

EKH

With split clamping hub

4 – 2,150 Nm

Features

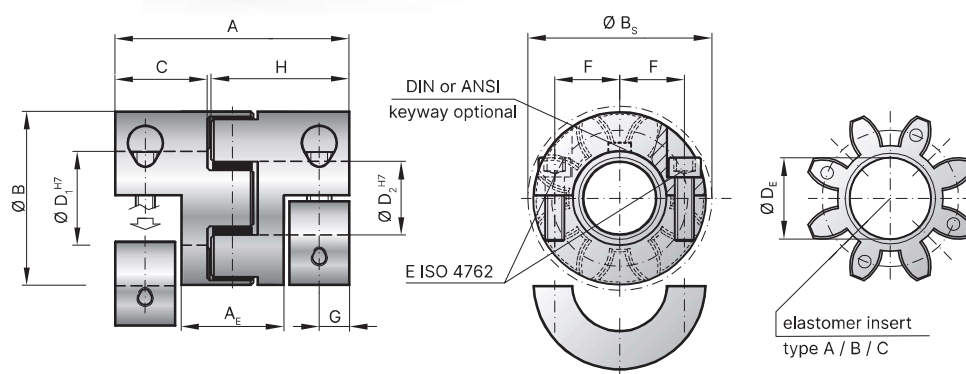
- Lateral mounting
- Easy installation and removal
- Allows for pre-alignment of shafts

Material

- **Hubs:** up to size 600 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.



Model EKH

Size		10			20			60			150			300			400			450			600			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	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	410	520	90	530	660	95	700	840	150	950	1,100	240
Max. torque*	(Nm)	T _{Kmax}	25	32	6	34	42	12	120	150	35	320	400	85	650	810	170	820	1,040	180	1,060	1,350	190	1,400	1,680	300	1,900	2,150	400
Overall length	(mm)	A	53			66			78			90			114			120			126			141			162		
Length of center section	(mm)	A _E	20			28.8			34			38			50			52			52			56			65		
Outside diameter	(mm)	B	32			42			56			66.5			82			95			102			120			136.5		
Outside diameter with screw head	(mm)	B _S	32			44.5			57			68			85			98			105			122			139		
Mounting length	(mm)	C	20			25			30			35			45			47			50			55			65		
Inside diameter range H7	(mm)	D _{1/2}	6 - 16			8 - 25			12 - 32			19 - 36			20 - 45			25 - 50			28 - 60			30 - 70			35 - 80		
Inside diameter of elastomer	(mm)	D _E	14.2			19.2			26.2			29.2			36.2			43			46.2			55			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 M12			4 x M12			4 x M16		
Tightening torque of the clamping screw	(Nm)		4			8			15			35			70			120			120			120			290		
Distance between centers	(mm)	F	10.5			15.5			21			24			29			33.5			38			47			50.5		
Distance	(mm)	G/G ₁	7.5			8.5			10			12			15			16			17.5			20			23		
Hub length	(mm)	H/H ₁	31			39			46			52.5			66			73			73			83			93.5		
Moment of inertia per hub	(10 ⁻³ kgm²)	J ₁ /J ₂	0.005			0.02			0.06			0.1			0.55			1.11			1.6			3.45			18.5		
Approx. weight	(kg)		0.08			0.15			0.35			0.6			1.2			1.57			2.1			3.22			14.8		
Speed standard	(min ⁻¹)		13,000			12,500			11,000			10,000			9,000			8,500			8,000			6,800			4,000		
Speed balanced	(10³min ⁻¹)		53	63	40	45	60	35	31	31	25	22	26	18	22	26	16	17	18	13	16	17	12	14	14	10	13	13	8

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 64.

EKH

With split clamping hub

1,950 – 25,000 Nm

Features

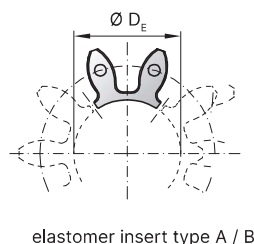
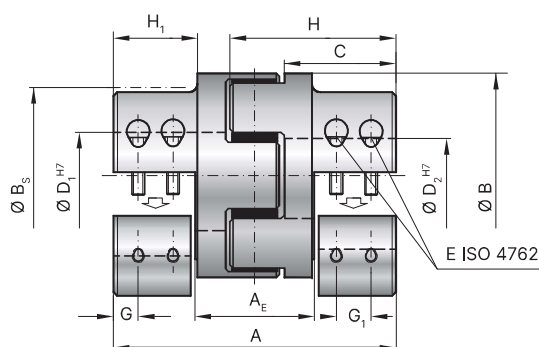
- Lateral mounting
- Easy installation and removal
- Allows for pre-alignment of shafts

Material

- **Hubs:** GGG40
- **Elastomer:** wear resistant thermally stable TPU

Design

Two concentrically machined, fully split hubs with curved jaws and clamping screws. Elastomer insert consist of 5 segments.



Model EKH

Size			2,500		4,500		9,500	
Type (Elastomer insert)			A	B	A	B	A	B
Rated torque	(Nm)	T_{KN}	1,950	2,450	5,000	6,200	10,000	12,500
Max. torque*	(Nm)	T_{Kmax}	3,900	4,900	10,000	12,400	20,000	25,000
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		199		243	
Mounting length	(mm)	C	85		113		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)		E	8 x M16		8 x M20		8 x M24	
Tightening torque of the clamping screw	(Nm)	E	300		600		1,100	
Distance between centers	(mm)	F	57		75		90	
Distance	(mm)	G/G_1	18 / 30		24 / 41		30 / 48	
Hub length	(mm)	H/H_1	120 / 69		154 / 89		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		8		6.5	

For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see pages 64.

* 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