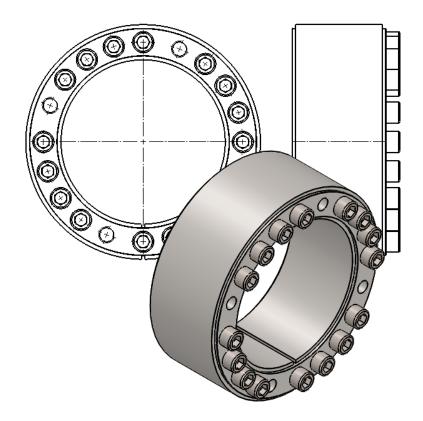
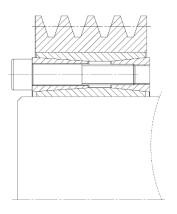
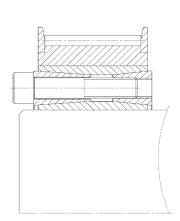
Operating / Assembly Instruction Locking Device KBS 10

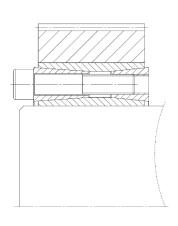


Locking Device KBS 10









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

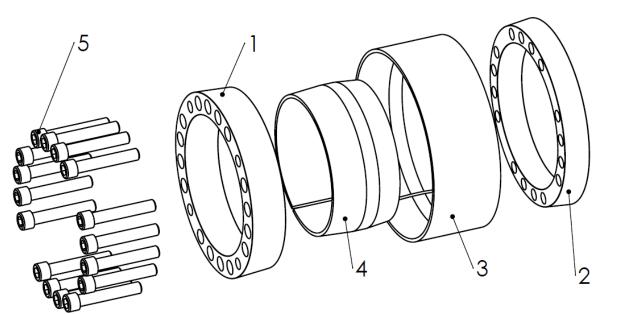


Image 2) KBS 10

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).

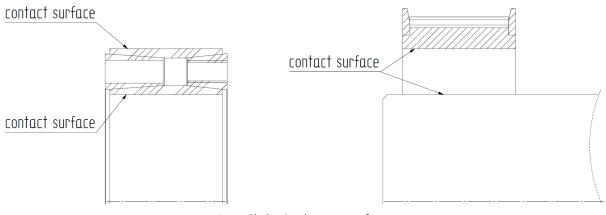


Image 3) cleaning the contact surfaces



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 _A [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. •

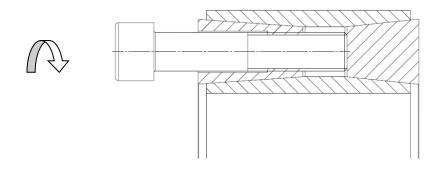
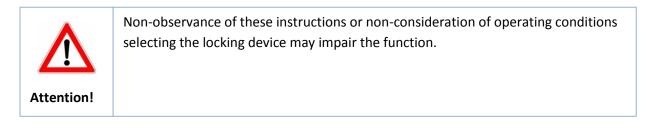


Image 4) Loosening the pressure ring



Disposal: Defective locking devices must be cleaned and scrapped.