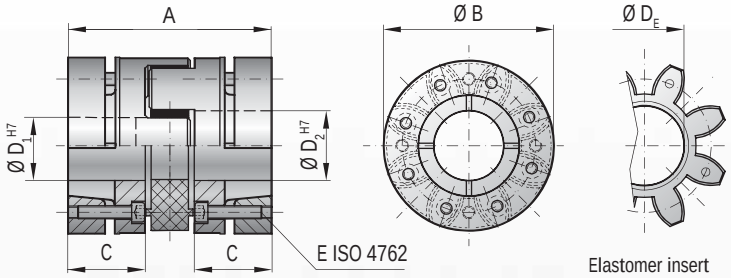
optional stainless steel

MODEL **EK6**

BACKLASH FREE ELASTOMER COUPLINGS

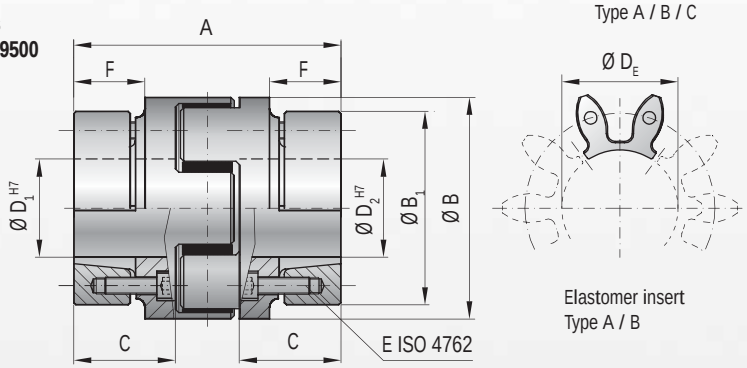
with conical clamping ring

Series 2 - 800



Elastomer insert
Type A / B / C

Series 2500 - 9500



Elastomer insert
Type A / B

Properties:

- high clamping forces
- concentrically machined hubs
- vibration damping
- electrically isolating
- backlash free
- press fit design
- axial mounting possible

Material:
Clamping hub and clamping ring: up to series 450 high strength aluminum, series 800 and up steel
Elastomer insert: precision molded, wear resistant, and thermally stable polymer

Design:
Two coupling hubs are concentrically machined with curved jaws

Speeds: See table below
*Please contact R+W
ISO 2.5 balance grade available

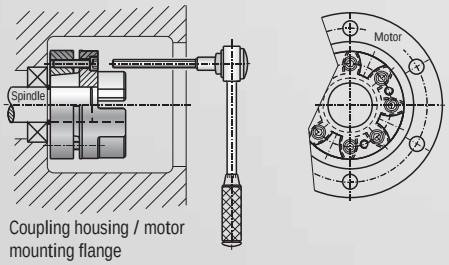
Tolerance:
Overall clearance between shaft and hub 0.01 to 0.05 mm

Model EK 6			Series																									
			10			20			60			150			300			450			800			2500		4500		9500	
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	A	B	A	B
Rated torque	(Nm)	T_{KN}	12,6	16	4	17	21	6	60	75	20	160	200	42	325	405	84	530	660	95	950	1100	240	1950	2450	5000	6200	10000	12500
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	3900	4900	10000	12400	20000	25000
Overall length	(mm)	A	42			56			64			76			96			110			138			177		227		282	
Outside diameter	(mm)	B/B_1	32			43			56			66			82			102			136.5			160 / 158		225 / 208		290	
Mounting length	(mm)	C	15			20			23			28			36			42			53			70		90		112	
Inside diameter range H7	(mm)	$D_{1/2}$	6 - 16			8 - 24			12 - 32			19 - 35			20 - 45			28 - 55			32 - 80			40 - 95		50 - 130		60 - 165	
Inside diameter of elastomer	(mm)	D_E	14.2			19.2			26.2			29.2			36.2			46.2			60.5			95		130		170	
Clamping screw (ISO 4762)		E	3x M3			6x M4			4x M5			8x M5			8x M6			8x M8			8x M10			10x M10		10x M12		10x M16	
Tightening torque of the clamping screw	(Nm)		2			3			6			7			12			35			55			60		100		160	
Distance	(mm)	F																						51		66		80	
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			31.7		135.7		469.2	
Approx. weight	(kg)		0.08			0.12			0.3			0.5			0.9			1.5			9.6			15		35		73	
Speed standard	(min^{-1})		20,000			19,000			14,000			13,000			10,000			9,000			4,000			3,500		3,000		2,000	
*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	10	10	8	8	6.5	6.5

Information about static and dynamic torsional stiffness as well as max. possible misalignment see page 5

1 Nm = 8.85 in lbs

Lateral access holes for screw tightening are not necessary with EK6 couplings. The unique assembly screw design (shown at right) allows for easy axial mounting and dismounting of the coupling hub



Coupling housing / motor mounting flange

Ordering example

EK6 / 60 / A / 19.05 /24 / XX

- Model
- Series
- Type Elastomer insert
- Bore Ø D1 H7
- Bore Ø D2 H7
- Non standard e.g. anodized

All data is subject to change without notice.