 | 89 | 36.5 | 178 | 324.6 |
| 7C0315 | | 7 | 3535 | 90 | 3 ½" | 7 | 187 | 252 | 49.0 | 89 | 49.0 | 178 | |
| 8C0315 | | 8 | 4040 | 100 | 4" | 3 | 213 | 252 | 55.5 | 102 | 55.5 | - | |
| 004C0335 | | 4 | 3535 | 90 | 3 ½" | 7 | 111 | 272 | 11.0 | 89 | 11.0 | 178 | |
| 5C0335 | | 5 | 3535 | 90 | 3 ½" | 7 | 136 | 272 | 23.5 | 89 | 23.5 | 178 | |
| 6C0335 | 335 | 6 | 3535 | 90 | 3 ½" | 7 | 162 | 272 | 36.5 | 89 | 36.5 | 178 | 344.6 |
| 7C0335 | | 7 | 3535 | 90 | 3 ½" | 7 | 187 | 272 | 49.0 | 89 | 49.0 | 178 | |
| 8C0335 | | 8 | 4040 | 100 | 4" | 3 | 213 | 272 | 55.5 | 102 | 55.5 | - | |
| 004C0355 | | 4 | 3535 | 90 | 3 ½" | 7 | 111 | 292 | 11.0 | 89 | 11.0 | 178 | |
| 5C0355 | | 5 | 3535 | 90 | 3 ½" | 7 | 136 | 292 | 23.5 | 89 | 23.5 | 178 | |
| 6C0355 | 355 | 6 | 3535 | 90 | 3 ½" | 7 | 162 | 292 | 36.5 | 89 | 36.5 | 178 | 364.6 |
| 7C0355 | | 7 | 4040 | 100 | 4" | 7 | 187 | 292 | 42.5 | 102 | 42.5 | 216 | |
| 8C0355 | | 8 | 4040 | 100 | 4" | 7 | 213 | 292 | 55.5 | 102 | 55.5 | 216 | |
| 004C0375 | | 4 | 3535 | 90 | 3 ½" | 7 | 111 | 312 | 11.0 | 89 | 11.0 | 178 | |
| 5C0375 | | 5 | 3535 | 90 | 3 ½" | 7 | 136 | 312 | 23.5 | 89 | 23.5 | 178 | |
| 6C0375 | 375 | 6 | 4040 | 100 | 4" | 7 | 162 | 312 | 30.0 | 102 | 30.0 | 216 | 384.6 |
| 7C0375 | | 7 | 4040 | 100 | 4" | 7 | 187 | 312 | 42.5 | 102 | 42.5 | 216 | |
| 8C0375 | | 8 | 4545 | 110 | 4 ½" | 7 | 213 | 312 | 49.5 | 114 | 49.5 | 242 | |
| 004C0400 | | 4 | 3535 | 90 | 3 ½" | 5 | 111 | 337 | 11.0 | 89 | 11.0 | 178 | |
| 5C0400 | | 5 | 3535 | 90 | 3 ½" | 5 | 136 | 337 | 23.5 | 89 | 23.5 | 178 | |
| 6C0400 | 400 | 6 | 4040 | 100 | 4" | 7 | 162 | 337 | 30.0 | 102 | 30.0 | 216 | 409.6 |
| 7C0400 | | 7 | 4545 | 110 | 4 ½" | 7 | 187 | 337 | 36.5 | 114 | 36.5 | 242 | |
| 8C0400 | | 8 | 4545 | 110 | 4 ½" | 7 | 213 | 337 | 49.5 | 114 | 49.5 | 242 | |
| 004C0425 | | 4 | 3535 | 90 | 3 ½" | 5 | 111 | 362 | 11.0 | 89 | 11.0 | 178 | |
| 5C0425 | | 5 | 4040 | 100 | 4" | 7 | 136 | 362 | 17.0 | 102 | 17.0 | 216 | |
| 6C0425 | 425 | 6 | 4545 | 110 | 4 ½" | 7 | 162 | 362 | 24.0 | 114 | 24.0 | 242 | 434.6 |
| 7C0425 | | 7 | 4545 | 110 | 4 ½" | 7 | 187 | 362 | 36.5 | 114 | 36.5 | 242 | |
| 8C0425 | | 8 | 5050 | 125 | 5" | 7 | 213 | 362 | 43.0 | 127 | 43.0 | 267 | |
| 004C0450 | | 4 | 3535 | 90 | 3 ½" | 5 | 111 | 387 | 11.0 | 89 | 11.0 | 178 | |
| 5C0450 | | 5 | 4040 | 100 | 4" | 5 | 136 | 387 | 17.0 | 102 | 17.0 | 216 | |
| 6C0450 | 450 | 6 | 4545 | 110 | 4 ½" | 7 | 162 | 387 | 24.0 | 114 | 24.0 | 242 | 459.6 |
| 7C0450 | | 7 | 5050 | 125 | 5" | 7 | 187 | 387 | 30.0 | 127 | 30.0 | 267 | |
| 8C0450 | | 8 | 5050 | 125 | 5" | 7 | 213 | 387 | 43.0 | 127 | 43.0 | 267 | |
| 004C0475 | | 4 | 3535 | 90 | 3 ½" | 5 | 111 | 412 | 11.0 | 89 | 11.0 | 178 | |
| 5C0475 | | 5 | 4040 | 100 | 4" | 5 | 136 | 412 | 17.0 | 102 | 17.0 | 216 | |
| 6C0475 | 475 | 6 | 4545 | 110 | 4 ½" | 7 | 162 | 412 | 24.0 | 114 | 24.0 | 242 | 484.6 |
| 7C0475 | | 7 | 5050 | 125 | 5" | 7 | 187 | 412 | 30.0 | 127 | 30.0 | 267 | |
| 8C0475 | | 8 | 5050 | 125 | 5" | 7 | 213 | 412 | 43.0 | 127 | 43.0 | 267 | |

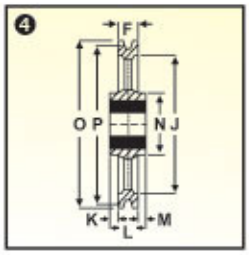
DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Taper Lock® Dual Duty Pulleys




## FOR USE WITH 'C' / 'SPC' BELTS

| Product Code | Pitch Dia(P) | No. of Grooves | Bush No. | Max. Bore | | Pulley Type | F | J | K | L | M | N | Outside Dia (O) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | Met. | Imp. | | | | | | | | |
| 004C0500 | | 4 | 3535 | 90 | 3 ½" | 5 | 111 | 437 | 11.0 | 89 | 11.0 | 178 | |
| 5C0500 | | 5 | 4040 | 100 | 4" | 5 | 136 | 437 | 17.0 | 102 | 17.0 | 216 | |
| 6C0500 | 500 | 6 | 4545 | 110 | 4 ½" | 5 | 162 | 437 | 24.0 | 114 | 24.0 | 242 | 509.6 |
| 7C0500 | | 7 | 5050 | 125 | 5" | 7 | 187 | 437 | 30.0 | 127 | 30.0 | 267 | |
| 8C0500 | | 8 | 5050 | 125 | 5" | 7 | 213 | 437 | 43.0 | 127 | 43.0 | 267 | |
| 004C0530 | | 4 | 4040 | 100 | 4" | 5 | 111 | 467 | 4.5 | 102 | 4.5 | 216 | |
| 5C0530 | | 5 | 4545 | 110 | 4 ½" | 5 | 136 | 467 | 11.0 | 114 | 11.0 | 242 | |
| 6C0530 | 530 | 6 | 5050 | 125 | 5" | 5 | 162 | 467 | 17.5 | 127 | 17.5 | 267 | 539.6 |
| 7C0530 | | 7 | 5050 | 125 | 5" | 7 | 187 | 467 | 30.0 | 127 | 30.0 | 267 | |
| 8C0530 | | 8 | 5050 | 125 | 5" | 7 | 213 | 467 | 43.0 | 127 | 43.0 | 267 | |
| 004C0560 | | 4 | 4040 | 100 | 4" | 5 | 111 | 497 | 4.5 | 102 | 4.5 | 216 | |
| 5C0560 | | 5 | 4545 | 110 | 4 ½" | 5 | 136 | 497 | 11.0 | 114 | 11.0 | 242 | |
| 6C0560 | 560 | 6 | 5050 | 125 | 5" | 5 | 162 | 497 | 17.5 | 127 | 17.5 | 267 | 569.6 |
| 7C0560 | | 7 | 5050 | 125 | 5" | 5 | 187 | 497 | 30.0 | 127 | 30.0 | 267 | |
| 8C0560 | | 8 | 5050 | 125 | 5" | 5 | 213 | 497 | 43.0 | 127 | 43.0 | 267 | |
| 004C0630 | | 4 | 4545 | 110 | 4 ½" | 4 | 111 | 567 | 1.5 | 114 | 1.5 | 242 | |
| 5C0630 | | 5 | 5050 | 125 | 5" | 5 | 136 | 567 | 4.5 | 127 | 4.5 | 267 | |
| 6C0630 | 630 | 6 | 5050 | 125 | 5" | 5 | 162 | 567 | 17.5 | 127 | 17.5 | 267 | 639.6 |
| 7C0630 | | 7 | 5050 | 125 | 5" | 5 | 187 | 567 | 30.0 | 127 | 30.0 | 267 | |
| 8C0630 | | 8 | 5050 | 125 | 5" | 5 | 213 | 567 | 43.0 | 127 | 43.0 | 267 | |
| 004C0800 | | 4 | 5050 | 125 | 5" | 4 | 111 | 737 | 8.0 | 127 | 8.0 | 267 | |
| 5C0800 | | 5 | 5050 | 125 | 5" | 5 | 136 | 737 | 4.5 | 127 | 4.5 | 267 | |
| 6C0800 | 800 | 6 | 5050 | 125 | 5" | 5 | 162 | 737 | 17.5 | 127 | 17.5 | 267 | 809.6 |
| 7C0800 | | 7 | 5050 | 125 | 5" | 5 | 187 | 737 | 30.0 | 127 | 30.0 | 267 | |
| 8C0800 | | 8 | 5050 | 125 | 5" | 5 | 213 | 737 | 43.0 | 127 | 43.0 | 267 | |
| 004C1000 | | 4 | 5050 | 125 | 5" | 4 | 111 | 937 | 8.0 | 127 | 8.0 | 267 | |
| 5C1000 | | 5 | 5050 | 125 | 5" | 5 | 136 | 937 | 4.5 | 127 | 4.5 | 267 | |
| 6C1000 | 1000 | 6 | 5050 | 125 | 5" | 5 | 162 | 937 | 17.5 | 127 | 17.5 | 267 | 1009.6 |
| 7C1000 | | 7 | 5050 | 125 | 5" | 5 | 187 | 937 | 30.0 | 127 | 30.0 | 267 | |
| 8C1000 | | 8 | 5050 | 125 | 5" | 5 | 213 | 937 | 43.0 | 127 | 43.0 | 267 | |
| 004C1250 | | 4 | 5050 | 125 | 5" | 4 | 111 | 1187 | 8.0 | 127 | 8.0 | 267 | |
| 5C1250 | | 5 | 5050 | 125 | 5" | 5 | 136 | 1187 | 4.5 | 127 | 4.5 | 267 | |
| 6C1250 | 1250 | 6 | 5050 | 125 | 5" | 5 | 162 | 1187 | 17.5 | 127 | 17.5 | 267 | 1259.6 |
| 7C1250 | | 7 | 5050 | 125 | 5" | 5 | 187 | 1187 | 30.0 | 127 | 30.0 | 267 | |
| 8C1250 | | 8 | 5050 | 125 | 5" | 5 | 213 | 1187 | 43.0 | 127 | 43.0 | 267 | |

DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED

# Fenner

# FENAFLEX
# TYRE COUPLINGS

**PowerTran**

**Dependable Power Transmission Accessories**

# FENNER TYRE COUPLINGS

Fenner Tyre couplings provide all the desirable features of an ideal flexible coupling, including Taper-Lock® fixing. The Fenner Tyre coupling is a "torsionally elastic" coupling offering versatility to designers and engineers with a choice of flange combinations to suit most applications.

