

INSTALLATION AND HANDLING

SHAFT / AXIS MISALIGNMENT

Exact alignment of the shaft axes extends the service life of the coupling and adjacent components by minimizing reaction loads from misalignment.

FIT CLEARANCE

Overall shaft / hub clearance of 0.01 - 0.05 mm

INSTALLATION AND HANDLING PRECISION COUPLINGS



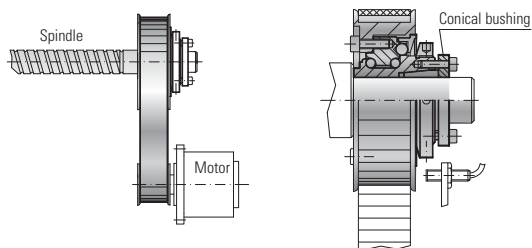
The installation and operating instructions are an integral part of the R+W coupling. Please read carefully and follow all instructions. Failure to comply with these procedures could result in poor performance and / or failure of the coupling. Installation should be performed by a qualified technician. This manual will be included with the delivery of the coupling.

INDIRECT DRIVES

SAFETY COUPLINGS / TORQUE LIMITERS

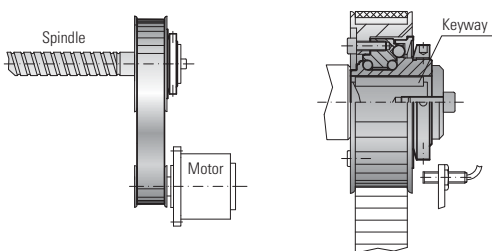
Drive components (e.g. timing belt sprockets) must be centered on the output flange prior to mounting. Please also refer to the maximum overhung load ratings and locations provided on page 89. If the overhung load is beyond the capacity of the coupling bearings, an additional bearing can be mounted on the shaft to support the overhung load.

SK1



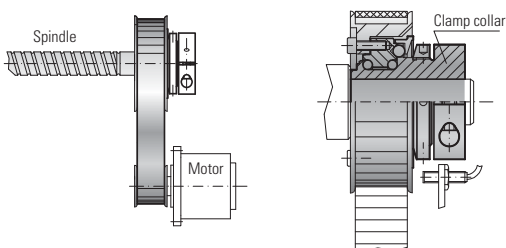
WITH CONICAL CLAMPING SYSTEM

SKP



WITH KEYWAY ONLY

SKN



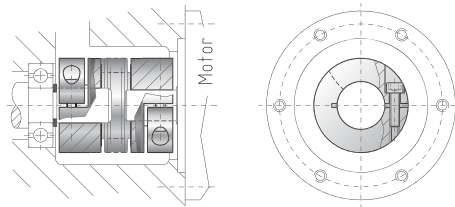
WITH CLAMP COLLAR

DIRECT DRIVES

METAL BELLOWS COUPLINGS

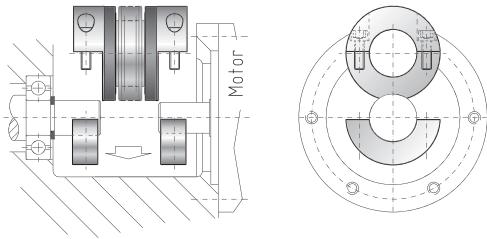
R+W bellows couplings are flexible shaft couplings. The flexible, torsionally rigid, stainless steel bellows provides backlash free torque transmission while compensating for lateral, axial, and angular misalignment, with very low restoring forces. A number of different hub designs are available to suit a variety of application requirements.

