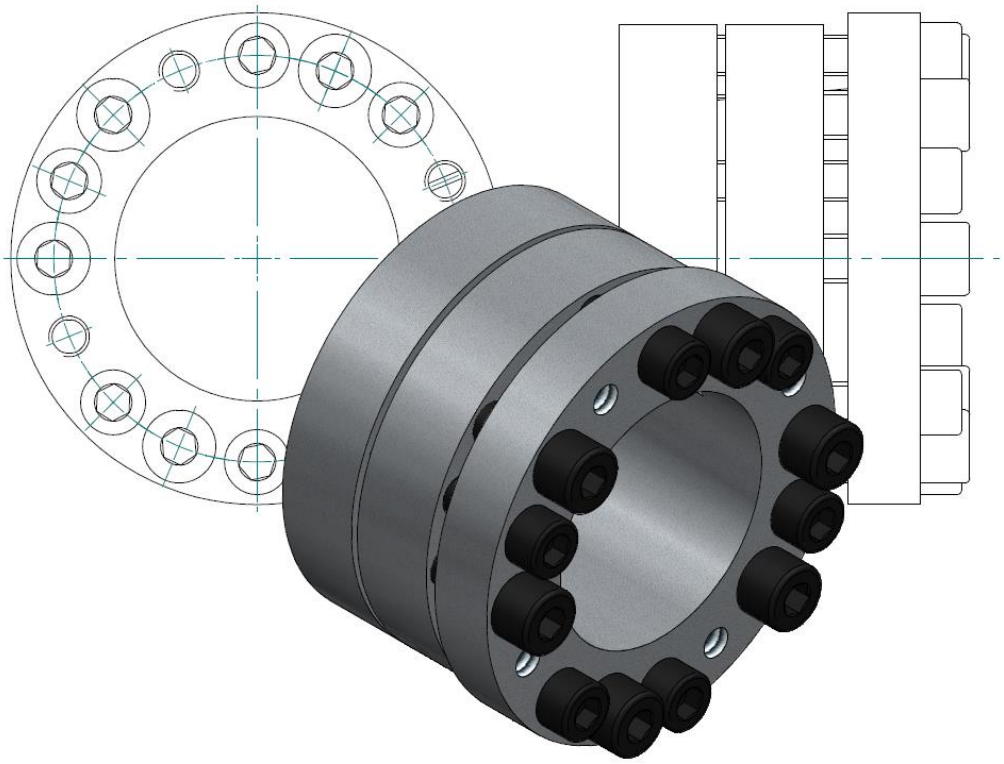
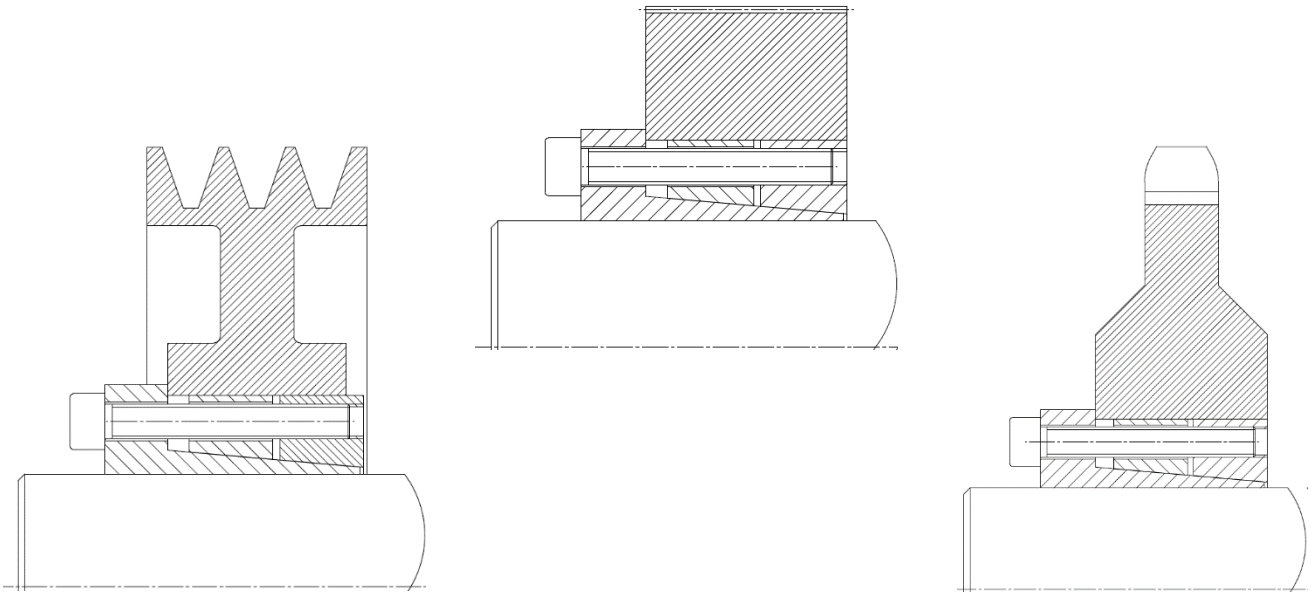
# Locking Device KBS 62





The **KBS 62 Locking Device** is a frictionally engaged shaft-hub connection for cylindrical shafts and bores without keyway.

