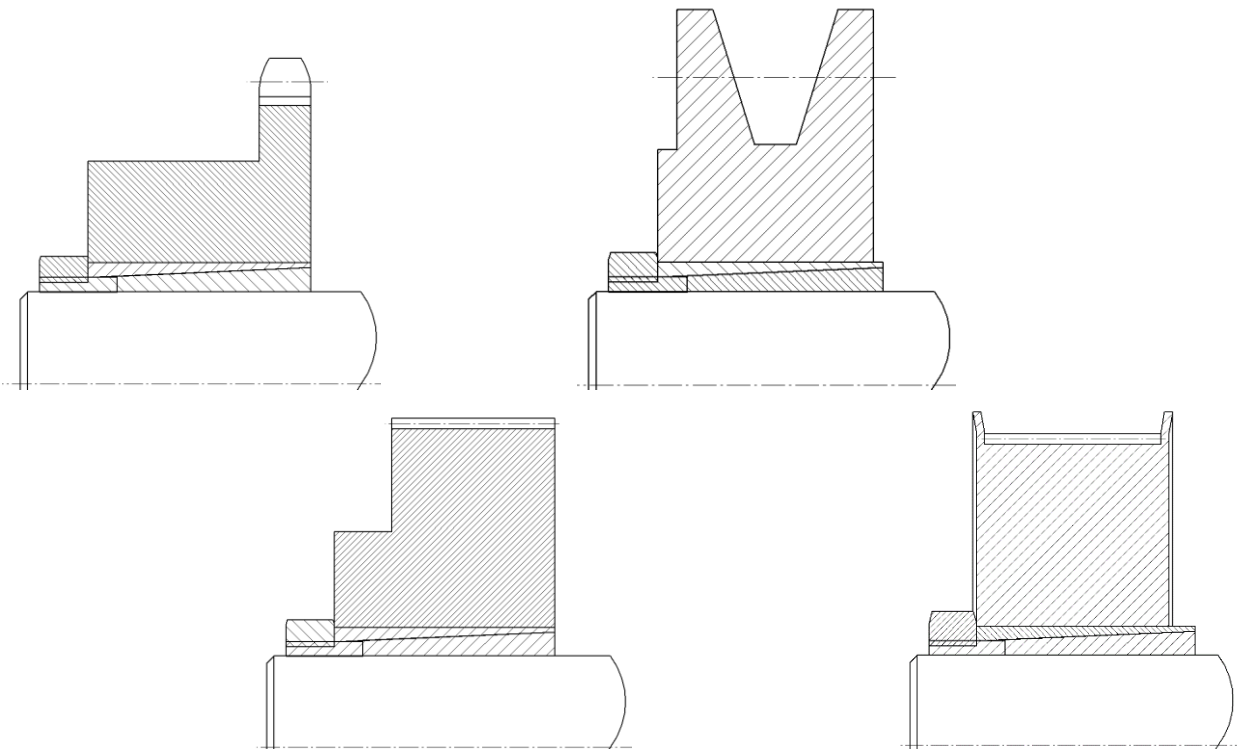
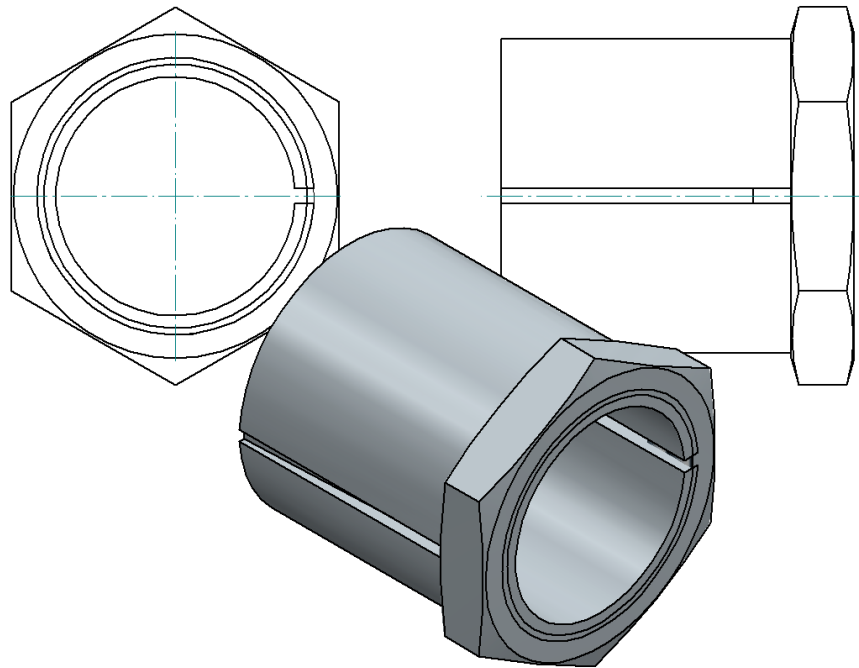




## Locking Device KBS 57



The **KBS 57 Locking Device** is a frictionally engaged shaft-hub connection for cylindrical shafts and bores without keyway.





