

EK6

With conical clamping ring

4 – 2,150 Nm



Feataures

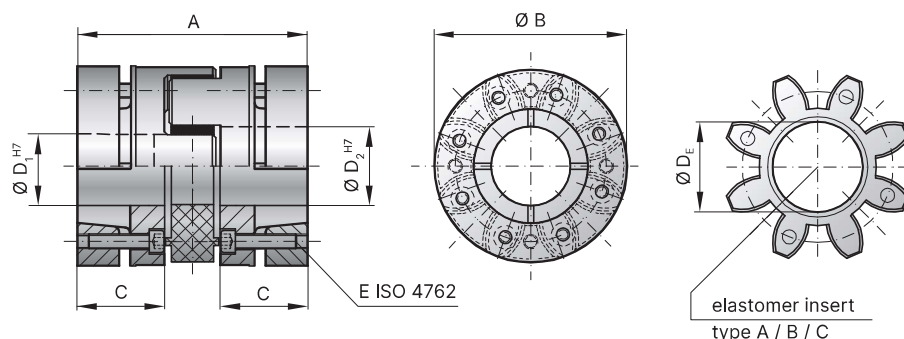
- High clamping pressure
- Self centering on shaft
- Very high concentricity

Material

- **Hubs:** up to size 600 high strength aluminum; size 800 steel
- **Elastomer:** wear resistant thermally stable TPU

Design

Two concentrically machined hubs with curved jaws and conical clamping rings.



Model EK6

Size		10			20			60			150			300			400			450			600			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	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	12.6	16	4	17	21	6	60	75	20	160	200	42	325	405	84	410	520	90	530	660	95	700	840	150	950	1,100	240
Max. torque (Nm)	T_{Kmax}	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	820	1,040	180	1,060	1,350	190	1,400	1,680	300	1,900	2,150	400
Overall length (mm)	A	42			56			64			76			96			107			110			121			138		
Outside diameter (mm)	B/B ₁	32			43			56			66.5			82			95			102			120			136.5		
Mounting length (mm)	C	15			20			23			28			36			39			42			44.5			53		
Inside diameter range H7 (mm)	D _{1/2}	6 - 16			8 - 24			12 - 32			19 - 35			20 - 45			25 - 50			28 - 55			30 - 70			32 - 80		
Inside diameter of elastomer (mm)	D _E	14.2			19.2			26.2			29.2			36.2			43			46.2			55			60.5		
Clamping screw (ISO 4762)		3x M3			6x M4			4x M5			8x M5			8x M6			8x M8			8x M8			8x M8			8x M10		
Tightening torque of the clamping screw (Nm)	E	2			3			6			7			12			20			25			35			55		
Moment of inertia per hub (10 ⁻³ kgm ²)	J ₁ /J ₂	0.004			0.015			0.05			0.1			0.3			0.8			0.85			3			9.2		
Approx. weight (kg)		0.08			0.12			0.3			0.6			1.1			1.5			2.1			2.9			12		
Speed standard (min ⁻¹)		20,000			19,000			14,000			13,000			10,000			9,500			9,000			6,800			4,000		
Speed balanced (10 ³ min ⁻¹)		53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	17	18	13	16	17	12	14	14	10	13	13	8

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 64.

EK6

With conical clamping ring

1,950 – 25,000 Nm



Feataures

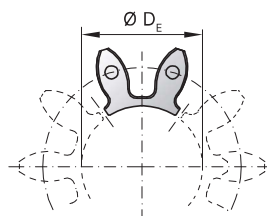
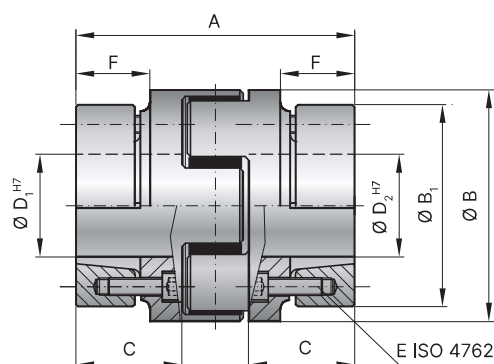
- High clamping pressure
- Self centering on shaft
- Very high concentricity

Material

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

Design

Two concentrically machined hubs with curved jaws and conical clamping rings. Elastomer insert consist of 5 segments.



elastomer insert type A / B

Model EK6

Size			2,500		4,500		9,500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	1,950	2,450	5,000	6,200	10,000	12,500
Max. torque	(Nm)	T_{Kmax}	3,900	4,900	10,000	12,400	20,000	25,000
Overall length	(mm)	A	177		227		282	
Outside diameter	(mm)	B/B ₁	160 / 159		225 / 208		290 / 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)		19.5		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 64.