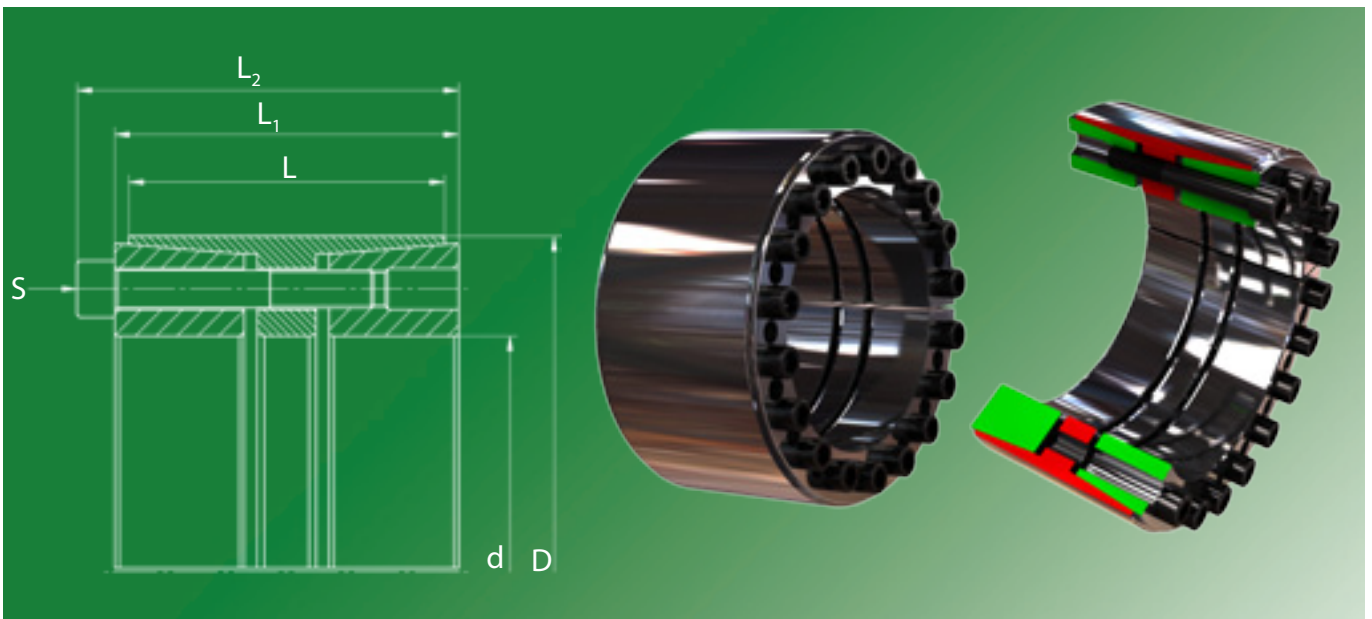
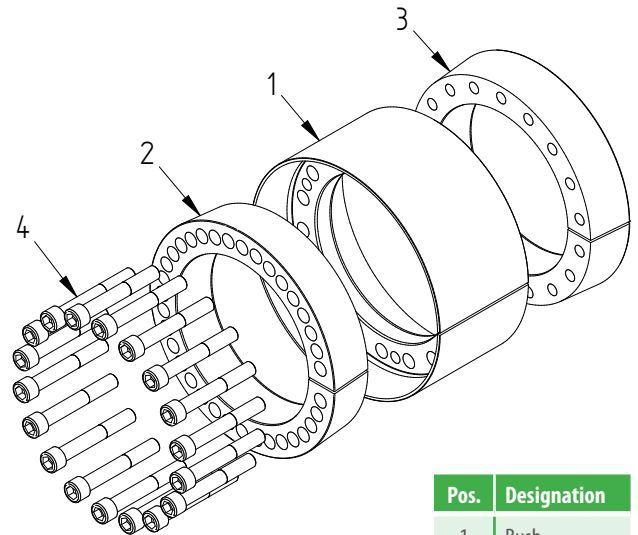