BK2



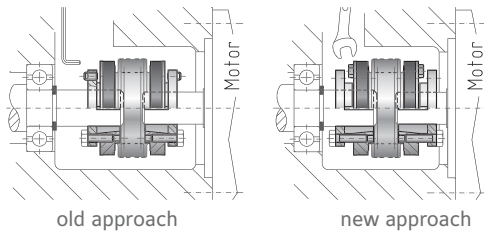
WITH CLAMPING HUB

BKH



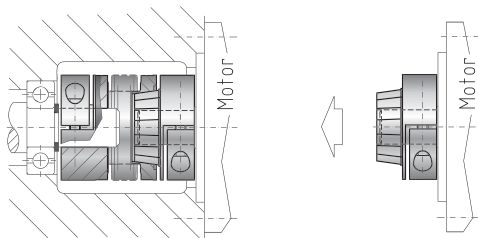
WITH FULLY SPLIT CLAMPING HUB

BK3



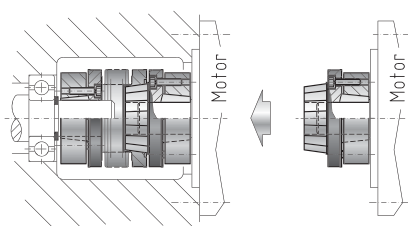
WITH CONICAL CLAMPING HUB

BK5



WITH CLAMPING HUB AND BLIND MATE CONNECTION

BK6

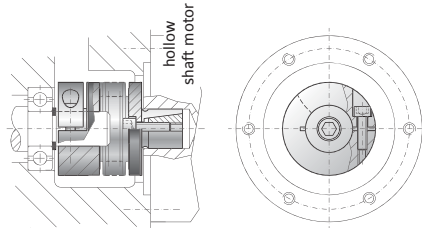


WITH CONICAL CLAMPING RING AND BLIND MATE CONNECTION

INSTALLATION AND HANDLING PRECISION COUPLINGS

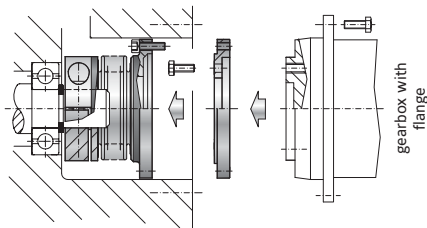
DIRECT DRIVES

BK7



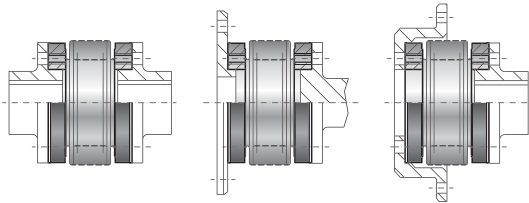
WITH EXPANDING SHAFT

BK8



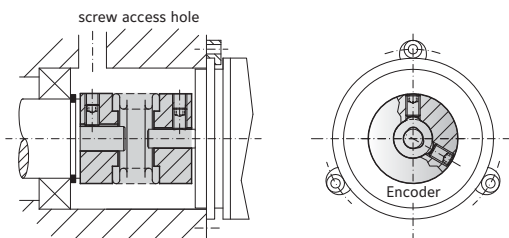
FOR ISO FLANGE MOUNTING

BK1



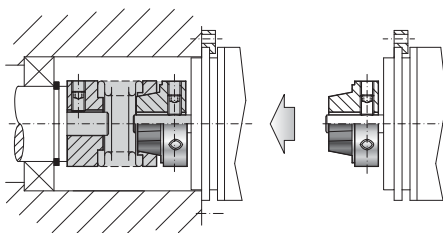
WITH SIMPLE MOUNTING FLANGE

MK1



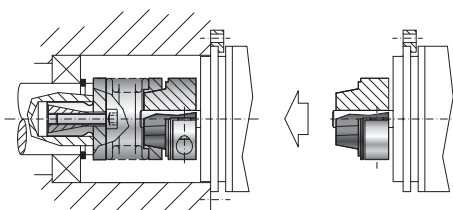
WITH RADIAL SET SCREWS

MK4



WITH RADIAL SET SCREWS
AND BLIND MATE CONNECTION

MK6



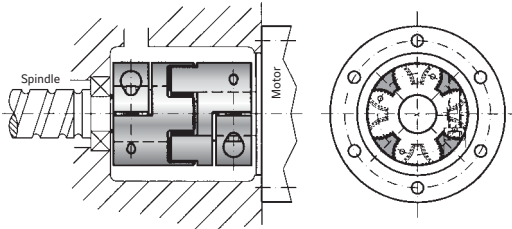
WITH EXPANDING SHAFT
AND BLIND MATE CONNECTION

DIRECT DRIVES

ELASTOMER COUPLINGS

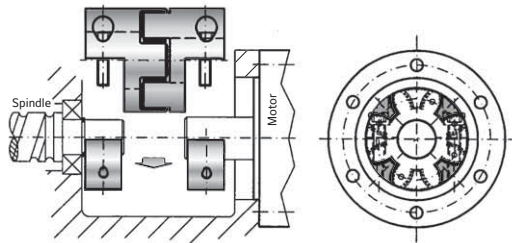
The equalizing element of EK couplings is the elastomer insert. It transmits torque without backlash or vibration. The elastomer insert defines the characteristics of the entire drive system. The coupling is backlash free due to a pretensioning of the elastomer insert between the two coupling halves. SERVOMAX couplings compensate for lateral, angular, and axial misalignment.

