

INSTALLATION AND HANDLING OF PRECISION COUPLINGS



The following pages contain information on how the various coupling types are properly mounted and installed. The information is presented in a graphical format to visually explain how best to use each coupling type.

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



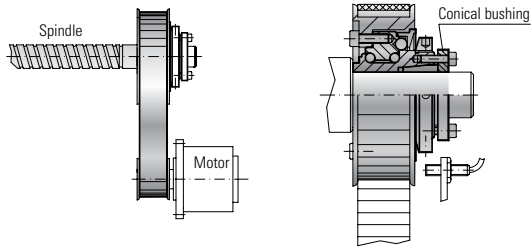
The installation and operating instructions are an integral part of the DieQua coupling. Please read carefully and follow all instructions. Failure to comply with these procedures could result in poor performance and / or failure of the coupling. Installation should be performed by a qualified technician.

INDIRECT DRIVES

SAFETY COUPLINGS / TORQUE LIMITERS - SERIES T

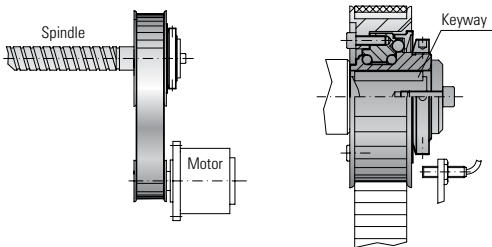
Drive components (e.g. timing belt sprockets) must be centered on the output flange prior to mounting. Please also refer to the maximum overhung load ratings and locations provided on page 43. If the overhung load is beyond the capacity of the coupling bearings, an additional bearing can be mounted on the shaft to support the overhung load.

TH



WITH CONICAL CLAMPING SYSTEM

THK



WITH KEYWAY ONLY

Installation and Handling

DIRECT DRIVES

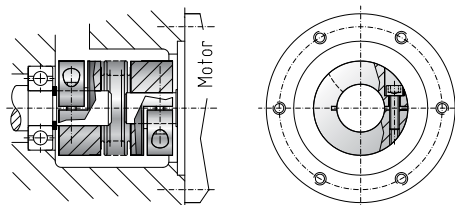
METAL BELLOWS COUPLINGS - SERIES BC

DieQua 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.

BC

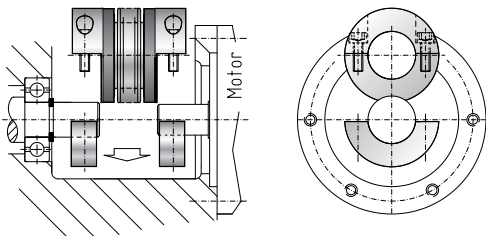
BCC

BCE



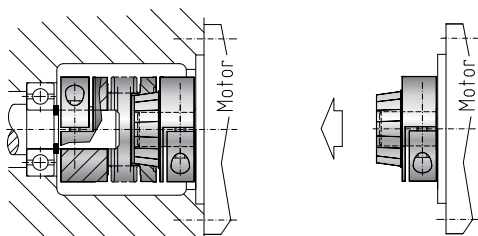
WITH CLAMPING HUB

BCS



WITH FULLY SPLIT CLAMPING HUB

BCB



WITH CLAMPING HUB AND
BLIND MATE CONNECTION

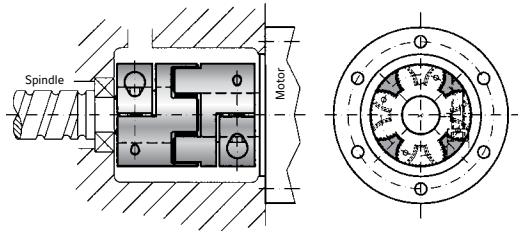
Installation and Handling

ELASTOMER INSERT COUPLINGS - SERIES EC

The equalizing element of EC 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. The EC Series couplings compensate for lateral, angular, and axial misalignment.

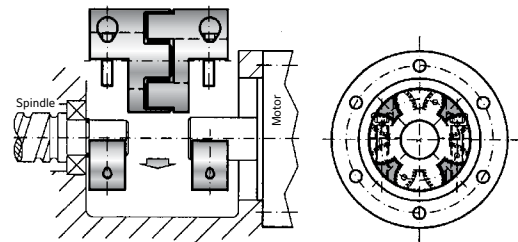
EC

ECC



WITH CLAMPING HUB

ECS



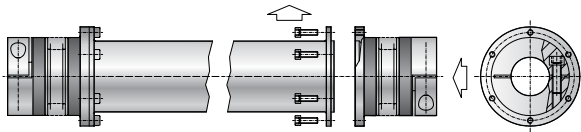
WITH FULLY SPLIT CLAMPING HUB

Installation and Handling

LINE SHAFTS - SERIES L

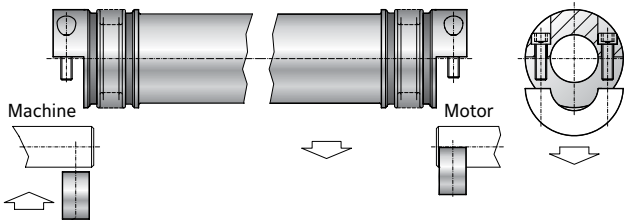
DieQua line shafts are flexible shaft couplings for spanning longer distances between shaft ends. The compensation elements (bellows or elastomer) compensate for lateral, axial, and angular shaft misalignment. Torque transmission is backlash free with high torsional stiffness (bellows) or vibration damping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

LB



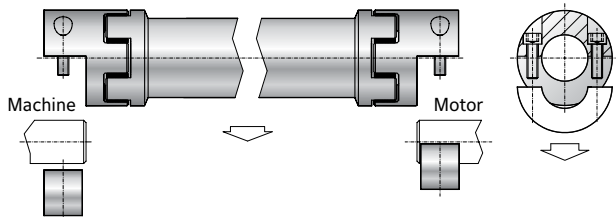
WITH CLAMPING HUB

LBS



WITH FULLY SPLIT CLAMPING HUB

LE

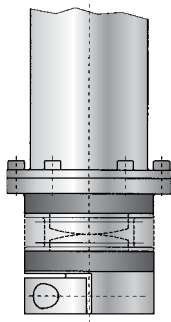


WITH FULLY SPLIT CLAMPING HUB

VERTICAL INSTALLATION

LB

LBS



- 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.