



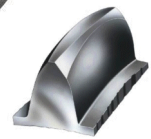
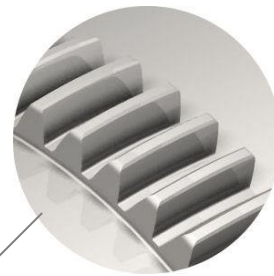
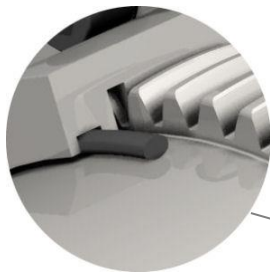
flexident[®] senior



Fasteners class 12.9 allow torque transmission by adhesion.

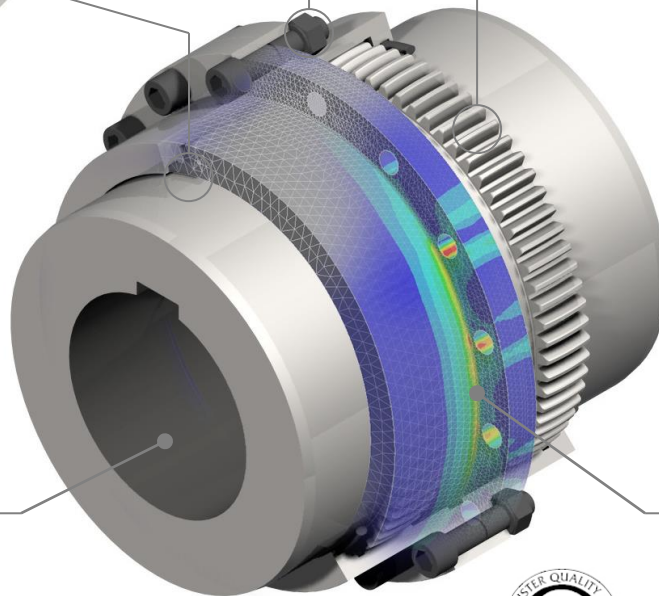
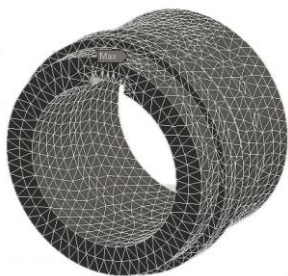
Special gear teeth realized in order to increase the contact surface and to limit the superficial pressure.

Tightness with standard o-rings that guarantee the long life of couplings.

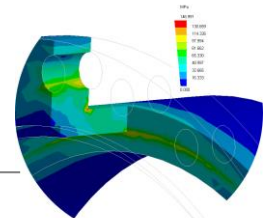


Special Shape of tooth in order to limit noise and vibrations interferences.

Gear Hub:
 Bore hub capacity up to 800 mm optimization by finite elements.



Ring Gear:
 Gear Teeth optimized by finite elements.



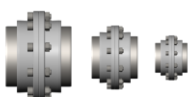
ISO 9001



Available according ATEX standards



High misalignment 1°30' for sizes 50 to 280
 Misalignment of 1° by meshing for sizes 310 up to 800



24 Sizes of entire steel coupling from 1 200 to 4 500 000 Nm.

Coupling Selection

A) Calculation of Corrected Torque: $\text{Corrected Torque} = \text{Absorbed T} \times \text{SF} = \frac{9550 \times P \text{ Abs (kW)}}{\text{Speed rpm}} \times \text{SF}$
 (Choice of the Service Factor SF – See following Data)

B) Selection: Choose the coupling size that has a nominal torque equal or superior to the Corrected Torque.

C) Checking: Check the maximum boring and speed capacities

| Service Factors Table | FS Δ | FS □ | FS O |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|------------|
| Uniform load, no shocks T max ≤ 1,5 T. Few start-up. - Generators, centrifugal pumps and compressors, small fans... | 1 | 1,12 | ** 1,25 |
| Uniform load, light shocks. T max < 1,8 T. Light and short overload. - Agitators and mixers for liquid or semi liquid, light textile machinery, rotary machines tools, light duty conveyors... | 1,12 | 1,25 | ** 1,40 |
| Non uniform load, moderate shocks. T max ≤ 2,2 T. Short time quite heavy overload. - Agitators or mixers for liquid and solid, elevators, overhead cranes, cranes in machining shops, cranes winches, card machine, dry can, loom, cloth finishing machine, extruder, hammer mill, tumbling mill, auxiliary drives for rolling mills, wire drawing machines... | 1,25 | 1,40 | ** 1,60 |
| Non uniform load, heavy shocks frequently. T max ≤ 3 T. High overload, reverse motion. - Compressors with flywheel, reciprocating, draw bench, cold mill ban bury mixers, mixing mills, tire building machine, washers, barking drums, chippers, generators..., welder load... | 1,60 | 1,80 | ** 2 |
| Non uniform load, very heavy shocks, very frequently. T max from 3 to 3,5 T. Very high overload. Reverse motion - hot mill application, , conveyors, live roll, shaker and reciprocating, skelp mills, gang raw (reciprocating), vibrating screen... | 2 | 2,25 | *** 2,5 |

Δ : Drive per motor Electric or turbine

□ : Drive per motor Hydraulic

O : Drive per motor multi cylinders internal combustion

** *Mass elastic study advised*

*** *Mass elastic study necessary*

Example of Selection

Application : Cement Crusher Service Factor (Sf) = 1.25

Input Coupling

Input torque: 197 Nm
Corrected torque: $197 \times 1.25 = 246.25$ Nm
Diameter of auxiliary gearbox shaft: 45 mm
Diameter of motor shaft: 55 mm
Coupling selection: **S68**
Page 6

Output Coupling

Output Torque: 27 705 Nm
Corrected Torque:
 $27\ 705 \times 1.25 = 34\ 632$ Nm
Ø Diameter of main gearbox shaft: 140 mm
Ø Diameter of auxiliary gearbox shaft: 145 mm
Coupling selection: **S170DB**
Page 19

Electric motor of inching drive

P = 30 kW
Speed = 1450 rpm
Application: Cement crusher
Sf: 1.25 (according table page 3)

Inching drive reducer **ERmaster R4HC34**
Reduction ratio: 140.23

Main electric motor

Power = 2400 kW
Speed = 980 rpm
Application: Cement plant crusher
Sf 1.25 (according table page 3)

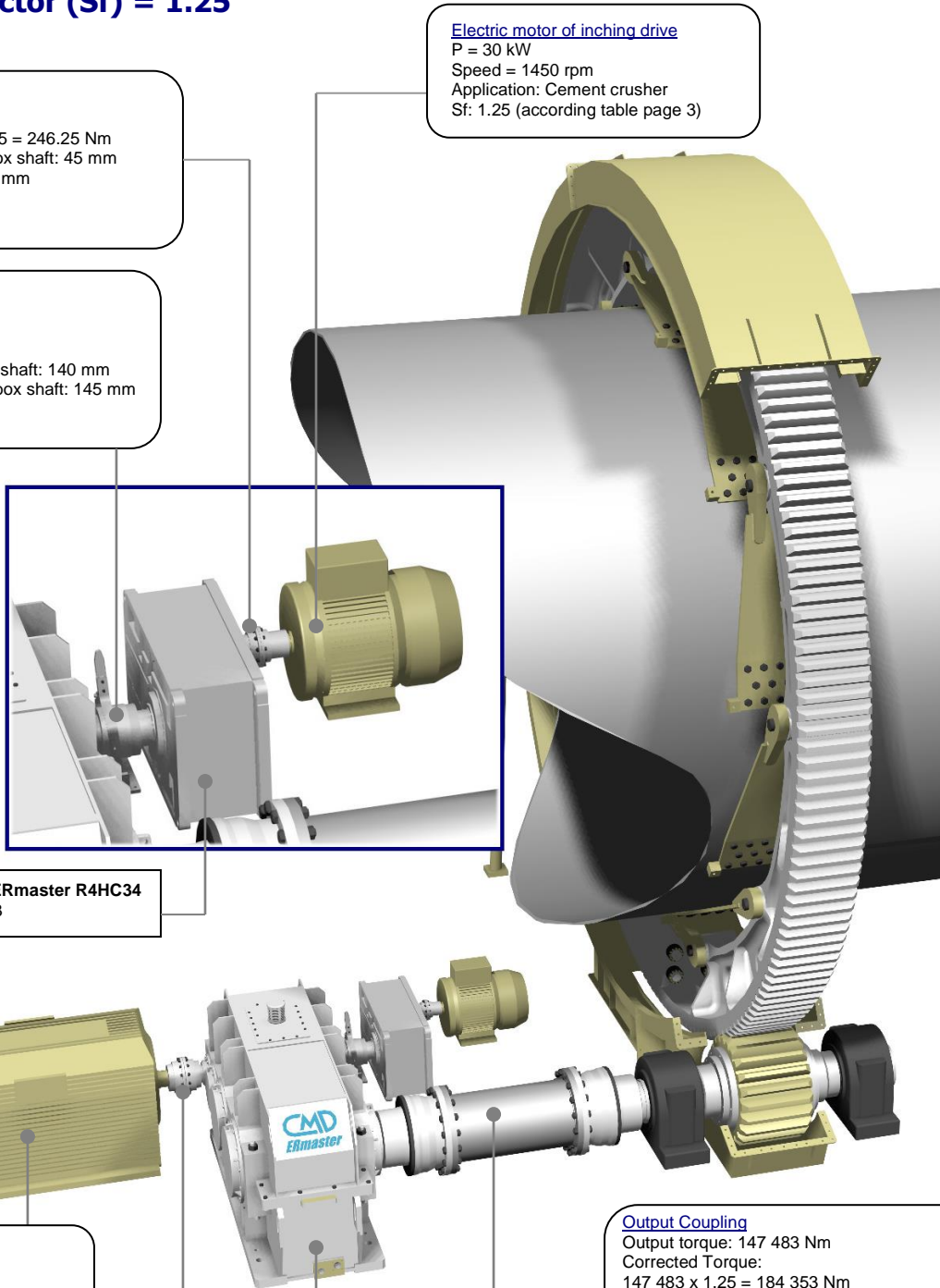
Input coupling

Input Torque: 23 387 Nm
Corrected Torque:
 $23\ 387 \times 1.25 = 29\ 233$ Nm
Diameter of gearbox shaft: 140 mm
Diameter of motor shaft: 130 mm
Coupling selection: **S150**
Page 6

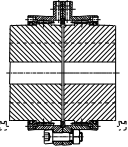

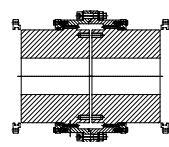
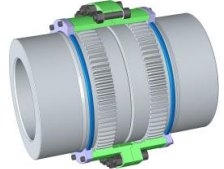
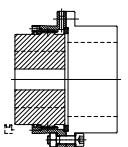
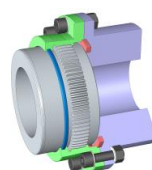
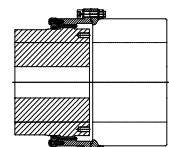
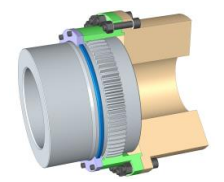
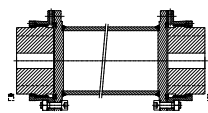
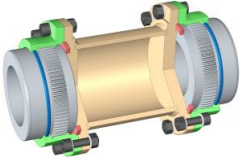
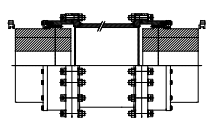
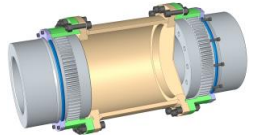
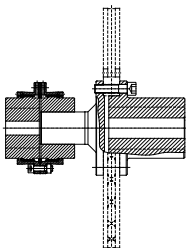
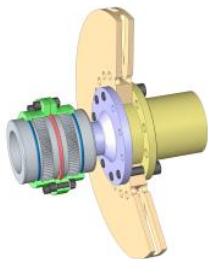
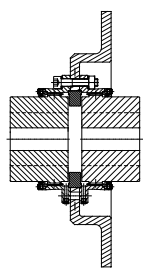
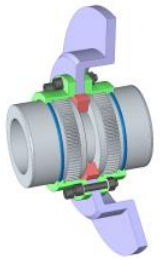
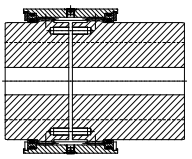
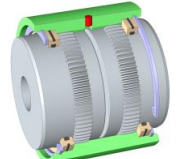
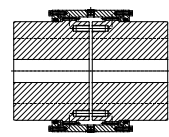
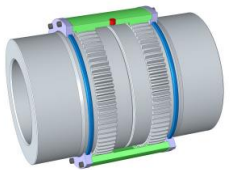
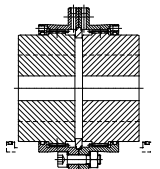
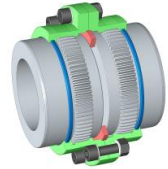
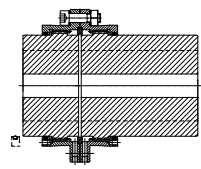
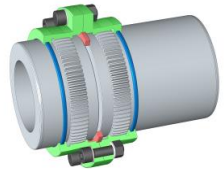
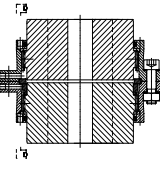
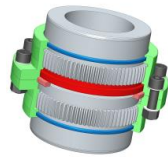
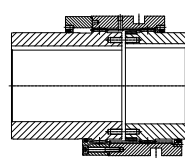
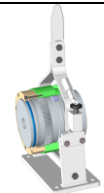
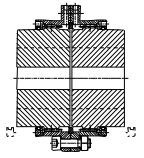

