

EKL

Compact version with clamping hub

0.5 – 2,150 Nm

Features

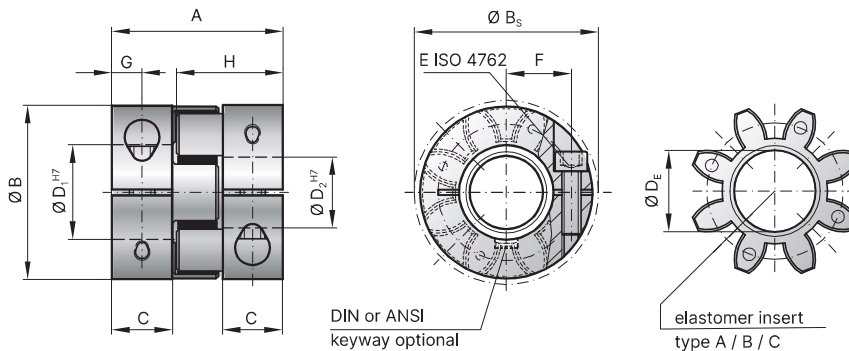
- Short overall length
- Easy mounting
- Vibration damping

Material

- **Hubs:** up to size 600 high strength aluminum; size 800 steel
- **Elastomer:** wear resistant thermally stable TPU

Design

Two concentrically machined hubs with curved jaws and clamping screws.



Model EKL

Size		2			5			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	A	B	C	A	B	C
Rated torque (Nm)	T_{KN}	2	2.4	0.5	9	12	2	12.5	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*	T_{Kmax}	4	4.8	1	18	24	4	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	20			26			32			50			58			62			86			90			94			111			123		
Outside diameter (mm)	B	16			25			32			42			56			66.5			82			95			102			120			136.5		
Outside diameter with screw head (mm)	B_s	17			25			32			44.5			57			68			85			98			105			122			139		
Mounting length (mm)	C	6			8			10.3			17			20			21			31			32			34			40			46		
Inside diameter range H7 (mm)	$D_{1/2}$	3 - 8			4 - 12.7			4 - 16			8 - 25			12 - 32			19 - 36			20 - 45			25 - 50			28 - 60			30 - 70			35 - 80		
Inside diameter of elastomer (mm)	D_E	6.2			10.2			14.2			19.2			26.2			29.2			36.2			43			46.2			55			60.5		
Clamping screw (ISO 4762)	E	M2			M3			M4			M5			M6			M8			M10			M12			M12			M12			M16		
Tightening torque of the clamping screw (Nm)	E	0.6			2			4			8			15			35			70			120			120			120			290		
Distance between centers (mm)	F	5.5			8			10.5			15.5			21			24			29			33.5			38			47			50.5		
Distance (mm)	G	3			4			5			8.5			10			11			15			16			17.5			20			23		
Hub length (mm)	H	12			16.7			20.7			31			36			39			52			55			57			68			74		
Moment of inertia per hub (10^{-3} kgm^2)	J_1/J_2	0.0003			0.002			0.003			0.01			0.04			0.08			0.5			0.8			1.1			2.66			14		
Approx. weight (kg)		0.008			0.02			0.05			0.12			0.3			0.5			0.9			1.1			1.5			2.5			9		
Speed standard (min^{-1})		15,000			15,000			13,000			12,500			11,000			10,000			9,000			8,500			8,000			6,800			4,000		
Speed balanced (10^3 min^{-1})		60	67	45	57	65	43	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.

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

Size	Ø 3	Ø 4	Ø 5	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
2	0.2	0.8	1.5	2.5														
5		1.5	2	8														
10			4	12	32													
20				20	35	45	60											
60					50	80	100	110	120									
150						120	160	180	200	220								
300						200	230	300	350	380	420							
450								420	480	510	600	660	750	850				
800										700	750	800	835	865	900	925	950	1,000

Higher torque possible with keyways.