The flanges are available in either F or H version Taper-Lock® fitting or bored to size B.

With the addition of a spacer flange, the coupling can be used to accommodate standard distance between shaft ends and facilitate pump maintenance.

Fenner Tyre couplings can accommodate simultaneous maximum misalignment in all planes without imposing undue loads on adjacent bearings and the excellent shock-absorbing properties of the flexible tyre reduce vibrations and torsional oscillations.

**Fenner tyres** are available in natural rubber compounds for use in ambient temperatures between -50°C to +50°C. Neoprene rubber compounds are available for use in adverse operating conditions e.g. oil or grease contaminations and can be used in temperatures of - 15° C to + 70° C.

F.R.A.S. tyres are available for use when fire-resistance and antistatic (F.R.A.S.) properties are required.

### TORQUE-BORE RANGE

The range includes couplings with torque capacity upto 12606 Nm. and bore diameters upto 190 mm.

### MISALIGNMENT

Handles parallel, angular and axial displacements, either singly or in any combination. They can accommodate parallel misalignment upto 6 mm, angular misalignment upto 4° and end float upto 8 mm.

### TORSIONALLY SOFT

Cushions against destructive shock loads protecting the complete system, preventing expensive breakdowns and lengthens machine life.

### FREE OF BACKLASH

Does not create 'snatch' on take up of the drive.

### INSTALLATION

Requires neither special tools nor skilled labour to assemble. Alignment is quickly checked by placing a straight edge across outside diameter of flanges. The split flexible tyre is then positioned in the flanges and the screws tightened into place.

### DAMPING

Reduces vibration and torsional oscillations developed in internal combustion engines, the amplitude of which increases greatly at critical points in the speed range. Fenner Tyre coupling dampens these destructive vibrations.

### MAINTENANCE

Because there are no moving parts, no lubrication is required. Periodic visual inspection of the tyre is all that is necessary.

### EASY ELEMENT REPLACEMENT

To replace flexible element simply loosen the clamping screws, remove the tyre and replace with a new one. It is not necessary to move either driver or driven machine or coupling flanges.

### ENVIRONMENT

Use of natural or Neoprene rubber compounds makes the Fenner Tyre coupling suitable for use in most conditions. For fire hazard areas the F.R.A.S. tyre is recommended. This allows free flow of electricity between the two shafts to avoid static electricity build up.

# FENNER TYRE COUPLINGS - SELECTION

## DETAILS REQUIRED FOR COUPLING SELECTION

1. Type of driven machine and operating hours per day.
2. Speed and power absorbed by driven machine (if absorbed power is not known, calculate on power rating of prime mover).
3. Diameters of shafts to be connected.

## PROCEDURE

**a. Service Factor :** Determine the required service factor from table 1.

**b. Design Power :** Multiply the normal running power by the service factor. This gives the design power which is used as a basis for selecting the coupling.

**c. Coupling Size :** Refer to table 3 (page 5) and from the appropriate speed, read across until a power greater than that required in step (b) is found.

The size of Fenner Tyre Coupling required is given at the head of that column.

**d. Bore Size :** Check from dimension tables that chosen flanges can accommodate required bores.

## EXAMPLE

A Fenner Tyre Coupling is required to transmit 45 kW from an A.C. Electric Motor which runs at 1440 rev/min to a rotary screen for 12 hours a day. The motor shaft is 60 mm diameter and the screen shaft is 55 mm diameter.

**a. Service Factor :** From table 1, the service factor is 1.4.

**b. Design Power :** Design Power = 45x1.4 = 63 kW.

**c. Coupling Size :** By reading across from 1440 rev/min in table 3 (page 6) the first power figure to exceed the required 63 kW in step (b) is 76.1 kW. The size of coupling is F100.

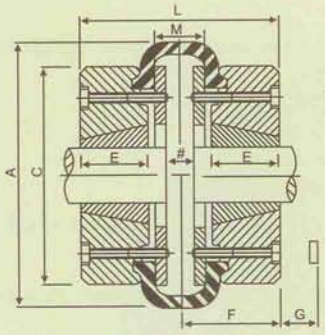
**d. Bore Size :** By referring to table 2 (page 5) it can be seen that both shaft diameters fall within the bore range available.

## TABLE 1: SERVICE FACTORS

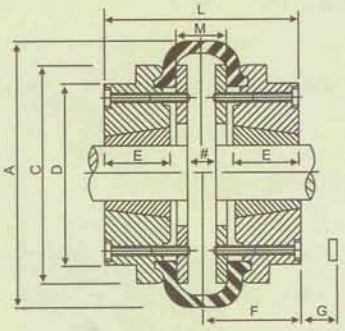
| Special Cases | Type of Driving Unit | | | | | |
|---|---|---|---|---|---|---|
| For applications where substantial shock, vibration and torque fluctuations occur and for reciprocating machines e.g. internal combustion engines, piston pumps and compressors, refer to Fenner with all machine details for torsion analysis | Electric Motors Steam Turbines | | | Internal Combustion Engines Steam Engines Water Turbines | | |
| Type of Driven Machine | Operational hours per day | | | | | |
| | 10 and under | Over 10 to 16 inclusive | over 16 | 10 and under | Over 10 to 16 inclusive | over 16 |
| **CLASS 1** Agitators, Brewing machinery,Centrifugal compressors and pumps, Belt conveyors, Dynamometers, Line shafts, Fans upto 7.5 kW, Blowers and Exhausters (except positive displacement),Generators. | 0.8 | 0.9 | 1.0 | 1.3 | 1.4 | 1.5 |
| **CLASS 2** Clay working machinery, General Machine tools, Paper mill beaters and winders, Rotary pumps, Rubber extruders, Rotary screens, Textile machinery, Marine propellers and fans over 7.5 kW. | 1.3 | 1.4 | 1.5 | 1.8 | 1.9 | 2.0 |
| **CLASS 3** Bucket elevators, Cooling tower fans, Piston compressors and pumps, Foundry machinery, Metal presses, Paper mill calendars, Pulverisers and Positive displacement blowers. | 1.8 | 1.9 | 2.0 | 2.3 | 2.4 | 2.5 |
| **CLASS 4** Reciprocating conveyors, Gyratory crushers, Mills (ball, pebble and rod), Rubber machinery (Banbury mixers and mills) and Vibratory screens | 2.3 | 2.4 | 2.5 | 2.8 | 2.9 | 3.0 |