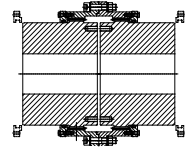
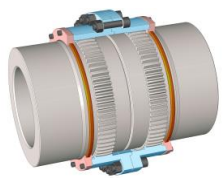
Output Coupling

Output torque: 147 483 Nm
Corrected Torque:
 $147\ 483 \times 1.25 = 184\ 353$ Nm
Diameter of gearbox shaft: 250 mm
Diameter of pinion shaft: 260 mm
Distance between end shafts 5000 mm
Coupling selection: **S280 E 5000**
Page 10

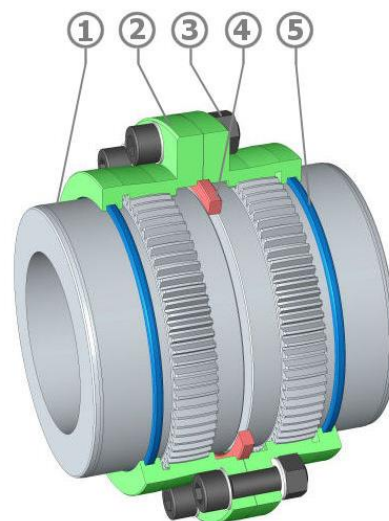
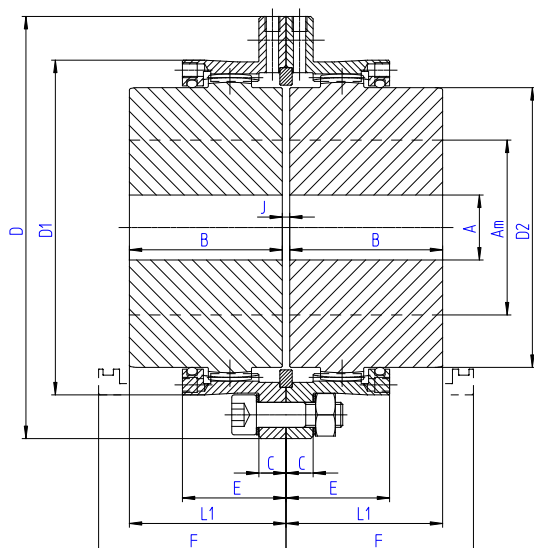
Main gearbox: **ERmaster R2HC50**
Ratio: **6.306**



Standard models for general applications

| | | | | | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
|  | <p>Type S page 6 Nominal Torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S page 7 Nominal torque: 255 000 up to 4 950 000 Nm Max bore : 310 up to 800 mm</p> |  |
|  | <p>Type S PA page 8 Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S PA page 9 Nominal torque: 255 000 up to 4 950 000 Nm Max bore : 310 up to 800 mm</p> |  |
|  | <p>Type S E page 10 Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S E page 11 Nominal torque: 255 000 up to 4 950 000 Nm Max bore : 310 up to 800 mm</p> |  |
|  | <p>Type S DF page 12 Application for brake disc Nominal torque: 3 000 up to 43 000 Nm Max bore : 68 up to 170 mm</p> |  |  | <p>Type S DFC page 13 Application for brake disc elbow Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |
|  | <p>Type S BM page 14 Monobloc cover Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S BM page 15 Monobloc cover Nominal torque: 255 000 up to 4 950 000 Nm Max bore : 310 up to 800 mm</p> |  |
|  | <p>Type S JL page 16 Limited end float Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S ML-ML2 page 17 Long hub Nominal torque: 1 200 up to 138 000 Nm Max bore : 50 up to 250 mm</p> |  |
|  | <p>Type S V page 18 Vertical mounting Nominal torque: 1 200 up to 190 000 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S DB page 19 Clutch system Nominal torque: 1 200 up to 138 000 Nm Max bore : 50 up to 250 mm</p> |  |
|  | <p>Type S R page 20 Reinforced Coupling Nominal torque: 1 855 up to 302 450 Nm Max bore : 50 up to 280 mm</p> |  |  | <p>Type S R page 21 Reinforced Coupling Nominal torque: 400 000 up to 7 780 000 Nm Max bore : 310 up to 800 mm</p> |  |

Type S – Horizontal working position



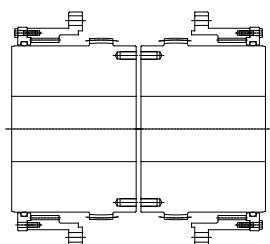
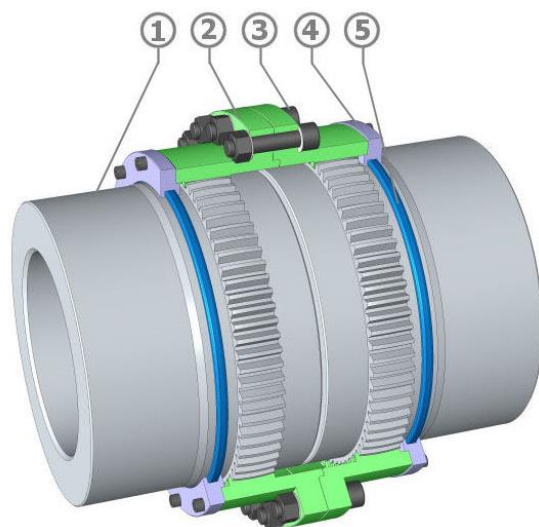
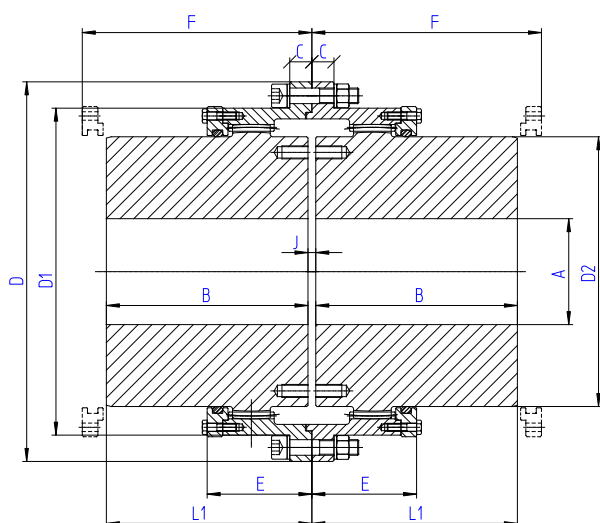
| Item | Designation |
|------|----------------------------------------------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring supplied only if vertical or balanced execution |
| 5 | Seal |

Example of designation **S80**
SENIOR coupling size 80

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
|--------------------|-----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 | |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 | |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 | |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 | |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 | |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 | |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 | |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 | |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 | 139 | |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 | 343 | |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | 315 | |
| | Weight • | Kg | 3,7 | 7,7 | 13,2 | 23,5 | 36,7 | 59 | 84 | 119 | 164 | 243 | 300 | 406 | 616 |
| | Moment of Inertia J • | Kgm ² | 0,004 | 0,012 | 0,030 | 0,079 | 0,166 | 0,368 | 0,649 | 1,141 | 1,962 | 3,63 | 5,18 | 8,08 | 13,07 |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 | |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 | |
| Weight of grease ▽ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,6 | 0,8 | 1 | 1,7 | 2,2 | 2,9 | 3,8 | 4 | |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ▽ Per coupling

Type S – Horizontal working position



Inspection of the gear teeth is possible without having to remove the covers

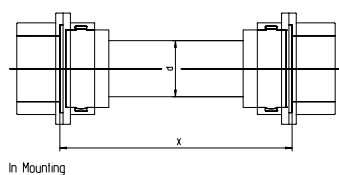
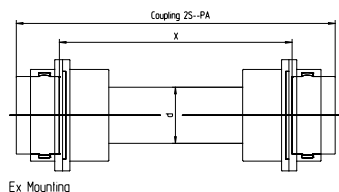
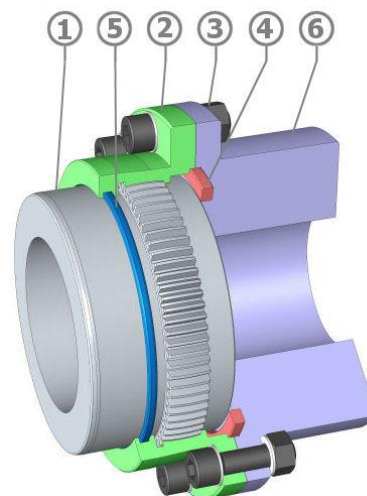
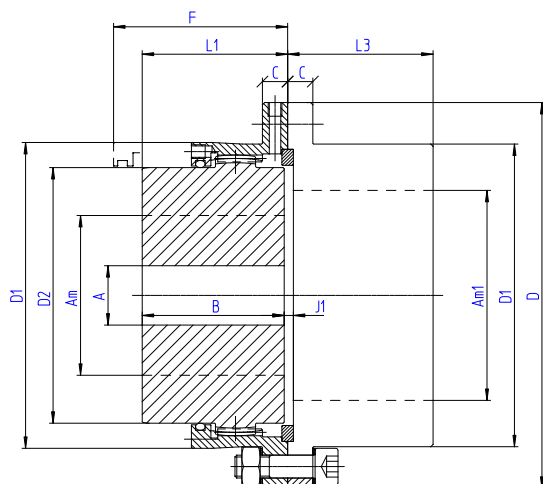
| Item | Designation |
|------|----------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Cover |
| 5 | Seal |

Example of designation **S310**
SENIOR coupling size 310

| Size | | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
|----------------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Nominal Torque | Nm | 255000 | 320000 | 410000 | 525000 | 670000 | 850000 | 1100000 | 1400000 | 1800000 | 2400000 | 3200000 | 3750000 | 4950000 |
| Max Bore | Am* | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| | Am** | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| Rough bore | A | 163 | 176 | 191 | 240 | 257 | 279 | 304 | 329 | 358 | 394 | 434 | 457 | 501 |
| | B | 310 | 330 | 350 | 370 | 430 | 480 | 505 | 515 | 535 | 575 | 610 | 650 | 700 |
| | C | 34 | 34 | 39 | 43 | 47 | 56 | 56 | 55 | 65 | 70 | 70 | 70 | 75 |
| | D | 575 | 608 | 676 | 735 | 793 | 940 | 990 | 1100 | 1225 | 1285 | 1395 | 1450 | 1555 |
| | D1 | 494 | 518 | 576 | 637 | 695 | 785 | 840 | 910 | 1000 | 1060 | 1170 | 1225 | 1295 |
| | D2 | 411 | 438 | 492 | 535 | 581 | 645 | 700 | 770 | 835 | 890 | 975 | 1030 | 1095 |
| | E | 155 | 166 | 166 | 190.5 | 204 | 212 | 250 | 250 | 270 | 305 | 335 | 345 | 385 |
| | J | 12 | 12 | 12 | 15 | 15 | 16 | 20 | 20 | 25 | 25 | 30 | 30 | 30 |
| | F | 350 | 370 | 395 | 420 | 478 | 550 | 570 | 575 | 600 | 640 | 680 | 720 | 770 |
| | L1 | 316 | 336 | 356 | 377.5 | 437.5 | 488 | 515 | 525 | 547.5 | 587.5 | 625 | 665 | 715 |
| Weight • | Kg | 805 | 957 | 1261 | 1613 | 2191 | 3091 | 3825 | 4676 | 5833 | 7101 | 9025 | 10522 | 12927 |
| Moment of Inertia J• | Kgm² | 21.9 | 29.1 | 47.6 | 74.1 | 116.9 | 215.3 | 307.4 | 449.9 | 687.4 | 936 | 1419.4 | 1795.7 | 2512.1 |
| Max speed (rpm) | | 903 | 857 | 760 | 696 | 643 | 573 | 542 | 495 | 446 | 418 | 377 | 358 | 341 |
| | y | 2409 | 2285 | 2026 | 1857 | 1714 | 1528 | 1445 | 1320 | 1188 | 1114 | 1005 | 955 | 909 |
| Weight of grease ▽ | Kg | 6.2 | 6.6 | 7.9 | 11 | 13.5 | 18.2 | 22.3 | 23.8 | 30.5 | 37.1 | 48.5 | 62.2 | 73.5 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ▽ Per coupling

