EK6

WITH CONICAL CLAMPING RING

4 – 2,150 Nm

PROPERTIES

FEATURES

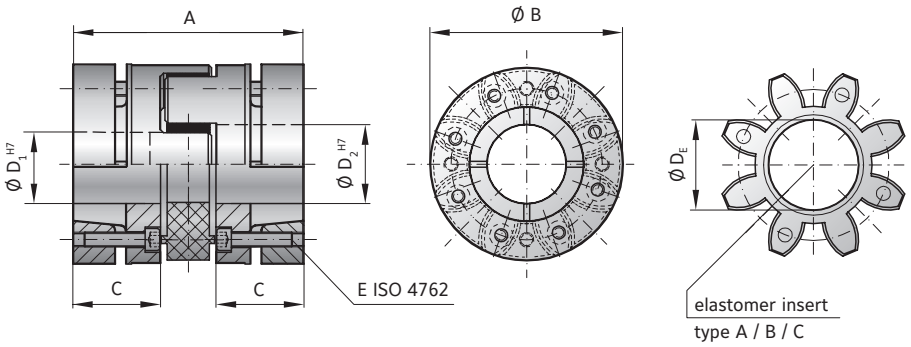
- high clamping pressure
- self centering on shaft
- very high concentricity

DESIGN

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

MATERIAL

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



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			66.5			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)		E	3x M3			6x M4			4x M5			8x M5			8x M6			8x M8			8x M10		
Tightening torque of the clamping screw	(Nm)		2			3			6			7			12			35			55		
Distance	(mm)	F																					
Moment of inertia per hub	(10^{-3} kgm²)	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 handbook precision couplings pages 72 + 73.

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)