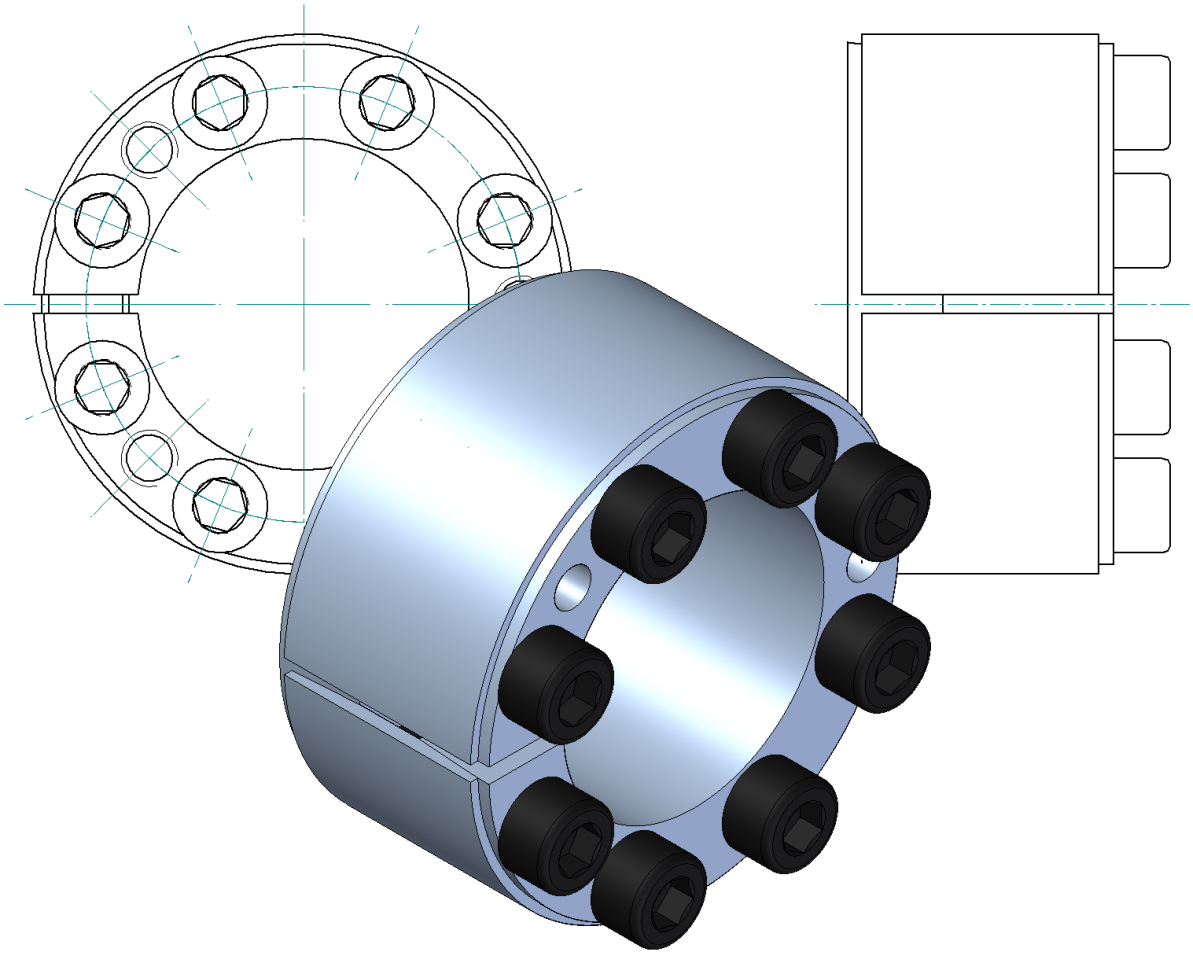