# FENNER TYRE COUPLINGS

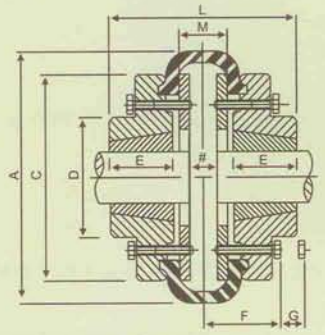
## F TYPE



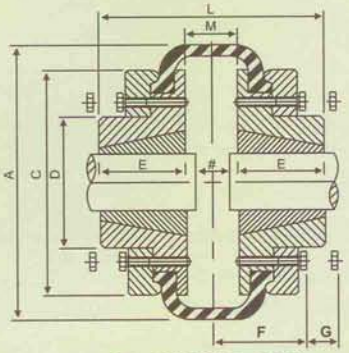

F - 40 & 45




F - 50 & 60

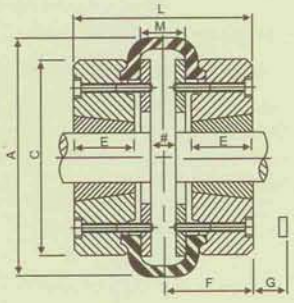



F - 70 TO 120

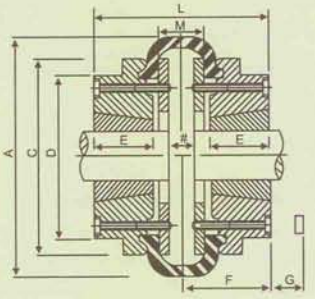



F - 140 TO 220

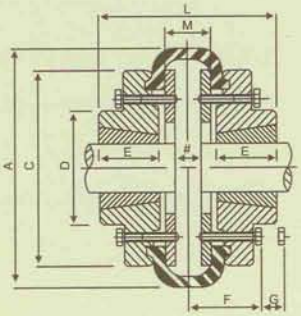
## H TYPE



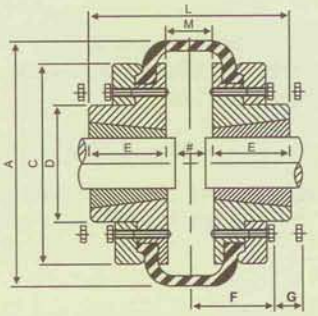

F - 40 & 45




F - 50 & 60



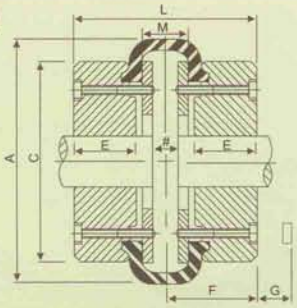

F - 70 TO 120



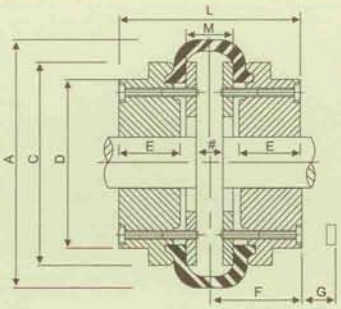

F - 140 TO 220

# FENNER TYRE COUPLINGS

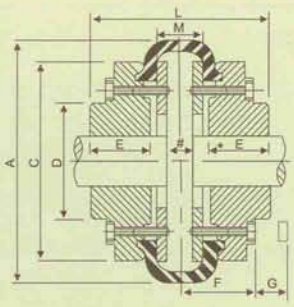
## B TYPE



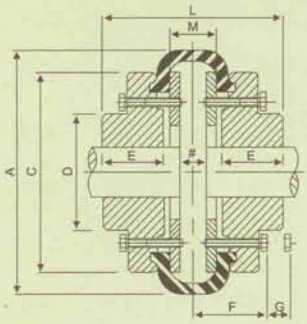

F - 40 & 45



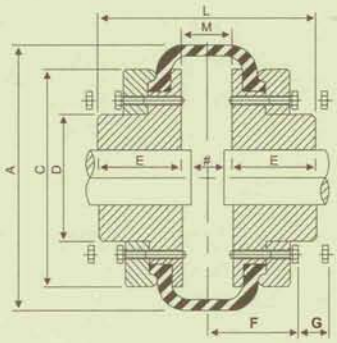

F - 50




F - 60




F - 70 TO 120




F - 140 TO 250

## TABLE 2 : DIMENSIONS "F&H" AND "B" TYPE COUPLINGS

| Size | TYPE F & H | | | | | | | | TYPE B | | | | | | | | A | C | ‡ G | † M | No. of screws per flange |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Bush No. | Max Bore | L | D | E | F | ξ J | * Approx Weight Kg | Max Bore | Min Bore | L | D | E | F | Set Screw on key | * Approx Weight Kg | | | | | |
| F40 | 1008 | 25 | 67 | - | 22 | 33.5 | 29 | 1.4 | 30 | 11.00 | 67 | - | 22 | 33.5 | M5 | 2.0 | 104.0 | 82 | 43 | 23 | 4 |
| F45 | 1108 | 28 | 67 | - | 22 | 33.5 | 29 | 3.0 | 32 | 11.00 | 73 | - | 25 | 36.5 | M5 | 2.2 | 120.0 | 94 | 43 | 23 | 4 |
| F50 | 1210 | 32 | 78 | 79.0 | 25 | 39.0 | 38 | 3.1 | 38 | 16.00 | 92 | 79 | 32 | 46.0 | M5 | 4.0 | 133.5 | 100 | 43 | 28 | 4 |
| F60 | 1610 | 42 | 86 | 103.0 | 25 | 43.0 | 38 | 5.2 | 48 | 16.00 | 112 | 73 | 38 | 43.0 | M6 | 5.0 | 165.0 | 125 | 43 | 36 | 5 |
| F70 | 1610 | 42 | 92 | 76.0 | 25 | 50.5 | 38 | 7.4 | 55 | 19.05 | 132 | 82 | 45 | 50.5 | M6 | 8.0 | 197.0 | 144 | 10 | 42 | 5 |
| F80 | 2012 | 50 | 111 | 95.0 | 32 | 53.0 | 47 | 9.2 | 65 | 25.40 | 149 | 95 | 51 | 53.0 | M10 | 12.0 | 211.0 | 167 | 10 | 47 | 6 |
| F85 | 2012 | 50 | 112 | 103.0 | 32 | 53.5 | 47 | 12.5 | 70 | 31.75 | 154 | 103 | 53 | 53.5 | M12 | 14.0 | 222.0 | 179 | 13 | 48 | 6 |
| F90 | 2517 | 60 | 140 | 110.0 | 45 | 59.5 | 50 | 15.0 | 76 | 31.75 | 164 | 110 | 57 | 59.5 | M12 | 15.0 | 235.0 | 188 | 13 | 50 | 6 |
| F100 | 2517 | 60 | 148 | 124.0 | 45 | 61.5 | 50 | 20.0 | 85 | 31.75 | 178 | 124 | 60 | 61.5 | M12 | 21.0 | 254.0 | 216 | 13 | 58 | 6 |
| F110 | 2517 | 60 | 140 | 134.0 | 45 | 63.5 | 50 | 26.5 | 90 | 31.75 | 180 | 134 | 65 | 63.5 | M12 | 28.0 | 279.0 | 233 | 14 | 50 | 6 |
| F120 | 3020 | 75 | 157 | 152.0 | 51 | 70.0 | 68 | 35.5 | 102 | 38.10 | 207 | 152 | 76 | 70.0 | M12 | 41.0 | 314.0 | 264 | 14 | 55 | 6 |
| F140 | 3535 | 90 | 204 | 194.5 | 89 | 76.0 | 89 | 67.2 | 120 | 75.00 | 204 | 195 | 89 | 76.0 | M20 | 61.0 | 359.0 | 313 | 14 | 26 | 8 |
| F160 | 4040 | 100 | 220 | 216.0 | 102 | 78.0 | 110 | 91.0 | 140 | 75.00 | 220 | 216 | 102 | 78.0 | M20 | 86.0 | 402.0 | 345 | 19 | 16 | 8 |
| F180 | 4545 | 110 | 258 | 266.0 | 114 | 94.0 | 126 | 146.0 | 150 | 75.00 | 258 | 266 | 114 | 94.0 | M20 | 141.0 | 470.0 | 398 | 19 | 30 | 10 |
| F200 | 4545 | 110 | 278 | 266.0 | 114 | 103.0 | 126 | 182.0 | 150 | 75.00 | 276 | 266 | 114 | 103.0 | M20 | 179.0 | 508.0 | 429 | 19 | 48 | 12 |
| F220 | 5050 | 125 | 312 | 267.0 | 127 | 118.0 | 140 | 320.0 | 160 | 90.00 | 312 | 267 | 127 | 118.0 | M20 | 312.0 | 562.0 | 474 | 20 | 56 | 12 |
| F250 | - | - | - | - | - | - | - | - | 190 | 100.00 | 360 | 290 | 150 | 125.0 | M20 | 500.0 | 628.0 | 532 | 25 | 60 | 12 |

**Dimensions are in millimetres**

* Weights given are for min. bore complete coupling.

† M is the distance between flanges.

\# Shaft ends, although normally located 'M' apart - can project beyond the flanges as shown. In this event, allow sufficient space between shaft ends for the float and misalignment.

‡ G is the amount by which clamping screws need to be withdrawn to release tyre.

ξ J is the wrench clearance to allow for tightening and loosening the bush on the shaft. The use of shortened wrench will allow this dimension to be reduced.

# FENNER TYRE COUPLINGS - POWER RATINGS

TABLE 3 : POWER RATINGS (kW)

| Speed (rev/min) | COUPLING SIZE | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | F40 | F45 | F50 | F60 | F70 | F80 | F85 | F90 | F100 | F110 | F120 | F140 | F160 | F180 | F200 | F220 | F250 |
| 100 | 0.22 | 0.39 | 0.56 | 1.11 | 1.70 | 2.65 | 3.2 | 3.82 | 5.29 | 7.46 | 12.4 | 19.7 | 32.6 | 57.4 | 84 | 104 | 132 |
| 200 | 0.44 | 0.78 | 1.11 | 2.22 | 3.39 | 5.30 | 6.4 | 7.64 | 10.00 | 14.90 | 24.8 | 39.4 | 65.2 | 115 | 168 | 209 | 264 |
| 300 | 0.66 | 1.17 | 1.67 | 3.33 | 5.09 | 7.95 | 9.6 | 11.50 | 15.90 | 22.40 | 37.1 | 59.1 | 97.8 | 172 | 252 | 313 | 396 |
| 400 | 0.88 | 1.56 | 2.22 | 4.44 | 6.79 | 10.60 | 12.8 | 15.30 | 21.20 | 29.80 | 49.5 | 78.8 | 130 | 230 | 336 | 418 | 529 |
| 500 | 1.10 | 1.95 | 2.78 | 5.55 | 8.48 | 13.20 | 16.0 | 19.10 | 26.40 | 37.30 | 61.9 | 98.5 | 163 | 287 | 420 | 522 | 660 |
| 600 | 1.32 | 2.34 | 3.33 | 6.66 | 10.20 | 15.90 | 19.2 | 22.90 | 31.70 | 44.70 | 74.3 | 118 | 196 | 345 | 504 | 627 | 793 |
| 700 | 1.54 | 2.73 | 3.89 | 7.77 | 11.90 | 18.50 | 22.4 | 26.80 | 37.00 | 52.20 | 86.6 | 138 | 228 | 402 | 588 | 731 | 925 |
| **720** | **1.58** | **2.80** | **4.00** | **7.99** | **12.20** | **19.10** | **23.0** | **27.50** | **38.10** | **53.70** | **89.1** | **142** | **235** | **414** | **605** | **753** | **951** |
| 800 | 1.76 | 3.12 | 4.44 | 8.88 | 13.60 | 21.20 | 25.6 | 30.60 | 42.30 | 59.60 | 99.0 | 158 | 261 | 459 | 672 | 836 | 1057 |
| 900 | 1.98 | 3.00 | 5.00 | 9.99 | 15.30 | 23.80 | 28.8 | 34.40 | 47.60 | 67.10 | 111.0 | 177 | 293 | 517 | 756 | 940 | 1198 |
| **960** | **2.11** | **3.74** | **5.33** | **10.70** | **16.30** | **25.40** | **30.7** | **36.70** | **50.80** | **71.60** | **119.0** | **189** | **313** | **551** | **806** | **1003** | **1269** |
| 1000 | 2.20 | 3.90 | 5.55 | 11.10 | 17.00 | 26.50 | 32.0 | 38.20 | 52.90 | 74.60 | 124.0 | 197 | 326 | 574 | 840 | 1045 | 1322 |
| 1200 | 2.64 | 4.68 | 6.66 | 13.30 | 20.40 | 31.80 | 38.4 | 45.90 | 63.50 | 89.50 | 149.0 | 236 | 391 | 689 | 1008 | | |
| 1400 | 3.08 | 5.46 | 7.77 | 15.50 | 23.80 | 37.10 | 44.8 | 53.50 | 74.00 | 104.00 | 173.0 | 276 | 456 | 804 | | | |
| **1440** | **3.17** | **5.61** | **7.99** | **16.00** | **24.40** | **38.10** | **46.0** | **55.00** | **76.10** | **107.00** | **178.0** | **284** | **469** | **827** | | | |
| 1600 | 3.52 | 6.24 | 8.88 | 17.80 | 27.10 | 42.40 | 51.2 | 61.20 | 84.60 | 119.00 | 198.0 | 315 | 522 | | | | |
| 1800 | 3.96 | 7.02 | 9.99 | 20.00 | 30.50 | 47.70 | 57.6 | 68.80 | 95.20 | 134.00 | 223.0 | 355 | | | | | |
| 2000 | 4.40 | 7.80 | 11.10 | 22.20 | 33.90 | 53.00 | 64.0 | 76.40 | 106.00 | 149.00 | 248.0 | | | | | | |
| 2200 | 4.84 | 8.58 | 12.20 | 24.40 | 37.30 | 58.30 | 70.4 | 84.10 | 116.00 | 164.00 | | | | | | | |
| 2400 | 5.08 | 9.36 | 13.30 | 26.60 | 40.70 | 63.60 | 76.8 | 91.70 | 127.00 | | | | | | | | |
| 2600 | 5.72 | 10.14 | 14.40 | 28.90 | 44.10 | 68.90 | 83.2 | 99.40 | 137.00 | | | | | | | | |
| 2800 | 6.16 | 10.92 | 15.50 | 31.10 | 47.50 | 74.20 | 89.6 | 107.00 | | | | | | | | | |
| **2880** | **6.33** | **11.23** | **16.00** | **32.00** | **48.90** | **76.30** | **92.1** | **110.00** | | | | | | | | | |
| 3000 | 6.60 | 11.70 | 16.70 | 33.30 | 50.90 | 79.50 | 96.0 | | | | | | | | | | |
| 3500 | 7.70 | 13.65 | 19.40 | 38.90 | 59.40 | | | | | | | | | | | | |
| 3600 | 7.92 | 14.04 | 20.00 | 40.00 | | | | | | | | | | | | | |

