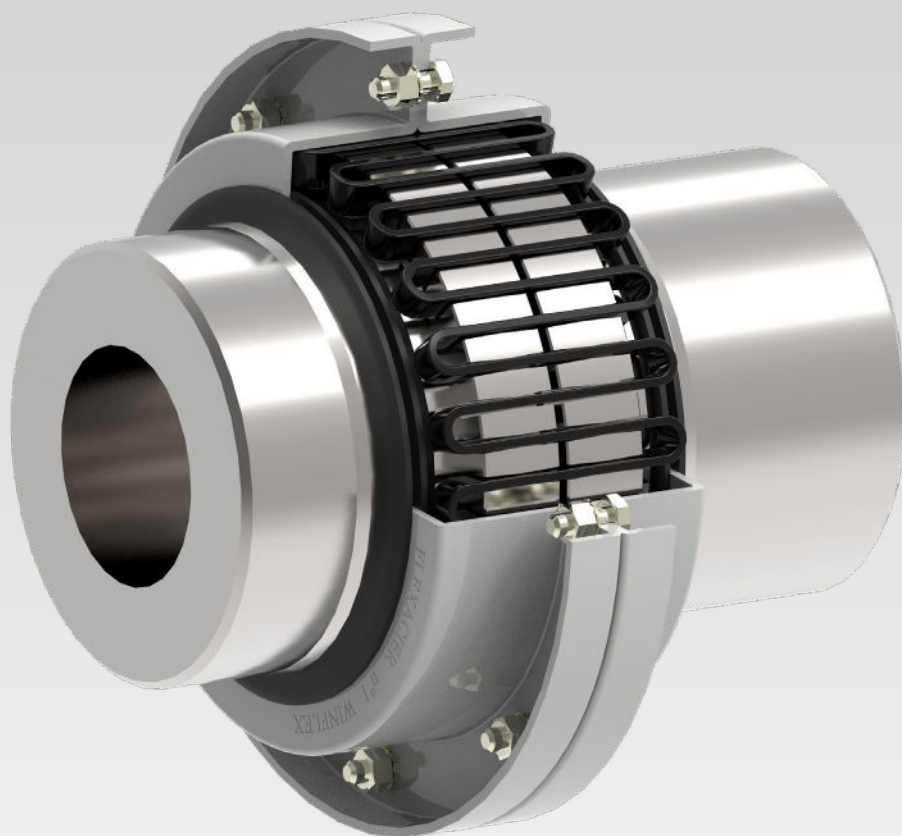




FLEXIBLE COUPLING

Winflex[®]



www.cmd-couplings.com





Technical Description

The winflex coupling offers the best value for money.

Many years of experience are behind the perfection of this coupling.

Made of 100% steel, it can be used in severe conditions (-20°C/+110°C).

Due to the special profile of the grooves, the pressure between the spring and the hub remains constant. The contact area between the spring and the hub increases proportionally with the increase of load. The torsional stiffness is progressive.

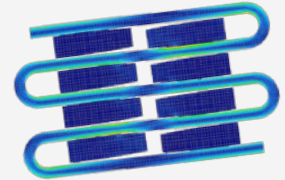
The large number of teeth and the elasticity of the spring make it possible to absorb any over-torque or shock efficiently and without damage.

No significant reaction on the bearings thanks to the "floating" mounting of the cover and spring grid.

The strain on the spring is always in the direction of the fibres of the material and within its elastic range.

Surface treatment prevents oxidation, improves friction and reduces wear.

Longer life cycle (based on CMD recommendations in the winflex T assembly, Lubrication and Maintenance Manual, for intervals between two maintenance operations of up to 40,000 hours or 5 years).

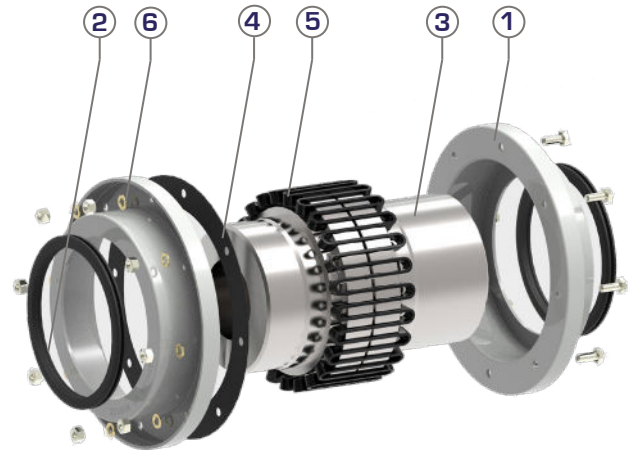
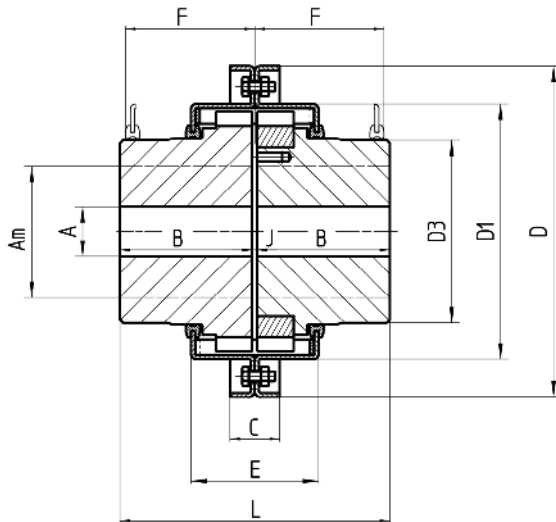