Type P-PA – Horizontal working position



X: Distance between end shafts
X and d are defined according the needs

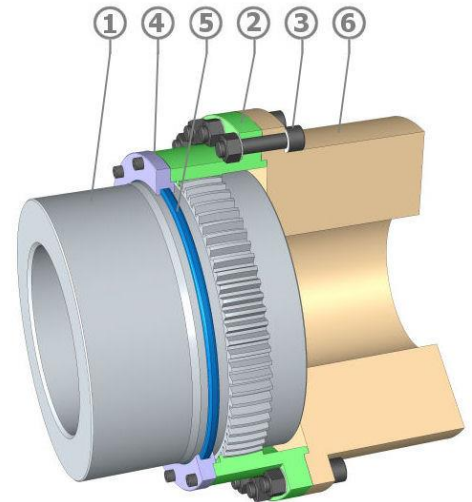
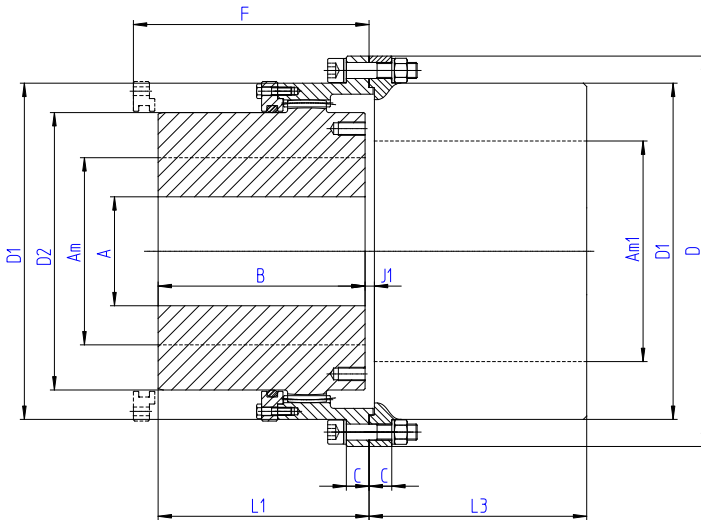
| Item | Designation |
|------|----------------------------------------------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring supplied only if vertical or balanced execution |
| 5 | Seal |
| 6 | Solid hub |

Example of designation **2 S 80 PA 1000 In SENIOR** size 80, composed with two half couplings **S80 P** with a shaft spacer whose length **X = 1000 In Mounting** (rigid hubs set up at the ends)
Ex Mounting (gear hubs set up at the ends)

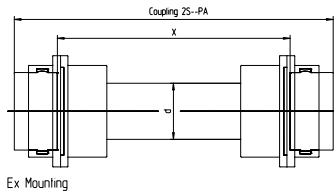
| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 |
| | Am1* | 60 | 80 | 95 | 115 | 135 | 155 | 175 | 190 | 220 | 250 | 265 | 290 | 310 |
| | Am1** | 55 | 75 | 85 | 110 | 125 | 145 | 160 | 180 | 205 | 230 | 250 | 270 | 280 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 |
| | J1 | 3,5 | 4 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 10 | 11,5 | 12,5 | 12,5 |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 | 343 |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | 315 |
| | L3 | 45 | 52,5 | 64,5 | 78,5 | 93,5 | 109 | 125 | 140 | 156 | 181 | 197,5 | 227,5 | 317,5 |
| Weight • | Kg | 4,5 | 9,1 | 15,6 | 27,6 | 43,5 | 70 | 99 | 139 | 193 | 281 | 352 | 472 | 712 |
| Moment of Inertia J• | Kgm ² | 0,005 | 0,017 | 0,041 | 0,106 | 0,220 | 0,484 | 0,861 | 1,493 | 2,6 | 4,74 | 6,85 | 10,6 | 17,16 |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 |
| Weight of grease ▽ | Kg | 0,028 | 0,058 | 0,085 | 0,17 | 0,26 | 0,41 | 0,57 | 0,73 | 1,15 | 1,50 | 2,10 | 2,60 | 3 |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • For couplings S..P - Solid hubs
 y Dynamically balanced
 ▽ Per coupling S..P

Type P-PA – Horizontal working position

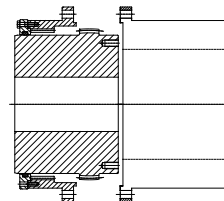
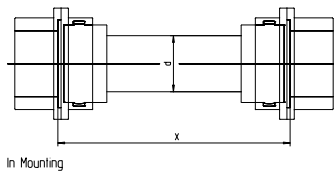


| Item | Designation |
|------|----------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Cover |
| 5 | Seal |
| 6 | Solid hub |



X: Distance between end shafts
X and d are defined according the needs

Inspection of the gear teeth is possible without having to remove the covers



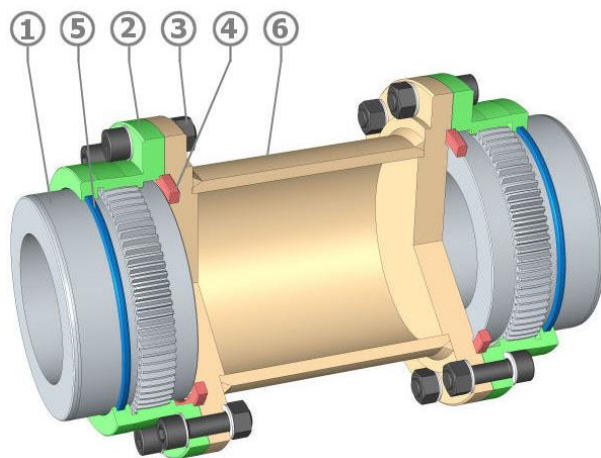
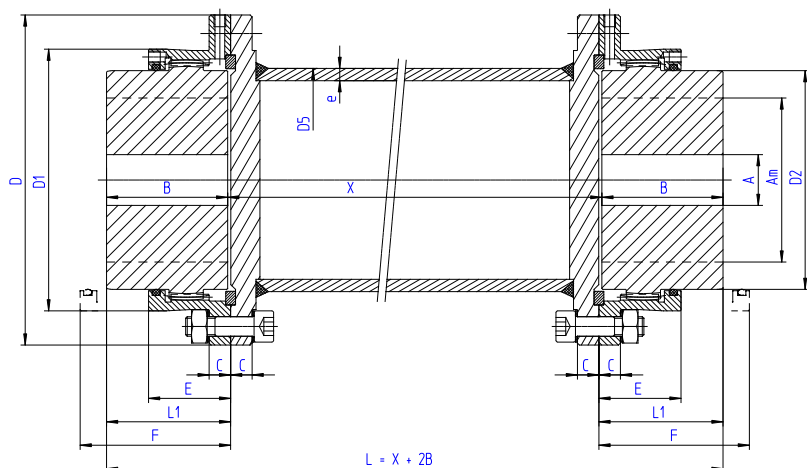
Example of designation **2 S 310 PA 1000 In SENIOR size 310**, composed with two half couplings **S310 P** with a 1000 mm shaft spacer.

In Mounting (rigid hubs set up at the ends)
Ex Mounting (gear hubs set up at the ends)

| Size | | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
|----------------------|------------------|-------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Nominal Torque | Nm | 255000 | 320000 | 410000 | 525000 | 670000 | 850000 | 1100000 | 1400000 | 1800000 | 2400000 | 3200000 | 3750000 | 4950000 |
| Max Bore | Am* | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| | Am** | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| | Am1 | Consult CMD | | | | | | | | | | | | |
| Rough bore | A | 163 | 176 | 191 | 240 | 257 | 279 | 304 | 329 | 358 | 394 | 434 | 457 | 501 |
| | B | 310 | 330 | 350 | 370 | 430 | 480 | 505 | 515 | 535 | 575 | 610 | 650 | 700 |
| | C | 34 | 34 | 39 | 43 | 47 | 56 | 56 | 55 | 65 | 70 | 70 | 70 | 75 |
| | D | 575 | 608 | 676 | 735 | 793 | 940 | 990 | 1100 | 1225 | 1285 | 1395 | 1450 | 1555 |
| | D1 | 494 | 518 | 576 | 637 | 695 | 785 | 840 | 910 | 1000 | 1060 | 1170 | 1225 | 1295 |
| | D2 | 411 | 438 | 492 | 535 | 581 | 645 | 700 | 770 | 835 | 890 | 975 | 1030 | 1095 |
| | J1 | 16 | 16 | 16 | 20 | 20 | 20 | 24 | 28 | 30 | 30 | 32 | 32 | 32 |
| | F | 350 | 370 | 395 | 420 | 478 | 550 | 570 | 575 | 600 | 640 | 680 | 720 | 770 |
| | L1 | 316 | 336 | 356 | 377.5 | 437.5 | 488 | 515 | 525 | 547.5 | 587.5 | 625 | 665 | 715 |
| L3 | 320 | 340 | 360 | 382 | 442 | 492 | 519 | 531 | 552 | 592 | 628 | 668 | 718 | |
| Weight • | Kg | 891,5 | 1049 | 1381.1 | 1774,4 | 2428,7 | 3476.1 | 4223,5 | 5118.7 | 6442,7 | 7794,4 | 9954,4 | 11582,7 | 14105,5 |
| Moment of Inertia J• | Kgm ² | 26,46 | 34,5 | 56,4 | 88,2 | 141,6 | 265,4 | 367,7 | 530,6 | 819 | 1106,4 | 1693,7 | 2142,2 | 2947,8 |
| Max speed (rpm) | | 903 | 857 | 760 | 696 | 643 | 573 | 542 | 495 | 446 | 418 | 377 | 358 | 341 |
| | y | 2409 | 2285 | 2026 | 1857 | 1714 | 1528 | 1445 | 1320 | 1188 | 1114 | 1005 | 955 | 909 |
| Weight of grease ∇ | Kg | 3.1 | 3.31 | 3.95 | 5.5 | 6.75 | 9.1 | 11.15 | 11.9 | 15.25 | 18.55 | 24.25 | 31 | 36.75 |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • For couplings S..P - Solid hubs
 y Dynamically balanced
 ∇ Per coupling S..P

Type SE – Horizontal working position



| Item | Designation |
|------|----------------------------------------------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring supplied only if vertical or balanced execution |
| 5 | Seal |
| 6 | Spacer |

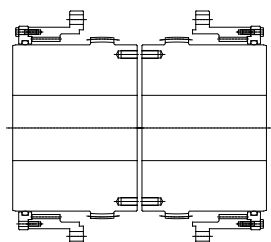
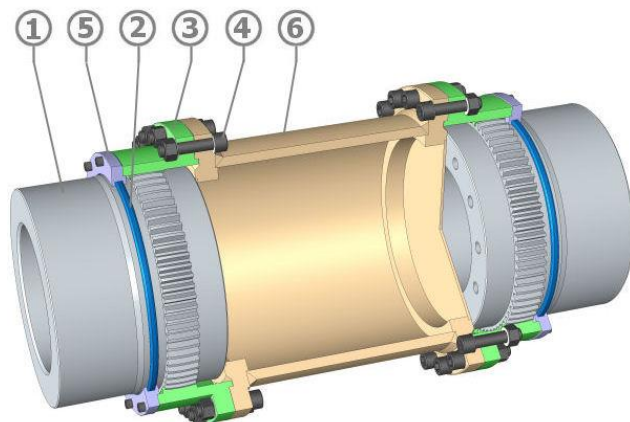
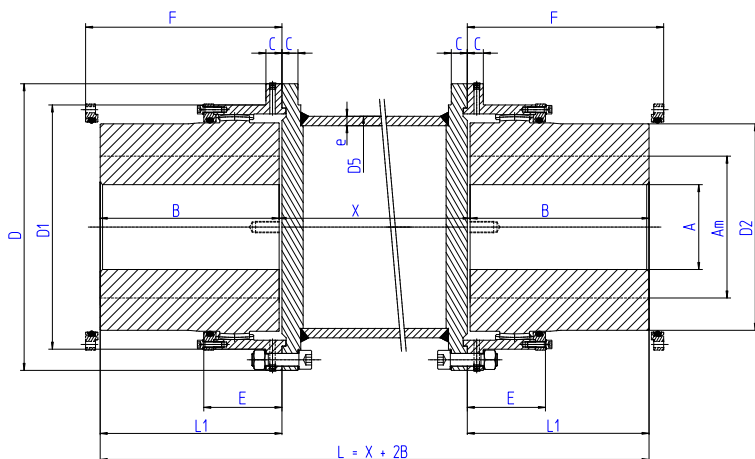
Example of designation **S 80 E 1000**

