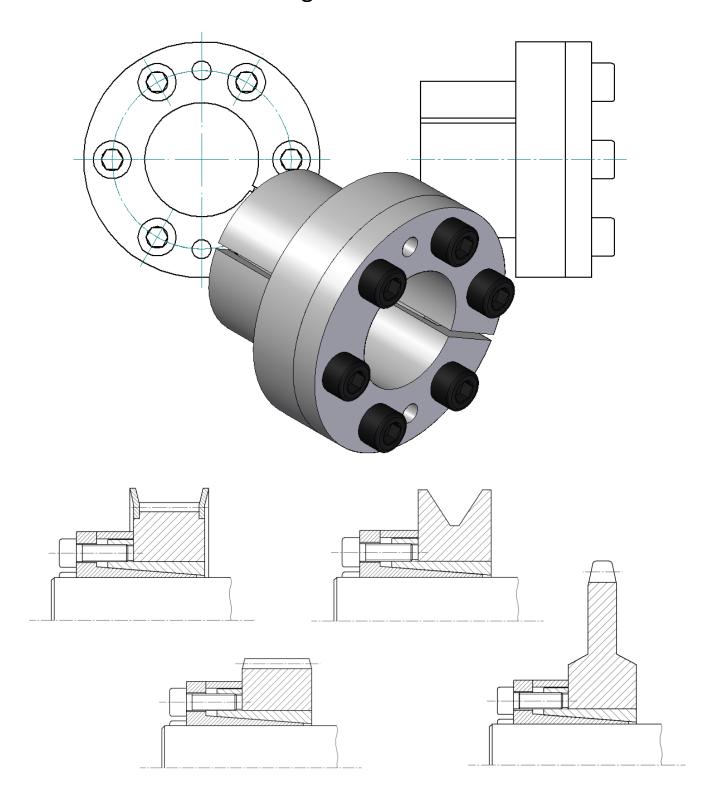
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# Locking Device KBS 80



**KBS 80 Locking Device** is a frictionally engaged detachable shaft-hub connection for cylindrical shafts and bores without keyway.





#### **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 80**

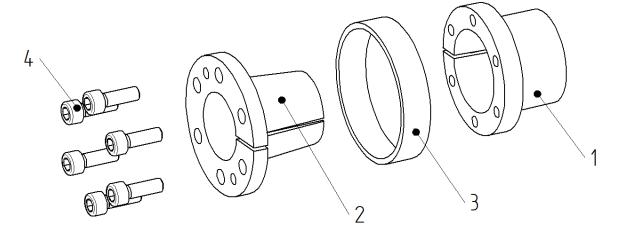


Image 2) KBS 80

Component	Quantity	Description		
1	1	outer ring (slotted)		
2	1	inner ring (slotted)		
3	1	axial ring		
4	see catalogue	head socket screw DIN EN 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 all-purpose oil or Klüber Quietsch-Ex).

Information!





#### 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)

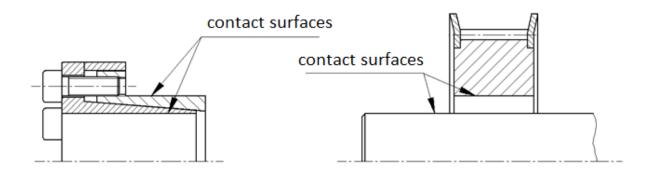


Image 3) Cleaning the contact surfaces



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.

- Slightly loosen the clamping screws. Insert the locking device KBS 80 between shaft and hub.
- Slightly tighten the clamping screws 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 <sup>1</sup>/<sub>4</sub>-turn is no longer possible. Then tighten the clamping screws in sequence according to the specified tightening torque.

Table 1:

Locking Device	KBS 80						
Thread Size M	M3	M4	M6	M8	M10	M12	
Tightening Torque T <sub>A</sub> [Nm]	2,2	5	17	41	83	154	



Assembly of the KBS 80 may result in an axial displacement between hub and shaft.





#### **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.



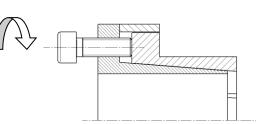


Image 5) Loosening the locking device



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.