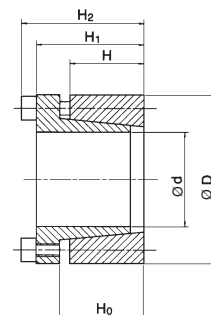
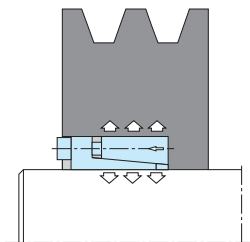


## SIT-LOCK® 6 - Self-Centering

Locking assembly with single taper design. Provides good concentricity and is self centering. A small axial movement of the hub during the installation operation may occur.

Applications requiring accurate axial positioning are not recommended with this type of locking assembly. SITLOCK® 6 is suitable for applications with medium torques.



### Installation

Carefully clean contact surfaces of shaft and hub. Then, lightly oil both surfaces with standard mineral oil. Position the SIT-LOCK® on the shaft and into the hub machined bore. Align them as required by the application. Gradually and uniformly tighten the locking screws to the tightening torque (Ms).

You must tighten the screws in diametrically opposite sequence in stages:

- hand tighten the screws until the surfaces are in contact

- carefully check the position of the hub on the shaft
- tighten the screws to half the value of the tightening torque (Ms) stated in the catalogue
- repeat the operation until the tightening torque is reached using the dynamometric screw-driver
- check every locking screw to insure it has been tightened to the specific tightening torque

*Do not use lubricant like "Molykote" or molybdenum disulfide based oils.*

### Removal

Gradually loosen all locking screws. Remove and transfer the screws into the releasing tapped holes and tighten them until the SIT-LOCK® is released.

*Note: To reuse the locking element, carefully oil the screws and the conical surfaces, then follow installation instructions.*

### Concentricity

For self-centering locking assemblies, the clamping element has a centering effect and the concentricity error can be considered 0.02-0.04 mm.

| Maximum allowable roughness   |
|-------------------------------|
| Rt 16 µm                      |
| Maximum recommended tolerance |
| shaft h 8 - hub H 8           |