The figures in heavier type are for standard motor speeds

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

# FENNER TYRE COUPLINGS - PHYSICAL CHARACTERISTICS

**TABLE 4 : PHYSICAL CHARACTERISTICS**

| Size | Max. Speed (rev/min) | Torque (Nm) | | Moment of inertia $MR^2$ ($kgm^2$) | Torsional Stiffness (Nm/°) | Maximum Misalignment (mm) | |
|---|---|---|---|---|---|---|---|
| | | Nominal | Max. | | | Parallel | End float ± |
| F40 | 4500 | 21 | 64 | 0.00148 | 5 | 1.1 | 1.3 |
| F45 | **4500** | **37** | **110** | **0.00250** | **9** | **1.2** | **1.5** |
| F50 | 4500 | 53 | 160 | 0.00349 | 13 | 1.3 | 1.7 |
| F60 | 4000 | 106 | 318 | 0.01030 | 26 | 1.6 | 2.0 |
| F70 | 3600 | 162 | 487 | 0.01811 | 41 | 1.9 | 2.3 |
| F80 | 3100 | 253 | 759 | 0.03679 | 63 | 2.1 | 2.6 |
| F85 | **3000** | **305** | **915** | **0.05015** | **76** | **2.2** | **2.8** |
| F90 | 2880 | 365 | 1096 | 0.06374 | 91 | 2.4 | 3.0 |
| F100 | 2600 | 505 | 1517 | 0.11989 | 126 | 2.6 | 3.3 |
| F110 | 2300 | 712 | 2137 | 0.16012 | 178 | 2.9 | 3.7 |
| F120 | 2050 | 1182 | 3547 | 0.34302 | 296 | 3.2 | 4.0 |
| F140 | **1800** | **1881** | **5642** | **0.69452** | **470** | **3.7** | **4.6** |
| F160 | 1600 | 3113 | 9339 | 1.21767 | 778 | 4.2 | 5.3 |
| F180 | 1500 | 5485 | 16455 | 2.01800 | 1371 | 4.8 | 6.0 |
| F200 | 1300 | 8022 | 23508 | 4.03446 | 1959 | 5.3 | 6.6 |
| F220 | 1100 | 9932 | 33125 | 8.67644 | 2760 | 5.8 | 7.3 |
| F250 | 1000 | 12606 | 42740 | 16.85095 | 3562 | 6.6 | 8.2 |

**Notes :**

1. Maximum torque figures should be regarded as short duration overload ratings for use in such circumstances as direct-on-line starting etc.
2. All flexible tyres have an angular misalignment capacity upto 4°

**TABLE 5**

| Coupling Size | | F40* | F45* | F50* | F60* | F70 | F80 | F85 | F90 | F100 | F110 | F120 | F140 | F160 | F180 | F200 | F220 | F250 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| M2 (mm) | | 23 | 23 | 28 | 36 | 42 | 47 | 48 | 50 | 58 | 50 | 55 | 26 | 16 | 30 | 48 | 56 | 60 |
| Clamping Screw Torque | Nm | 15 | 15 | 15 | 15 | 24 | 24 | 32 | 32 | 32 | 32 | 35 | 35 | 35 | 35 | 35 | 38 | 38 |

* Hexagonal Socket Cap Head Clamping Screws on these sizes.

# FENNER TYRE COUPLINGS - INSTALLATION

## INSTALLATION INSTRUCTIONS

**Note :** Satisfactory performance depends on correct installation and maintenance. All instructions in this manual must therefore be followed carefully.

1. Thoroughly clean all components, paying particular attention to the removal of the protective coating in the bore of the flanges.

2. Fit flanges to the shafts placing the external clamp rings on the shafts. (Where Taper-Lock® flanges are used, see separate fitting instructions supplied with the Taper-Lock® Bushes). Locate flanges so that dimension M2 is obtained (see paragraph 3). Flanges with internal clamping rings should then have the clamping rings fitted, engaging only two or three of the threads of the screws at this time.

3. Bring shafts into line until dimension M2 is obtained (table 5). If shaft end float is to occur, locate the shafts at mid-position of end float when checking dimension M2. Note that shaft ends may project beyond the faces of the flanges if required. In this event, allow sufficient space between shaft ends for end float and misalignment. Flanges should be fitted flush with the end of the shaft when used with Mill-Motor flanges.

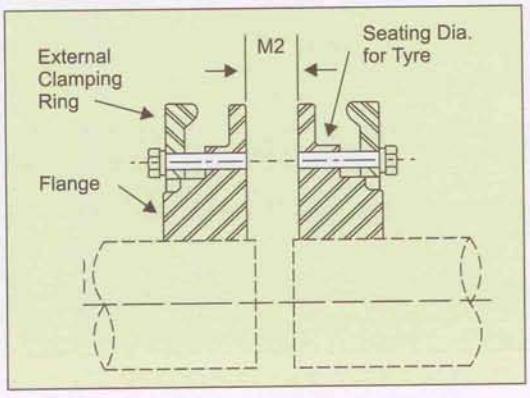
4. Check parallel alignment by laying a straight edge across the flanges at several positions around the circumference. Check angular alignment by measuring gap between flanges at several positions around the circumference. It is desirable to align the coupling as accurately as possible, particularly on high speed applications.

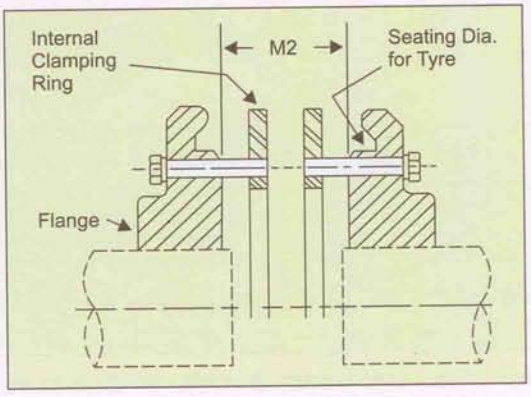
5. Open out tyre and fit over coupling flanges ensuring that the tyre beads seat properly on the flanges and/or clamping rings. To ensure proper seating, it may be necessary to strike the outside diameter of the tyre with a small mallet. When seated, there should be a gap between the ends of the tyre as shown in table 6.

**TABLE 6**

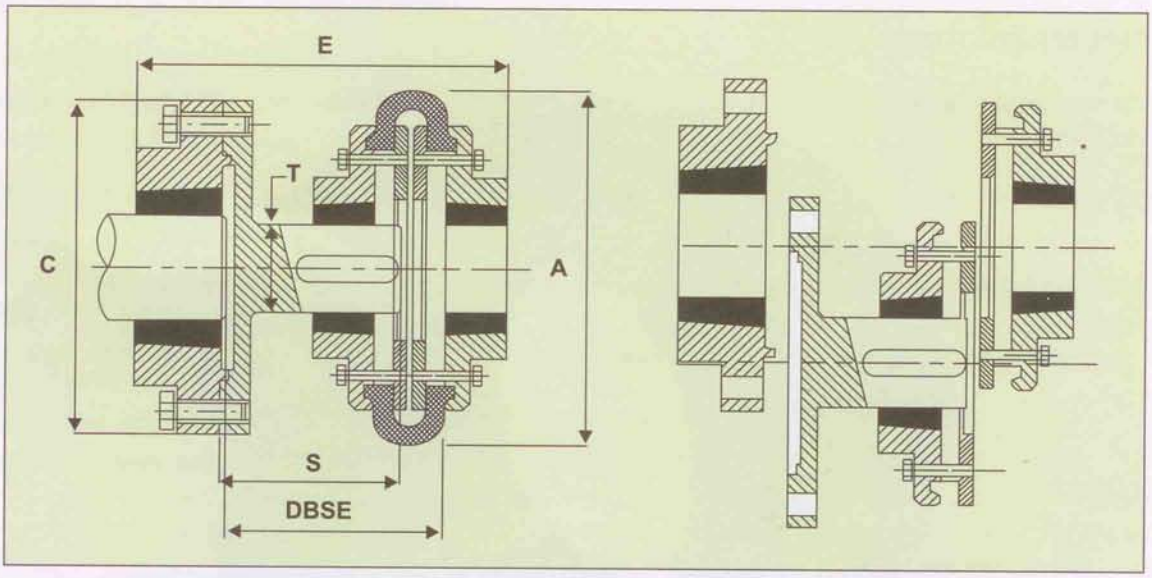
| COUPLING SIZE | F40 TO F60 | F70 TO F120 | F140 | F160 TO F180 | F200 TO F250 |
|---|---|---|---|---|---|
| Tyre Gap in mm. | 2 | 3 | 5 | 6.5 | 8 |

6. Tighten clamping ring screws alternately and evenly (half turn at a time) working round each flange untill the required screw torque is achieved.



# FENNER TYRE SPACER COUPLINGS




Comprising a Fenner Tyre coupling (size F40-F140) complete with a spacer flange designed for use on applications where it is an advantage to be able to move either shaft axially without disturbing the driving or driven machine; e.g. centrifugal pump rotors. Fenner Type spacer couplings are primarily designed for the standard distance between shaft end dimensions 100, 140 and 180 mm.

