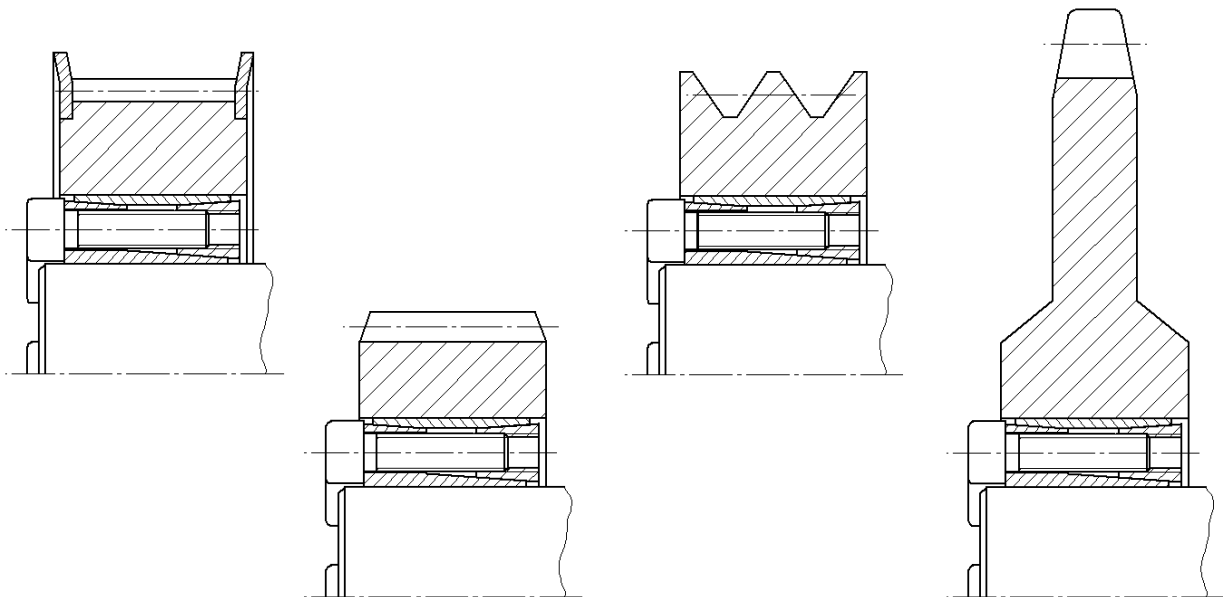
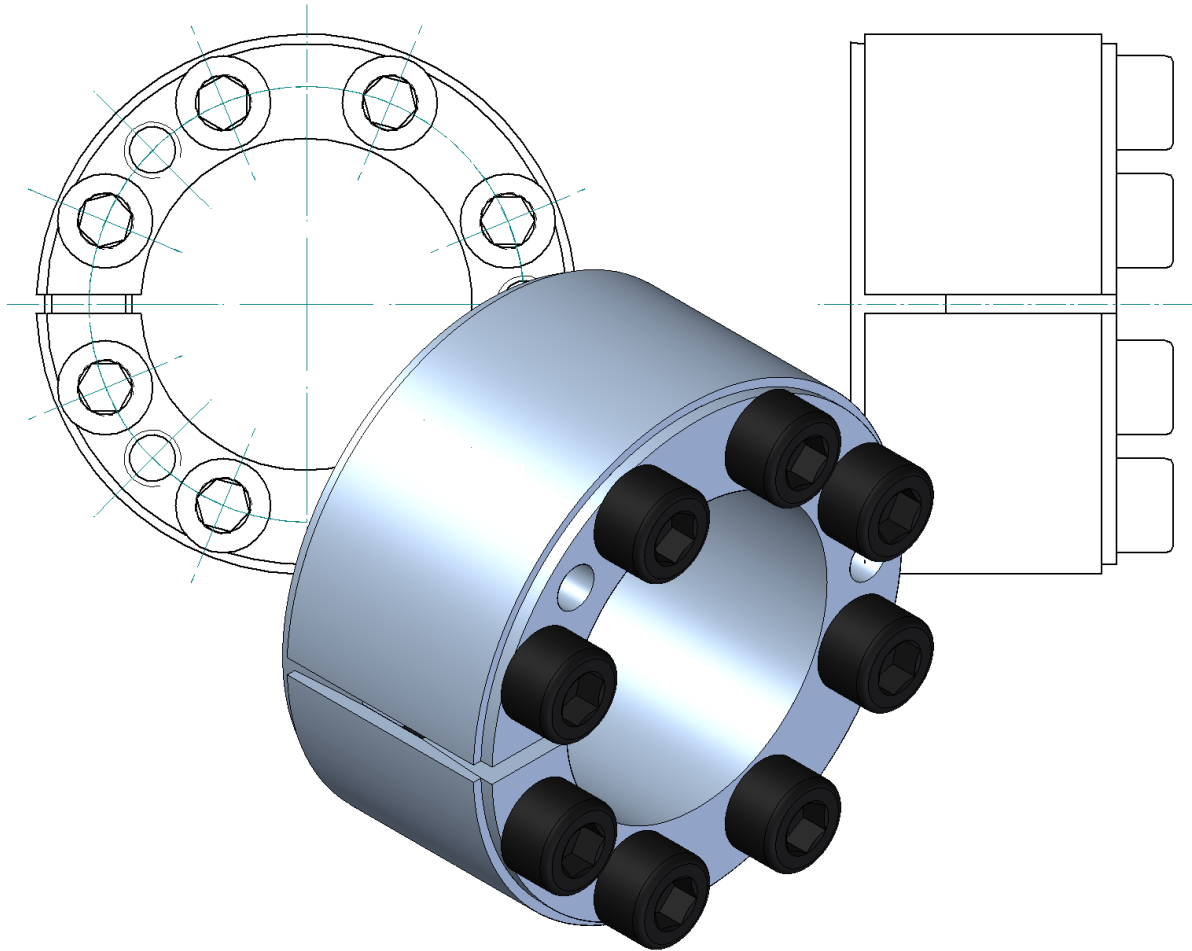