## Characteristics

- generally delivered fully assembled
- self-centering
- true-running accuracy **0,02 – 0,04 mm**
- self-locking cone

### *Tolerances, Surfaces*

- one accurate rotating process is sufficient: **Rz ≤ 16 µm**
- maximum permissible tolerance: **d = h8/H8 – Shaft/Hub**

## Components of locking device KBS 62

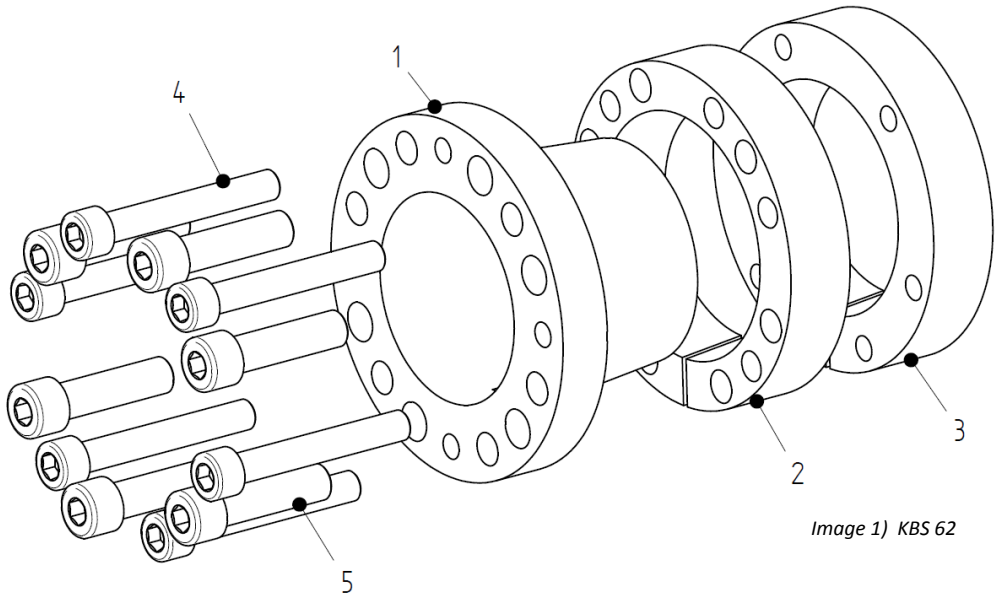



*Image 1) KBS 62*

| Component | Quantity | Description |
|---|---|---|
| 1 | 1 | innerring (slotted) |
| 2 | 1 | front pressure ring |
| 3 | 1 | back pressure ring |
| 4 | see cataloque | socket head screw DIN EN ISO 4762 |
| 5 | see cataloque | socket head screw DIN EN ISO 4762 |

**Information!**

Contaminated or used locking devices have to be detached and cleaned prior to installation. Then apply a thin layer of a low-viscosity oil (e.g. Ballistol Universal Oil or Klüber Quietsch Ex)

## Assembly of the locking device

- Check the shaft- and hub position regarding the mandatory tolerance (h8/H8).
- Contact surfaces of the locking device as well as the contact surfaces of shaft and hub must be cleaned (see image 2). Then apply a thin layer of low viscosity oil (e.g. Ballistol Universal Oil or Klüber Quietsch Ex).