**TABLE 7**

| SPACER SIZE | DBSE | FENNER TYRE COUPLING SIZE | SPACER BUSH SIZE | MAX. BORE | FENNER TYRE COUPLING BUSH SIZE | MAX. BORE | A | C | E | S | T |
|---|---|---|---|---|---|---|---|---|---|---|---|
| SM12 | 80 | F40 | 1210 | 32 | 1008 | 25 | 104 | 118 | 134 | 77 | 25 |
| SM12 | 100 | F40 | 1210 | 32 | 1008 | 25 | 104 | 118 | 140 | 97 | 25 |
| SM16 | 100 | F40 * | 1615 | 42 | 1008 | 25 | 104 | 127 | 170 | 94 | 32 |
| SM16 | 140 | F40 * | 1615 | 42 | 1008 | 25 | 104 | 127 | 210 | 134 | 32 |
| SM16 | 100 | F50 | 1615 | 42 | 1210 | 32 | 133.5 | 127 | 173 | 94 | 32 |
| SM16 | 140 | F50 | 1615 | 42 | 1210 | 32 | 133.5 | 127 | 213 | 134 | 32 |
| SM16 | 100 | F60 | 1615 | 42 | 1610 | 42 | 165 | 127 | 177 | 94 | 32 |
| SM16 | 140 | F60 | 1615 | 42 | 1610 | 42 | 165 | 127 | 214 | 134 | 32 |
| SM25 | 100 | F70 | 2517 | 60 | 1610 | 42 | 197 | 178 | 180 | 94 | 42 |
| SM25 | 140 | F70 | 2517 | 60 | 1610 | 42 | 197 | 178 | 220 | 134 | 42 |
| SM25 | 180 | F70 | 2517 | 60 | 1610 | 42 | 197 | 178 | 260 | 174 | 42 |
| SM25 | 100 | F80 | 2517 | 60 | 2012 | 50 | 211 | 178 | 193 | 94 | 48 |
| SM25 | 140 | F80 | 2517 | 60 | 2012 | 50 | 211 | 178 | 233 | 134 | 48 |
| SM25 | 180 | F80 | 2517 | 60 | 2012 | 50 | 211 | 178 | 273 | 174 | 48 |
| SM25 | 140 | F90 | 2517 | 60 | 2517 | 60 | 235 | 178 | 235 | 134 | 48 |
| SM25 | 180 | F90 | 2517 | 60 | 2517 | 60 | 235 | 178 | 275 | 174 | 48 |
| SM30 | 140 | F100 | 3030 | 75 | 2517 | 60 | 254 | 216 | 269.5 | 134 | 60 |
| SM30 | 180 | F100 | 3030 | 75 | 2517 | 60 | 254 | 216 | 309.5 | 174 | 60 |
| SM30 | 140 | F110 | 3030 | 75 | 2517 | 60 | 279 | 216 | 369.5 | 134 | 60 |
| SM30 | 180 | F110 | 3030 | 75 | 2517 | 60 | 279 | 216 | 309.5 | 174 | 60 |
| SM35 | 140 | F120 | 3535 | 90 | 3020 | 75 | 314 | 248 | 297.5 | 134 | 75 |
| SM35 | 180 | F120 | 3535 | 90 | 3020 | 75 | 314 | 248 | 327.5 | 174 | 75 |
| SM35 | 140 | F140 | 3535 | 90 | 3535 | 90 | 359 | 248 | 296 | 134 | 80 |
| SM35 | 180 | F140 | 3535 | 90 | 3535 | 90 | 359 | 248 | 336 | 174 | 80 |

* F40 'B' Flange must be used to fit spacer shaft.

# FENNER TAPERLOCK® BUSHES


Using Fenner Taper Taper-Lock® Bushes, it is possible for unskilled labour to achieve 'shrink fit' of pulleys, coupling etc., onto shafts using only a hexagonal wrench.

The arrangement of half-threaded holes and longitudinally split tapered bushes ensures maximum grip and fast, easy fitting. Tightening of the screws into the threaded holes in the hub forces the bush into the taper bored components, thereby effectively contracting the bore of the Taper-Lock® Bush until the equivalent of a 'shrink fit' is obtained.

Taper-Lock® Bushes are suitable for metric as well as imperial shafts.

**ADVANTAGES**

- No reboring and keywaying costs.
- Saves time and cost in fitting.
- Eliminates precision taper fitting keys.
- 239 bush size/bore combinations are available.
- Interchangeable between many products.
- Taper bored components can be transferred to other diameter shafts by fitting alternative bore bushes.
- Convenience in dismantling for maintenance and component replacement.
- Accommodates shaft limits of +0.051 mm/-0.127mm.

The benefits of using Taper-Lock® Bushes can be extended to include components which have a parallel bore by incorporating Taper-Lock® Adaptors, Taper-Lock® Bolt-on Hubs or Taper-Lock® weld-on Hubs.

## TABLE 8

## METRIC BORES AND KEYWAYS

| Bore Dia. | Keyway Width | Keyway Depth | Shallow Keyway Depth | Catalogue Code Group 029 ... 1008 | 1108 | 1210 | 1215 | 1310 | 1610 | 1615 | 2012 | 2517 | 2525 | 3020 | 3030 | 3525 | 3535 | 4040 | 4545 | 5050 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9 | 3 | 1.4 | - | ...009 | 009 | | | | | | | | | | | | | | | |
| 10 | 3 | 1.4 | - | ...010 | 010 | | | | | | | | | | | | | | | |
| 11 | 4 | 1.8 | - | ...011 | 011 | 011 | 011 | | | | | | | | | | | | | |
| 12 | 4 | 1.8 | - | ...012 | 012 | 012 | 012 | | | | | | | | | | | | | |
| 14 | 5 | 2.3 | - | ...014 | 014 | 014 | 014 | 014 | 014 | 014 | 014 | | | | | | | | | |
| 16 | 5 | 2.3 | - | ...016 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | 016 | | | | | | | | |
| 18 | 6 | 2.8 | - | ...018 | 018 | 018 | 018 | 018 | 018 | 018 | 018 | 018 | | | | | | | | |
| 19 | 6 | 2.8 | - | ...019 | 019 | 019 | 019 | 019 | 019 | 019 | 019 | 019 | 019 | | | | | | | |
| 20 | 6 | 2.8 | - | ...020 | 020 | 020 | 020 | 020 | 020 | 020 | 020 | 020 | 020 | | | | | | | |
| 22 | 6 | 2.8 | - | ...022 | 022 | 022 | 022 | 022 | 022 | 022 | 022 | 022 | 022 | | | | | | | |
| 24 | 8 | 3.3 | 1.3 | ...024* | 024 | 024 | 024 | 024 | 024 | 024 | 024 | 024 | 024 | | | | | | | |
| 25 | 8 | 3.3 | 1.3 | ...025* | 025 | 025 | 025 | 025 | 025 | 025 | 025 | 025 | 025 | 025 | | | | | | |
| 28 | 8 | 3.3 | 1.3 | | 028* | 028 | 028 | 028 | 028 | 028 | 028 | 028 | 028 | 028 | | | | | | |
| 30 | 8 | 3.3 | - | | | 030 | 030 | 030 | 030 | 030 | 030 | 030 | 030 | 030 | | | | | | |
| 32 | 10 | 3.3 | 1.3 | | | 032* | 032* | 032 | 032 | 032 | 032 | 032 | 032 | 032 | | | | | | |
| 35 | 10 | 3.3 | 1.3 | | | | | 035* | 035 | 035 | 035 | 035 | 035 | 035 | 035 | 035 | 035 | | | |
| 38 | 10 | 3.3 | - | | | | | | 038 | 038 | 038 | 038 | 038 | 038 | 038 | 038 | 038 | | | |
| 40 | 12 | 3.3 | 1.3 | | | | | | 040* | 040* | 040 | 040 | 040 | 040 | 040 | 040 | 040 | 040 | | |
| 42 | 12 | 3.3 | 1.3 | | | | | | 042* | 042* | 042 | 042 | 042 | 042 | 042 | 042 | 042 | 042 | | |
| 45 | 14 | 3.8 | - | | | | | | | | 045 | 045 | 045 | 045 | 045 | 045 | 045 | 045 | | |
| 48 | 14 | 3.8 | - | | | | | | | | 048 | 048 | 048 | 048 | 048 | 048 | 048 | 048 | | |
| 50 | 14 | 3.8 | 2.8 | | | | | | | | 050* | 050 | 050 | 050 | 050 | 050 | 050 | 050 | | |
| 55 | 16 | 4.3 | - | | | | | | | | | 055 | 055 | 055 | 055 | 055 | 055 | 055 | 055 | |
| 60 | 18 | 4.4 | - | | | | | | | | | 060 | 060 | 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 | 070 |
| 75 | 20 | 4.9 | - | | | | | | | | | | | 075 | 075 | 075 | 075 | 075 | 075 | 075 |
| 80 | 22 | 5.4 | - | | | | | | | | | | | | | 080 | 080 | 080 | 080 | 080 |
| 85 | 22 | 5.4 | - | | | | | | | | | | | | | 085 | 085 | 085 | 085 | 085 |
| 90 | 25 | 5.4 | 3.4 | | | | | | | | | | | | | 090* | 090* | 090 | 090 | 090 |
| 95 | 25 | 5.4 | - | | | | | | | | | | | | | | | 095 | 095 | 095 |
| 100 | 28 | 6.4 | 5.4 | | | | | | | | | | | | | | | 100* | 100 | 100 |
| 105 | 28 | 6.4 | - | | | | | | | | | | | | | | | | 105 | 105 |
| 110 | 28 | 6.4 | - | | | | | | | | | | | | | | | | 110 | 110 |
| 115 | 32 | 7.4 | - | | | | | | | | | | | | | | | | | 115 |
| 120 | 32 | 7.4 | - | | | | | | | | | | | | | | | | | 120 |
| 125 | 32 | 7.4 | - | | | | | | | | | | | | | | | | | 125 |
| Nominal dia at large end of Taper | | | | 35.0 | 38.0 | 47.5 | 47.5 | 51.0 | 57.0 | 57.0 | 70.0 | 85.5 | 85.5 | 108.0 | 108.0 | 127.0 | 127.0 | 146.0 | 162.0 | 177.5 |
| Approx. Mass of Bush (Kg) | | | | 0.1 | 0.1 | 0.2 | 0.3 | 0.3 | 0.3 | 0.5 | 0.7 | 1.5 | 1.9 | 2.7 | 3.6 | 3.8 | 5.0 | 7.7 | 10 | 14 |



**Dimensions in millimeters**

Keyways are British Standard Metric B.S. 4235: Part 1:1972 and conform to I.S.O. recommendations except for the bore sizes 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 CENTRE.

**Note :** Taper-Lock® Bushes with imperial bores can also be supplied. Please consult Fenner.

# PRODUCT RANGE


Fenner

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14/32/2008-5k

# Essex
# Jaw Couplings

## Fenner PowerTran

# Essex Jaw Couplings

## SALIENT FEATURES

- Simple construction - quick easy installation - No special tools required.
- Flexible insert caters for incidental angular, parallel and axial misalignment.
- Absorbs shock loads and damps small amplitude vibration.
- Insert design presets correct distance between hubs, using raised pads on each leg of the insert.
- Available in a range of stock bore sizes. Can also be supplied with finished bore & keyway.
- Uaffected by moisture, grease and oils-including non-aromatic and non-ketone solvents and temperatures within the range - 40°C to + 100°C.
- Spacer coupling with spacer size depending upon the distance between two shaft ends (DBSE).

## SELECTION

**Details required for couplings selection**

1. Type of driven machine and operating hours per day.
2. Speed and power absorbed by driven machine (if absorbed power is not known, calculate on power rating of prime mover).
3. Diameter of shafts to be connected.
4. Distance between two shaft ends in case of spacer coupling.

## PROCEDURE

**a) Service Factor**
Determine the required service factor from table.

**b) Design Power**
Multiply the normal running power by the service factor. This gives the Design Power which is used as a basis for selecting the coupling.

**c) Coupling Size**
Depending upon the type of coupling required, refer to respective power rating tables. Power ratings can be interpolated in relation to speed parameters.