# 3012



## Used symbols

|          |                      |  |              |
|----------|----------------------|--|--------------|
| $d$      | [mm]                 | Shaft diameter                             |              |
| $D$      | [mm]                 | Hub inside diameter                        |              |
| $M_t$    | [Nm]                 | Max. transmittable torque                  | $F_{ax} = 0$ |
| $F_{ax}$ | [kN]                 | Max. transmittable axial force             | $M_t = 0$    |
| $p_w$    | [N/mm <sup>2</sup> ] | Average pressure on the shaft              |              |
| $p_N$    | [N/mm <sup>2</sup> ] | Average pressure on the hub                |              |
| $L$      | [mm]                 | Length of the bush                         |              |
| $L_1$    | [mm]                 | Width of the locking device without screws |              |
| $L_2$    | [mm]                 | Width of the locking device with screws    |              |
| $Z$      |                      | Number of clamping screws                  |              |
| $S$      |                      | Size of the clamping screws                |              |
| $M_A$    |                      | Tightening torque of the clamping screws   |              |



| Pos. | Designation     |
|------|-----------------|
| 1    | Bush            |
| 2    | Pressure ring 1 |
| 3    | Pressure ring 2 |
| 4    | Screw           |

## Recommended tolerances & surfaces

|       |           |
|-------|-----------|
| Shaft | h8 / Rz10 |
| Hub   | H8 / Rz10 |

## Bending loads

|                        |                        |
|------------------------|------------------------|
| Bending moment (share) | $M_B \max = 0,4 * M_t$ |
| Bending angle          | max. 5°                |

## More properties

- low axial displacement during assembly
- very good self-centering
- high self-locking

Ordering information: TAS 3012/d/D (for example: TAS 3012/150/200 ... further sizes on request)

