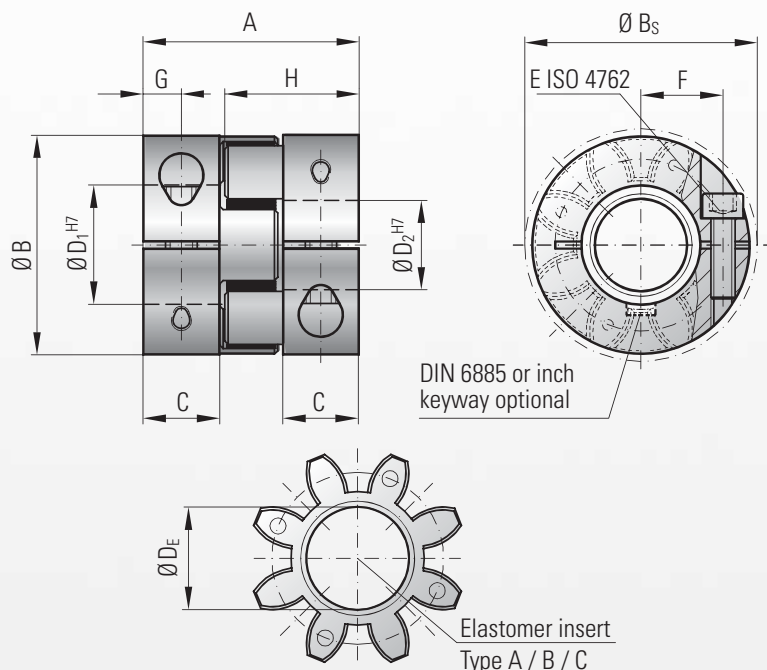




MODEL EKL

BACKLASH FREE ELASTOMER COUPLINGS



Compact version with clamping hub

Properties:

- short compact design
- easy assembly
- vibration damping
- electrically isolating
- backlash free
- press fit design

Material:

Clamping hub: up to series 450 high strength aluminum, from series 800 and up steel
Elastomer insert: precision molded, wear resistant, and thermally stable polymer

Design:

Two coupling hubs are concentrically machined with curved jaws

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 EKL		Series																											
		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	
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 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 (min ⁻¹)		15,000			15,000			13,000			12,500			11,000			10,000			9,000			8,000			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	16	17	12	13	13	8	

Information about static and dynamic torsional stiffness as well as max. possible misalignment see page 5

** Maximum transmittable torque depends on the bore diameter (overall clearance between shaft and hub 0.01 to 0.05 mm; shaft oiled)

1 Nm = 8.85 in lbs

Series	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	1000		

Higher torque through additional key possible.

Ordering example

EKL / 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.