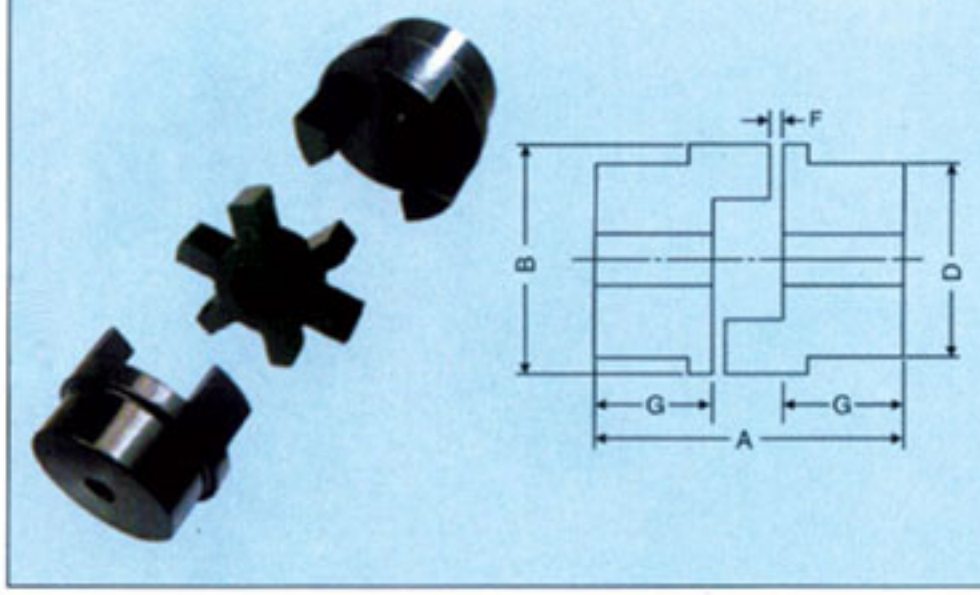
**d) Bore Size**
Check from the dimension table to see if bore capacity of the couplings is adequate. Otherwise select next higher size coupling.

## SERVICE FACTORS

| Type of Driven Machine | Type of Driving Unit | | |
|---|---|---|---|
| | Electric Motors & Steam Turbines | Internal Combustion Engines | |
| | | More than six cylinders | Less than six cylinders |
| **Uniform Load**<br>Agitators, Brewing machinery, Centrifugal compressors and pumps, Belt conveyors, Dynamometers, Lineshafts, Fans upto 7.5 kW, Blowers and exhausters except positive displacement, Generators. | 1.0 | 1.5 | 2.0 |
| **Moderate Shock**<br>Clay working machinery, General machine tools, Paper mill beaters and winders, Rotary pumps, Rubber extruders, Rotary screens, Textile machinery, Marine propellers and fans over 7.5 kW. | 1.5 | 2.0 | 2.5 |
| **Heavy Shock**<br>Bucket elevators, Cooling tower fans, Piston compressors and pumps, Foundry machinery, Metal presses, Paper mill calenders, Hammer mills, Presses and pulp grinders, Rubber calenders, Pulverisers and positive displacement blowers. | 2.0 | 2.5 | 3.0 |

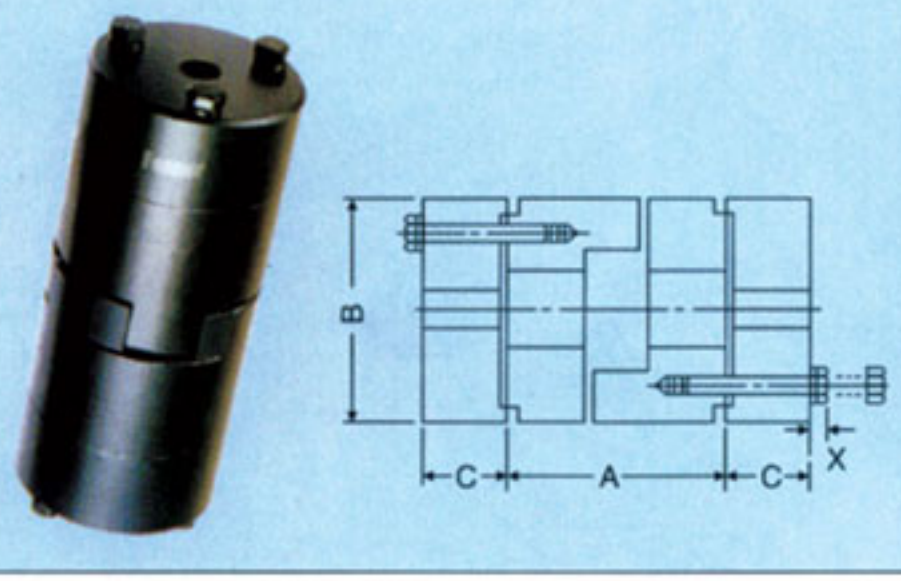
# Essex Jaw Couplings

## STANDARD COUPLINGS



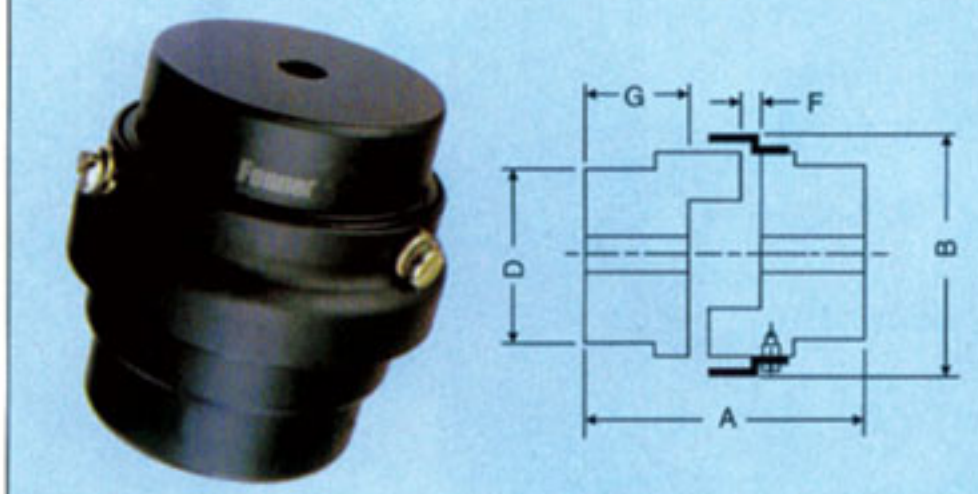

| Size | Power per 100 rev/min | Bore in mm | | Dimensions in mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | A | B | D | F | G |
| F - 095 | 0.21 | 15 | 28 | 63 | 54 | 49 | 2 | 25 |
| F - 099 | 0.39 | 20 | 30 | 72 | 65 | 51 | 2 | 27 |
| F - 0100 | 0.50 | 20 | 38 | 88 | 65 | 57 | 2 | 35 |
| F - 0110 | 0.92 | 20 | 42 | 108 | 85 | 76 | 3 | 43 |
| F - 0150 | 1.50 | 30 | 48 | 115 | 96 | 80 | 3 | 45 |
| F - 0190 | 2.02 | 36 | 55 | 133 | 115 | 102 | 3 | 54 |
| F - 0225 | 2.75 | 40 | 60 | 153 | 127 | 108 | 3 | 64 |

## STANDARD SPACER COUPLINGS



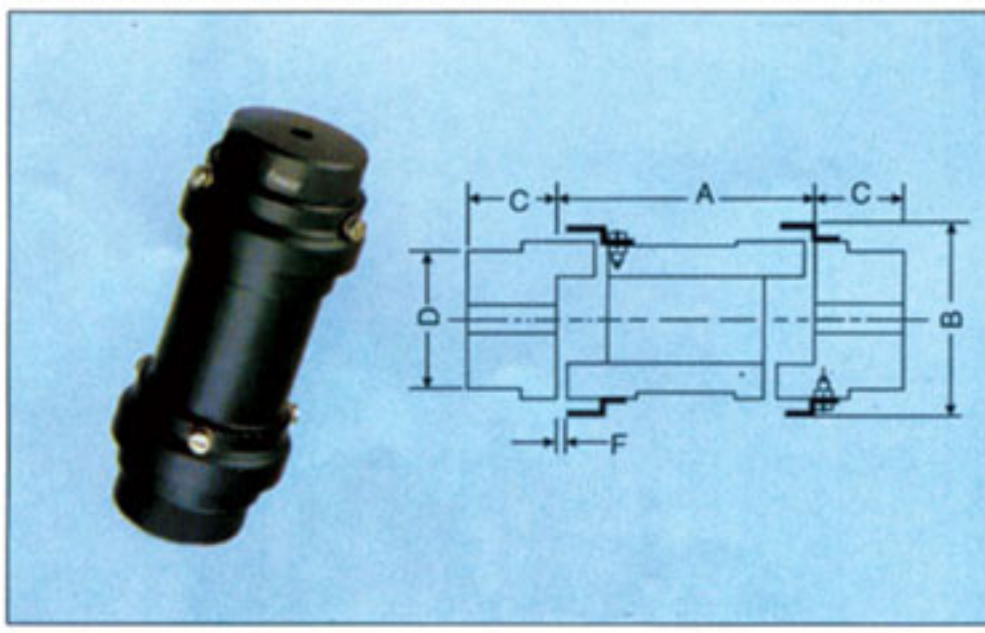

| Size | Power per 100 rev/min | Bore in mm | | Distance between shaft ends (DBSE) A | Dimensions in mm | | |
|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | | B | C | X |
| F-095 S | 0.21 | 15 | 28 | 90/100 | 54 | 25 | 6 |
| F-0100 S | 0.50 | 20 | 38 | 90/100/140 | 65 | 30 | 6 |
| F-0110 S | 0.92 | 20 | 42 | 90/100/140 | 85 | 35 | 8 |
| F-0150 S | 1.50 | 30 | 48 | 90/100/140 | 96 | 45 | 10 |
| F-0190 S | 2.02 | 36 | 55 | 90/100/140 | 115 | 51 | 10 |
| F-0225 S | 2.75 | 40 | 60 | 90/100/140 | 127 | 57 | 12 |

## EXTERNAL SPIDER COUPLINGS




| Size | Power per 100 rev/min | Bore in mm | | Dimensions in mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | A | B | D | F | G |
| F - 095 E | 0.23 | 15 | 23 | 63 | 64 | 49 | 2 | 25 |
| F - 099 E | 0.38 | 20 | 30 | 72 | 77 | 51 | 2 | 27 |
| F - 0100 E | 0.50 | 20 | 38 | 88 | 77 | 57 | 2 | 35 |
| F - 0110 E | 0.91 | 20 | 42 | 108 | 95 | 76 | 3 | 43 |
| F - 0150 E | 1.47 | 30 | 48 | 115 | 110 | 80 | 3 | 45 |
| F - 0190 E | 2.03 | 36 | 55 | 135 | 128 | 102 | 3 | 54 |
| F - 0225 E | 2.80 | 40 | 60 | 153 | 141 | 108 | 3 | 64 |

