

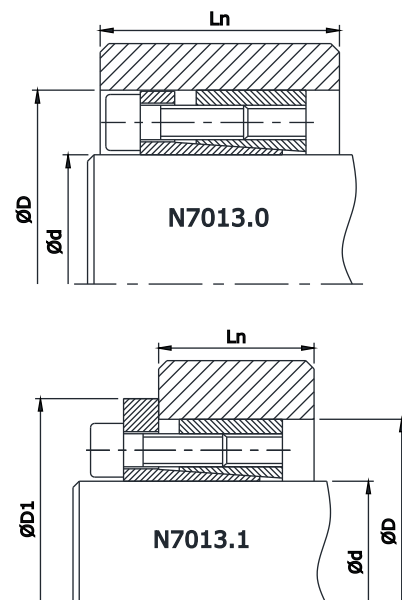
## Locking Assembly - Model N7013.0 & N7013.1



### ◆ Features :

- Two part Locking Assembly
- Torque Transmission Capacity: Medium
- Single Taper Design
- Self-Centering
- Slight displacement of Hub in N7013.0
- No displacement of Hub in N7013.1
- Easy Mounting & Removal
- Compact Design

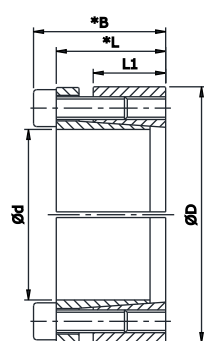
### ◆ Mounting Example:



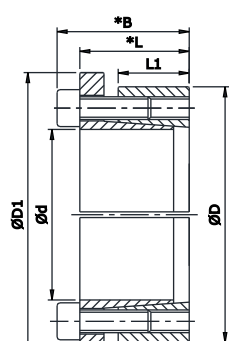
### ◆ Tolerance & Surface finish:

- A good Surface finish by Machine tool is sufficient. Maximum allowable Surface finish  $R_a \leq 3.2\mu m$
- Maximum Permissible Tolerance for Shaft is h8 & for Hub bore is H8.

## Locking Assembly Model N7013.0 / N7013.1



N7013.0



N7013.1

d = Inner diameter  
D = Outer diameter  
B = Overall width with screws  
L = Overall width without screws  
L1 = Width of outer ring  
Ma = Tightening torque of the screws  
Mt = Transmissible torque  
P' = Surface pressure on shaft  
P = Surface pressure on hub  
Pax = Axial Thrust  
W = Weight

