

EKH

WITH FULLY SPLIT CLAMPING HUB

4 - 2,150 Nm



ABOUT

FEATURES

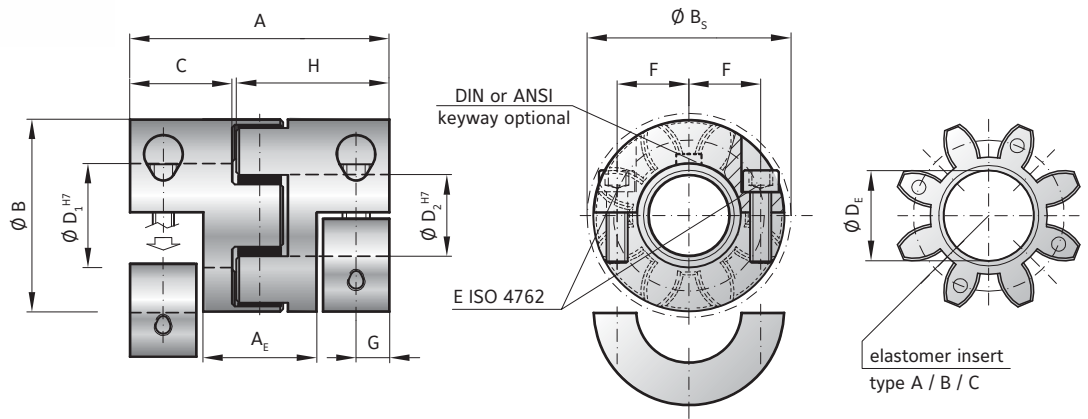
- ▶ lateral mounting
- ▶ easy installation and removal
- ▶ allows for pre-alignment of shafts

MATERIAL

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

DESIGN

Two concentrically machined, fully split hubs with curved jaws and clamping screws. Elastomer is press fit for zero backlash; standard versions are electrically isolating.



MODEL EKH

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}	12.6	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	53			66			78			90			114			126			162		
Length of center section (mm) A_E	20			28			33			37			49			51			65		
Outside diameter (mm) B	32			42			56			66.5			82			102			136.5		
Outside diameter with screw head (mm) B_s	32			44.5			57			68			85			105			139		
Mounting length (mm) C	20			25			30			35			45			50			65		
Inside diameter range H7 (mm) $D_{1/2}$	6 - 16			8 - 25			12 - 32			19 - 36			20 - 45			28 - 60			35 - 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	4 x M4			4 x M5			4 x M6			4 x M8			4 x M10			4 x M12			4 x M16		
Tightening torque of the clamping screw (Nm)	4			8			15			35			70			120			290		
Distance between centers (mm) F	10.5			15.5			21			24			29			38			50.5		
Distance (mm) G/G_1	7.5			8.5			10			12			15			17.5			23		
Hub length (mm) H/H_1	31			39			46			52.5			66			73			93.5		
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		
Approx. weight (kg)	0.08			0.15			0.35			0.6			1.1			1.7			10		
Speed standard (min ⁻¹)	13,000			12,500			11,000			10,000			9,000			8,000			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 pages 66 + 67.

* Maximum transmittable torque of the clamping hub depends on the bore diameter

Size	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	6200	
9500										5000	5500	6000	6500	7000	7500	8000	9000	12000	14000

Higher torque possible with keyways

ABOUT

FEATURES

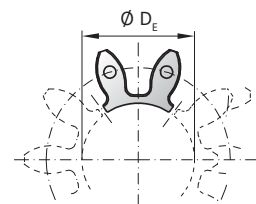
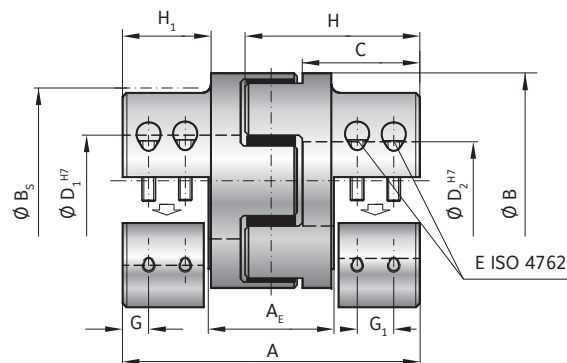
- ▶ lateral mounting
- ▶ easy installation and removal
- ▶ allows for pre-alignment of shafts

MATERIAL

- ▶ **Hubs:** GGG 40
- ▶ **Elastomer:** wear resistant thermally stable TPU

DESIGN

Two concentrically machined, fully split hubs with curved jaws and clamping screws. 5x elastomer segments press fit for zero backlash; standard versions are electrically isolating.



elastomer insert type A / B

MODEL EKH

SIZE	2500		4500		9500		
	A	B	A	B	A	B	
Type (Elastomer insert)							
Rated torque (Nm)	T_{KN} 1950	2450	5000	6200	10000	12500	
Max. torque* (Nm)	T_{Kmax} 3900	4900	10000	12400	20000	25000	
Overall length (mm)	A	213		272		341	
Length of center section (mm)	A_E	78		104		131	
Outside diameter (mm)	B	160		225		290	
Outside diameter with screw head (mm)	B_S	156		190		243	
Mounting length (mm)	C	85		110		140	
Inside diameter range H7 (mm)	$D_{1/2}$	35 - 90		40 - 120		50 - 140	
Inside diameter of elastomer (mm)	D_E	80		111		145	
Clamping screw (ISO 4762)		8 x M16		8 x M20		8 x M24	
Tightening torque of the clamping screw (Nm)	E	300		600		1100	
Distance between centers (mm)	F	57		72.5		90	
Distance (mm)	G/ G_1	36		24 / 34		30 / 48	
Hub length (mm)	H/ H_1	120 / 69		154 / 80		193 / 110	
Moment of inertia per hub (10^{-3} kgm ²)	J_1/J_2	40		147		480	
Approx. weight (kg)		12.5		25		53	
Speed standard (min ⁻¹)		3,000		3,500		2,000	
Speed balanced (10^3 min ⁻¹)		10	10	8	8	6.5	6.5

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 66 + 67.

* Maximum transmittable torque of the clamping hub depends on the bore diameter see page 70.

ORDERING EXAMPLE	EKL EK2 EKH	60	A	12.7	24	XX
Model	●					
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. EKH / 60 / A / 12.7 / 24 / XX; XX=anodized aluminum)						