

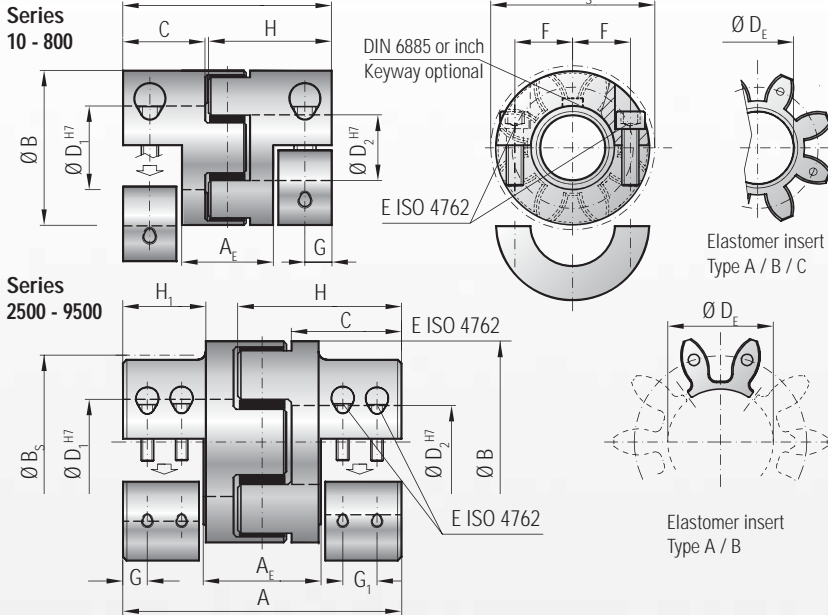


MODEL EKH

BACKLASH FREE ELASTOMER COUPLINGS



with split clamping hubs



Properties:

- lateral mounting possible
- concentrically machined hubs
- vibration damping
- electrically isolating
- easy mounting
- backlash free

Material:

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

Design:

Both clamping hubs are fully separable due to split hubs and ISO 4762 clamping screws

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 EKH	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	53			66			78			90			114			126			162			213			272			341		
Length of center section (mm)	A_e	20			28			33			37			49			51			65			78			104			131		
Outside diameter (mm)	B	32			42			56			66.5			82			102			136.5			160			225			290		
Outside diameter with screw head (mm)	B_s	32			44.5			57			68			85			105			139			155			190			243		
Mounting length (mm)	C	20			25			30			35			45			50			65			85			110			140		
Inside diameter range H7 (mm)	$D_{1/2}$	6 - 16			8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 80			35 - 90			40 - 120			50 - 140		
Inside diameter of elastomer (mm)	D_e	14.2			19.2			26.2			29.2			36.2			46.2			60.5			79			113			145		
Clamping screw (ISO 4762)	E	4 x M4			4 x M5			4 x M6			4 x M8			4 x M10			4 x M12			4 x M16			4 x M16			8 x M16			8 x M24		
Tightening torque of the clamping screw (Nm)	E	4			8			15			35			70			120			290			300			300			980		
Distance between centers (mm)	F	10.5			15.5			21			24			29			38			50.5			57			72.5			90		
Distance (mm)	G/G ₁	7.5			8.5			10			12			15			17.5			23			36			24 / 56			28 / 74		
Hub length (mm)	H/H ₁	31			39			46			52.5			66			73			93.5			120 / 69			154 / 80			193 / 110		
Moment of inertia per Hub (10 ⁻³ kgm ²)	J_1/J_2	0.005			0.02			0.06			0.1			0.4			1			9.5			40			147			480		
Approx. weight (kg)		0.08			0.15			0.35			0.6			1.1			1.7			10			125			25			53		
Speed standard (min ⁻¹)		13,000			12,500			11,000			10,000			9,000			8,000			4,000			3,000			3,500			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	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

** Maximum transmittable torque depends on the bore diameter (overall clearance between shaft and hub 0.01 to 0.05 mm; shaft oiled)

Series	Ø 6	Ø 8	Ø 16	Ø 19	Ø 25	Ø 30	Ø 32	Ø 35	Ø 45	Ø 50	Ø 55	Ø 60	Ø 65	Ø 70	Ø 75	Ø 80	Ø 90	Ø 120	Ø 140	
10	6	12	32																	
20		30	40	50	65															
60			65	120	150	180	200													
150				180	240	270	300	330												
300					300	340	450	520	570	630										
450						630	720	770	900	1120	1180	1350								
800								1050	1125	1200	1300	1400	1450	1500	1550	1600				
2500									1900	2600	2900	3200	3500	3800	4000	4300	4600	5200		
4500										5300	5800	6300	7000	7600	8200	8800	9400	10600	14100	
9500											9200	10100	11100	11900	12800	13800	14800	16700	22000	25600

Higher torque through additional key possible.

Ordering example

EKH / 60 / A / 19.05 / 24 / XX

Model

Series

Type Elastomer insert

Bore Ø D1 H7

Bore Ø D2 H7

Non standard e.g. finely balanced

All data is subject to change without notice.

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