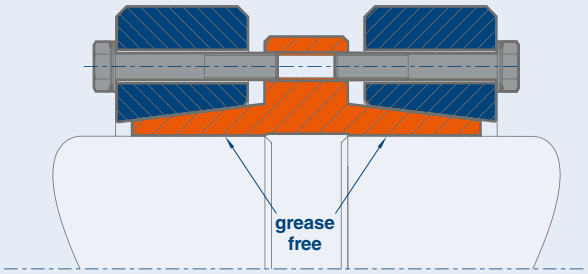
Mounting and Removal Instructions for

STÜWE® Shaft Coupling Type WK & WKL

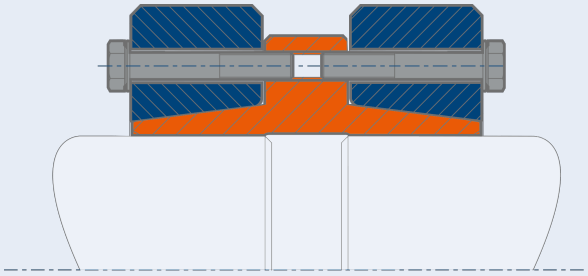
If two shafts with different diameters are to be connected, shaft couplings can be supplied with adapted holes.

Before Mounting



Conical surfaces and bolts are lubricated

After Mounting



Mounting

The STÜWE® shaft couplings type WK resp. WKL are supplied ready to be mounted. Therefore they should not be dismantled prior to employing the unit for the first time.

1. Using a solvent, degrease the shaft and the bore. Safe torque transmission substantially depends on this procedure. Dirty solvent or cleaning clothes should not be used for degreasing.
2. Push shaft coupling onto the shaft ends and align shafts exactly. The coupling is not able to compensate any misalignment or angle divergence.
3. Tighten four bolts evenly distributed over the circumference by reduced torque (approx. 50 to 70 % of maximum tightening torque).
4. Afterwards tighten all tightening bolts uniformly, one by one, over several revolutions until the specified tightening torque is achieved in all bolts. The correct mounting of the assembly can be checked easily: the clamping rings (WK) respectively the clamping rings and the center section (WKL) must be in tight contact.
5. Check each tightening bolt twice for the required tightening torque.

If the shaft clearance is bigger than state in our catalogue, please contact us!

Dismounting

The greased tapers are not self-locking.

The dismounting process is similar to mounting. The shaft coupling is released by loosing the tightening bolts uniformly one by one, initially not more than a quarter turn per bolt, until it is observed that the outer rings have released from the inner ring.

Under no circumstances should the locking bolts be completely removed as this could be dangerous and result in injury.

Cleaning and lubrication

Dismounted shaft couplings do not have to be dismantled and re-lubricated before remounting.

The shaft coupling has to be cleaned and re-lubricated only if employed in dirty environment.

Use a solid containing lubricant with a high content of MoS_2 and a coefficient of friction of μ = 0,04 to lubricate the conical surfaces. Usually a combination of bonded coating and paste is chosen.

Examples:

Lubricant	Source
Molykote D 321 R (bonded coating)	Dow Corning
Aema-Sol MO 84-K (bonded coating)	A.C. Matthes
Molykote G Rapid + (paste)	Dow Corning
Aema-Sol M 19 P (paste)	A.C. Matthes

The coupling bore (Ø dw) has to stay grease free.

The bolts have to be renewed if possible.
The bolts are lubricated with commercially availabe bolt lubricants (μ = 0,1)

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