



### PROPERTIES

#### FEATURES

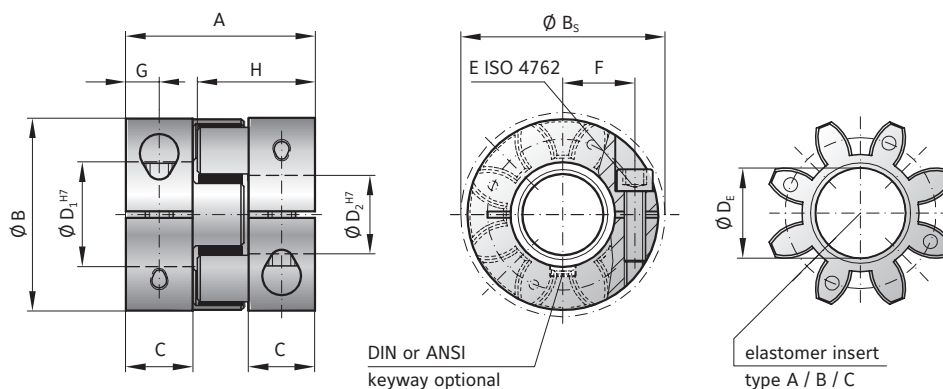
- ▶ short overall length
- ▶ easy mounting
- ▶ vibration damping

#### DESIGN

Two concentrically machined hubs with curved jaws and clamping screws.

#### MATERIAL

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



### MODEL EKL

SIZE	2			5			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	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	530	660	95	950	1100	240			
Max. torque* (Nm) $T_{Kmax}$	4	4.8	1	18	24	4	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	20		26		32		50		58		62		86		94		123												
Outside diameter (mm)	B	16		25		32		42		56		66.5		82		102		136.5												
Outside diameter with screw head (mm)	$B_s$	17		25		32		44.5		57		68		85		105		139												
Mounting length (mm)	C	6		8		10.3		17		20		21		31		34		46												
Inside diameter range H7 (mm)	$D_{1/2}$	3 - 8		4 - 12.7		4 - 16		8 - 25		12 - 32		19 - 36		20 - 45		28 - 60		35 - 80												
Inside diameter of elastomer (mm)	$D_e$	6.2		10.2		14.2		19.2		26.2		29.2		36.2		46.2		60.5												
Clamping screw (ISO 4762)	E	M2		M3		M4		M5		M6		M8		M10		M12		M16												
Tightening torque of the clamping screw (Nm)		0.6		2		4		8		15		35		70		120		290												
Distance between centers (mm)	F	5.5		8		10.5		15.5		21		24		29		38		50.5												
Distance (mm)	G	3		4		5		8.5		10		11		15		17.5		23												
Hub length (mm)	H	12		16.7		20.7		31		36		39		52		57		74												
Moment of inertia per hub ( $10^{-3} \text{ kgm}^2$ ) $J_1/J_2$		0.0003		0.002		0.003		0.01		0.04		0.08		0.3		0.66		8												
Approx. weight (kg)		0.008		0.02		0.05		0.12		0.3		0.5		0.9		1.5		8.5												
Speed standard ( $\text{min}^{-1}$ )		15,000		15,000		13,000		12,500		11,000		10,000		9,000		8,000		4,000												
Speed balanced ( $10^3 \text{ min}^{-1}$ )		60	67	45	57	65	43	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 handbook precision couplings pages 72 + 73.

\* 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.

ELASTOMER COUPLINGS EK | TX