SENIOR size **80**, composed with two half couplings **S80** joined by a tubular spacer with distance between shafts ends $X = 1000$ mm

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
|-----------------------|------------------|--------|--------|-------|--------|--------|--------|--------|-------|-------|-------|--------|--------|--------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 | 139 |
| | D5 | 70 | 101,6 | 114,3 | 139,7 | 168,3 | 193,7 | 203 | 244,5 | 273 | 323,9 | 355,6 | 368 | 406,4 |
| | e | 4 | 5 | 6,3 | 8 | 7,1 | 10 | 12,5 | 12,5 | 12,5 | 12,5 | 12,5 | 16 | 16 |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 | 343 |
| L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | 315 | |
| Weight • | Kg | 11.6 | 22.1 | 34 | 55 | 75 | 121 | 165 | 218 | 285 | 390 | 480 | 628 | 870 |
| Moment of Inertia J• | Kgm ² | 0.013 | 0.045 | 0.093 | 0.218 | 0.407 | 0.883 | 1.42 | 2.45 | 4 | 7 | 10 | 15.6 | 21.8 |
| Weight △ | Kg | 0.65 | 1.19 | 1.67 | 2.59 | 2.81 | 4.5 | 5.9 | 7.1 | 8 | 9.6 | 10.5 | 13.8 | 15.3 |
| Moment of Inertia J △ | Kgm ² | 0.0007 | 0.0028 | 0.005 | 0.0113 | 0.0183 | 0.0383 | 0.0533 | 0.096 | 0.136 | 0.232 | 0.31 | 0.43 | 0.59 |
| Weight of grease ▽ | Kg | 0.04 | 0.08 | 0.12 | 0.26 | 0.38 | 0.6 | 0.8 | 1 | 1.70 | 2.20 | 2.90 | 3.80 | 4 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- For couplings with spacer $X=1000$ mm: Solid hubs
- △ Correction for variation $X=100$ mm
- ▽ Per coupling

Type SE – Horizontal working position



Inspection of the gear teeth is possible without having to remove the covers

| Item | Designation |
|------|----------------|
| 1 | Gear Hub |
| 2 | Seal |
| 3 | Half cover |
| 4 | Screws & Bolts |
| 5 | Cover |
| 6 | Spacer |

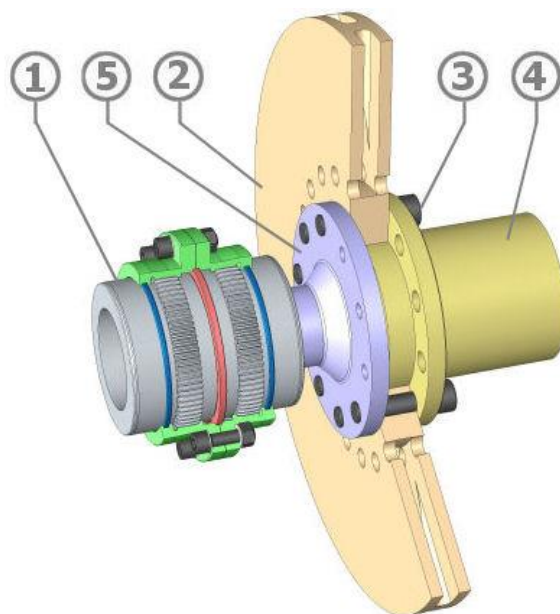
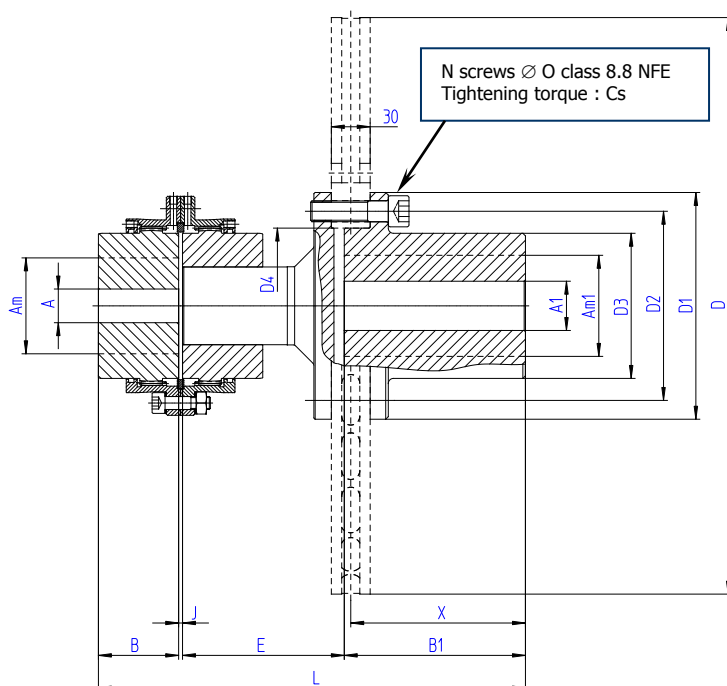
Example of designation **S 310 E 1000**

SENIOR size **310**, composed with two half couplings **S310** joined by a tubular spacer with distance between shafts ends $X = 1000$ mm

| Size | | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
|-----------------------|------------------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|
| Nominal Torque | Nm | 255000 | 320000 | 410000 | 525000 | 670000 | 850000 | 1100000 | 1400000 | 1800000 | 2400000 | 3200000 | 3750000 | 4950000 |
| Max Bore | Am* | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| | Am** | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| Rough bore | A | 163 | 176 | 191 | 240 | 257 | 279 | 304 | 329 | 358 | 394 | 434 | 457 | 501 |
| | B | 310 | 330 | 350 | 370 | 430 | 480 | 505 | 515 | 535 | 575 | 610 | 650 | 700 |
| | C | 34 | 34 | 39 | 43 | 47 | 56 | 56 | 55 | 65 | 70 | 70 | 70 | 75 |
| | D | 575 | 608 | 676 | 735 | 793 | 940 | 990 | 1100 | 1225 | 1285 | 1395 | 1450 | 1555 |
| | D1 | 494 | 518 | 576 | 637 | 695 | 785 | 840 | 910 | 1000 | 1060 | 1170 | 1225 | 1295 |
| | D2 | 411 | 438 | 492 | 535 | 581 | 645 | 700 | 770 | 835 | 890 | 975 | 1030 | 1095 |
| | D5 | 470 | 470 | 559 | 610 | 665 | 760 | 815 | 880 | 990 | 1030 | 1130 | 1185 | 1255 |
| | e | 20 | 20 | 20 | 20 | 25 | 25 | 25 | 30 | 30 | 40 | 45 | 45 | 55 |
| | E | 155 | 166 | 166 | 190.5 | 204 | 212 | 250 | 250 | 270 | 305 | 335 | 345 | 385 |
| | F | 350 | 370 | 395 | 420 | 478 | 550 | 570 | 575 | 600 | 640 | 680 | 720 | 770 |
| L1 | 316 | 336 | 356 | 377.5 | 437.5 | 488 | 515 | 525 | 547.5 | 587.5 | 625 | 665 | 715 | |
| Weight • | Kg | 1185 | 1348 | 1770 | 2223 | 2983 | 4180 | 5017 | 6176 | 7841 | 9588 | 12001 | 13723 | 16841 |
| Moment of Inertia J • | Kgm ² | 38.26 | 46.76 | 78.47 | 117.5 | 183.14 | 337.78 | 457.43 | 676.75 | 1059.44 | 1437.35 | 2131.3 | 2626.1 | 3667.77 |
| Weight △ | Kg | 22.1 | 22.1 | 26.5 | 29 | 39 | 49.4 | 57.7 | 62.1 | 69.8 | 86.7 | 107.7 | 127.9 | 151.3 |
| Moment of Inertia J △ | Kgm ² | 1.1 | 1.1 | 1.9 | 2.5 | 3.9 | 5.6 | 8.9 | 11.1 | 15.7 | 22.0 | 32.4 | 42.9 | 57.5 |
| Weight of grease ▽ | Kg | 6.2 | 6.62 | 7.9 | 11 | 13.5 | 18.2 | 22.3 | 23.8 | 30.5 | 37.1 | 48.5 | 62.15 | 73.5 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- For couplings with spacer $X=1000$ mm: Solid hubs
- △ Correction for variation $X=100$ mm
- ▽ Per coupling

Type SDF – Horizontal working position



| Item | Designation |
|------|-------------------|
| 1 | Coupling Senior S |
| 2 | Brake disc |
| 3 | Screws & Bolts |
| 4 | Solid hub |
| 5 | Spacer |

II : max speed allowed by the disc according the manufacturer. For higher speed, please consult us.

| SUPPORTING DISC HUB | | | | | | | | | | | | | |
|---------------------|-------------------------|----|------|-------|-----|-----|-----|-----|-----|----|-----|----------|-----|
| D | II Min ⁻¹ | A1 | Am1* | Am1** | B1 | D1 | D2 | D3 | D4 | N | O | Cs Nm | X |
| 315 | 3000 | / | 50 | 55 | 107 | 124 | 105 | 82 | 85 | 9 | M10 | 49 | 102 |
| 355 | 2700 | / | 60 | 70 | 107 | 145 | 125 | 100 | 105 | 9 | M12 | 86 | 102 |
| 395 | 2400 | / | 70 | 75 | 107 | 165 | 140 | 112 | 115 | 9 | M14 | 135 | 102 |
| 445 | 2100 | / | 70 | 80 | 140 | 175 | 146 | 112 | 120 | 12 | M16 | 210 | 135 |
| 495 | 1900 | 30 | 100 | 110 | 140 | 218 | 190 | 155 | 160 | 12 | M18 | 290 | 135 |
| 550 | 1800 | 30 | 100 | 110 | 140 | 218 | 190 | 155 | 160 | 12 | M18 | 290 | 135 |
| 625 | 1500 | 30 | 105 | 120 | 140 | 238 | 205 | 168 | 170 | 12 | M20 | 410 | 135 |
| 705 | 1300 | 30 | 120 | 135 | 140 | 268 | 230 | 190 | 195 | 12 | M22 | 550 | 135 |
| 795 | 1200 | 30 | 135 | 150 | 140 | 300 | 260 | 216 | 220 | 12 | M24 | 710 | 135 |