| <b>d</b><br>mm |   | <b>D</b><br>mm | <b>M<sub>t</sub></b><br>Nm | <b>F<sub>ax</sub></b><br>kN | <b>P<sub>w</sub></b><br>N/mm <sup>2</sup> | <b>P<sub>N</sub></b><br>N/mm <sup>2</sup> | <b>Z</b><br>Stk | <b>S</b>  | <b>M<sub>A</sub></b><br>Nm | <b>L</b><br>mm | <b>L<sub>1</sub></b><br>mm | <b>L<sub>2</sub></b><br>mm | <b>Weight</b><br>kg |
|----------------|---|----------------|----------------------------|-----------------------------|---|---|-----------------|-----------|----------------------------|----------------|----------------------------|----------------------------|---------------------|
| 25             | x | 50             | 660                        | 53                          | 153                                       | 63  | 5               | M6 x 045  | 17                         | 45             | 53                         | 59                         | 0,5                 |
| 30             | x | 55             | 950                        | 64                          | 153                                       | 68  | 6               | M6 x 045  | 17                         | 45             | 53                         | 59                         | 0,6                 |
| 35             | x | 60             | 1300                       | 75                          | 153                                       | 73  | 7               | M6 x 045  | 17                         | 45             | 53                         | 59                         | 0,7                 |
| 38             | x | 65             | 1600                       | 85                          | 161                                       | 77  | 8               | M6 x 045  | 17                         | 45             | 53                         | 59                         | 0,8                 |
| 40             | x | 65             | 1700                       | 85                          | 153                                       | 77  | 8               | M6 x 045  | 17                         | 45             | 53                         | 59                         | 0,7                 |
| 45             | x | 75             | 3100                       | 138                         | 239                                       | 111                                       | 7               | M8 x 050  | 41                         | 44             | 54                         | 62                         | 1,0                 |
| 50             | x | 80             | 3900                       | 158                         | 190                                       | 93  | 8               | M8 x 050  | 41                         | 56             | 62                         | 70                         | 1,3                 |
| 55             | x | 85             | 4800                       | 177                         | 194                                       | 99  | 9               | M8 x 050  | 41                         | 56             | 62                         | 70                         | 1,5                 |
| 60             | x | 90             | 5900                       | 197                         | 198                                       | 104                                       | 10              | M8 x 050  | 41                         | 56             | 62                         | 70                         | 1,6                 |
| 65             | x | 95             | 6400                       | 197                         | 183                                       | 98  | 10              | M8 x 050  | 41                         | 56             | 62                         | 70                         | 1,7                 |
| 70             | x | 110            | 11300                      | 325                         | 220                                       | 112                                       | 10              | M10 x 060 | 83                         | 70             | 78                         | 88                         | 3,1                 |
| 80             | x | 120            | 14200                      | 357                         | 212                                       | 113                                       | 11              | M10 x 060 | 83                         | 70             | 78                         | 88                         | 3,5                 |
| 90             | x | 130            | 17500                      | 390                         | 205                                       | 114                                       | 12              | M10 x 060 | 83                         | 70             | 78                         | 88                         | 3,8                 |
| 100            | x | 145            | 26400                      | 528                         | 200                                       | 107                                       | 11              | M12 x 080 | 145                        | 90             | 100                        | 112                        | 6,1                 |
| 110            | x | 155            | 31600                      | 576                         | 198                                       | 110                                       | 12              | M12 x 080 | 145                        | 90             | 100                        | 112                        | 6,6                 |
| 120            | x | 165            | 40300                      | 672                         | 212                                       | 120                                       | 14              | M12 x 080 | 145                        | 90             | 100                        | 112                        | 7,1                 |
| 130            | x | 180            | 50200                      | 773                         | 188                                       | 110                                       | 12              | M14 x 090 | 230                        | 104            | 116                        | 130                        | 9,9                 |
| 140            | x | 190            | 63100                      | 902                         | 203                                       | 121                                       | 14              | M14 x 090 | 230                        | 104            | 116                        | 130                        | 10,6                |
| 150            | x | 200            | 72400                      | 966                         | 203                                       | 123                                       | 15              | M14 x 090 | 230                        | 104            | 116                        | 130                        | 11,2                |
| 160            | x | 210            | 82400                      | 1031                        | 203                                       | 125                                       | 16              | M14 x 090 | 230                        | 104            | 118                        | 132                        | 11,9                |
| 170            | x | 225            | 105000                     | 1238                        | 176                                       | 109                                       | 14              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 17,9                |
| 180            | x | 235            | 119000                     | 1327                        | 178                                       | 112                                       | 15              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 18,9                |
| 190            | x | 250            | 134000                     | 1415                        | 180                                       | 112                                       | 16              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 21,8                |
| 200            | x | 260            | 141000                     | 1415                        | 171                                       | 108                                       | 16              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 22,8                |
| 220            | x | 285            | 175000                     | 1592                        | 174                                       | 111                                       | 18              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 27,1                |
| 240            | x | 305            | 212000                     | 1769                        | 178                                       | 115                                       | 20              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 29,3                |
| 260            | x | 325            | 229000                     | 1769                        | 164                                       | 108                                       | 20              | M16 x 110 | 355                        | 134            | 146                        | 162                        | 31,4                |
| 280            | x | 355            | 347000                     | 2481                        | 178                                       | 112                                       | 18              | M20 x 130 | 690                        | 165            | 177                        | 197                        | 48,4                |
| 300            | x | 375            | 413000                     | 2757                        | 185                                       | 118                                       | 20              | M20 x 130 | 690                        | 165            | 177                        | 197                        | 51,5                |
| 320            | x | 405            | 463000                     | 2895                        | 182                                       | 115                                       | 21              | M20 x 130 | 690                        | 165            | 177                        | 197                        | 62,7                |
| 340            | x | 425            | 515000                     | 3033                        | 174                                       | 115                                       | 22              | M20 x 130 | 690                        | 165            | 177                        | 197                        | 66,1                |
| 360            | x | 455            | 649000                     | 3611                        | 174                                       | 111                                       | 21              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 90,7                |
| 380            | x | 475            | 718000                     | 3783                        | 173                                       | 111                                       | 22              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 95,1                |
| 400            | x | 495            | 825000                     | 4127                        | 179                                       | 116                                       | 24              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 100                 |
| 420            | x | 515            | 866000                     | 4127                        | 170                                       | 112                                       | 24              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 104                 |
| 440            | x | 535            | 907000                     | 4127                        | 163                                       | 108                                       | 24              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 109                 |
| 460            | x | 555            | 949000                     | 4127                        | 156                                       | 104                                       | 24              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 113                 |
| 480            | x | 575            | 1155000                    | 4814                        | 174                                       | 117                                       | 28              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 117                 |
| 500            | x | 595            | 1203000                    | 4814                        | 167                                       | 113                                       | 28              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 122                 |
| 520            | x | 615            | 1341000                    | 5158                        | 172                                       | 117                                       | 30              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 126                 |
| 540            | x | 635            | 1437000                    | 5325                        | 171                                       | 117                                       | 30              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 131                 |
| 560            | x | 655            | 1590000                    | 5680                        | 176                                       | 121                                       | 32              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 135                 |
| 580            | x | 675            | 1698000                    | 5857                        | 175                                       | 121                                       | 33              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 140                 |
| 600            | x | 695            | 1757000                    | 5857                        | 169                                       | 118                                       | 33              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 144                 |
| 620            | x | 715            | 1870000                    | 6035                        | 169                                       | 118                                       | 34              | M22 x 150 | 930                        | 190            | 202                        | 224                        | 149                 |