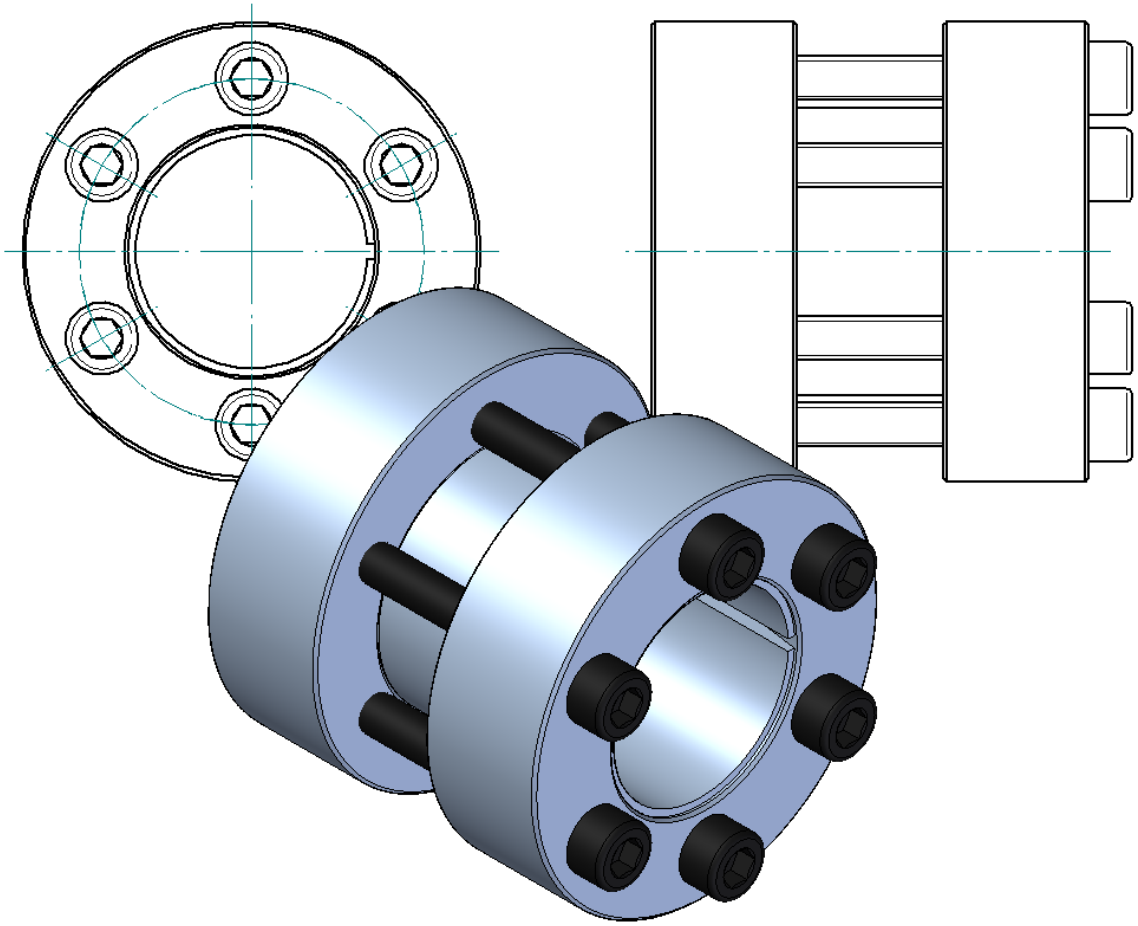
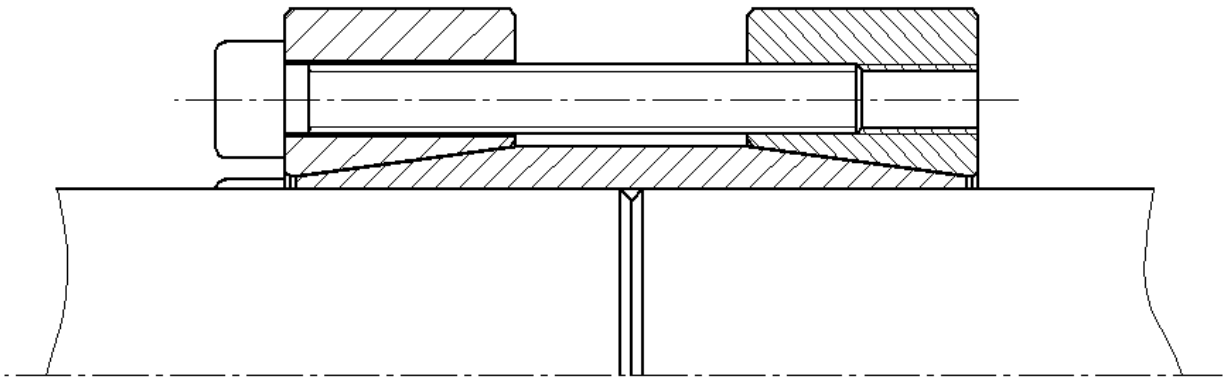
# Rigid Shaft Coupling KBS 95





**KBS 95 Rigid Shaft Coupling** is a frictionally engaged detachable shaft-hub connection for cylindrical shafts 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 for shafts**