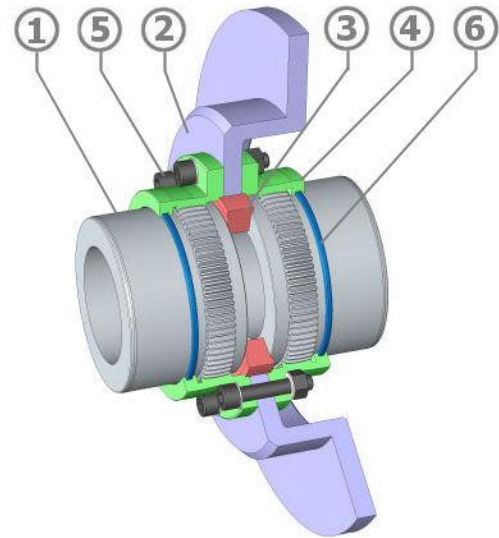
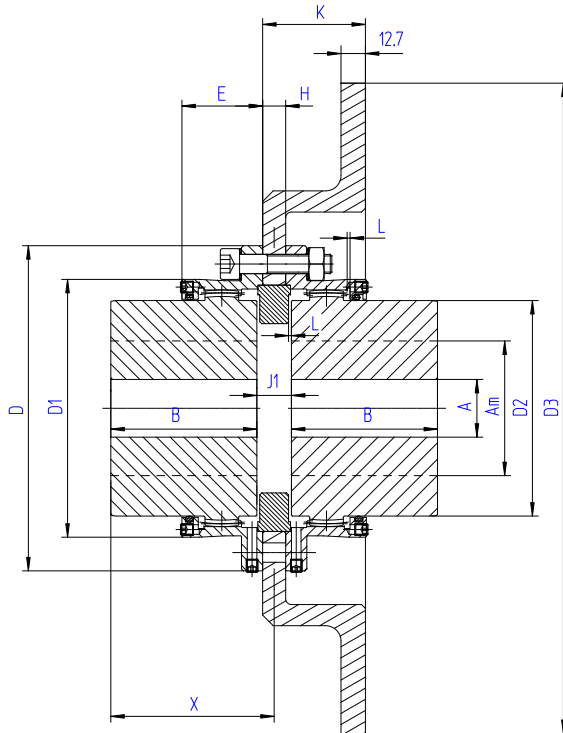
Example of designation **S80 DF 550**
SENIOR coupling size **80** with a **550** diameter brake disc

| SIZE | | 68 | | | | 80 | | | | 100 | | | | 115 | | | | 135 | | | 150 | | | 170 | |
|-----------------------|------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| Disc diameter | | 315 | 355 | 395 | 445 | 395 | 445 | 495 | 550 | 445 | 495 | 550 | 625 | 495 | 550 | 625 | 705 | 625 | 705 | 795 | 625 | 705 | 795 | 705 | 795 |
| Peak torque Max | Nm | 1500 | 2200 | 2200 | 2200 | 2200 | 3800 | 3800 | 3800 | 6000 | 6000 | 6000 | 6000 | 9400 | 9400 | 9400 | 9400 | 13800 | 13800 | 13800 | 20700 | 25300 | 25300 | 29200 | 36700 |
| Rough bore | A | 18 | | | | 26 | | | | 35 | | | | 58 | | | 68 | | | 83 | | | | | |
| Max Bore | Am* | 68 | | | | 80 | | | | 100 | | | | 115 | | | 135 | | | 150 | | 170 | | | |
| | Am** | 63 | | | | 75 | | | | 92 | | | | 106 | | | 125 | | | 140 | | 160 | | | |
| | B | 50 | | | | 62 | | | | 76 | | | | 90 | | | 105 | | | 120 | | | 135 | | |
| | J | 3 | | | | 3 | | | | 5 | | | | 5 | | | 6 | | | 6 | | | 8 | | |
| | E | 117 | 117 | 117 | 117 | 117 | 130 | 145 | 145 | 145 | 164 | 164 | 164 | 180 | 180 | 180 | 180 | 196 | 196 | 196 | 223 | 223 | 223 | 238 | 238 |
| | L | 274 | 274 | 274 | 307 | 286 | 332 | 347 | 347 | 361 | 380 | 380 | 380 | 410 | 410 | 410 | 410 | 441 | 441 | 441 | 483 | 483 | 483 | 513 | 513 |
| Weight • | Kg | 15 | 18 | 20,5 | 24 | 26 | 30 | 45 | 45 | 40 | 56 | 56 | 63 | 71 | 71 | 77 | 87 | 99 | 110 | 123 | 127 | 137 | 150 | 173 | 185 |
| Moment of Inertia J • | Kgm² | 0,02 | 0,03 | 0,04 | 0,05 | 0,06 | 0,07 | 0,16 | 0,16 | 0,12 | 0,21 | 0,21 | 0,27 | 0,3 | 0,3 | 0,36 | 0,48 | 0,559 | 0,68 | 0,862 | 0,846 | 0,965 | 1,148 | 1,463 | 1,642 |
| Weight of grease | Kg | 0,08 | | | | 0,12 | | | | 0,26 | | | | 0,38 | | | 0,60 | | | 0,80 | | | 1 | | |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ∇ Per coupling

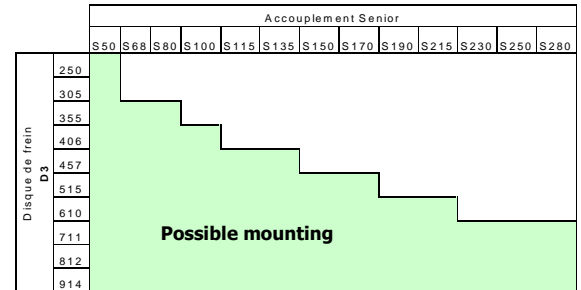
Check that the max peak torque of the coupling is superior than the peak torque of the installation

Type SDFC – Horizontal working position



| Item | Designation |
|------|-------------------------|
| 1 | Gear Hub |
| 2 | elbow shape brake disc |
| 3 | Centering ring spéciale |
| 4 | Half cover |
| 5 | Screws & Bolts |
| 6 | Seal |

| Brake disc dimensions | | | | | | | | | | |
|-----------------------|-----|-----|------|------|------|------|-----|------|------|-------|
| D3 | 250 | 305 | 355 | 406 | 457 | 515 | 610 | 711 | 812 | 914 |
| H | 6 | 13 | 16 | 13 | 16 | 16 | 16 | 19 | 25 | 25 |
| K | 36 | 41 | 54 | | | | | | | |
| Weight (kg) | 4 | 7.3 | 10.9 | 14.1 | 19.1 | 22.7 | 33 | 52.3 | 85.5 | 110.9 |

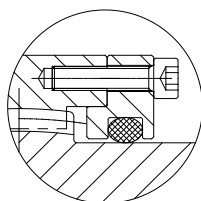
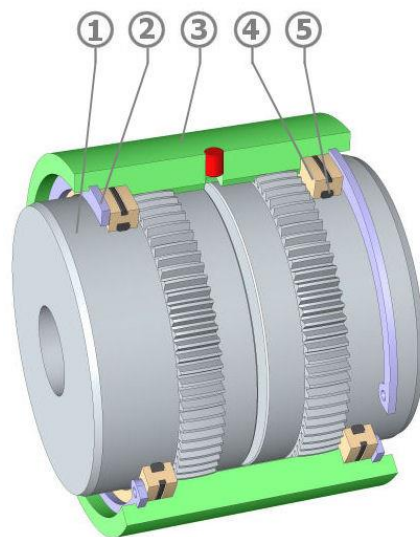
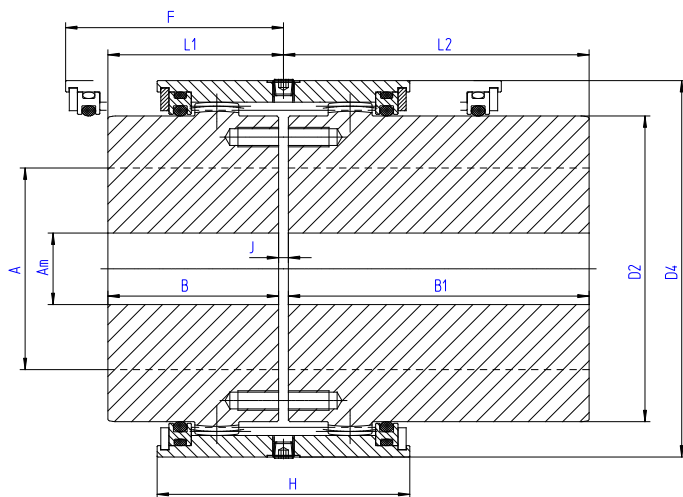


Example of designation **S80 DFC 305**
SENIOR coupling size **80** with a **305 mm** diameter elbow disc

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
|-----------------------|------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 | |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 | |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 | |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 | |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 | |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 | |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 | |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 101,5 | 122 | 135,5 | 139 | |
| | J1 | $J1 = H + 2 L$ | | | | | | | | | | | | | |
| | L | 1.3 | 1.5 | 2 | 2.5 | 2.8 | 3.2 | 3.5 | 4 | 4.5 | 5 | 5 | 5.8 | 7.3 | |
| | X | $X = B + (J1/2)$ | | | | | | | | | | | | | |
| Weight • | Kg | 3,7 | 7,7 | 13,2 | 23,5 | 36,7 | 59 | 84 | 119 | 164 | 243 | 300 | 406 | 616 | |
| Moment of Inertia J • | Kgm ² | 0,004 | 0,012 | 0,030 | 0,079 | 0,166 | 0,368 | 0,649 | 1,141 | 1,962 | 3,63 | 5,08 | 8,08 | 13,07 | |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 | |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 | |
| Weight of grease ▽ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,6 | 0,8 | 1 | 1,7 | 2,2 | 2,9 | 3,8 | 4 | |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • Solid hubs without brake disc
 y Dynamically balanced
 ▽ Per coupling

Type SBM – Horizontal working position



For sizes 215 up to 280

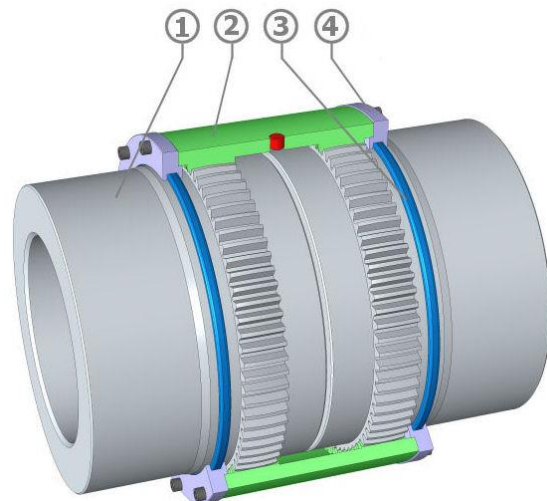
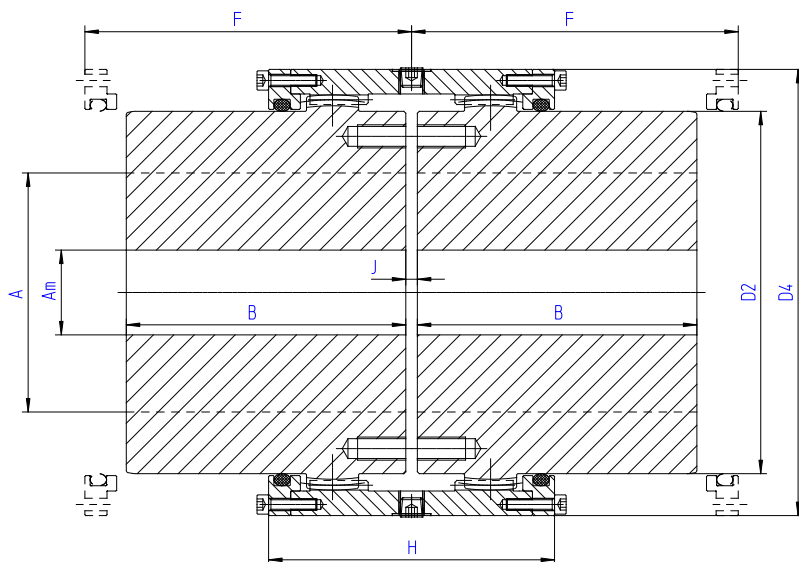
| Item | Designation |
|------|--------------------------|
| 1 | Gear Hub |
| 2 | Stop ring |
| 3 | Monobloc ring gear cover |
| 4 | Cover |
| 5 | Seal |

Example of designation **SBM80**
SENIOR coupling size 80 with monobloc cover

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
|-------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 |
| | B1 | 105 | 115 | 130 | 150 | 170 | 185 | 215 | 245 | 295 | 300 | 305 | 350 | - |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 |
| | D4 | 95 | 125 | 144 | 177 | 204 | 246 | 265 | 292 | 324 | 360 | 383 | 417 | 442 |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | - |
| | L2 | 106,5 | 116,5 | 131,5 | 152,5 | 172,5 | 188 | 218 | 249 | 299 | 304 | 309 | 355 | - |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 |
| | F | 63 | 72 | 86 | 104 | 122 | 145 | 161 | 177 | 193 | 199 | 219 | 252 | 342 |
| | H | 78 | 92 | 106 | 128 | 152 | 181 | 198 | 216 | 234 | 195 | 218 | 245 | 252 |
| Weight Kg • | SBM | 3.9 | 8.3 | 13.6 | 24.9 | 39.5 | 67 | 88.5 | 122.5 | 165 | 237.6 | 287.7 | 394.3 | 605.3 |
| | SBML | 5.8 | 11.9 | 18.9 | 33.5 | 51.8 | 84.2 | 114 | 160.6 | 226.6 | 307.4 | 359.5 | 491.6 | - |
| | SBML2 | 7.6 | 15.5 | 24.1 | 42.2 | 64.1 | 101.5 | 139.5 | 198.7 | 288.2 | 377.1 | 431.4 | 588.8 | - |
| Moment of Inertia J • Kgm ² | SBM | 0.004 | 0.015 | 0.032 | 0.09 | 0.19 | 0.47 | 0.71 | 1.18 | 1.95 | 2.85 | 3.86 | 6.31 | 10.94 |
| | SBML | 0.075 | 0.12 | 0.16 | 0.26 | 0.41 | 0.78 | 1.15 | 1.86 | 3.03 | 4.54 | 5.87 | 9.49 | - |
| | SBML2 | 0.15 | 0.22 | 0.28 | 0.43 | 0.63 | 1.10 | 1.59 | 2.54 | 4.1 | 6.22 | 7.87 | 12.66 | - |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 |
| Weight of grease ▽ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,6 | 0,8 | 1 | 1,7 | 2,2 | 2,9 | 3,8 | 4 |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • Solid hubs
 y Dynamically balanced
 ▽ Per coupling