EK2



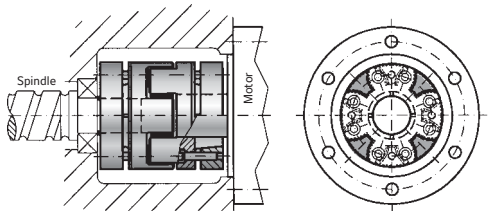
WITH CLAMPING HUB

EKH



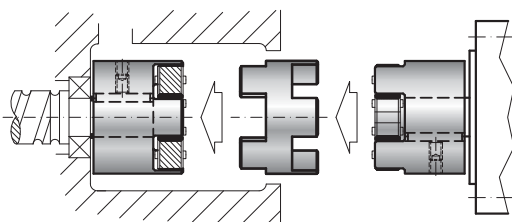
WITH FULLY SPLIT CLAMPING HUB

EK6



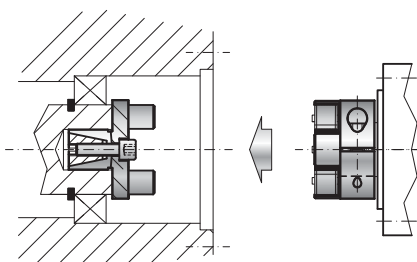
WITH CONICAL CLAMPING RING

EKZ



WITH DOUBLE FLEX AND SPACER

EK7



WITH EXPANDING SHAFT

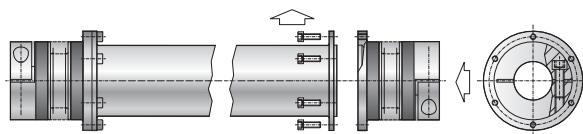
INSTALLATION AND HANDLING PRECISION COUPLINGS

DIRECT DRIVES

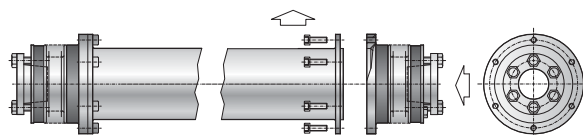
LINE SHAFTS

R+W line shafts are flexible shaft couplings for spanning longer distances between shaft ends. The compensation elements (bellows or elastomer) compensate for lateral, axial, and angular shaft misalignment. Torque transmission is backlash free with high torsional stiffness (bellows) or vibration damping (elastomer). In the case of bellows couplings, the tube is carried over a special support system which transfers the weight back to the hubs. Below are the various hub / shaft connections available.

ZA

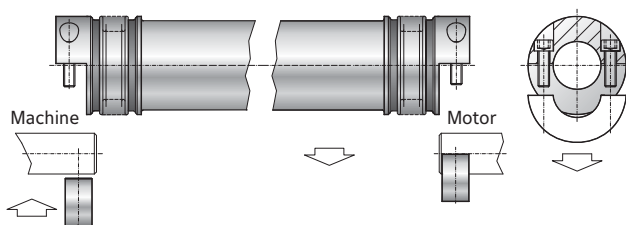


WITH CLAMPING HUB



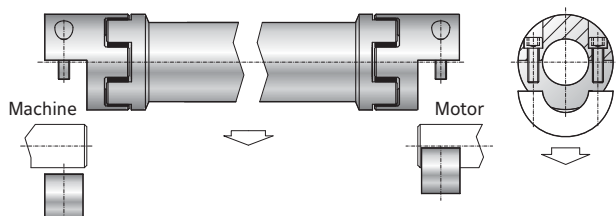
WITH CONICAL CLAMPING HUB

ZAE



WITH FULLY SPLIT CLAMPING HUB

EZ2

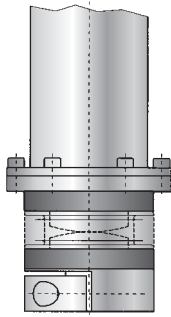


WITH FULLY SPLIT CLAMPING HUB

DIRECT DRIVES

VERTICAL INSTALLATION

ZA
ZAE



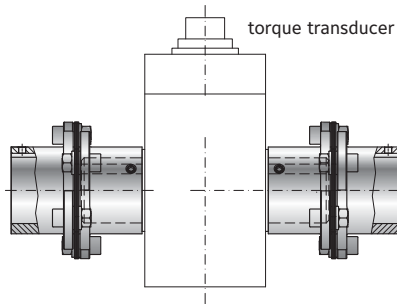
- ▶ In vertical installations a special support transfers the weight to the bottom hub.
- ▶ This support system is available for all sizes.
- ▶ Please note, "for vertical installation" when ordering.

Schematic of support system

DISC PACK COUPLINGS

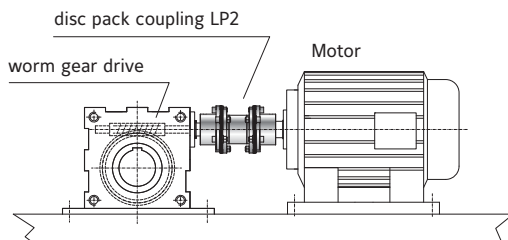
R+W LP disc pack couplings are supplied as individual components. The disc packs absorb axial and angular misalignment, as well as lateral misalignment when two sets are used in series. Torque is transmitted with zero backlash across the frictional engagement of the assembly and not by the grade 12.9 screws themselves. Thus micro movements are avoided, vastly extending the service life of the coupling.

LP1



WITH KEYWAY MOUNTING

LP2



DOUBLE FLEX WITH KEYWAY MOUNTING