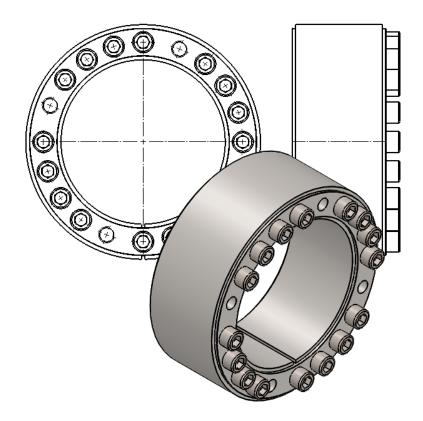
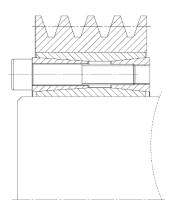
Operating / Assembly Instruction Locking Device KBS 10

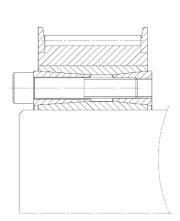
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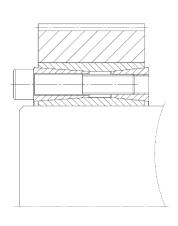


# Locking Device KBS 10









**KBS 10 Locking Device** is a frictionally engaged detachable shaft-hub connection for cylindrical shafts and bores without keyway.

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# Operating / Assembly Instruction

Locking Device KBS 10

# 

#### **Features**

- delivered in mounted condition
- self-centering
- concentricity 0,02 0,04 mm

#### **Tolerances, Surfaces**

- a good turning process is sufficient: **Rz ≤ 16 μm**
- maximum tolerance: d = h11/H11 shaft/hub

#### Components of the locking device KBS 10

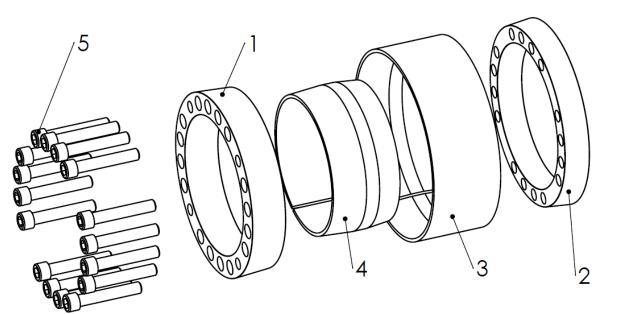


Image 2) KBS 10

Component	Quantity	Description		
1	1	front pressure ring		
2	1	rear pressure ring		
3	1	outer ring (slotted)		
4	1	inner ring (slotted)		
5	see catalogue	socket head screww DIN EN ISO 4762		



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

Information!

### **Operating / Assembly Instruction**



#### Assembly of the locking device

- Check shaft- and hub-position regarding the stipulated tolerance (h11/H11). •
- Contact surfaces of locking device as well as contact surfaces of shaft and hub have to be • cleaned (see image 3). Then apply a thin layer of low viscosity oil (e.g. Ballistol Öl or Klüber Quietsch-Ex).

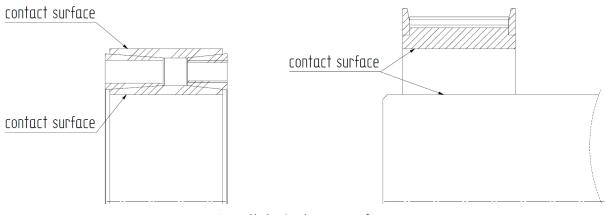


Image 3) cleaning the contact surfaces



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

- Slightly loosen the clamping screws. Then insert the locking device KBS 10 between shaft and hub.
- Slightly tighten the clamping screws manually and align the locking device with the hub. •
- Tighten clamping screws crosswise and evenly in several turns with the tightening torque • specified in table 1. Repeat this procedure until a 1/4-turn is no longer possible. Then tighten the clamping screws in sequence according to the specified tightening torque.

#### Table 1:

Locking Device	KBS 10						
Thread Size M	M10	M12	M14	M16	M18	M20	
Tightening Torque T <sub>A</sub> [Nm]	84	145	235	365	500	710	

## Operating / Assembly Instruction Locking Device KBS 10



#### **Disassembly of the locking device**



Loosened or falling drive components may result in personal injuries or damage to machines. Please secure all drive components prior to disassembly.

- Loosen all clamping screws by 3-4 threads.
- Screw the clamping screws into the draw-off thread of the outer pressure ring (component 1) (see image 4).
- Tighten clamping screws crosswise and evenly with a ¼-turn. Increase loosening torque • gradually until one of both pressure ring (component 1/2) are separated.
- Remove the loosened locking device between shaft and hub. •

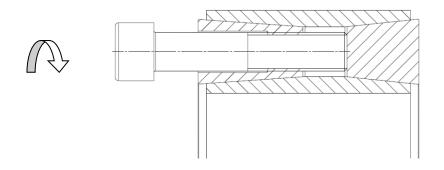
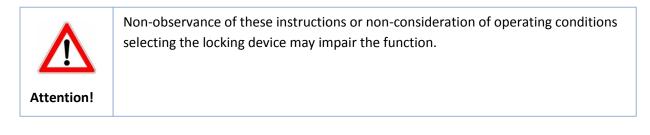


Image 4) Loosening the pressure ring



Disposal: Defective locking devices must be cleaned and scrapped.