Type SBM – Horizontal working position



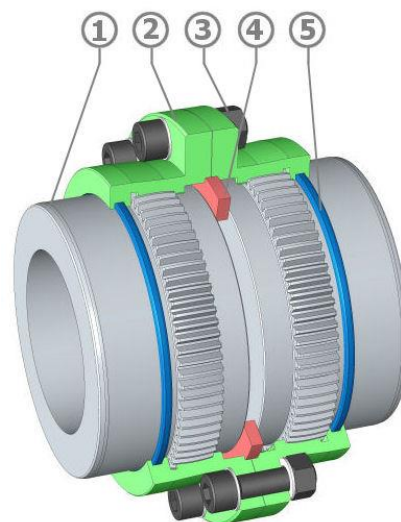
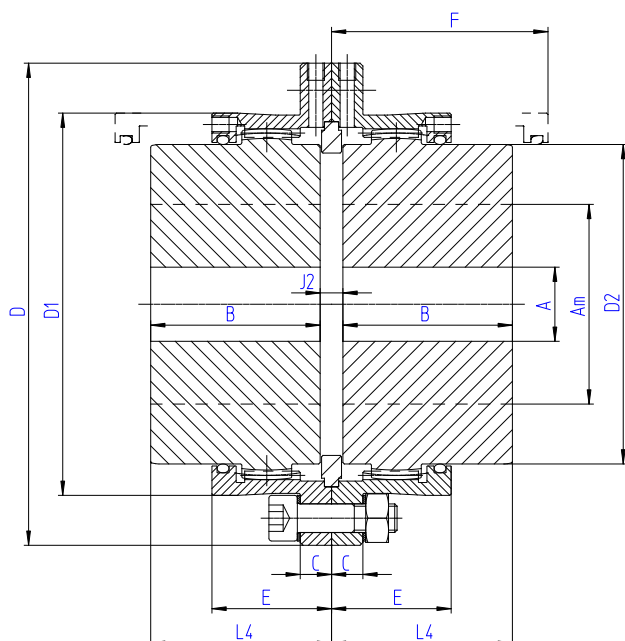
| Item | Designation |
|------|--------------------------|
| 1 | Gear Hub |
| 2 | Monobloc ring gear cover |
| 3 | Seal |
| 4 | Cover |

Example of designation **SBM310**
SENIOR coupling size **310** with monobloc cover

| Size | | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 | |
|--------------------|--------------------|------------------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|--------|
| Nominal Torque | Nm | 255000 | 320000 | 410000 | 525000 | 670000 | 850000 | 1100000 | 1400000 | 1800000 | 2400000 | 3200000 | 3750000 | 4950000 | |
| Max Bore | Am* | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 | |
| | Am** | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 | |
| Rough bore | A | 163 | 176 | 191 | 240 | 257 | 279 | 304 | 329 | 358 | 394 | 434 | 457 | 501 | |
| | B | 310 | 330 | 350 | 370 | 430 | 480 | 505 | 515 | 535 | 575 | 610 | 650 | 700 | |
| | D2 | 411 | 438 | 492 | 535 | 581 | 645 | 700 | 770 | 835 | 890 | 975 | 1030 | 1095 | |
| | D4 | 494 | 518 | 576 | 637 | 695 | 785 | 840 | 910 | 1000 | 1060 | 1170 | 1225 | 1295 | |
| | J | 12 | 12 | 12 | 15 | 15 | 16 | 20 | 20 | 25 | 25 | 30 | 30 | 30 | |
| | F | 350 | 370 | 395 | 420 | 478 | 550 | 570 | 575 | 600 | 640 | 680 | 720 | 770 | |
| | H | 310 | 332 | 332 | 381 | 408 | 424 | 500 | 500 | 540 | 610 | 670 | 690 | 770 | |
| | Weight • | Kg | 761 | 908 | 1190 | 1531 | 2083 | 2882 | 3605 | 4372 | 5374 | 6559 | 8411 | 9867 | 12056 |
| | Moment d'Inerie J• | Kgm ² | 18 | 24 | 39.3 | 60.8 | 97.1 | 167.3 | 244.1 | 353.9 | 520.3 | 719.5 | 1117.3 | 1447.5 | 1983.5 |
| Max speed (rpm) | | 903 | 857 | 760 | 696 | 643 | 573 | 542 | 495 | 446 | 418 | 377 | 358 | 341 | |
| | y | 2409 | 2285 | 2026 | 1857 | 1714 | 1528 | 1445 | 1320 | 1188 | 1114 | 1005 | 955 | 909 | |
| Weight of grease ▽ | Kg | 6.2 | 6.6 | 7.9 | 11 | 13.5 | 18.2 | 22.3 | 23.8 | 30.5 | 37.1 | 48.5 | 62.2 | 73.5 | |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ▽ Per coupling

Type JL – Horizontal working position Limited end float model



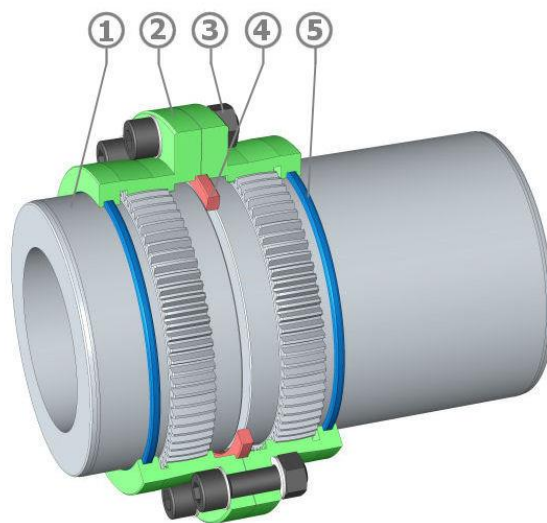
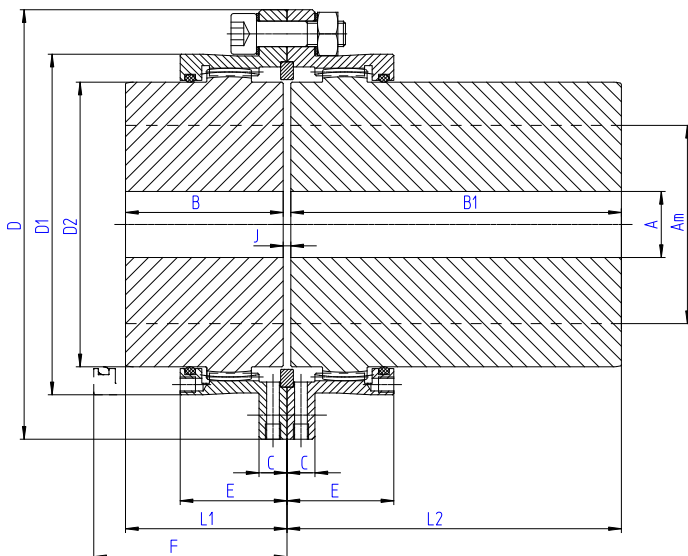
| Item | Designation |
|------|-------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Specific centering ring |
| 5 | Seal |

Example of designation **S 80 JL SENIOR** coupling size **80** whose axial movement is reduced by a specific centering ring between the two hubs.
The misalignment capacities are reduced

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
|----------------------|------------------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|---------------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 |
| Max bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 | 139 |
| | J2 | 4,6 | 5,4 | 6 | 9 | 9,6 | 11,4 | 12 | 14 | 15 | 16 | 16,6 | 19,6 | 22,6 |
| Jeu axial | +/- | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 2 | 2 | 2 | 2 | 2 | 2 |
| | F2 | 57 | 65 | 78 | 97 | 117 | 135 | 150 | 170 | 190 | 215 | 230 | 263 | 355 |
| | L4 | 45,3 | 52,7 | 65 | 80,5 | 94,8 | 110,7 | 126 | 142 | 157,5 | 183 | 198,3 | 229,8 | 321,3 |
| Weight • | Kg | 3,7 | 7,7 | 13,2 | 23,6 | 37 | 60 | 85 | 120 | 165 | 244 | 302 | 408 | 619 |
| Moment of Inertia J• | Kgm² | 0,004 | 0,012 | 0,030 | 0,080 | 0,167 | 0,371 | 0,655 | 1,151 | 1,978 | 3,66 | 5,22 | 8,14 | 13,16 |
| Max speed (rpm) | y | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 |
| | | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 |
| Weight of grease ▽ | Kg | 0,04 | 0,09 | 0,14 | 0,30 | 0,46 | 0,73 | 1 | 1,20 | 2 | 2,70 | 3,50 | 4,60 | 5 |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • Solid hubs
 y Dynamically balanced
 ▽ Per coupling

Type ML – ML2 – Horizontal working position



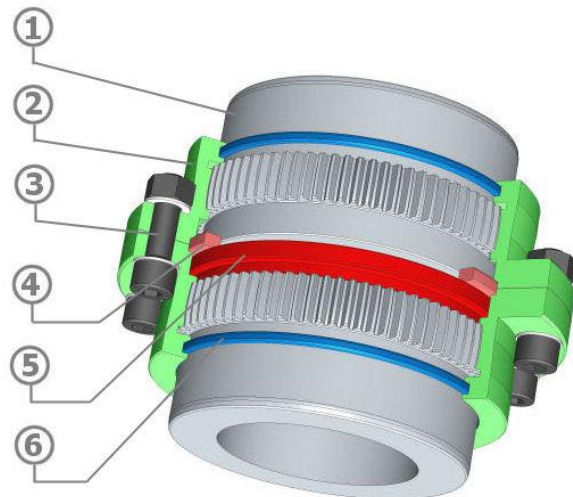
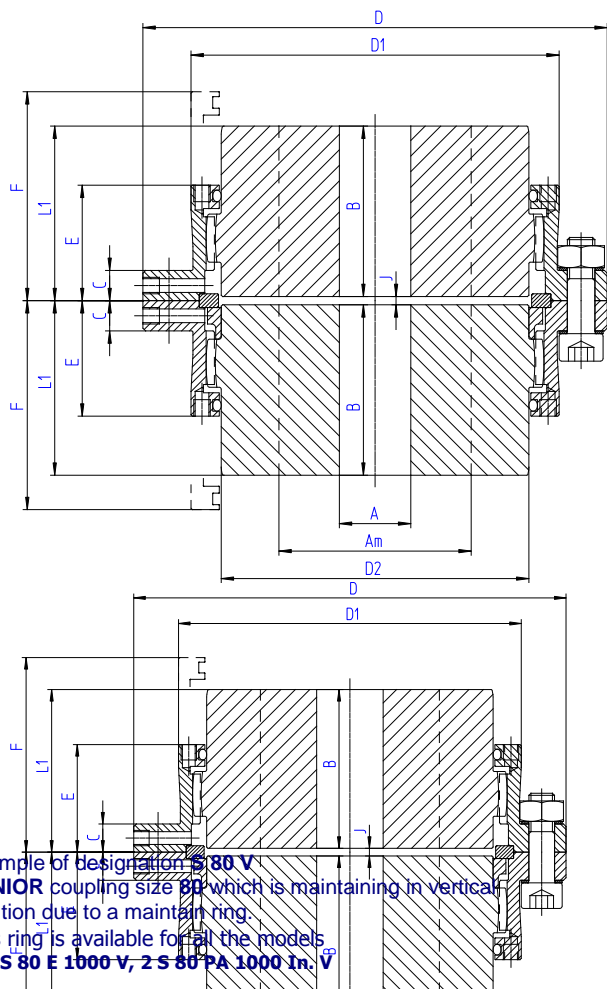
| Item | Designation |
|------|----------------------------------------------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring supplied only if vertical or balanced execution |
| 5 | Seal |

