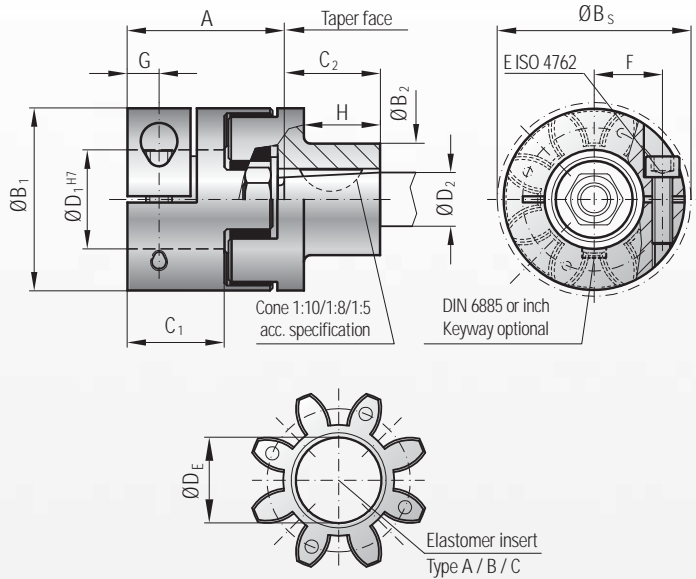




MODEL EK4

BACKLASH FREE ELASTOMER COUPLINGS



for conical shaft ends

Properties:

- for tapered shafts
- short compact design
- easy assembly
- concentrically machined hubs
- backlash free
- electrically isolating

Material:

Clamping hubs D_1 : high strength aluminum
 Conical hub D_2 : steel
 Elastomer insert: precision molded, wear resistant, and thermally stable polymer

Design:

Two coupling hubs are concentrically machined with curved jaws
 One side with clamping hub and screw per ISO 4762
 One side with tapered bore and keyway per customer specifications

Speed: See table below

**Please contact R+W
 ISO 2.5 balance grade available

Tolerance:

Overall clearance between shaft and hub 0.01 to 0.05 mm

Model EK 4	Series								
	20			60			150		
Type (Elastomer insert)	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	17	21	6	60	75	20	160	200	42
Max. torque* (Nm)	34	42	12	120	150	35	320	400	85
Overall length (mm)	42			50			57		
Outside diameter of clamping hub (mm)	42			56			66,5		
Outside diameter of tapered bore hub (mm)	variable			variable			variable		
Outside diameter with screw head (mm)	44,5			57			68		
Mounting length (mm)	25			30			35		
Mounting length (mm)	variable			variable			variable		
Inside diameter range H7 (mm)	8-25			12-32			19-36		
Possible tapered bore diameter (mm)	Acc. to customer requirement***								
Inside diameter of elastomer (mm)	19,2			26,2			29,2		
Clamping screw (ISO 4762)	M5			M6			M8		
Tightening torque of the clamping screw (Nm)	8			15			35		
Distance between centers (mm)	F			15,5			21		
Distance (mm)	G			8,5			10		
Length (mm)	H			variable			variable		
speed standard (min ⁻¹)	12,500			11,000			10,000		
**Speed balanced (10 ³ min ⁻¹)	45	60	35	31	31	25	22	26	18

Information about static and dynamic torsional stiffness as well as max. possible misalignment see page 5 1 Nm = 8.85 in lbs

* Maximum transmittable torque depends on the bore diameter (overall clearance between shaft and hub 0.01 to 0.05 mm; shaft oiled)

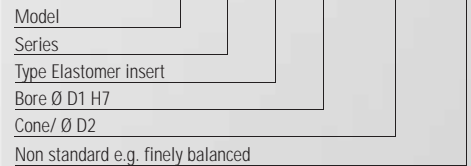
*** Caution: Dimensions C2, H and B2 depend on the final design of the tapered shaft.

Series	Ø 8	Ø 16	Ø 19	Ø 25	Ø 30	Ø 32	Ø 35
20	20	35	45	60			
60		50	80	100	110	120	
150			120	160	180	200	220

Higher torque through additional key possible.

Ordering example

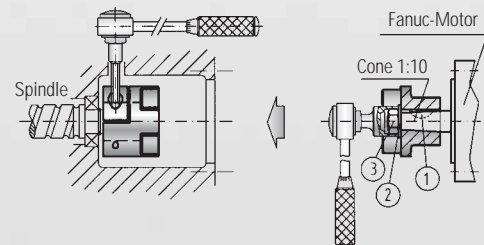
EK4 / 20 / A / 24 / 1:10 Ø11 / XX



All data is subject to change without notice.

Installation instruction

Mounting of the clamping hub: Slide the coupling onto the shaft. At the correct axial position tighten the clamping screw to the specified tightening torque as shown in the table (column E).



Mounting of the tapered bore hub: After inserting the key into the key seat of the motor shaft, slide the coupling hub onto the shaft. Check to ensure a proper seat of the hub onto the shaft. Tighten the nut (3) on the motor shaft, using the exact tightening torque specified by the motor manufacturer.