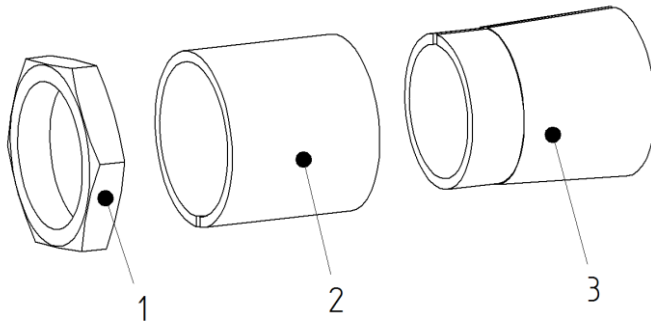
### Characteristics

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

### *Tolerances, Surfaces*

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

### Components of locking device KBS 57



Component	Quantity	Description
1	1	Hexagon nut
2	1	Outer ring (slotted)
3	1	Inner ring (slotted)

Image 1) KBS 57



#### Information!

Contaminated or used locking devices have to be disassembled 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 permitted tolerance (h8/H8).
- Clean contact surfaces both of the locking device, the shaft and the hub (see image 2). Then apply a thin layer of low viscosity oil (e.g. Ballistol Universal Oil or Klüber Quietsch Ex).

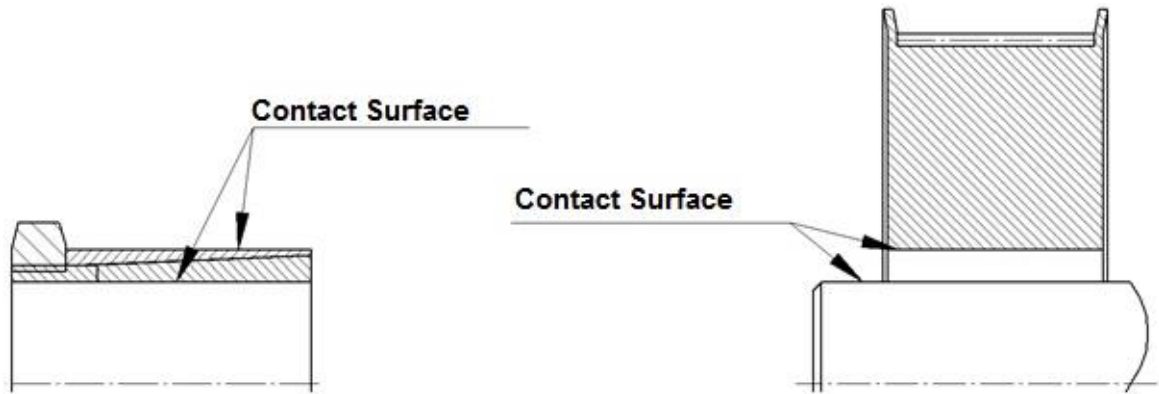


Image 2) Cleaning the contact surfaces



**Attention!**

You must not use any oil or grease that increases the friction coefficient significantly. Oil-free assembly may result in deviating table and calculation values.

- Slightly loosen the hexagon nut (component 1). Insert locking device KBS 57 between shaft and hub.
- Slightly tighten the hexagon nut manually and align the locking device with the hub.
- Tighten the hexagon nut to the torque stated in table1.

**Table 1:**

Locking device	KBS 57					
Size d x D	4 x 8	5 x 10	6 x 10	6,35 x 10	7 x 12	8 x 14
Wrench size SW	8	10	10	10	12	16
Torque T <sub>A</sub> [Nm]	4	5	8	8	9	15
Size d x D	9 x 14	9,52 x 14	10 x 17	11 x 17	12 x 17	14 x 20
Wrench size SW	16	16	18	18	18	22
Torque T <sub>A</sub> [Nm]	15	15	19	19	19	25



Size d x D	15 x 20	15,88 x 23	16 x 23	17 x 23	19 x 25	20 x 28
Wrench size SW	22	26	26	26	26	30
Torque T <sub>A</sub> [Nm]	25	27	27	27	30	32
Size d x D	25 x 32	30 x 37	35 x 43	40 x 50		
Wrench size SW	34	38	48	55		
Torque T <sub>A</sub> [Nm]	42	47	52	58		



**Information!**

During assembly, there might be an axial displacement of the hub relative to the shaft, using the KBS 57.

**Disassembly of the locking device**



**Danger!**

Loosened or falling drive components can cause personal injury or machine damages. Secure the drive components prior to disassembly.

- Loosen the clamping nut (component1).
- Turn the clamping nut counter-clockwise until locking device KBS 57 can be moved.
- Remove the loosened locking device.

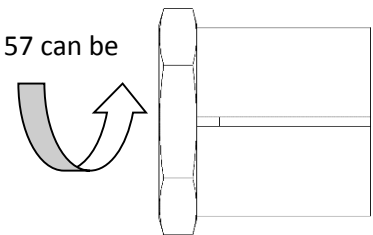


Image 3) Loosening the locking device



**Attention!**

Non-compliance with these instructions as well as disregarded operating conditions dimensioning the locking device can influence the function of the locking device.

**Disposal:** Defective locking devices must be cleaned and disposed.