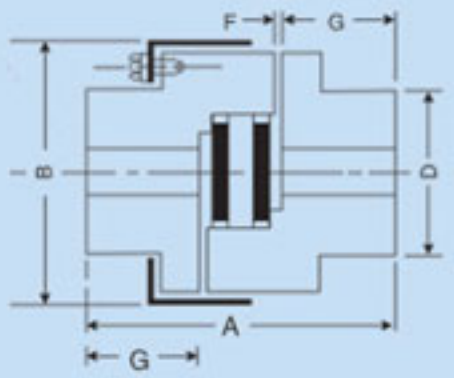
## EXTERNAL SPIDER ALUMINIUM SPACER COUPLINGS




| Size | Power per 100 rev/min | Bore in mm | | Distance between shaft ends (DBSE) A | Dimensions in mm | | | |
|---|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | | B | C | D | F |
| F-095 ES | 0.23 | 15 | 28 | 90/100/140 | 64 | 25 | 49 | 2 |
| F-0100 ES | 0.50 | 20 | 38 | 90/100/140 | 77 | 35 | 57 | 2 |
| F-0110 ES | 0.91 | 20 | 42 | 90/100/140 | 95 | 43 | 76 | 3 |
| F-0150 ES | 1.47 | 30 | 48 | 90/100/140 | 110 | 45 | 80 | 3 |
| F-0190 ES | 2.03 | 36 | 55 | 90/100/140 | 128 | 54 | 102 | 3 |
| F-0225 ES | 2.80 | 40 | 60 | 90/100/140 | 141 | 64 | 108 | 3 |

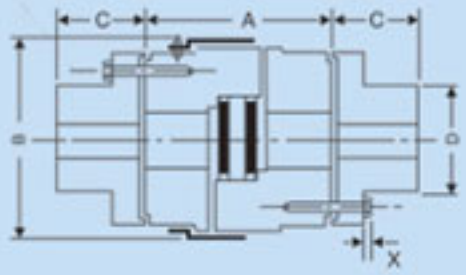
# Essex Jaw Couplings

## CUSHION COUPLINGS




| Size | Power per 100 rev/min | Bore in mm | | Dimensions in mm | | | | |
|---|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | A | B | D | F | G |
| F-0226 P | 3.45 | 25 | 65 | 178 | 143 | 115 | 3 | 70 |
| F-0276 P | 5.60 | 25 | 75 | 200 | 163 | 127 | 3 | 80 |
| F-0280 P | 8.20 | 30 | 75 | 200 | 200 | 140 | 3 | 80 |
| F-0295 P | 13.40 | 40 | 90 | 238 | 245 | 160 | 3 | 95 |
| F-02955 P | 22.40 | 50 | 100 | 264 | 245 | 180 | 3 | 108 |

## CUSHION SPACER COUPLINGS




| Size | Power per 100 rev/min | Bore in mm | | Distance between shaft ends (DBSE) A | Dimensions in mm | | | |
|---|---|---|---|---|---|---|---|---|
| | kW | Min. | Max. | | B | C | D | X |
| F-0226 PS | 3.45 | 25 | 65 | 135/140/180 | 145 | 50 | 134 | 12 |
| F-0276 PS | 5.60 | 25 | 75 | 135/140/180 | 165 | 60 | 130 | 12 |
| F-0280 PS | 8.20 | 30 | 75 | 135/140/180 | 200 | 60 | 130 | 14 |
| F-0295 PS | 13.40 | 40 | 90 | 135/140/180 | 249 | 65 | 160 | 16 |
| F-02955 PS | 22.40 | 50 | 90 | 135/140/180 | 249 | 80 | 160 | 16 |

## TYPICAL APPLICATIONS

Pumps including back-pull-out type, Conveyors, Elevators, Packaging Machinery, Food Processing Plants, Compressors, General Machine Tools, Blowers, Paper Mill Beaters and Calenders, etc.


**Fenner (India) Limited**

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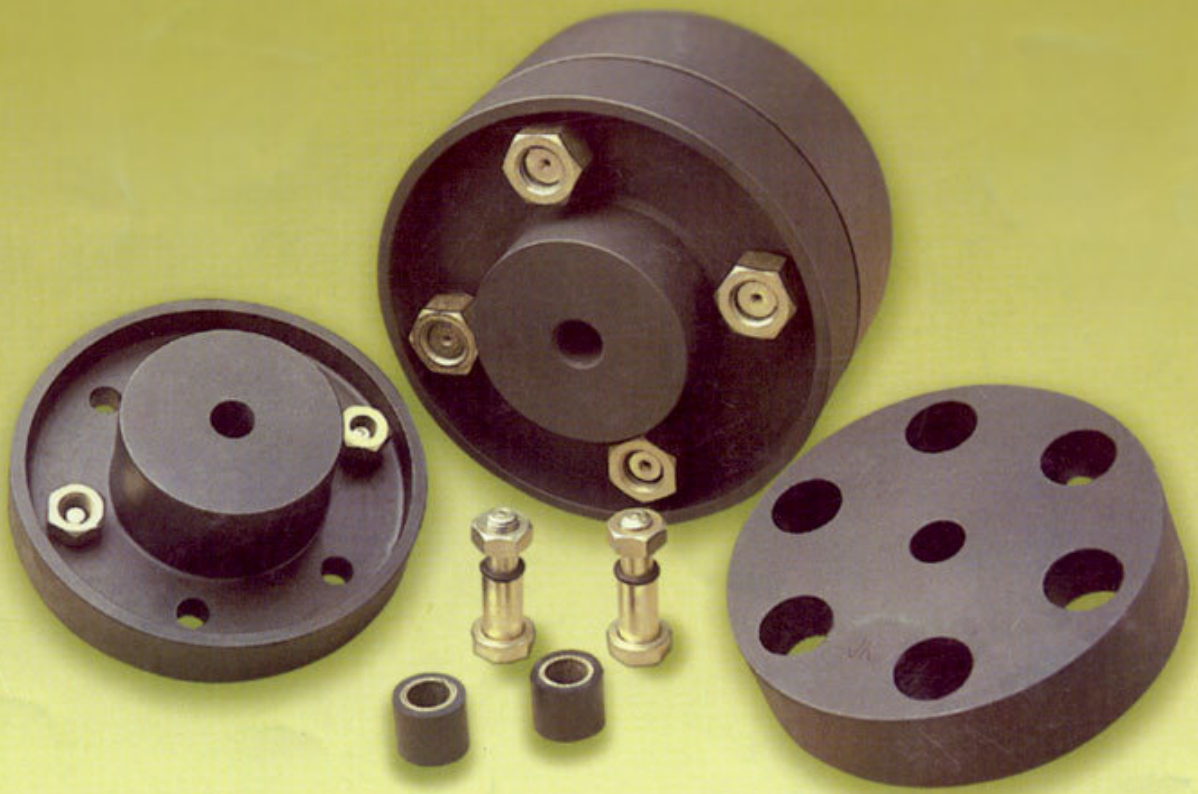
# Fenner Bush Type Flexible Couplings



Fenner

PowerTran

# BUSH TYPE FLEXIBLE COUPLING SELECTION

The function of a flexible coupling is to transmit torque from one shaft to another in cases where limited misalignment may occur and also to absorb shock loads.

The Fenner Bush Type Flexible Coupling of the cushioned drive type, transmits the torque through high tensile steel bolts to the machine input shaft. Highly developed rubber compounds are used in bushes to absorb shock loads, torsional vibrations and slight misalignments.

Simple and compact in construction, the Fenner Coupling is capable of transmitting high torques at maximum speeds. The flanges are manufactured with cast iron, grade 20 of IS. 210. This type of coupling permits drive in either direction and requires neither lubrication nor adjustment after fitting. The flexible bushes remain unaffected by water, dust and atmospheric conditions.

Machines which are to be coupled by flexible couplings should first be aligned with all possible accuracy. The capacity of the coupling will then deal with misalignments which occur by reason of temperature variations or heavy shaft loading. Setting of machine foundations or bearing wear will also cause extra loading to be imposed on the coupling. Any, or all of these conditions can occur once the machines have been coupled.

Flanges are bored to suit requirements and are keywayed to British Standard Specification, unless otherwise stated. They can also be supplied with the listed minimum bore to permit machining on site.

Power requirements for the standard couplings range from 0.81 Kw to 249 Kw at 100 r.p.m. and sizes from BC1 to NBC11

**Details required for coupling selection are :**

1. Type of driven machine and operating hours per day.
2. Speed and power absorbed by driven machine (If absorbed power is not known, it is calculated based on power rating of the prime mover).
3. Diameter of shafts to be connected.

**PROCEDURE :**

a) **Service Factor :** Determine the required service factor from Table 1.

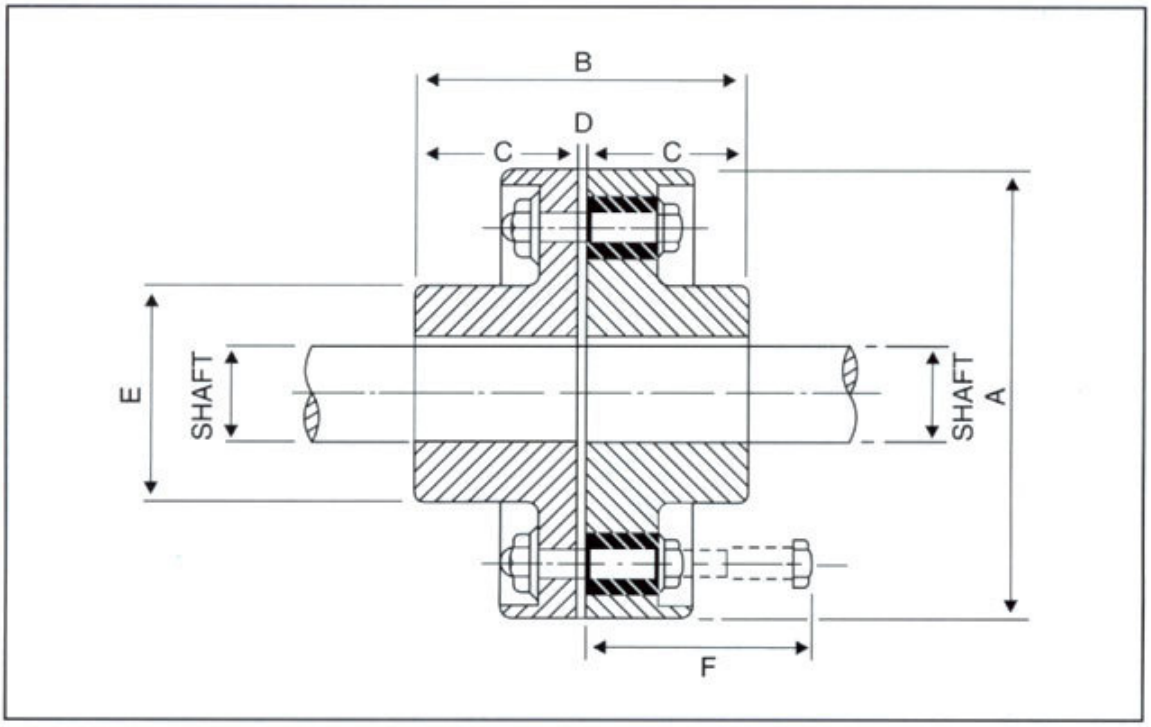
b) **Design Power :** Multiply the normal running power by the service factor. This gives the Design Power which is used as a basis for selecting the coupling.

