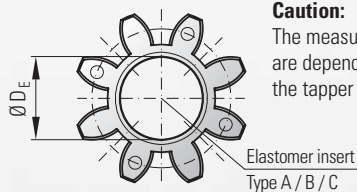
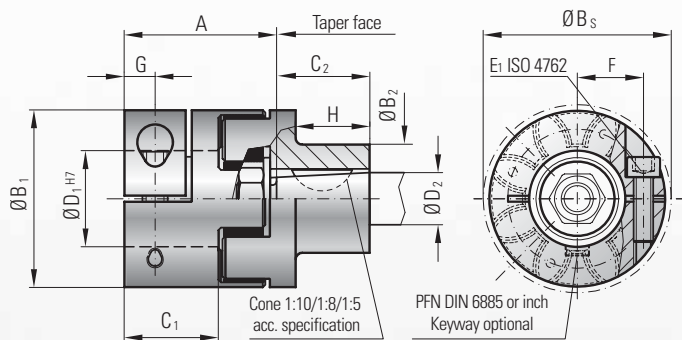


optional
stainless
steel

MODEL EK4

BACKLASH FREE ELASTOMER COUPLINGS



Caution:
The measurement C₂ / H / and Ø B₂ are depending on final design of the taper shaft.



for conical shaft ends

Properties:

- short compact design
- easy assembly
- high concentricity
- backlash-free
- electrically insulating

Material:

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

Design:

Two coupling hubs are concentrically machined with concave driving jaws
One side with clamping hub and a radial screw ISO 4762
One side with a hub conically bored with keyway according to customer requirement

Speed:

Over 10,000 rpm a finely balanced version is available

Tolerance:

On the hub/shaft connection 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) T_{KN}	17	21	6	60	75	20	160	200	42
Max. torque* (Nm) T_{Kmax}	34	42	12	120	150	35	320	400	85
Overall length (mm) A	42			50			57		
Outer diameter hub (mm) B ₁	42			56			66.5		
Outer diameter conical hub (mm) B ₂	variable			variable			variable		
Outer diameter with screwhead (mm) B _s	44.5			57			68		
Mounting length (mm) C ₁	25			30			35		
Mounting length (mm) C ₂	variable			variable			variable		
Inner diameter range H7 (mm) D ₁	8-25			12-32			19-36		
Possible conical diameter (mm) D ₂	Acc. to customer requirement								
Inner diameter max (elastomer) (mm) D _E	19.2			26.2			29.2		
Mounting screw (ISO 4762/12.9) E	M5			M6			M8		
Tightening torque of the mounting screw (Nm)	8			15			35		
Distance between centers (mm) F	15.5			21			24		
Distance (mm) G	8.5			10			12		
Length (mm) H	variable			variable			variable		

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

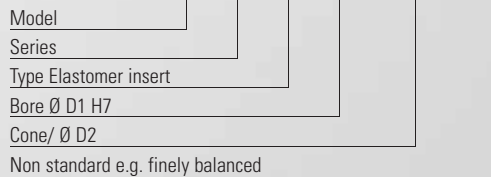
* Maximum transferable torque of the clamping hub depends on the bore diameters (bore/shaft clearance 0.01 mm to 0.05 mm shaft oiled)

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

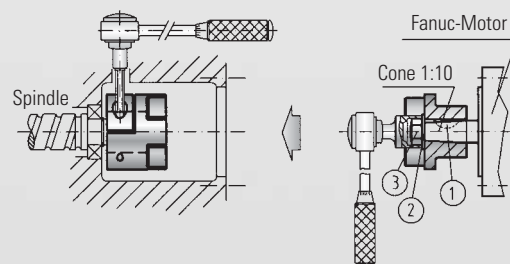
EK4 / 20 / A / 24 / 1:10 Ø11 / XX



All data is subject to change without notice.

Installation instruction

Mounting of the clamping hub: Slide the coupling on the shaft ends, at the right axial position tighten the mounting screw to the specified tightening torque as shown in the table (column E).



Mounting of the conical hub: After inserting the key into the keyway of the motor shaft slide the coupling hub on the shaft. Check if the conical hub has a proper seat on the shaft. Now the nut (3) can be tightened on the motor shaft using the exact tightening torque specified by the motor manufacturer.