## SIT-LOCK® 6

| Dimensions [mm] |    |                |                |                | Performances           |                         | Pressure [N/mm <sup>2</sup> ] |                | Clamping screws (DIN 912 - 12,9) |      |                        |
|-----------------|----|----------------|----------------|----------------|------------------------|-------------------------|-------------------------------|----------------|----------------------------------|------|------------------------|
| d x D           | H  | H <sub>0</sub> | H <sub>1</sub> | H <sub>2</sub> | M <sub>T</sub><br>[Nm] | F <sub>ax</sub><br>[kN] | p <sub>w</sub>                | p <sub>n</sub> | N°                               | Type | M <sub>S</sub><br>[Nm] |
| 20 x 47         | 17 | 22             | 28             | 34             | 380                    | 38                      | 297                           | 126            | 5                                | M 6  | 14                     |
| 22 x 47         | 17 | 22             | 28             | 34             | 419                    | 38                      | 270                           | 126            | 5                                | M 6  | 14                     |
| 24 x 50         | 17 | 22             | 28             | 34             | 457                    | 38                      | 247                           | 119            | 5                                | M 6  | 14                     |
| 25 x 50         | 17 | 22             | 28             | 34             | 571                    | 46                      | 285                           | 142            | 6                                | M 6  | 14                     |
| 28 x 55         | 17 | 22             | 28             | 34             | 639                    | 46                      | 254                           | 130            | 6                                | M 6  | 14                     |
| 30 x 55         | 17 | 22             | 28             | 34             | 685                    | 46                      | 237                           | 130            | 6                                | M 6  | 14                     |
| 32 x 60         | 17 | 22             | 28             | 34             | 974                    | 61                      | 297                           | 158            | 8                                | M 6  | 14                     |
| 35 x 60         | 17 | 22             | 28             | 34             | 1.065                  | 61                      | 271                           | 158            | 8                                | M 6  | 14                     |
| 38 x 65         | 17 | 22             | 28             | 34             | 1.157                  | 61                      | 250                           | 146            | 8                                | M 6  | 14                     |
| 40 x 65         | 17 | 22             | 28             | 34             | 1.218                  | 61                      | 237                           | 146            | 8                                | M 6  | 14                     |
| 42 x 75         | 20 | 25             | 33             | 41             | 2.060                  | 98                      | 310                           | 173            | 7                                | M 8  | 35                     |
| 45 x 75         | 20 | 25             | 33             | 41             | 2.207                  | 98                      | 289                           | 173            | 7                                | M 8  | 35                     |
| 48 x 80         | 20 | 25             | 33             | 41             | 2.354                  | 98                      | 271                           | 163            | 7                                | M 8  | 35                     |
| 50 x 80         | 20 | 25             | 33             | 41             | 2.452                  | 98                      | 260                           | 163            | 7                                | M 8  | 35                     |
| 55 x 85         | 20 | 25             | 33             | 41             | 3.082                  | 112                     | 270                           | 175            | 8                                | M 8  | 35                     |
| 60 x 90         | 20 | 25             | 33             | 41             | 3.363                  | 112                     | 248                           | 165            | 8                                | M 8  | 35                     |
| 65 x 95         | 20 | 25             | 33             | 41             | 4.098                  | 126                     | 257                           | 176            | 9                                | M 8  | 35                     |
| 70 x 110        | 24 | 30             | 40             | 50             | 6.240                  | 178                     | 281                           | 179            | 8                                | M10  | 70                     |
| 75 x 115        | 24 | 30             | 40             | 50             | 6.685                  | 178                     | 263                           | 171            | 8                                | M10  | 70                     |
| 80 x 120        | 24 | 30             | 40             | 50             | 7.131                  | 178                     | 246                           | 164            | 8                                | M10  | 70                     |
| 85 x 125        | 24 | 30             | 40             | 50             | 8.524                  | 201                     | 261                           | 177            | 9                                | M10  | 70                     |
| 90 x 130        | 24 | 30             | 40             | 50             | 9.025                  | 201                     | 246                           | 171            | 9                                | M10  | 70                     |
| 95 x 135        | 24 | 30             | 40             | 50             | 10.585                 | 223                     | 259                           | 182            | 10                               | M10  | 70                     |
| 100 x 145       | 26 | 32             | 44             | 56             | 13.045                 | 261                     | 266                           | 184            | 8                                | M12  | 125                    |
| 110 x 155       | 26 | 32             | 44             | 56             | 14.349                 | 261                     | 242                           | 172            | 8                                | M12  | 125                    |
| 120 x 165       | 26 | 32             | 44             | 56             | 17.610                 | 294                     | 250                           | 181            | 9                                | M12  | 125                    |
| 130 x 180       | 34 | 40             | 54             | 64             | 25.437                 | 391                     | 235                           | 170            | 12                               | M12  | 125                    |
| 140 x 190       | 34 | 40             | 54             | 68             | 28.155                 | 402                     | 224                           | 165            | 9                                | M14  | 190                    |
| 150 x 200       | 34 | 40             | 54             | 68             | 33.518                 | 447                     | 232                           | 174            | 10                               | M14  | 190                    |
| 160 x 210       | 34 | 40             | 54             | 68             | 39.327                 | 492                     | 240                           | 183            | 11                               | M14  | 190                    |
| 170 x 225       | 44 | 50             | 64             | 78             | 45.584                 | 536                     | 190                           | 144            | 12                               | M14  | 190                    |
| 180 x 235       | 44 | 50             | 64             | 78             | 48.265                 | 536                     | 180                           | 138            | 12                               | M14  | 190                    |
| 190 x 250       | 44 | 50             | 64             | 78             | 63.683                 | 670                     | 213                           | 162            | 15                               | M14  | 190                    |
| 200 x 260       | 44 | 50             | 64             | 78             | 67.035                 | 670                     | 202                           | 155            | 15                               | M14  | 190                    |

|                 |                             |                   |
|-----------------|-----------------------------|-------------------|
| M <sub>S</sub>  | Screw tightening torque     | Nm                |
| M <sub>T</sub>  | Transmissible torque moment | Nm                |
| F <sub>ax</sub> | Transmissible axial load    | N                 |
| p <sub>w</sub>  | Shaft pressure              | N/mm <sup>2</sup> |
| p <sub>n</sub>  | Hub pressure                | N/mm <sup>2</sup> |