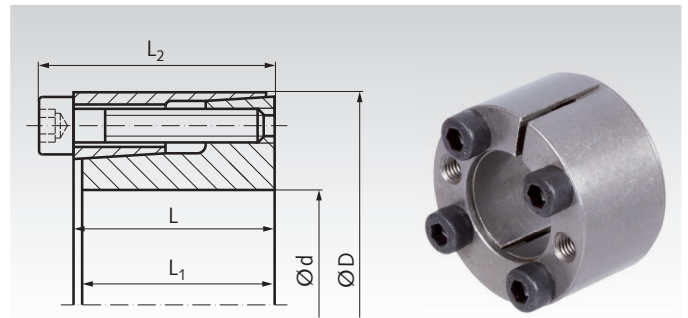


Locking Assemblies BAR

Material: Steel.

- For fixing a hub (e.g. drive wheel, rotor or similar) on a shaft.
- For medium torques.
- Very good distribution of pressure.
- Very good self-centering.
- Self-releasing at dismounting.
- Also suitable for large hub and shaft tolerances.
- Slight axial offset possible during assembly.



Ordering Details: e.g.: Product No. 615 405 00, Locking Assembly BAR 5 mm

| Product No. | d mm | D mm | L mm | L ₁ mm | L ₂ mm | at T _A transmittable | | Surface Pressure | | Tensioning Screw 12.9 | | | Weight kg |
|-------------|---------|---------|---------|----------------------|----------------------|------------------------------------|-----------------------|---|---|-----------------------|----------------------|--------|--------------|
| | | | | | | T Nm | F _{ax} kN | at Shaft P _w N/mm ² | at Hub P _N N/mm ² | Size DIN 912 | T _A Nm | Number | |
| 615 405 00 | 5 | 16 | 11 | 10,5 | 13,5 | 6 | 2 | 150 | 55 | M2,5 x 10 | 1,2 | 3 | 0,012 |
| 615 406 00 | 6 | 16 | 11 | 10,5 | 13,5 | 9 | 3 | 188 | 69 | M2,5 x 10 | 1,2 | 3 | 0,012 |
| 615 406 35 | 6,35 | 16 | 11 | 10,5 | 13,5 | 10 | 3 | 180 | 72 | M2,5 x 10 | 1,2 | 3 | 0,012 |
| 615 407 00 | 7 | 17 | 11 | 10,5 | 13,5 | 11 | 3 | 155 | 64 | M2,5 x 10 | 1,2 | 3 | 0,013 |
| 615 408 00 | 8 | 18 | 11 | 10,5 | 13,5 | 12 | 3 | 141 | 62 | M2,5 x 10 | 1,2 | 3 | 0,015 |
| 615 409 00 | 9 | 20 | 13 | 12,5 | 15,5 | 17 | 4 | 132 | 60 | M2,5 x 12 | 1,2 | 4 | 0,020 |
| 615 409 53 | 9,53 | 20 | 13 | 12,5 | 15,5 | 18 | 4 | 124 | 59 | M2,5 x 12 | 1,2 | 4 | 0,020 |
| 615 410 00 | 10 | 20 | 13 | 12,5 | 15,5 | 19 | 4 | 120 | 60 | M2,5 x 12 | 1,2 | 4 | 0,019 |
| 615 411 00 | 11 | 22 | 13 | 12,5 | 15,5 | 21 | 4 | 108 | 54 | M2,5 x 12 | 1,2 | 4 | 0,024 |
| 615 412 00 | 12 | 22 | 13 | 12,5 | 15,5 | 24 | 4 | 102 | 55 | M2,5 x 12 | 1,2 | 4 | 0,022 |
| 615 412 70 | 12,7 | 23 | 13 | 12,5 | 15,5 | 24 | 4 | 102 | 55 | M2,5 x 12 | 1,2 | 4 | 0,020 |
| 615 414 00 | 14 | 26 | 17 | 16,5 | 20 | 40 | 6 | 94 | 50 | M3 x 16 | 2,1 | 4 | 0,039 |
| 615 415 00 | 15 | 28 | 17 | 16,5 | 20 | 44 | 6 | 93 | 50 | M3 x 16 | 2,1 | 4 | 0,044 |
| 615 416 00 | 16 | 32 | 17 | 16,5 | 21 | 86 | 10 | 158 | 79 | M4 x 16 | 4,9 | 4 | 0,067 |
| 615 417 00 | 17 | 35 | 21 | 20,5 | 25 | 88 | 10 | 116 | 56 | M4 x 20 | 4,9 | 4 | 0,090 |
| 615 418 00 | 18 | 35 | 21 | 20,5 | 25 | 94 | 11 | 110 | 57 | M4 x 20 | 4,9 | 4 | 0,087 |
| 615 419 00 | 19 | 35 | 21 | 20,5 | 25 | 99 | 11 | 104 | 56 | M4 x 20 | 4,9 | 4 | 0,083 |
| 615 420 00 | 20 | 38 | 21 | 20,5 | 26 | 179 | 17 | 169 | 89 | M5 x 20 | 10 | 4 | 0,10 |
| 615 422 00 | 22 | 40 | 21 | 20,5 | 26 | 187 | 18 | 146 | 80 | M5 x 20 | 10 | 4 | 0,11 |
| 615 424 00 | 24 | 47 | 26 | 25 | 32 | 290 | 24 | 155 | 79 | M6 x 25 | 17 | 4 | 0,20 |