c) **Coupling Size :** Refer to Table 3 and from the appropriate speed, read across until a power greater than that required in step (b) is found. The size of coupling required is given at the head of that column.

d) **Bore Size :** Check from dimension in Table 2, whether the chosen flanges can accommodate the required bores.

| TABLE 1 : SERVICE FACTORS | PRIME MOVER | | | | |
|---|---|---|---|---|---|
| DRIVEN MACHINE | Electric Motor Steam Trubine Shafting | Steam Engine Water Turbine | IC Engine Multi-Cylinder | IC Engine Single Cylinder Diesel Multi-Cylinder | Diesel Engine Single Cylinder |
| Even Torque Machines; Smooth Loads, Generators; Centrifugal Pumps; Blowers; Small Fans; Line Shafting. | 1.00 | 1.25 | 1.50 | 2.00 | 2.50 |
| Machine Tools (light); Beaters; Exhausters; Wood-working Machines (light); Alternators; Welding Generators; Textile Machines. | 1.25 | 1.50 | 1.75 | 2.25 | 2.75 |
| Multi-Crank Compressors and Pumps; Generators (fluctuating loads); Rotary Dryers & Screens; Rotary Compressors; Planers; Wood-Working Machines (heavy); Pulp Grinders; Shakers; Mine Fans | 1.50 | 1.75 | 2.00 | 2.75 | 3.00 |
| Wire Mills; Cement Mills; Small Printing Presses. | 1.75 | 2.00 | 2.25 | 3.00 | 3.25 |
| Single Crank Compressors & Pumps; Hammers; Ball & Tube Mills; Rolling Mills (light); Shearing Machines; Punches; Rock& Stone Crushers; Brick Making and similar Machines; Printing Presses (large); Grinders; Pulverisors; Cranes & Winches; Mechanical Shovels & Dredges; Winding Gears and Drums. | 2.00 | 2.25 | 2.50 | 3.25 | 3.50 |
| Heavy Rolling Mill Drives; Continuous, Prolonged & Reversing Drives; Severe Traction and Haulage Loads. | 2.25 | 2.50 | 2.75 | 3.50 | 3.75 |

# BUSH TYPE FLEXIBLE COUPLING SELECTION




## TABLE 2 : DIMENSIONS

| Size | No. of Pins | Torque Nm | Min. Bore (mm) | Max. Bore (mm) | Max. Speed rev/min | A | B | C | D | E | F |
|---|---|---|---|---|---|---|---|---|---|---|---|
| BC1 | 3 | 77 | 12.7 | 28 | 6100 | 95 | 79 | 38 | 3 | 40 | 58 |
| BC2 | 4 | 310 | 12.7 | 30 | 5100 | 114 | 99 | 48 | 3 | 42 | 70 |
| BC2A | 6 | 516 | 16 | 42 | 4400 | 130 | 105 | 51 | 3 | 60 | 70 |
| BC3 | 4 | 621 | 16 | 48 | 3600 | 160 | 107 | 51 | 5 | 68 | 114 |
| BC4 | 4 | 831 | 20 | 65 | 3000 | 191 | 125 | 60 | 5 | 90 | 114 |
| BC4A | 6 | 1241 | | | | | | | | | |
| BC5 | 6 | 1662 | 25 | 75 | 2600 | 225 | 157 | 76 | 5 | 105 | 114 |
| BC6 | 8 | 2359 | 45 | 95 | 2300 | 254 | 183 | 89 | 5 | 135 | 114 |
| BC6A | 10 | 2932 | | | | | | | | | |
| BC6B | 12 | 3533 | | | | | | | | | |
| NBC7 | 12 | 4154 | 60 | 115 | 1950 | 290 | 235 | 115 | 5 | 170 | 114 |
| NBC7A | 14 | 5195 | 60 | 120 | 1900 | 300 | 235 | 115 | 5 | 180 | 130 |
| NBC8 | 16 | 5816 | 65 | 130 | 1850 | 310 | 255 | 125 | 5 | 195 | 130 |
| NBC8A | 18 | 7268 | 65 | 135 | 1650 | 340 | 265 | 130 | 5 | 200 | 130 |
| NBC8B | 12 | 8729 | 70 | 140 | 1590 | 360 | 276 | 135 | 6 | 210 | 200 |
| NBC9 | 13 | 9932 | 80 | 150 | 1470 | 390 | 316 | 155 | 6 | 225 | 200 |
| NBC9A | 15 | 13274 | 90 | 160 | 1400 | 410 | 336 | 165 | 6 | 240 | 200 |
| NBC10 | 16 | 14420 | 100 | 170 | 1300 | 440 | 366 | 180 | 6 | 255 | 200 |
| NBC10A | 17 | 18050 | 110 | 180 | 1200 | 480 | 386 | 190 | 6 | 270 | 212 |
| NBC11 | 20 | 23780 | 120 | 190 | 1080 | 530 | 406 | 200 | 6 | 285 | 212 |

All dimensions are subject to alteration without notice

# BUSH TYPE FLEXIBLE COUPLING SELECTION

## TABLE 3 : POWER RATINGS (Kw)

| Speed rev/min | COUPLING SIZES | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BC1 | BC2 | BC2A | BC3 | BC4 | BC4A | BC5 | BC6 | BC6A | BC6B | NBC7 | NBC7A | NBC8 | NBC8A | NBC8B | NBC9 | NBC9A | NBC10 | NBC10A | NBC11 |
| 100 | 0.81 | 3.25 | 5.4 | 6.5 | 8.7 | 13 | 17.4 | 24.7 | 30.7 | 37 | 43.5 | 54.4 | 60.9 | 76.1 | 91.4 | 104 | 139 | 151 | 189 | 249 |
| 200 | 1.62 | 6.5 | 10.8 | 13 | 17.4 | 26 | 34.8 | 49.4 | 61.4 | 74 | 87 | 108.8 | 121.8 | 152.2 | 182.8 | 208 | 278 | 302 | 378 | 498 |
| 300 | 2.43 | 9.75 | 16.2 | 19.5 | 26.1 | 39 | 52.2 | 74.1 | 92.1 | 111 | 130.5 | 163.2 | 182.7 | 228.3 | 274.2 | 312 | 417 | 453 | 567 | 747 |
| 400 | 3.24 | 13 | 21.6 | 26 | 34.8 | 52 | 69.6 | 98.8 | 122.8 | 148 | 174 | 217.6 | 243.6 | 304.4 | 365.6 | 416 | 556 | 604 | 756 | 996 |
| 500 | 4.05 | 16.25 | 27 | 32.5 | 43.5 | 65 | 87 | 123.5 | 153.5 | 185 | 217.5 | 272 | 304.5 | 380.5 | 457 | 520 | 695 | 755 | 945 | 1245 |
| 600 | 4.86 | 19.5 | 32.4 | 39 | 52.2 | 78 | 104.2 | 148.2 | 184.2 | 222 | 261 | 326.4 | 365.4 | 456.6 | 548.4 | 624 | 834 | 906 | 1134 | 1494 |
| 700 | 5.67 | 22.75 | 37.8 | 45.5 | 60.9 | 91 | 121.8 | 172.9 | 214.9 | 259 | 304.5 | 380.8 | 426.3 | 532.7 | 639.8 | 728 | 973 | 1057 | 1323 | 1743 |
| 720 | 5.83 | 23.4 | 38.9 | 46.8 | 62.6 | 93.6 | 125.3 | 177.8 | 221 | 266.4 | 313.2 | 391.7 | 438.5 | 547.9 | 658 | 749 | 1001 | 1087 | 1361 | 1793 |
| 800 | 6.48 | 26 | 43.2 | 52 | 69.6 | 104 | 139.2 | 197.6 | 245.6 | 296 | 348 | 435.2 | 487.2 | 608.8 | 731.2 | 832 | 1112 | 1208 | 1512 | 1992 |
| 900 | 7.29 | 29.25 | 48.6 | 58.5 | 78.3 | 117 | 156.6 | 223.3 | 276 | 333 | 391.5 | 489.6 | 548.1 | 684.9 | 822.6 | 936 | 1251 | 1359 | 1701 | 2241 |
| 960 | 7.77 | 31.2 | 51.8 | 62.4 | 83.5 | 124.8 | 167 | 237.1 | 294.7 | 355.2 | 417.6 | 522.2 | 584.6 | 730.6 | 877.4 | 998 | 1334 | 1450 | 1814 | 2390 |
| 1000 | 8.1 | 32.5 | 54 | 65 | 87 | 130 | 174 | 247 | 307 | 370 | 435 | 544 | 609 | 761 | 914 | 1040 | 1390 | 1510 | 1890 | 2490 |
| 1200 | 9.72 | 39 | 64.8 | 78 | 104.4 | 156 | 208.8 | 296.4 | 368.4 | 444 | 522 | 652.8 | 730.8 | 913.2 | 1097 | 1248 | 1668 | 1812 | 2268 | |
| 1400 | 11.34 | 45.5 | 75.6 | 91 | 121.8 | 182 | 243.6 | 345.8 | 429.8 | 518 | 609 | 761.6 | 852.6 | 1065 | 1280 | | | | | |
| 1440 | 11.66 | 46.8 | 77.8 | 93.6 | 125.3 | 187.2 | 250.6 | 355.7 | 442 | 532.8 | 626.4 | 783.4 | 877 | 1096 | 1316 | | | | | |
| 1600 | 12.96 | 52 | 86.4 | 104 | 139.2 | 208 | 278.4 | 395.2 | 491 | 592 | 696 | 870.4 | 974.4 | 1218 | 1462 | | | | | |
| 1800 | 14.58 | 58.5 | 97.2 | 117 | 156.6 | 234 | 313.2 | 444.6 | 552.6 | 666 | 783 | 979.2 | | | | | | | | |
| 2000 | 16.2 | 65 | 108 | 130 | 174 | 260 | 348 | 494 | 614 | 740 | | | | | | | | | | |
| 2200 | 17.82 | 71.5 | 118.8 | 143 | 191.4 | 286 | 382.8 | 543.4 | 675.4 | 814 | | | | | | | | | | |
| 2400 | 19.44 | 78 | 129.6 | 156 | 208.8 | 312 | 417.6 | | | | | | | | | | | | | |
| 2600 | 21.06 | 84.5 | 140.4 | 169 | 226.2 | 338 | 452.4 | | | | | | | | | | | | | |
| 2800 | 22.68 | 91 | 151.2 | 182 | 243.6 | 364 | | | | | | | | | | | | | | |
| 2880 | 23.33 | 93.6 | 155.5 | 187.2 | 250.6 | 374.4 | | | | | | | | | | | | | | |
| 3000 | 24.3 | 97.5 | 162 | 195 | 261 | 390 | | | | | | | | | | | | | | |
| 3500 | 28.35 | 113.75 | 189 | 260 | | | | | | | | | | | | | | | | |
| 4000 | 32.4 | 130 | 216 | | | | | | | | | | | | | | | | | |
| 4500 | 36.45 | 146.25 | | | | | | | | | | | | | | | | | | |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