

**EK6**

# WITH CONICAL CLAMPING RING

4 - 2,150 Nm

## PROPERTIES

### FEATURES

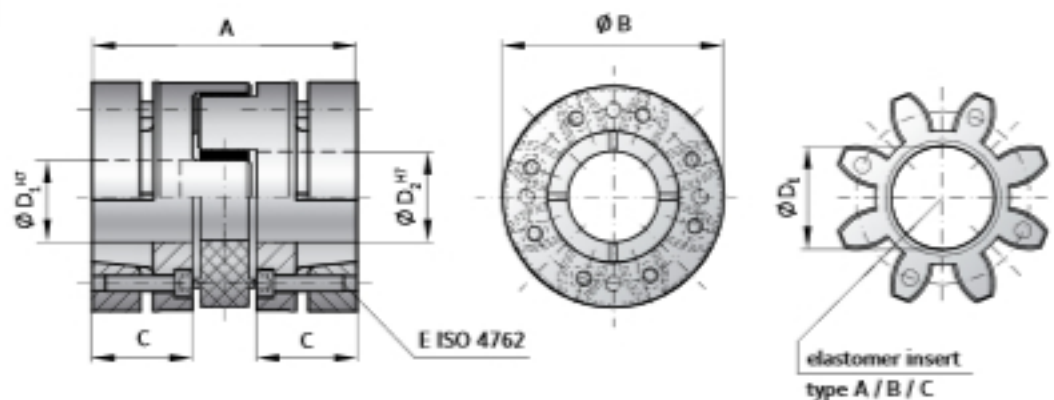
- ▶ high clamping pressure
- ▶ self centering on shaft
- ▶ very high concentricity

### 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)	$T_{RN}$		12.5	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1300	240		
Max. torque (Nm)	$T_{Rmax}$		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 <sub>1</sub>		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 <sub>H7</sub>		6 - 16			8 - 24			12 - 32			19 - 35			20 - 45			28 - 55			32 - 80				
Inside diameter of elastomer (mm)	D <sub>2</sub>		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)	E		2			3			6			7			12			35			55				
Distance (mm)	F																								
Moment of inertia per hub (10 <sup>-4</sup> kgm <sup>2</sup> )	J <sub>1</sub> /J <sub>2</sub>		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 <sup>-1</sup> )			20,000			19,000			14,000			13,000			10,000			9,000			4,000				
Speed balanced (10 <sup>3</sup> min <sup>-1</sup> )			53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	36	17	12	13	13	8		

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