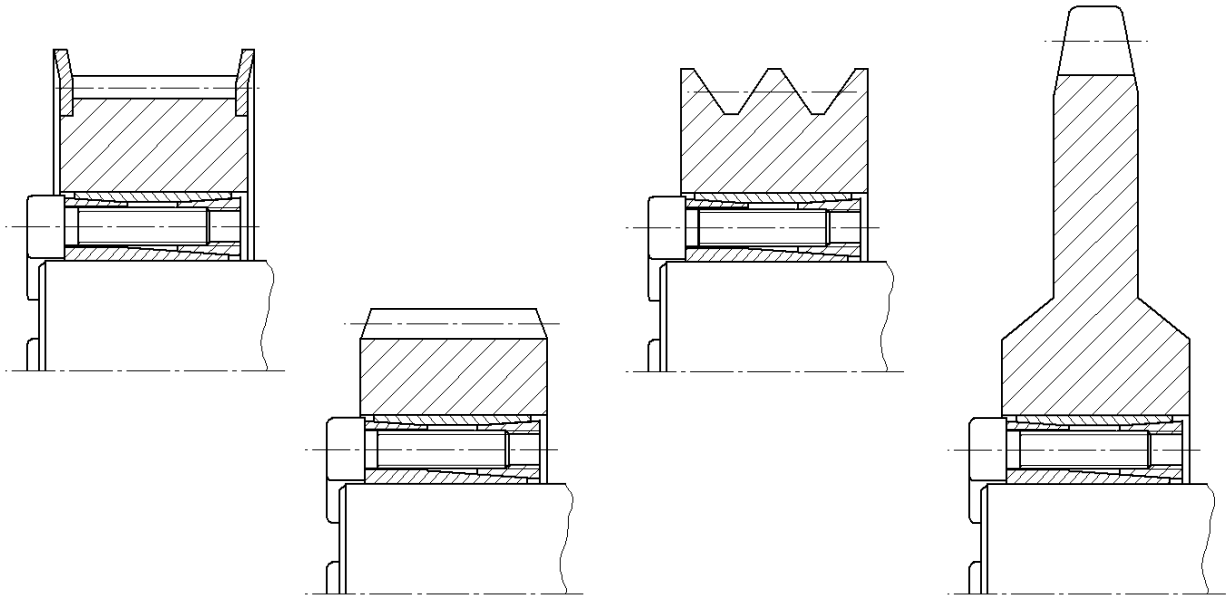
Locking Device KBS 52





