

EK1

WITH KEYWAY MOUNTING

1,950 - 25,000 Nm



ABOUT

FEATURES

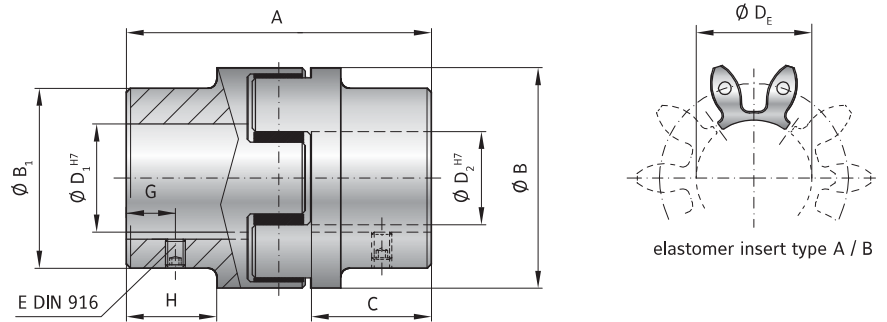
- ▶ press fit design
- ▶ readily modified for custom dimensions
- ▶ low backlash (keyway)

MATERIAL

- ▶ **Hubs:** GGG40
- ▶ **Elastomer:** wear resistant thermally stable TPU

DESIGN

Two concentrically machined hubs with curved jaws, keyways, and set screws. 5x elastomer segments press fit for zero backlash; standard versions are electrically isolating.



MODEL EK1

SIZE			2500		4500		9500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque (Nm)	T_{KN}		1950	2450	5000	6200	10000	12500
Max. torque (Nm)	T_{Kmax}		3900	4900	10000	12400	20000	25000
Overall length (mm)	A		213		272		341	
Outside diameter (mm)	B/B ₁		160 / 154		225 / 190		290 / 240	
Mounting length (mm)	C		88		113		142	
Inside diameter (pilot bored) (mm)	D _v		30		40		50	
Inside diameter range H7 (mm)	D _{1/2}		30 - 95		40 - 130		50 - 170	
Inside diameter of elastomer (mm)	D _E		80		111		145	
Set screws (DIN 916)	E		see table (depending on bore Ø)**					
Distance (mm)	G		25		30		40	
Possible shortening length (mm)	H		69		89		110	
Moment of inertia per hub (10 ⁻³ kgm ²)	J ₁ /J ₂		40		147		480	
Approx. weight (kg)			12.5		25		53	
Speed standard (min ⁻¹)			3,500		3,000		2,000	
Speed balanced (10 ³ min ⁻¹)			10	10	8	8	6.5	6.5

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see page 63.

** Set screw	ORDERING EXAMPLE	EK1	2500	A	50.8	80	XX
Ø 12.1 - 30 M5	Model	●					Special designation only (e.g. special bore tolerance).
Ø 30.1 - 58 M8	Size		●				
Ø 58.1 - 95 M10	Elastomer insert type			●			
Ø 95.1 - 130 M12	Bore D1 H7				●		
Ø 130.1 - 170 M16	Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. EK1 / 2500 / A / 50.8 / 80 / XX; XX = stainless steel)							