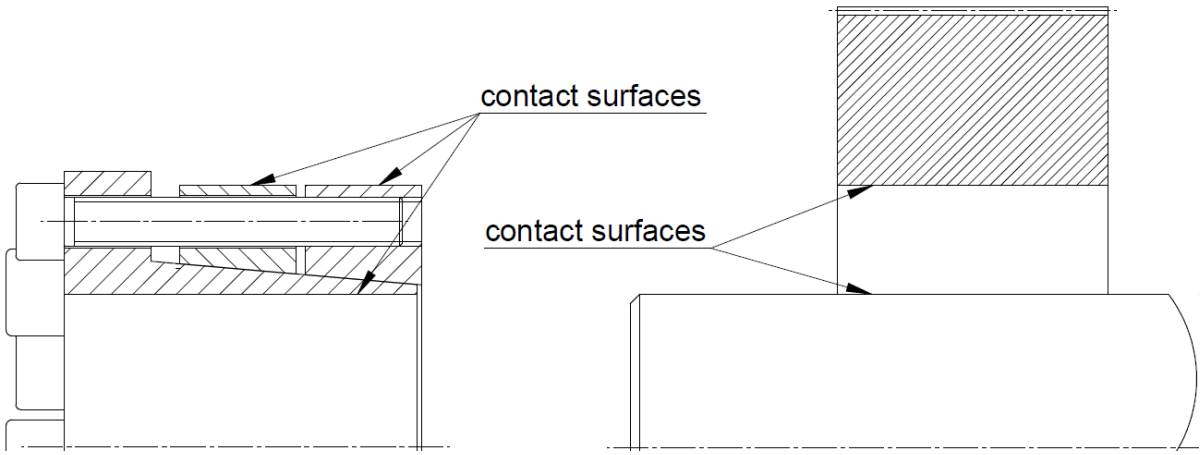



*Image 2) Cleaning the Contact Surfaces*

| | |
|---|---|
| **Attention!** | Do not use any oil, grease or sliding-grease paste reducing the coefficient of friction significantly. Oil-free assembly of the locking device cones may result in different values shown in the table and the values calculated. |

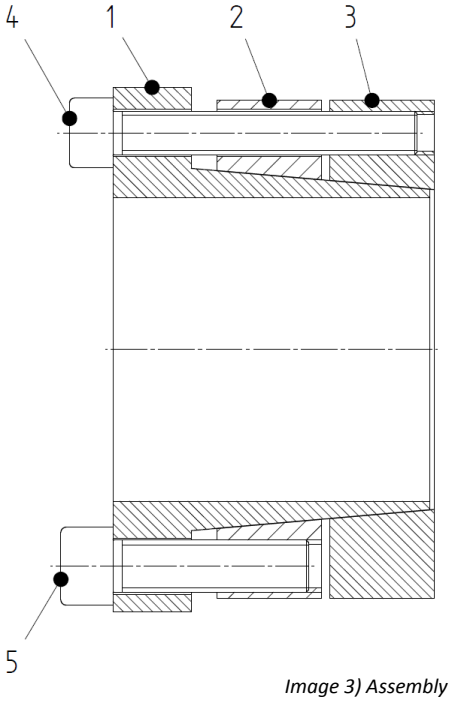



*Image 3) Assembly of Locking Device*

- Slightly loosen the clamping screws (4 and 5).
- Insert locking device KBS 62 between shaft and hub.
- Slightly tighten the clamping screws (4 und 5) manually and align the locking device with the hub.
- Tighten the clamping screws crosswise and evenly in several turns with the tightening torque specified in table 1. Repeat this procedure until a ¼-turn is no longer possible. Then tighten the clamping screws in sequence to the specified tightening torque.

**Table 1:**

| Locking Device | KBS 62 | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Thread size | M6 | M8 | M10 | M12 | M14 | M16 | M20 | M24 |
| Tightening torque $T_A$ [Nm] | 17 | 41 | 83 | 145 | 230 | 355 | 690 | 1200 |

## Disassembly of the locking device

| | |
|---|---|
| **Danger!** | Loosened of falling drive components may result in personal injury or damage to machines. Please secure the drive components prior to disassembly. |

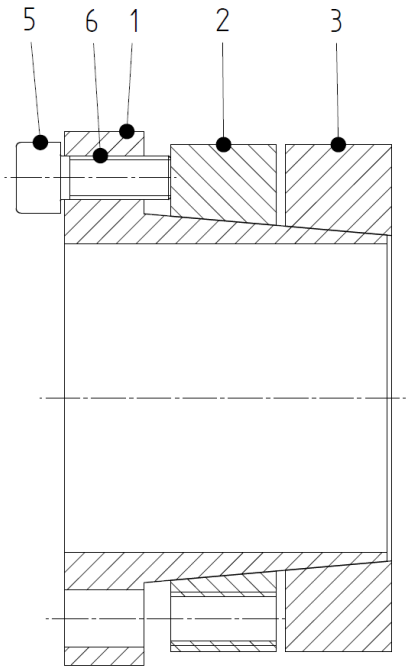



*Image 4) Disassembly Locking Device*

- Loosen all clamping screws evenly and in sequence (4 und 5) (*see image 3*) and unscrew them.
- Screw the clamping screws (5) into the draw-off thread (6) of the outer ring (1) (see image 4*).*
- Tighten clamping screws crosswise evenly with a ¼-turn. Increase the loosening torque gradually until pressure rings (2 and 3) are separated from the inner ring (1).
- Remove the loosened locking device between shaft and hub.

| | |
|---|---|
| **Attention!** | Non-observance of these instructions or non-consideration of operating conditions selecting the locking device may impair the function. |

***Disposal:*** *Defective clamping devices must be cleaned and scrapped.*