Example of designation **S 80 ML SENIOR** coupling size **80** with long hub

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 |
|--------------------|-------------|-------------|-------------|-------------|-------------|--------------|--------------|--------------|--------------|--------------|--------------|---------------|---------------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 |
| | B1 | 105 | 115 | 130 | 150 | 170 | 185 | 215 | 245 | 295 | 300 | 305 | 350 |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 |
| | F | 117 | 128 | 143 | 167 | 192 | 210 | 240 | 273 | 325 | 330 | 335 | 383 |
| | L2 | 106,5 | 116,5 | 131,5 | 152,5 | 172,5 | 188 | 218 | 249 | 299 | 304 | 309 | 355 |
| Weight Kg• | SML | 5,5 | 11,2 | 18,4 | 32 | 49 | 77 | 110 | 157 | 226 | 313 | 373 | 503 |
| | SML2 | 7,3 | 14,7 | 23,6 | 40,5 | 61,3 | 95 | 136 | 195 | 288 | 382 | 446 | 600 |
| Moment d'Inerie J• | SML | 0,005 | 0,016 | 0,038 | 0,099 | 0,204 | 0,443 | 0,785 | 1,407 | 2,485 | 4,42 | 6,08 | 9,54 |
| | SML2 | 0,006 | 0,020 | 0,046 | 0,119 | 0,242 | 0,518 | 0,921 | 1,673 | 3,008 | 5,21 | 6,98 | 11 |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 |
| Weight of grease ▽ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,60 | 0,80 | 1 | 1,70 | 2,20 | 2,90 | 3,80 |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • Solid hubs
 y Dynamically balanced
 ▽ Per coupling

Type V – Vertical working position



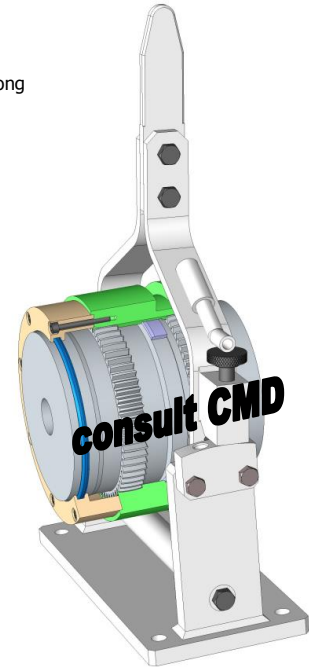
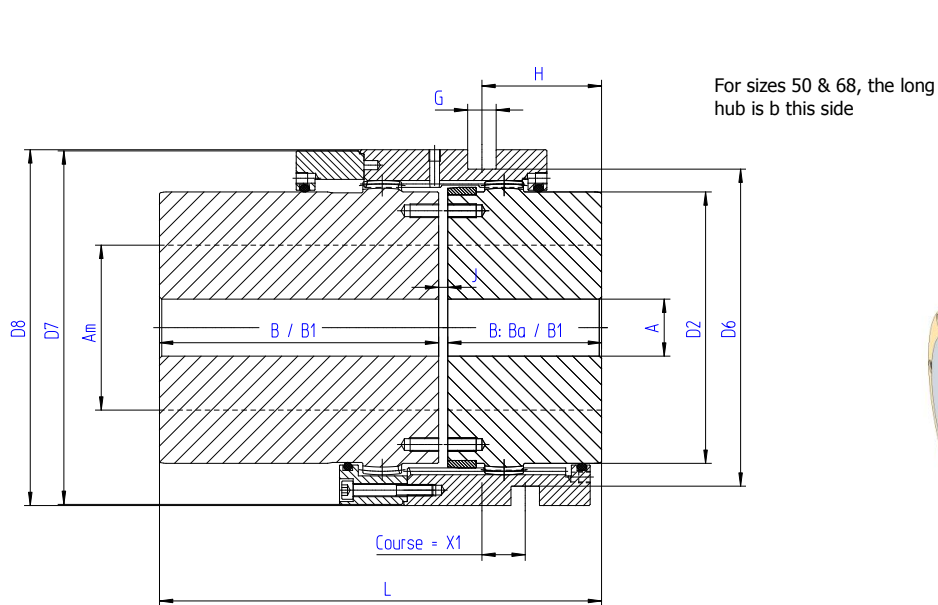
| Item | Designation |
|------|-----------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring |
| 5 | Maintening ring |
| 6 | Seal |

Example of designation **S 80 V SENIOR** coupling size 80 which is maintaining in vertical position due to a maintain ring. This ring is available for all the models.
Ex : **S 80 E 1000 V, 2 S 80 PA 1000 In. V**

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
|--------------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|-------|
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 | 190000 | |
| Max bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 | |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 | |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 | |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 | |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 | |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 | |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 | |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 | |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 | 139 | |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 | |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 | 343 | |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | 315 | |
| | Weight • | Kg | 3,7 | 7,7 | 13,3 | 23,7 | 37 | 60 | 85 | 121 | 166 | 245 | 304 | 410 | 621 |
| | Moment of Inertia J• | Kgm ² | 0,004 | 0,012 | 0,030 | 0,08 | 0,169 | 0,374 | 0,659 | 1,161 | 1,997 | 3,69 | 5,28 | 8,23 | 13,26 |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 | |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 | |
| Weight of grease ∇ | kg | 0,03 | 0,07 | 0,10 | 0,22 | 0,34 | 0,50 | 0,70 | 0,90 | 1,40 | 1,90 | 2,50 | 3,20 | 3,4 | |

* Bore with keyway according ISO R 773 or DIN 6885/1 standards
 ** Shrink fitting
 • Solid hubs
 y Dynamically balanced
 ∇ Per coupling

Type SDB – Horizontal working position

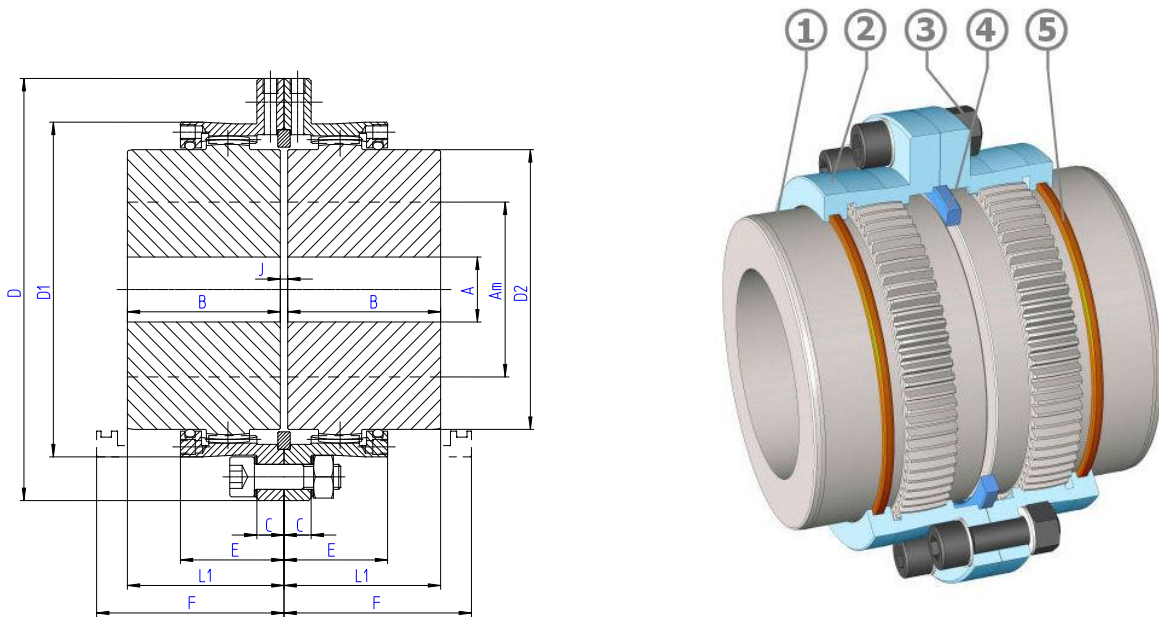


Example of designation **S 80 MLDB**
SENIOR clutch coupling size **80** with one long hub.

| Size | | Manual | | With acting system | | | | | | | | | |
|----------------------|----------|-----------|-----------|--------------------|-------|-------|-------|-------|-------|-------|-------|--------|--------|
| | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 |
| Nominal Torque | Nm | 1200 | 3000 | 5200 | 9000 | 13700 | 21300 | 29200 | 43000 | 60700 | 88200 | 105000 | 138000 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 |
| | B : Ba | 43 : 62 | 50 : 72 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 |
| | B1 | 105 | 115 | 130 | 150 | 170 | 185 | 215 | 245 | 295 | 300 | 305 | 350 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 |
| | D6 | / | / | 132 | 164 | 189 | 222 | 246 | 278 | 312 | 353 | 376 | 406 |
| | D7 | 100 | 128 | 148 | 190 | 210 | 240 | 270 | 310 | 330 | 390 | 410 | 440 |
| | D8 | 102 | 130 | 148 | 188 | 213 | 246 | 280 | 312 | 346 | 397 | 420 | 450 |
| | G | / | / | 12 | 18 | 18 | 18 | 25 | 25 | 25 | 32 | 32 | 32 |
| | H | / | / | 50 | 60 | 70 | 82 | 90 | 105 | 115 | 135 | 145 | 170 |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 |
| | X1 | 11 | 14 | 19 | 22 | 25 | 29 | 32 | 38 | 40 | 48 | 50 | 55 |
| Models | S..DB | 108 | 125 | 127 | 157 | 185 | 216 | 246 | 278 | 308 | 358 | 388 | 450 |
| | S..MLDB | 151 : 170 | 168 : 190 | 195 | 231 | 265 | 296 | 341 | 388 | 453 | 483 | 503 | 580 |
| | S..ML2DB | 213 | 233 | 263 | 305 | 345 | 376 | 436 | 498 | 598 | 608 | 618 | 710 |
| Weight Kg• | S..DB | - | - | 14.4 | 26.1 | 43.5 | 68.1 | 97 | 138.7 | 185 | | | |
| | S..MLDB | - | - | 19.7 | 34.7 | 55.9 | 85.5 | 122.5 | 177 | 246.6 | | | |
| | S..ML2DB | - | - | 25 | 43.8 | 68.3 | 102.9 | 148 | 215.6 | 308.2 | | | |
| Moment of Inertia J• | S..DB | - | - | 0.036 | 0.108 | 0.227 | 0.489 | 0.854 | 1.540 | 2.469 | | | |
| | S..MLDB | - | - | 0.044 | 0.128 | 0.366 | 0.565 | 0.993 | 1.810 | 3.001 | | | |
| | S..ML2DB | | | 0.052 | 0.196 | 0.405 | 0.641 | 1.132 | 2.082 | 3.533 | | | |
| Max speed (rpm) | Ω | 2500 | 2000 | 1300 | 1100 | 890 | 780 | 680 | 610 | 550 | 480 | 450 | 420 |
| Weight of grease ▽ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,60 | 0,80 | 1 | 1,70 | 2,20 | 2,90 | 3,80 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- Ω for higher speed, please consult us
- ▽ Per coupling

Type SR – Horizontal working position



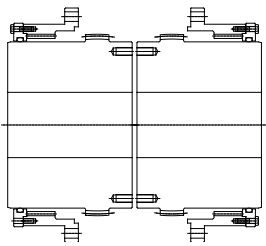
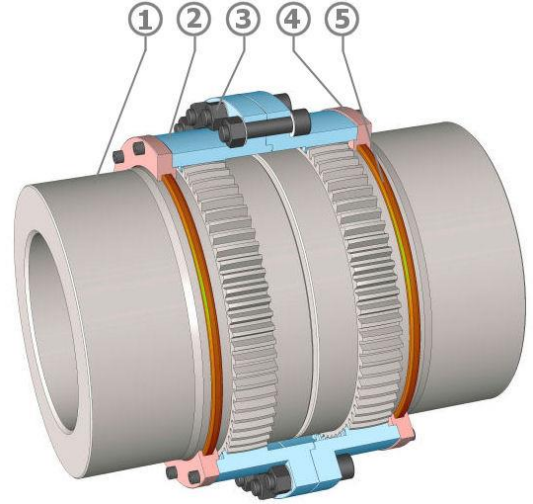
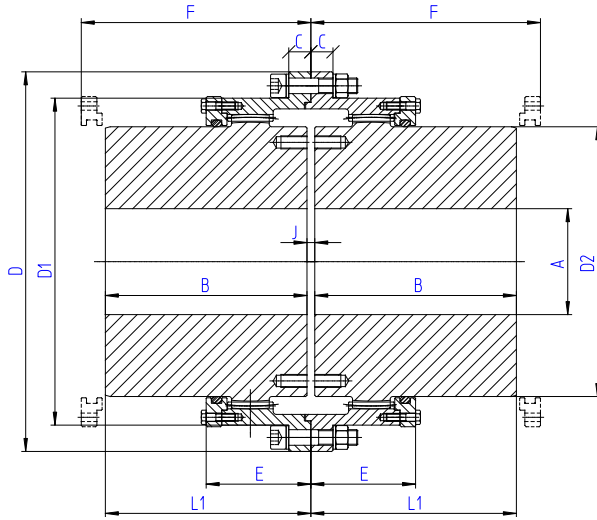
| Item | Designation |
|------|----------------------------------------------------------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Centering ring supplied only if vertical or balanced execution |
| 5 | Seal |