Applications

| | SF |
|--|------|
| <i>Centrifugal mixers, pumps, ventilators and compressors, converter groups without overload...</i> | 1* |
| <i>Rotary compressors, bucket conveyors, positive displacement pumps, elevators...</i> | 1,25 |
| <i>Paper mills, rewinders, unwinders, uniform load conveyors, cane mills with turbines and speed reducers...</i> | 1,50 |
| <i>Hammer mills, handling cranes, punching machines, presses, circular saws, planers, calenders...</i> | 1,75 |
| <i>Small and medium cement kilns, wire rolling mills, calenders, converter units with overload, slicers, inclined or unevenly loaded conveyors, rollers, port cranes, drawer benches, shears, cutters, mills, fans for cooling towers...</i> | 2,00 |
| <i>Strip mills, defibrators, ball mills, internal and external mixers, rolling mills, cement kilns, kiln loaders, strippers, ingot moulds...</i> | 2,50 |
| <i>Pinch rollers, pumps and reciprocating compressors...</i> | 3,00 |

* Only applicable for installation with max. torque less than 1.5 x basic coupling torque.

Dimensions



| Number | Part name |
|--------|-----------------|
| 1 | Half cover |
| 2 | Seal |
| 3 | Hub |
| 4 | Gasket |
| 5 | Spring grid |
| 6 | Nuts and screws |

Size Z to 95

Horizontal or vertical operating position

| SIZES | | Z | 000 | 00 | 0 | 1 | 2 | 5 | 9 | 16 | 28 | 43 | 70 | 95 |
|-------------------------------|---------------------|---------------------------------|---------------------------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|
| Nominal torque | Nm | 90 | 190 | 380 | 950 | 1900 | 3800 | 8500 | 12500 | 24000 | 48000 | 70000 | 120000 | 160000 |
| Key fitting | Am | 28 | 38 | 55 | 55 | 80 | 110 | 105 | 130 | 180 | 230 | 230 | 230 | 270 |
| Shrink fitting | | - | - | 45 | 45 | 60 | 100 | 90 | 110 | 170 | 200 | 220 | 220 | 250 |
| Stock bore | A | - | - | - | - | - | - | - | - | - | 75 | 85 | 95 | 105 |
| B** | T | 50 | 60 | 60 | 60 | 80 | 80 | 110 | 110 | 130 | 155 | 180 | 200 | 230 |
| | TL,TL2 | - | - | - | 110 | 110 | 110 | 170 | 195 | 195 | 225 | 260 | 280 | 300 |
| | C | 20 | 30 | 30 | 30 | 30 | 30 | 36 | 36 | 42 | 44 | 50 | 50 | 50 |
| | D | 92 | 130 | 158 | 165 | 200 | 250 | 265 | 307 | 395 | 494 | 595 | 595 | 670 |
| | DI | 68 | 88 | 113 | 120 | 154 | 203 | 212 | 253 | 330 | 427 | 522 | 528 | 598 |
| | D3 | 39 | 51 | 76 | 76 | 110,5 | 158 | 146 | 183 | 253 | 330 | 330 | 330 | 380 |
| | E | 57 | 58 | 58 | 77 | 77 | 78 | 123 | 123 | 124 | 125 | 125 | 200 | 206 |
| | F | 58 | 59 | 59 | 78 | 78 | 79 | 125 | 125 | 125 | 126 | 126 | 201 | 201 |
| | J | 2 ⁺¹ _{-0,5} | 2 ⁺¹ _{-0,5} | 2 ^{+0,5} _{-0,5} | 2 ^{+0,5} _{-0,5} | 3 ⁺¹ ₋₁ | 3 ⁺¹ ₋₁ | 3 ⁺¹ ₋₁ | 3 ⁺¹ ₋₁ | 3 ⁺¹ ₋₁ | 4 ^{+0,5} _{-0,5} | 4 ^{+0,5} _{-0,5} | 4 ^{+0,5} _{-0,5} | 4 ^{+0,5} _{-0,5} |
| | L | 102 | 122 | 122 | 122 | 163 | 163 | 223 | 223 | 263 | 314 | 364 | 404 | 464 |
| Number of segments | | 1 | 1 | 1 | 2 | 2 | 2 | 4 | 4 | 4 | 6 | 8 | 8 | 8 |
| Number of layers | | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Weight of complete T coupling | Kg | 1,84 | 3,7 | 6,6 | 7,8 | 16,6 | 31 | 42 | 63 | 125 | 245 | 327 | 409 | 579 |
| J solid hub T model | Kgm ² | 0,0011 | 0,0037 | 0,0105 | 0,0135 | 0,04 | 0,14 | 0,20 | 0,45 | 1,5 | 4,65 | 8,25 | 11,5 | 20,25 |
| Max. speed | Without balancing | 4500 | 4500 | 3650 | 3450 | 2640 | 1880 | 1880 | 1570 | 1200 | 920 | 750 | 750 | 650 |
| | With dyn. balancing | - | - | 4500 | 4500 | 4000 | 3600 | 3200 | 3000 | 2500 | 2000 | 1500 | 1500 | 1250 |
| Weight of grease | kg | 0,06 | 0,09 | 0,11 | 0,17 | 0,3 | 0,35 | 1 | 1,3 | 1,6 | 1,8 | 2 | 4,5 | 8 |