| d x D<br>mm | L1<br>mm | L<br>mm | B<br>mm | D1<br>mm | Transmissible<br>Torque<br>Nm<br>(Mt) | Axial<br>Thrust<br>KN<br>(Pax) | Surface Pressure on  |                   | Tightening Screws<br>DIN912<br>12.9 |              |      |                                    | Weight<br>Kg<br>(W) |
|-------------|----------|---------|---------|----------|---------------------------------------|--------------------------------|----------------------|-------------------|-------------------------------------|--------------|------|------------------------------------|---------------------|
|             |          |         |         |          |                                       |                                | Shaft<br>N/mm2<br>P' | Hub<br>N/mm2<br>P | -13.0<br>No.                        | -13.1<br>No. | size | Tightening<br>Torque<br>Nm<br>(Ma) |                     |
| 20 x 47     | 22       | 31      | 37      | 53       | 300                                   | 30                             | 290                  | 90                | 4                                   | 6            | M6   | 17                                 | 0.29                |
| 22 x 47     | 22       | 31      | 37      | 53       | 330                                   | 30                             | 260                  | 90                | 4                                   | 6            | M6   | 17                                 | 0.27                |
| 24 x 50     | 22       | 31      | 37      | 56       | 420                                   | 40                             | 300                  | 110               | 5                                   | 7            | M6   | 17                                 | 0.31                |
| 25 x 50     | 22       | 31      | 37      | 56       | 440                                   | 40                             | 290                  | 110               | 5                                   | 7            | M6   | 17                                 | 0.3                 |
| 28 x 55     | 22       | 31      | 37      | 62       | 490                                   | 40                             | 260                  | 100               | 5                                   | 7            | M6   | 17                                 | 0.36                |
| 30 x 55     | 22       | 31      | 37      | 62       | 530                                   | 40                             | 240                  | 100               | 5                                   | 7            | M6   | 17                                 | 0.34                |
| 32 x 60     | 22       | 31      | 37      | 68       | 740                                   | 50                             | 270                  | 110               | 6                                   | 9            | M6   | 17                                 | 0.41                |
| 35 x 60     | 22       | 31      | 37      | 68       | 810                                   | 50                             | 250                  | 110               | 6                                   | 9            | M6   | 17                                 | 0.38                |
| 38 x 65     | 22       | 31      | 37      | 73       | 890                                   | 50                             | 230                  | 100               | 6                                   | 10           | M6   | 17                                 | 0.44                |
| 40 x 65     | 22       | 31      | 37      | 73       | 940                                   | 50                             | 220                  | 100               | 6                                   | 10           | M6   | 17                                 | 0.41                |
| 42 x 75     | 25       | 38      | 46      | 83       | 1730                                  | 80                             | 300                  | 130               | 6                                   | 9            | M8   | 41                                 | 0.76                |
| 45 x 75     | 25       | 38      | 46      | 83       | 1860                                  | 80                             | 290                  | 130               | 6                                   | 9            | M8   | 41                                 | 0.7                 |
| 48 x 80     | 25       | 38      | 46      | 88       | 1980                                  | 80                             | 270                  | 130               | 6                                   | 9            | M8   | 41                                 | 0.8                 |
| 50 x 80     | 25       | 38      | 46      | 88       | 2070                                  | 80                             | 260                  | 130               | 6                                   | 9            | M8   | 41                                 | 0.76                |
| 55 x 85     | 25       | 38      | 46      | 95       | 2540                                  | 90                             | 270                  | 140               | 7                                   | 10           | M8   | 41                                 | 0.82                |
| 60 x 90     | 25       | 38      | 46      | 100      | 2770                                  | 90                             | 250                  | 130               | 7                                   | 10           | M8   | 41                                 | 0.88                |
| 65 x 95     | 25       | 38      | 46      | 105      | 3580                                  | 110                            | 260                  | 140               | 8                                   | 12           | M8   | 41                                 | 0.94                |
| 70 x 110    | 33.5     | 50      | 60      | 120      | 5100                                  | 140                            | 240                  | 130               | 7                                   | 10           | M10  | 83                                 | 2.1                 |
| 75 x 115    | 33.5     | 50      | 60      | 125      | 5460                                  | 140                            | 230                  | 120               | 7                                   | 10           | M10  | 83                                 | 2.2                 |
| 80 x 120    | 33.5     | 50      | 60      | 130      | 5850                                  | 140                            | 210                  | 110               | 7                                   | 10           | M10  | 83                                 | 2.3                 |
| 85 x 125    | 33.5     | 50      | 60      | 135      | 7450                                  | 180                            | 230                  | 130               | 8                                   | 12           | M10  | 83                                 | 2.4                 |
| 90 x 130    | 33.5     | 50      | 60      | 140      | 7900                                  | 180                            | 220                  | 120               | 8                                   | 12           | M10  | 83                                 | 2.6                 |
| 95 x 135    | 33.5     | 50      | 60      | 145      | 9900                                  | 210                            | 260                  | 150               | 10                                  | 15           | M10  | 83                                 | 2.7                 |
| 100 x 145   | 41       | 58      | 68      | 155      | 11000                                 | 220                            | 190                  | 110               | 10                                  | 15           | M10  | 83                                 | 3.7                 |
| 110 x 155   | 41       | 58      | 68      | 165      | 12100                                 | 220                            | 180                  | 110               | 10                                  | 15           | M10  | 83                                 | 4                   |
| 120 x 165   | 41       | 58      | 68      | 175      | 15700                                 | 260                            | 190                  | 120               | 12                                  | 18           | M10  | 83                                 | 4.3                 |
| 130 x 180   | 45.5     | 65      | 77      | 190      | 20700                                 | 320                            | 190                  | 120               | 10                                  | 15           | M12  | 145                                | 5.9                 |
| 140 x 190   | 45.5     | 65      | 77      | 200      | 22500                                 | 320                            | 180                  | 110               | 10                                  | 15           | M12  | 145                                | 6.3                 |
| 150 x 200   | 45.5     | 65      | 77      | 210      | 28500                                 | 380                            | 200                  | 130               | 12                                  | 18           | M12  | 145                                | 6.7                 |

Dimensions/Design subject to modifications without any prior intimation.

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