KBS 52 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 52

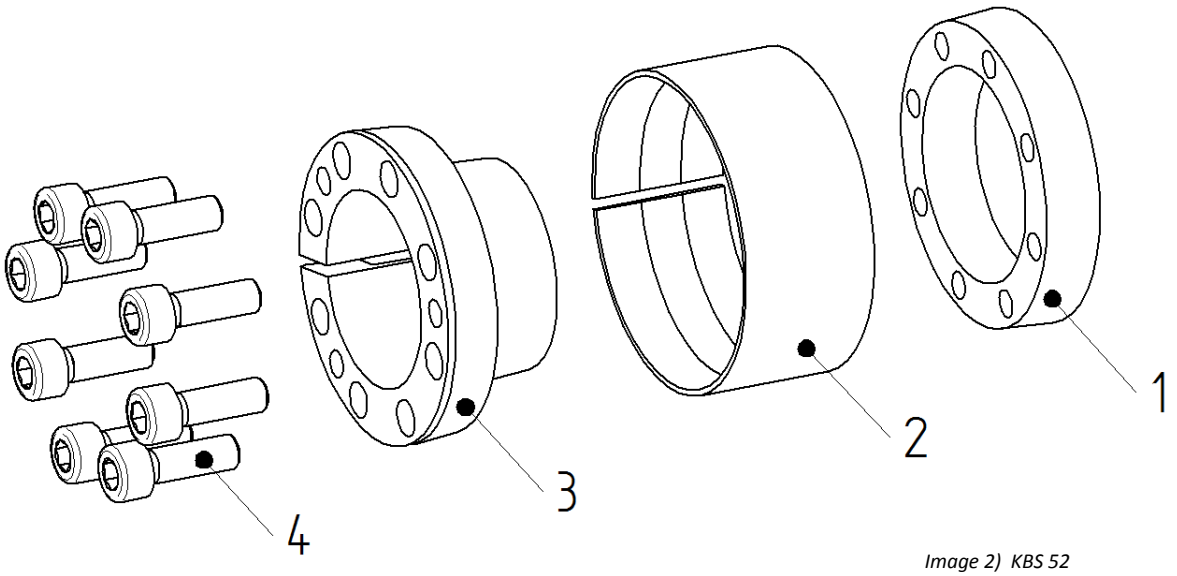


Image 2) KBS 52

Component	Quantity	Description
1	1	pressure ring
2	1	outer ring (slotted)
3	1	inner ring (slotted)
4	see catalogue	socket head screw DIN EN 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).

Assembly of the locking device

- Check shaft- and hub-position regarding the stipulated tolerance (h9/H9).
- 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)

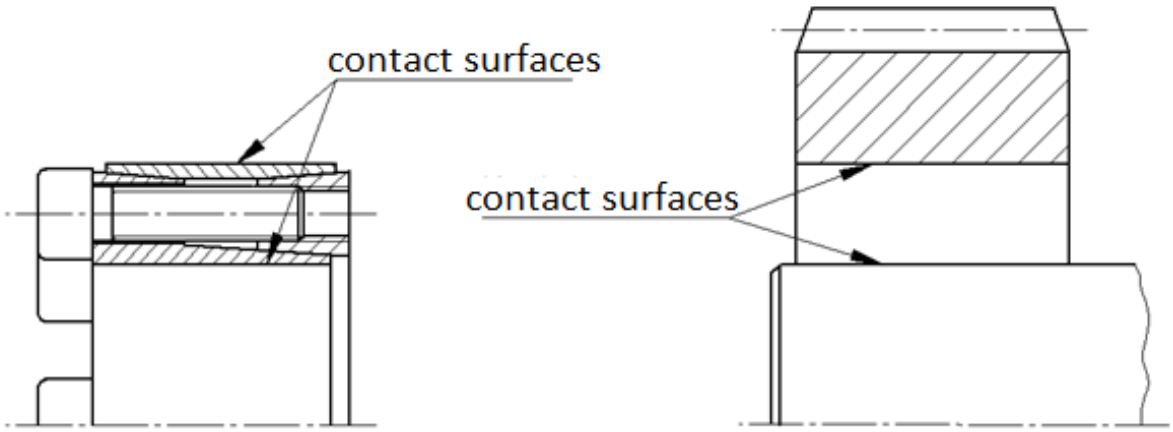


Image 3) Cleaning the contact surfaces

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 52 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 according to 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 52			
Thread Size M	M4	M6	M8	M10
Tightening Torque T_A [Nm]	5	17	41	83

Information!	Assembly of the KBS 52 may result in an axial displacement between hub and shaft.

Disassembly of the locking device

 **DANGER!**	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 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 the clamping screws evenly and crosswise by a ¼ -turn. Increase loosening torque until the outer ring (component 1) and the Inner ring (component 2) are separated.
- Remove the loosened locking device between shaft and hub.

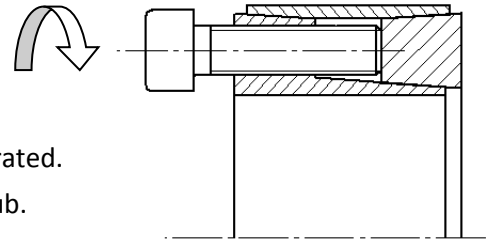


Image 5) Loosening the locking device

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

Disposal: *Defective locking device must be cleaned and scrapped.*