



PROPERTIES

MATERIAL

- **Clutch system:** high strength steel, drive balls made from hardened steel
- **Hubs:** high strength aluminum
- **Elastomer insert:** wear resistant, thermally stable TPU

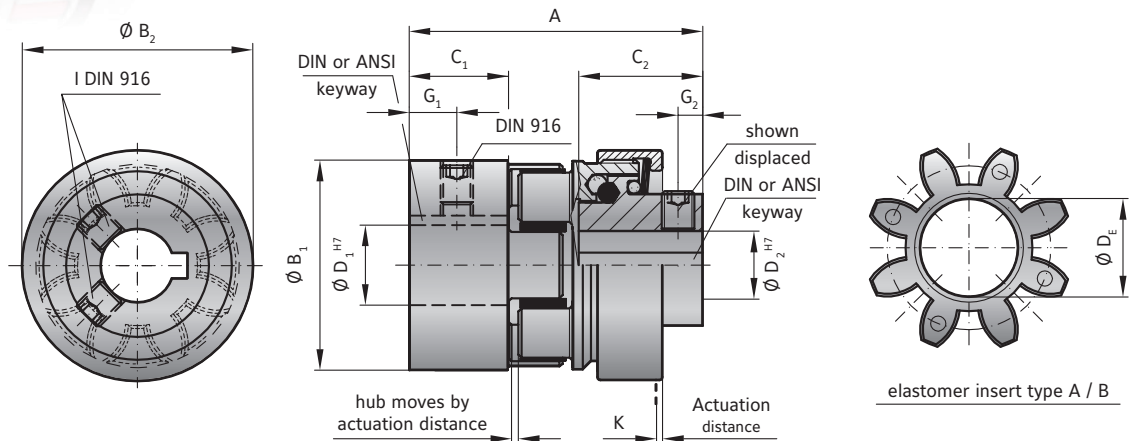
DESIGN

Two hubs, each with keyway, set screw, and concave driving jaws. The clutch system is integrated into one of the hubs.

DISENGAGEMENT

Negligible wear at up to 200 rpm. Contact R+W for higher speed applications.

DETAILS FOR ELASTOMER INSERT
see handbook page 72-73



MODEL ESL

Size		5		10		20		60		150	
Type (Elastomer insert)		A	B	A	B	A	B	A	B	A	B
Rated torque (Nm)	T_{kn}	9	12	12.5	16	17	21	60	75	160	200
Torque setting possible* from - to (Nm)	T_{kn}	1-6		1-12		3-19		5-60		20-150	
Overall length (mm)	A	34		45		64		80		90	
Diameter of the hub (mm)	B_1	25		32		42		56		66.5	
Diameter of the hub (mm)	B_2	29		32		46		59		75	
Clamping fit length (mm)	C_1	12.5		12		25		30		35	
Clamping fit length (mm)	C_2	11.5		20		22		31		35	
Inside diameter from \emptyset to \emptyset H7 (mm)	D_1	6-15		6-18		8-25		12-32		19-38	
Inside diameter from \emptyset to \emptyset H7 (mm)	D_2	6-10		6-12		8-19		12-24		19-32	
Inside diameter max. (elastomer) (mm)	D_c	10.5		14.2		19.2		26.2		29.2	
Distance (mm)	G_1	5		6		9		11		12	
Distance (mm)	G_2	2.5		3.5		4		4		4	
Screws DIN 916**	I	depending on bore diameter see below table									
Approx. weight (kg)		0.05		0.15		0.2		0.5		1	
Moment of inertia (10^{-3} kgm ²)	J_1/J_2	0.01		0.02		0.08		0.15		0.5	
Actuation distance (mm)	K	0.6		0.6		0.7		1.1		1.4	

* Disengagement torque is permanently set at the factory. For information on shaft misalignment, torsional stiffness, and other details about the elastomer inserts see handbook page 73.

ORDERING EXAMPLE	ESL	10	A	14	12	10	XX
Model	●						
Size		●					
Elastomer insert type			●				
Bore D1 H7 includes standard keyway				●			
Bore D2 H7 includes standard keyway					●		
Disengagement torque Nm (not adjustable)						●	
For custom features place an XX at the end of the part number and describe the special requirements (e.g. ESL / 10 / A / 14 / 12 / 10 / XX; XX=stainless steel)							

Special designation only (e.g. special bore tolerance).

FIXED DISENGAGEMENT TORQUE

The ESL coupling is unlike other R+W safety couplings in that the disengagement torque is permanently set and tamper proof.

** SET SCREWS

D1/D2	- \emptyset 10	\emptyset 11-12	\emptyset 13-30	\emptyset 31-58	\emptyset 59-80
I	M3	M4	M5	M8	M10

Bores <6mm made without keyway.