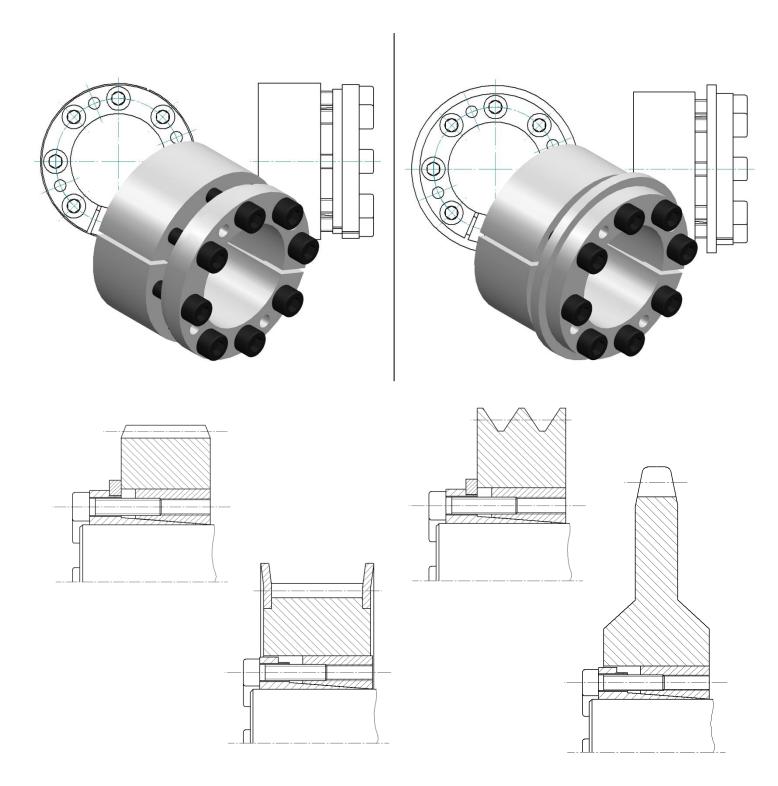




Locking Device KBS 70 / KBS 71



KBS 70 / KBS 71 Locking Device is a frictionally engaged detachable shaft-hub connection for cylindrical shafts and bores without keyway.

Operating / Assembly Instruction Locking Device KBS 70 / KBS 71





Features

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

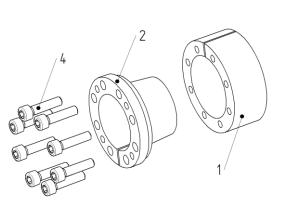
Tolerances, Surfaces

- a good turning process is sufficient: **Rz ≤ 16 μm**
- maximum tolerance: d = h8/H8 shaft/hub

Components of locking device

KBS 70

KBS 71





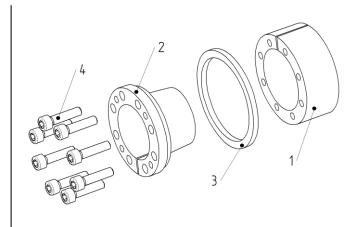


Image 3)	KBS 71

Component	Quantity	Description	
1	1	outer ring (slotted)	
2	1	inner ring (slotted)	
3	1	axial ring	
4	see catalogue	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 low viscosity oil (e.g. Ballistol all-purpose oil or Klüber Quietsch-Ex).

Operating / Assembly Instruction Locking Device KBS 70 / KBS 71





Assembly of the locking device

- Check shaft- and hub-position regarding the stipulated tolerance (h8/H8).
- Clean contact surfaces of locking device as well as contact surfaces of shift and hub (see image 3). Then apply a thin layer of low viscosity oil (e.g. Ballistol oil or Klüber
- Quietsch-Ex)

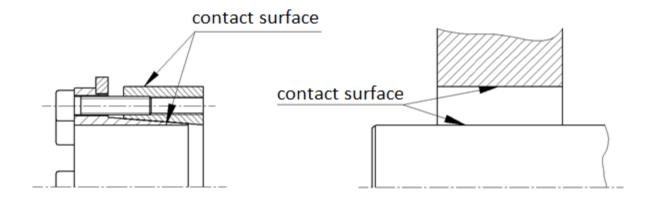


Image 4) Cleaning the contact surfaces



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

- Slightly loosen the clamping screws. Insert clamping set KBS 70 / KBS 71 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 70 / KBS 71					
Thread Size M	M6	M8	M10	M12	M14	
Tightening Torque T _A [Nm]	17	41	83	145	230	



Assembly of the KBS 70 may result in an axial displacement between hub and shaft.

Information!

Operating / Assembly Instruction Locking Device KBS 70 / KBS 71





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.

DANGER!

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

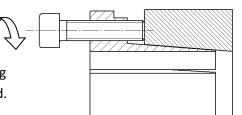


Image 5) Loosening the locking device



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

Disposal:

Defective locking devices must be cleaned and scrapped.