

EK6

WITH CONICAL CLAMPING RING

4 - 2,150 Nm



ABOUT

FEATURES

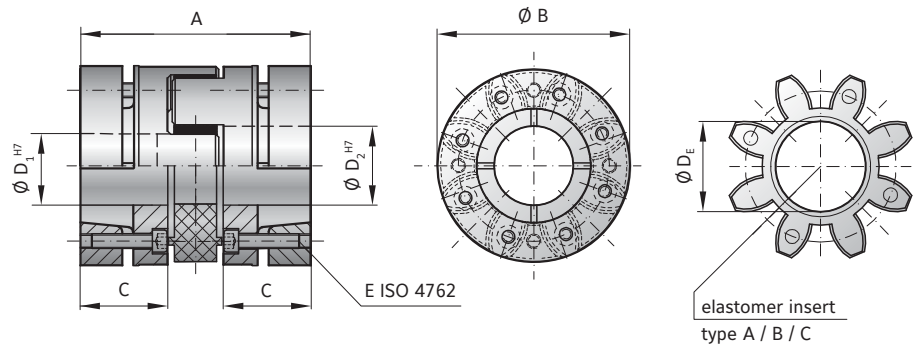
- ▶ high clamping pressure
- ▶ self centering on shaft
- ▶ very high concentricity

MATERIAL

- ▶ **Hubs:** up to size 450 high strength aluminum; size 800 steel
- ▶ **Elastomer:** wear resistant thermally stable TPU

DESIGN

Two concentrically machined hubs with curved jaws and conical clamping rings. Elastomer segments press fit for zero backlash; standard versions are electrically isolating.



MODEL EK6

SIZE		10			20			60			150			300			450			800		
Type (Elastomer insert)		A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240
Max. torque (Nm)	T_{Kmax}	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	1060	1350	190	1900	2150	400
Overall length (mm)	A	42			56			64			76			96			110			138		
Outside diameter (mm)	B/B ₁	32			43			56			66			82			102			136.5		
Mounting length (mm)	C	15			20			23			28			36			42			53		
Inside diameter range H7 (mm)	D _{1/2}	6 - 16			8 - 24			12 - 32			19 - 35			20 - 45			28 - 55			32 - 80		
Inside diameter of elastomer (mm)	D _E	14.2			19.2			26.2			29.2			36.2			46.2			60.5		
Clamping screw (ISO 4762)		3x M3			6x M4			4x M5			8x M5			8x M6			8x M8			8x M10		
Tightening torque of the clamping screw (Nm)	E	2			3			6			7			12			35			55		
Distance (mm)	F																					
Moment of inertia per hub (10 ⁻³ kgm ²)	J ₁ /J ₂	0.004			0.015			0.05			0.1			0.3			0.85			9.2		
Approx. weight (kg)		0.08			0.12			0.3			0.5			0.9			1.5			9.6		
Speed standard (min ⁻¹)		20,000			19,000			14,000			13,000			10,000			9,000			4,000		
Speed balanced (10 ³ min ⁻¹)		53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	16	17	12	13	13	8

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 66 + 67.

ORDERING EXAMPLE	EK6	60	A	19	22.23	XX
Model	●					Special designation only (e.g. special bore tolerance).
Size		●				
Elastomer insert type			●			
Bore D1 H7				●		
Bore D2 H7					●	

For custom features place an XX at the end of the part number and describe the special requirements (e.g. EK6 / 60 / A / 19 / 22.23 / XX; XX=finely balanced ISO G2.5 / 30,000 rpm)

EK6

WITH CONICAL CLAMPING RING

1,950 - 25,000 Nm

ABOUT

FEATURES

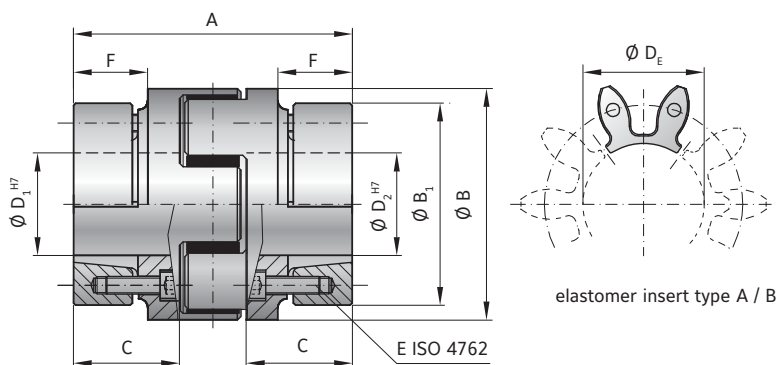
- ▶ high clamping pressure
- ▶ self centering on shaft
- ▶ very high concentricity

MATERIAL

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

DESIGN

Two concentrically machined hubs with curved jaws and conical clamping rings. 5x elastomer segments press fit for zero backlash; standard versions are electrically isolating.



MODEL EK6

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	177		227		282	
Outside diameter (mm)	B/B ₁	160 / 159		225 / 208		285	
Mounting length (mm)	C	70		90		112	
Inside diameter range H7 (mm)	D _{1/2}	40 - 95		50 - 130		60 - 170	
Inside diameter of elastomer (mm)	D _E	80		111		145	
Clamping screw (ISO 4762)		10x M10		10x M12		10x M16	
Tightening torque of the clamping screw (Nm)	E	60		100		160	
Distance (mm)	F	51		66		80	
Moment of inertia per hub (10 ⁻³ kgm ²)	J ₁ /J ₂	31.7		135.7		469.2	
Approx. weight (kg)		15		35		73	
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 pages 66 + 67.

ORDERING EXAMPLE	EK6	2500	A	50.8	80	XX
Model	●					Special designation only (e.g. special bore tolerance).
Size		●				
Elastomer insert type			●			
Bore D1 H7				●		
Bore D2 H7					●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. EK6 / 2500 / A / 50.8 / 80 / XX; XX=stainless steel)						