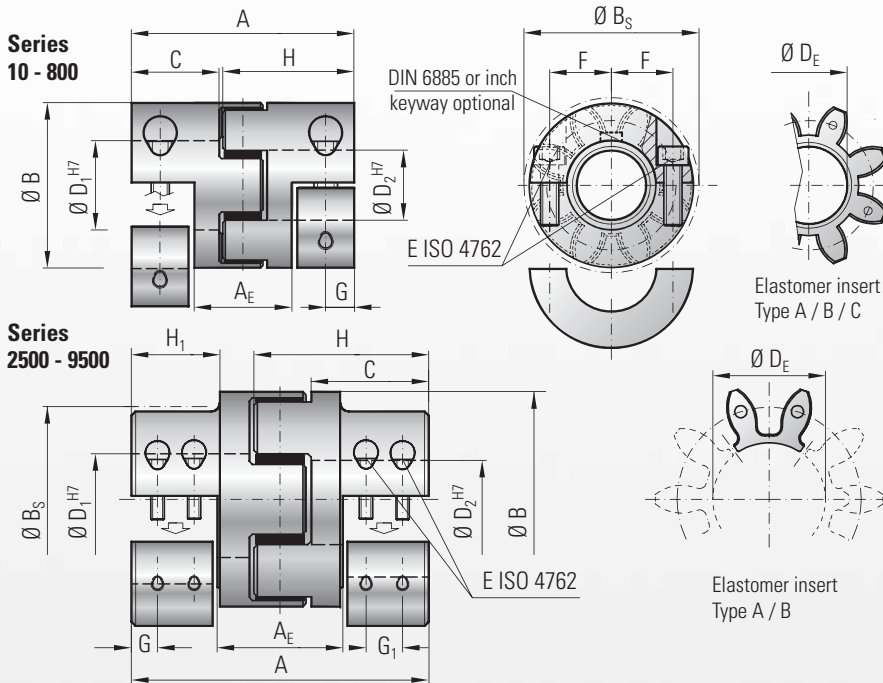




# MODEL EKH

## 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 in a single direction. With 2x ISO 4762 screws per hub through the series 800 and with 4x ISO 4762 screws per hub from the series 2500 and up.

### 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	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	530	660	95	950	1100	240	1950	2450	400	3900	4900	10000	12400	20000	125000																																																						
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	125000																																																									
Overall length (mm)	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			111			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			8 x M16			8 x M20			8 x M24																																																					
Tightening torque of the clamping screw (Nm)	E			4			8			15			35			70			120			290			300			600			1100																																																					
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 / 34			30 / 48																																																					
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 ( $10^{-3} \text{ kgm}^2$ )	$J_1/J_2$			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 ( $\text{min}^{-1}$ )				13,000			12,500			11,000			10,000			9,000			8,000			4,000			3,000			3,500			2,000																																																					
*Speed balanced ( $10^3 \text{ min}^{-1}$ )				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

\*\* 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							1400	1800	2000	2250	2500	2700	2900	3100	3300	3700				
4500								2400	2600	2900	3100	3400	3600	3900	4100	4700				
9500									5000	5500	6000	6500	7000	7500	8000	9000	12000	14000		

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.