Example of designation **S80R**
SENIOR coupling Reinforced (42 CrMo4) size 80

| Size | | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
|-----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| Nominal Torque | Nm | 1855 | 4570 | 7910 | 13635 | 20740 | 32220 | 44000 | 65110 | 91865 | 133490 | 159160 | 207000 | 302450 |
| Max Bore | Am* | 50 | 68 | 80 | 100 | 115 | 135 | 150 | 170 | 190 | 215 | 230 | 250 | 280 |
| | Am** | 46 | 63 | 75 | 92 | 106 | 125 | 140 | 160 | 175 | 200 | 210 | 230 | 250 |
| Rough bore | A | 18 | 18 | 26 | 35 | 35 | 58 | 68 | 83 | 98 | 108 | 118 | 128 | 128 |
| | B | 43 | 50 | 62 | 76 | 90 | 105 | 120 | 135 | 150 | 175 | 190 | 220 | 310 |
| | C | 10 | 10 | 11 | 11 | 14 | 18 | 20 | 20 | 24 | 24 | 30 | 30 | 30 |
| | D | 105 | 140 | 169 | 200 | 228 | 266 | 298 | 330 | 368 | 410 | 440 | 473 | 498 |
| | D1 | 83,6 | 112,6 | 134 | 164 | 188 | 219 | 245 | 277 | 309 | 351 | 374 | 407 | 432 |
| | D2 | 69,4 | 95 | 112 | 138 | 159 | 188 | 209 | 238 | 263 | 302 | 319 | 349 | 374 |
| | E | 30,5 | 36 | 42 | 52 | 63,5 | 74 | 82 | 91 | 100 | 110,5 | 122 | 135,5 | 139 |
| | J | 3 | 3 | 3 | 5 | 5 | 6 | 6 | 8 | 8 | 8 | 8 | 10 | 10 |
| | F | 55 | 63 | 75 | 93 | 112 | 130 | 145 | 163 | 180 | 205 | 220 | 253 | 343 |
| | L1 | 44,5 | 51,5 | 63,5 | 78,5 | 92,5 | 108 | 123 | 139 | 154 | 179 | 194 | 225 | 315 |
| Weight • | Kg | 3,7 | 7,7 | 13,2 | 23,5 | 36,7 | 59 | 84 | 119 | 164 | 243 | 300 | 406 | 616 |
| Moment of Inertia J • | Kgm ² | 0,004 | 0,012 | 0,030 | 0,079 | 0,166 | 0,368 | 0,649 | 1,141 | 1,962 | 3,63 | 5,08 | 8,08 | 13,07 |
| Max speed (rpm) | | 5400 | 4000 | 3400 | 2700 | 2400 | 2000 | 1800 | 1600 | 1500 | 1300 | 1200 | 1100 | 1000 |
| | y | 14000 | 10500 | 8900 | 7200 | 6300 | 5400 | 4800 | 4200 | 3800 | 3300 | 3100 | 2900 | 2700 |
| Weight of grease ∇ | Kg | 0,04 | 0,08 | 0,12 | 0,26 | 0,38 | 0,6 | 0,8 | 1 | 1,7 | 2,2 | 2,9 | 3,8 | 4 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ∇ Per coupling

Type SR – Horizontal working position



Inspection of the gear teeth is possible without having to remove the covers

| Item | Designation |
|------|----------------|
| 1 | Gear Hub |
| 2 | Half cover |
| 3 | Screws & Bolts |
| 4 | Cover |
| 5 | Seal |

Example of designation **S310R**
SENIOR coupling Reinforced (42 CrMo4) size **310**

| Size | | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
|----------------------|-------------|---------------|---------------|---------------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| Nominal Torque | Nm | 400000 | 500850 | 637500 | 848540 | 1078000 | 1356400 | 1714000 | 2211000 | 2830000 | 3770000 | 5000100 | 5890000 | 7780000 |
| Max Bore | Am* | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| | Am** | 310 | 330 | 370 | 400 | 430 | 475 | 510 | 550 | 610 | 650 | 710 | 750 | 800 |
| Rough bore | A | 163 | 176 | 191 | 240 | 257 | 279 | 304 | 329 | 358 | 394 | 434 | 457 | 501 |
| | B | 310 | 330 | 350 | 370 | 430 | 480 | 505 | 515 | 535 | 575 | 610 | 650 | 700 |
| | C | 34 | 34 | 39 | 43 | 47 | 56 | 56 | 55 | 65 | 70 | 70 | 70 | 75 |
| | D | 575 | 608 | 676 | 735 | 793 | 940 | 990 | 1100 | 1225 | 1285 | 1395 | 1450 | 1555 |
| | D1 | 494 | 518 | 576 | 637 | 695 | 785 | 840 | 910 | 1000 | 1060 | 1170 | 1225 | 1295 |
| | D2 | 411 | 438 | 492 | 535 | 581 | 645 | 700 | 770 | 835 | 890 | 975 | 1030 | 1095 |
| | E | 155 | 166 | 166 | 190.5 | 204 | 212 | 250 | 250 | 270 | 305 | 335 | 345 | 385 |
| | J | 12 | 12 | 12 | 15 | 15 | 16 | 20 | 20 | 25 | 25 | 30 | 30 | 30 |
| | F | 350 | 370 | 395 | 420 | 478 | 550 | 570 | 575 | 600 | 640 | 680 | 720 | 770 |
| | L1 | 316 | 336 | 356 | 377.5 | 437.5 | 488 | 515 | 525 | 547.5 | 587.5 | 625 | 665 | 715 |
| Weight • | Kg | 805 | 957 | 1261 | 1613 | 2191 | 3091 | 3825 | 4676 | 5833 | 7101 | 9025 | 10522 | 12927 |
| Moment of Inertia J• | Kgm² | 21.9 | 29.1 | 47.6 | 74.1 | 116.9 | 215.3 | 307.4 | 449.9 | 687.4 | 936 | 1419.4 | 1795.7 | 2512.1 |
| | | 903 | 857 | 760 | 696 | 643 | 573 | 542 | 495 | 446 | 418 | 377 | 358 | 341 |
| Max speed (rpm) | y | 2409 | 2285 | 2026 | 1857 | 1714 | 1528 | 1445 | 1320 | 1188 | 1114 | 1005 | 955 | 909 |
| Weight of grease ▽ | Kg | 6.2 | 6.6 | 7.9 | 11 | 13.5 | 18.2 | 22.3 | 23.8 | 30.5 | 37.1 | 48.5 | 62.2 | 73.5 |

- * Bore with keyway according ISO R 773 or DIN 6885/1 standards
- ** Shrink fitting
- Solid hubs
- y Dynamically balanced
- ▽ Per coupling

4 Reasons to choose Flexident Senior

1 High definition

FLEXIDENT SENIOR is an entire steel coupling, manufactured with precision. It is composed with two half covers with inside gear teeth. They are joined with a set of treated screws and bolts and are connected with two bombed geared hubs. The design of the gear teeth is calculated to have a maximum contact surface and allows a high misalignment up to 1 degree and 30 min.

2 Reliability

The high definition of the manufacturing and the design of the coupling calculated by the most efficient finite elements calculation software guarantee to the FLEXIDENT SENIOR couplings a high reliability and a quite long lifetime.

3 Reactivity & short delivery time

FLEXIDENT SENIOR couplings are series manufactured. All the spare parts are stocked in big quantities in the CMD warehouse, and warehouses of CMD distributors who are present all over the world.

4 Quality of Service

CMD has installed an organisation ISO 9001 and has the powers to answer to all the requests of our customers.

Experimented and competent Engineers and technicians.

A design department equipped with the new and most efficient CAD and finite elements calculation software.

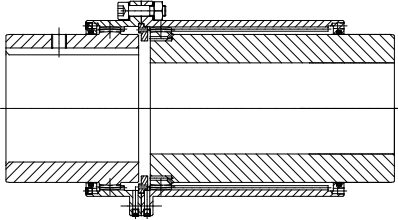
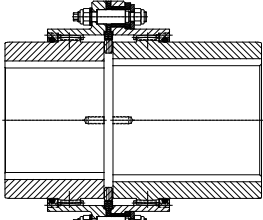
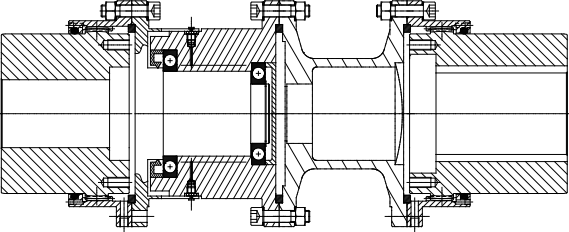
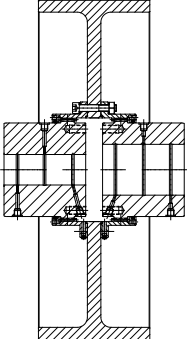
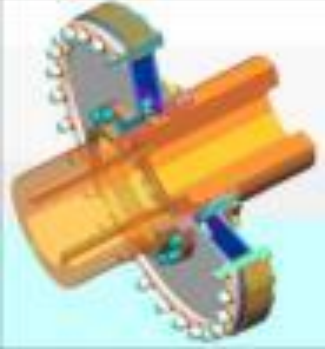
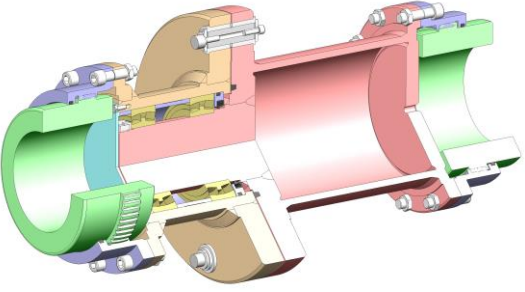
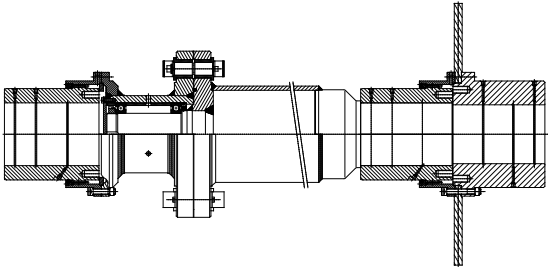
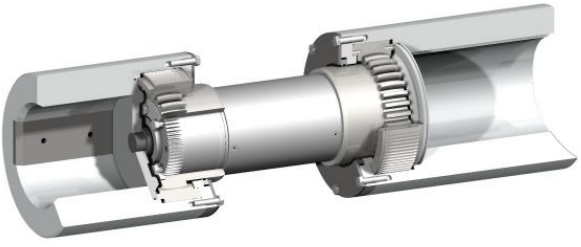
A test bench where our new products and innovations are tested.

An efficient after sales service.

A big distribution network.



The CMD Coupling department can also design or modify couplings dedicated to specific applications. We are at your disposal for any requests, technical studies... Here there are some examples:

| | |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |
| <p>Coupling with sliding hub</p> | <p>Coupling electrically insulated</p> |
|  |  |
| <p>Coupling with safeset</p> | <p>Coupling with pulley brake</p> |
|  |  |
| <p>Coupling with high axial misalignment</p> | <p>Coupling with shear pin</p> |
|  |  |
| <p>Coupling with spacer and brake disc</p> | <p>Mill gear spindle</p> |

Other Products

Flexible couplings



Flexacier T



Winflex DG



Flexacier 9000



Tonoflex*



Flexident Z

* This product can only be supplied out of European Union when mounted on gearboxes.



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