** Model : T = 2 short hubs
 TL = 1 short hub, 1 long hub
 TL2 = 2 long hubs

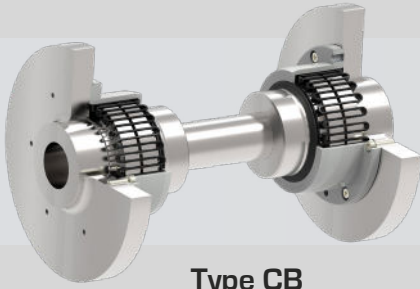
Sizes (in mm) are given for reference only and may be modified without notice.



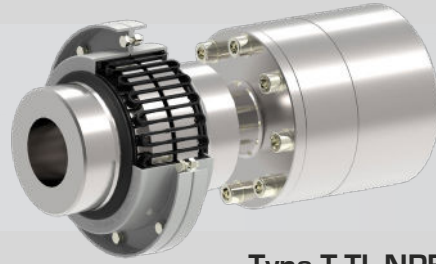
For further INFORMATION or ENQUIRIES:
couplings@cmdgears.com



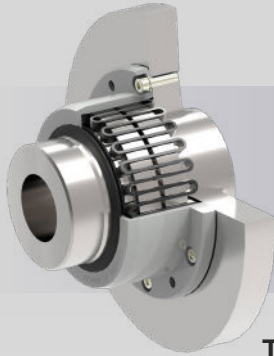
Variations



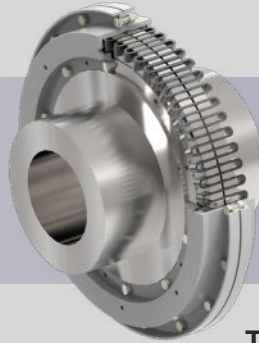
Type CB
With extended shaft



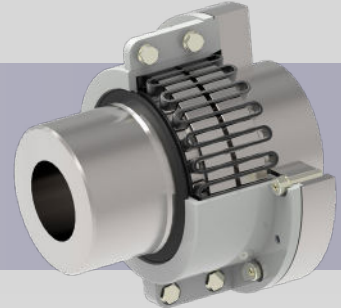
Type T.TL.NPE
With spacer



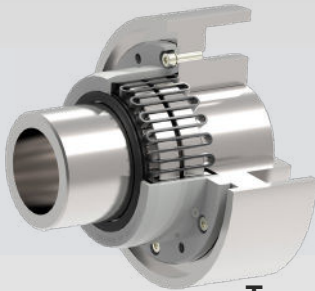
Type BSA/BSAT
With integrated cover, for
adaptation on pulley / flywheel...



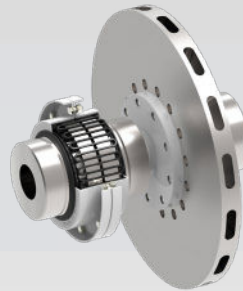
Type S
For high torques



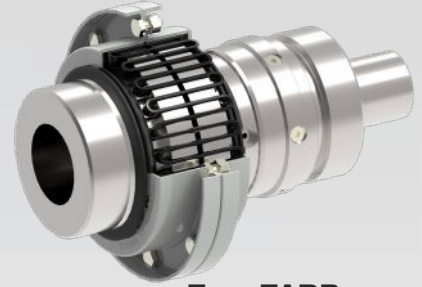
Type JDA/JDAT
With integrated two-part
cover



Type CPF
With brake pulley



Type TDF
With brake disk



Type TADB
Automatically disengageable



French design & manufacture



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