Clamping Set KBS 52



KBS 52 Clamping Set 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 clamping set KBS 52

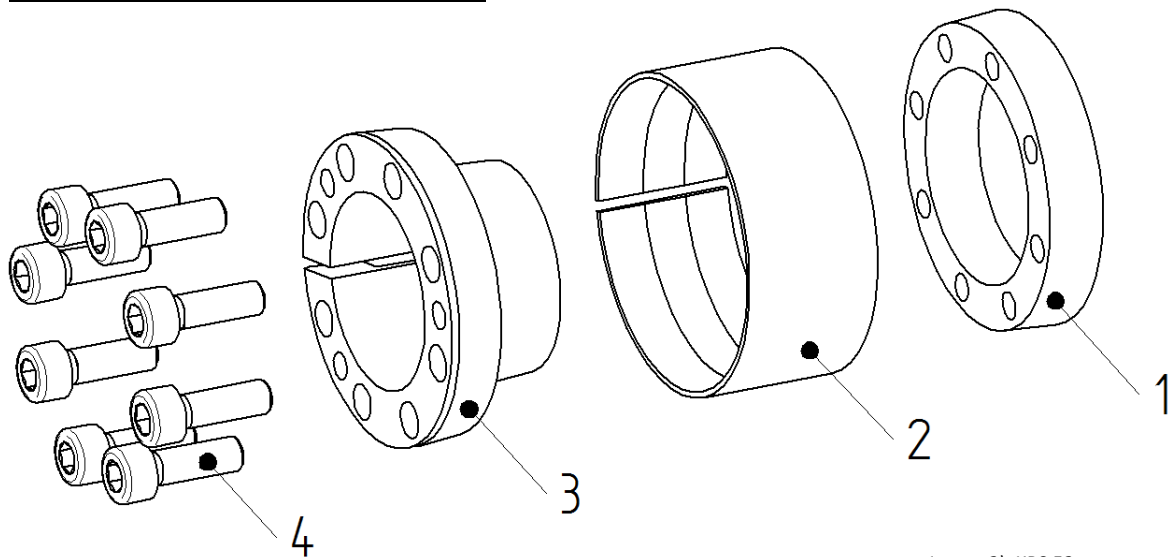


Image 2) KBS 52

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 clamping sets 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 clamping set

- Check shaft- and hub-position regarding the stipulated tolerance (h9/H9).
- Clean contact surfaces of clamping set 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)

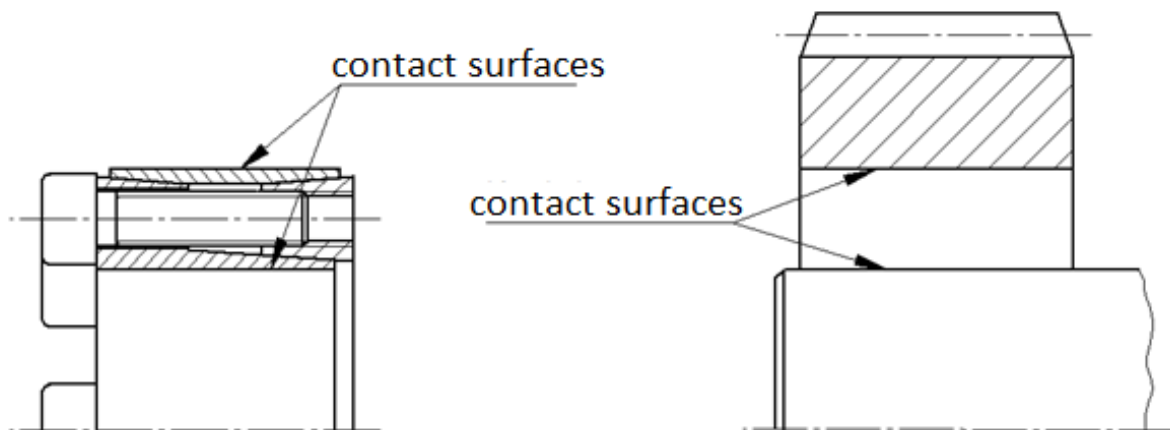


Image 3) Cleaning the contact surfaces



ATTENTION!

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

- Slightly loosen the clamping screws. Insert the clamping set KBS 52 between shaft and hub.
- Slightly tighten the clamping screws manually and align the clamping set 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 $\frac{1}{4}$ -turn is no longer possible. Then tighten the clamping screws in sequence according to the specified tightening torque.

Table 1:

Clamping Set	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 clamping set



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 $\frac{1}{4}$ -turn. Increase loosening torque until the outer ring (component 1) and the Inner ring (component 2) are separated.
- Remove the loosened clamping set between shaft and hub.

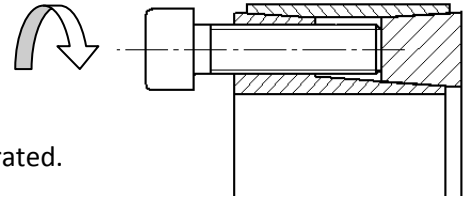


Image 5) Loosening the clamping set



ATTENTION!

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

Disposal: *Defective clamping sets must be cleaned and scrapped.*