## Components of the rigid shaft coupling KBS 95

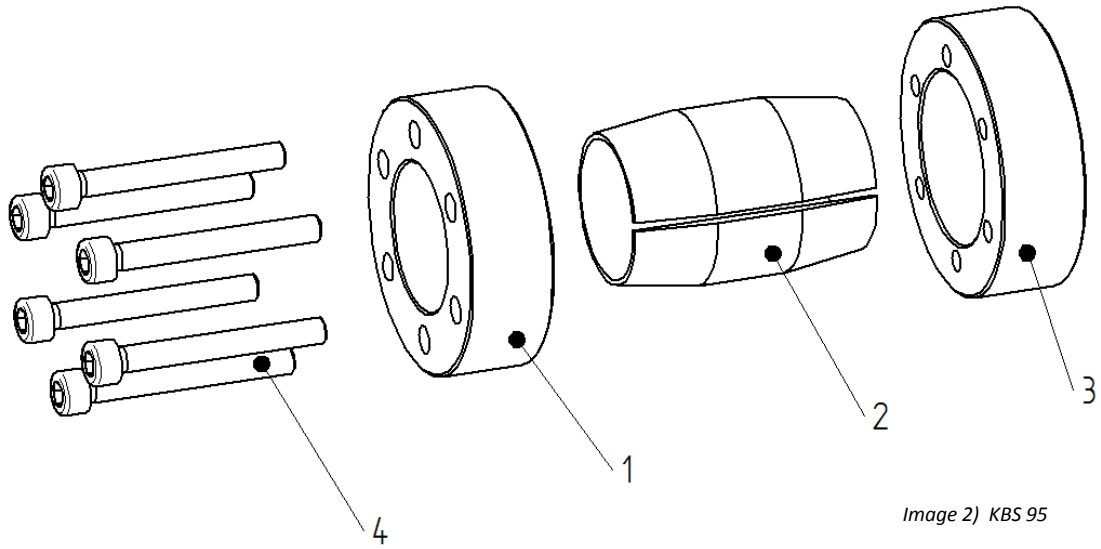



*Image 2) KBS 95*

| Component | Quantity | Description |
|---|---|---|
| 1 | 1 | front outer ring (through holes) |
| 2 | 1 | inner ring (slotted) |
| 3 | 1 | rear outer ring (with threaded holes) |
| 4 | see catalogue | socket head screw ISO 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. Castrol 4 in 1 or Klüber Quietsch Ex). |

## Assembly of the coupling

- Check shaft-position regarding the stipulated tolerance (h8).
- The contact surfaces of the shafts to be connected have to be cleaned and degreased. Then apply a thin layer of low viscosity oil (e.g. Castrol 4 in 1 or Klüber Quietsch Ex).

| | |
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| **ATTENTION!** | Do not use any oil or grease containing molybdenum-disulphide or high pressure additives as well as sliding-grease paste. |

- Loosen the clamping screws. (Do not remove them!) Place the rigid shaft coupling KBS 95 onto the shaft ends to be connected.
- Slightly tighten the clamping screws manually and align both the rigid shaft coupling and the shafts. (see image 3).

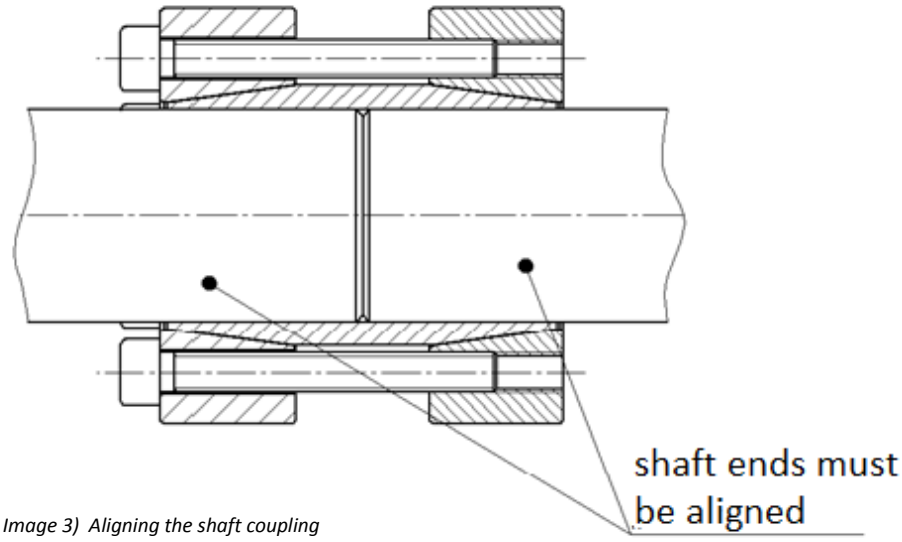


*Image 3) Aligning the shaft coupling*

- Tighten the clamping screws crosswise and evenly. Increase tightening torque gradually. Repeat this procedure until the tightening torque specified in table 1 has been reached by all clamping screws.

**Table 1:**

| Rigid Shaft Coupling | KBS 95 | | | | |
|---|---|---|---|---|---|
| Thread Size M | M6 | M8 | M10 - Ø70, 75 | M10 - Ø80, 85, 90 | M12 |
| Tightening Torqu $T_A$ [Nm] | 17 | 41 | 83 | 71 | 143 |

## Disassembly of the coupling

| | |
|---|---|
|  **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. Do not unscrew the clamping screws completely from the thread.
- Shaft couplings are not self-locking. In case the outer and inner tapered ring do not come loose, start the detachment process by a slight pressure onto several parts of the circumference.
- Remove the shaft from the rigid shaft coupling KBS 95.

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

***Disposal:*** *Defective shaft couplings have to be cleaned and scrapped.*