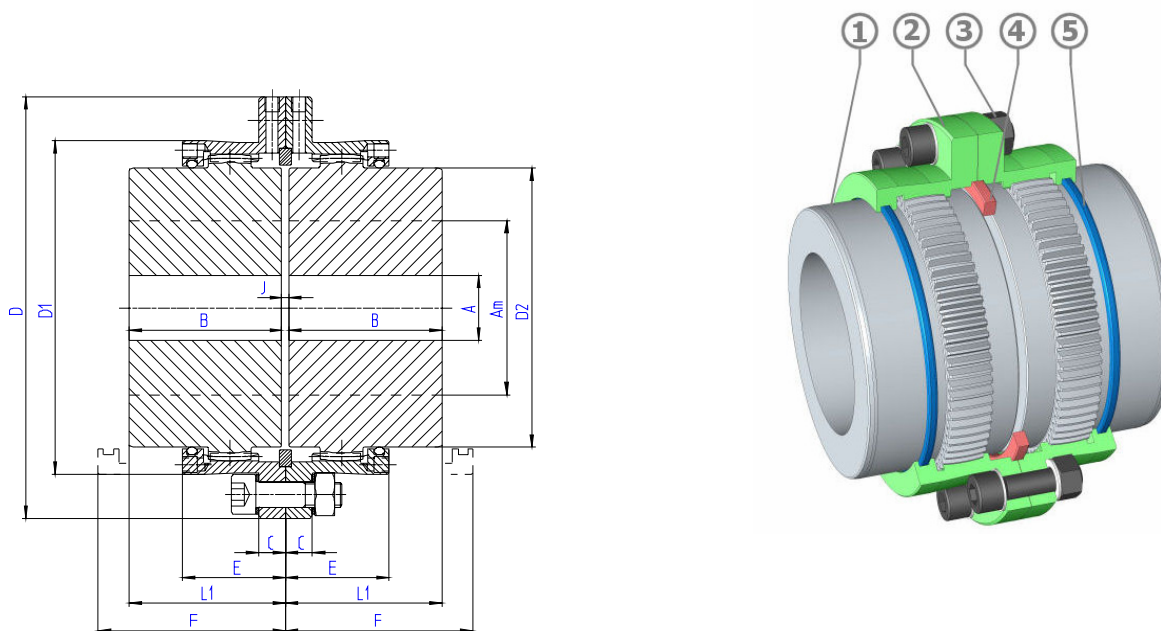


## Type S – Horizontal working position



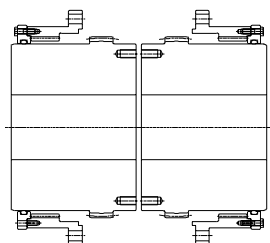
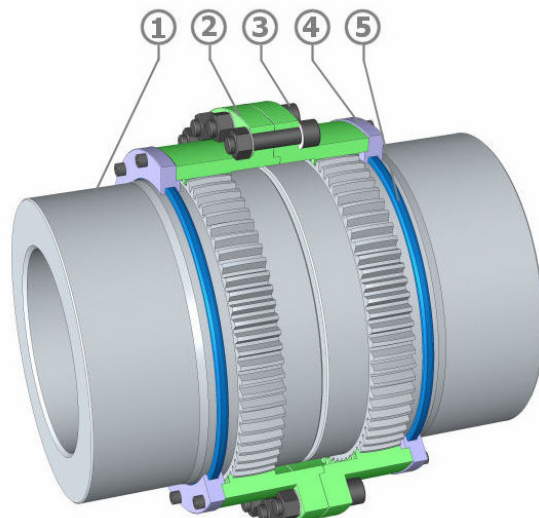
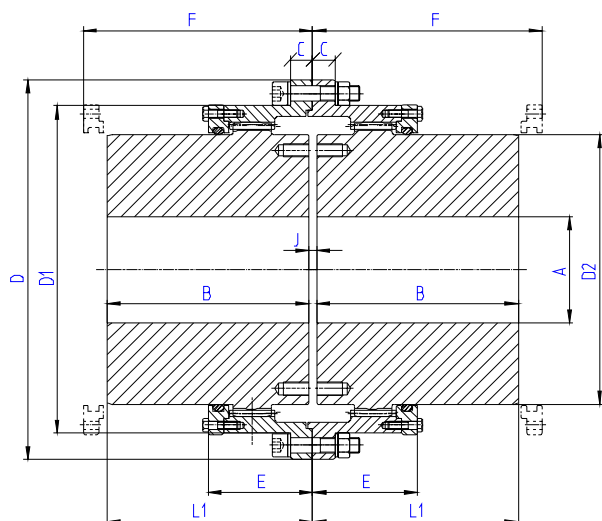
| Item | Designation    |
|------|----------------|
| 1    | Gear Hub       |
| 2    | Half cover     |
| 3    | Screws & Bolts |
| 4    | Centering ring |
| 5    | Seal           |

**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 • | Kgm² | 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 standard  
 \*\* 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 standard  
 \*\* Shrink fitting  
 • Solid hubs  
 y Dynamically balanced  
 ▽ Per coupling