| 615 425 00 | 25 | 47 | 26 | 25 | 32 | 300 | 24 | 147 | 78 | M6 x 25 | 17 | 4 | 0,19 |
| 615 425 40 | 25,4 | 47 | 26 | 25 | 32 | 310 | 24 | 145 | 79 | M6 x 25 | 17 | 4 | 0,18 |
| 615 428 00 | 28 | 50 | 26 | 25 | 32 | 480 | 34 | 186 | 105 | M6 x 25 | 17 | 6 | 0,22 |
| 615 430 00 | 30 | 55 | 26 | 25 | 32 | 510 | 34 | 174 | 95 | M6 x 25 | 17 | 6 | 0,27 |
| 615 432 00 | 32 | 55 | 26 | 25 | 32 | 600 | 38 | 181 | 105 | M6 x 25 | 17 | 6 | 0,25 |
| 615 435 00 | 35 | 60 | 31 | 30 | 37 | 820 | 47 | 172 | 100 | M6 x 30 | 17 | 8 | 0,36 |
| 615 438 00 | 38 | 65 | 31 | 30 | 37 | 880 | 47 | 157 | 92 | M6 x 30 | 17 | 8 | 0,43 |
| 615 440 00 | 40 | 65 | 31 | 30 | 37 | 1000 | 50 | 171 | 99 | M6 x 30 | 17 | 8 | 0,40 |
| 615 442 00 | 42 | 75 | 36 | 35 | 44 | 1410 | 67 | 177 | 99 | M8 x 35 | 40 | 6 | 0,67 |
| 615 445 00 | 45 | 75 | 36 | 35 | 44 | 1510 | 67 | 165 | 99 | M8 x 35 | 40 | 6 | 0,63 |
| 615 448 00 | 48 | 80 | 36 | 35 | 44 | 2150 | 86 | 206 | 123 | M8 x 35 | 40 | 8 | 0,74 |
| 615 450 00 | 50 | 80 | 36 | 35 | 44 | 2150 | 89 | 190 | 118 | M8 x 35 | 40 | 8 | 0,70 |
| 615 455 00 | 55 | 85 | 42 | 40 | 52 | 2772 | 110 | 270 | 174 | M8 x 40 | 40 | 8 | 0,77 |
| 615 460 00 | 60 | 90 | 42 | 40 | 52 | 3060 | 120 | 248 | 166 | M8 x 40 | 40 | 8 | 0,82 |
| 615 465 00 | 65 | 95 | 42 | 40 | 52 | 3645 | 120 | 253 | 174 | M8 x 40 | 40 | 9 | 0,88 |
| 615 470 00 | 70 | 110 | 48 | 45 | 58 | 5724 | 180 | 283 | 182 | M10 x 45 | 80 | 8 | 1,59 |
| 615 475 00 | 75 | 115 | 48 | 45 | 58 | 6210 | 180 | 268 | 129 | M10 x 45 | 80 | 8 | 1,67 |
| 615 480 00 | 80 | 120 | 54 | 50 | 65 | 6660 | 190 | 260 | 130 | M10 x 50 | 80 | 8 | 1,76 |
| 615 485 00 | 85 | 125 | 54 | 50 | 65 | 7560 | 190 | 273 | 123 | M10 x 50 | 80 | 9 | 1,85 |
| 615 490 00 | 90 | 130 | 58 | 55 | 70 | 8100 | 200 | 233 | 121 | M10 x 55 | 80 | 9 | 1,94 |
| 615 495 00 | 95 | 135 | 58 | 55 | 70 | 9900 | 230 | 271 | 140 | M10 x 55 | 80 | 10 | 2,02 |
| 615 500 00 | 100 | 145 | 58 | 55 | 70 | 11790 | 260 | 265 | 186 | M12 x 55 | 145 | 8 | 2,90 |

T = transmittable torque at F_{ax} = 0.

F_{ax} = transmittable axial force at T = 0.

P_w = surface pressure onto the shaft.

P_N = surface pressure onto the hub.

T_A = fastening torque of the screws.

Hub Calculation and Selection Tool

on the Internet at www.maedler.de

in the section **MÄDLER®-Tools**

Fit, Surface

Shaft and hub up to tolerance h8/H8.

Surface finish for shaft and hub R_z < 12.5 µm.

Mounting

The locking assembly has to sit inside the bore by at least the measure „L“. Slightly oil the locking assembly before mounting, do not use molybdenum disulphide or fat. Tighten the screws evenly and crosswise in several steps.

Demounting

Remove all tensioning screws and screw them into the (usually unused) forcing thread of the front ring, until the ring is released.