



PROPERTIES

FEATURES

- ▶ easy installation and removal
- ▶ standard lengths up to 4 meters
- ▶ no intermediate support bearings required

MATERIAL

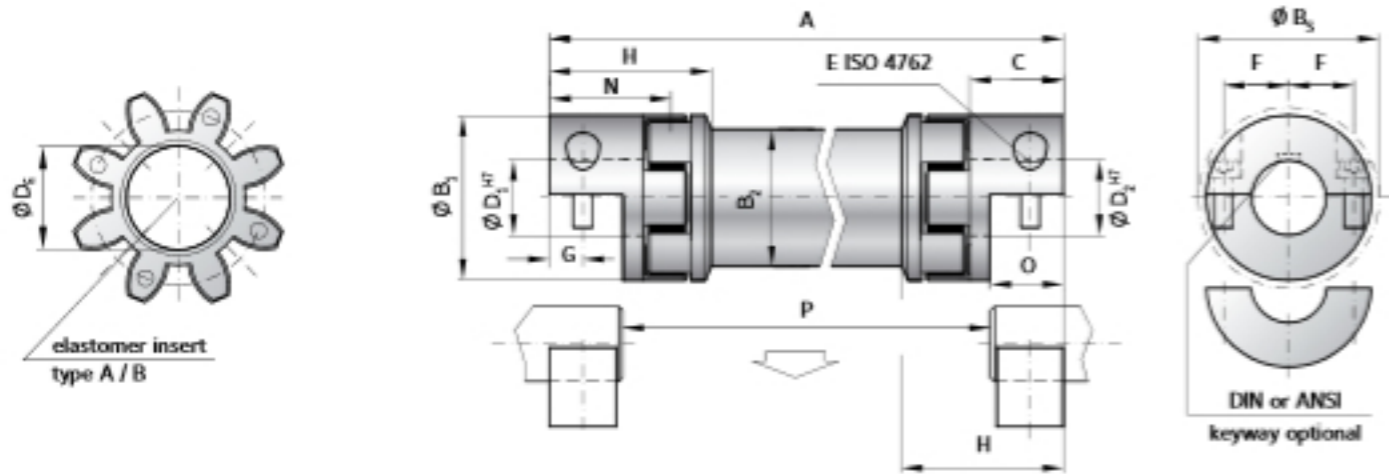
- ▶ **Hubs:** up to size 450 high strength aluminum, size 800 steel, size 2500 and up GGG40
- ▶ **Intermediate tube:** up to size 450 high strength aluminum, size 800 and up steel, optional CFK tube on request

- ▶ **Elastomer insert:** wear resistant, thermally stable TPU

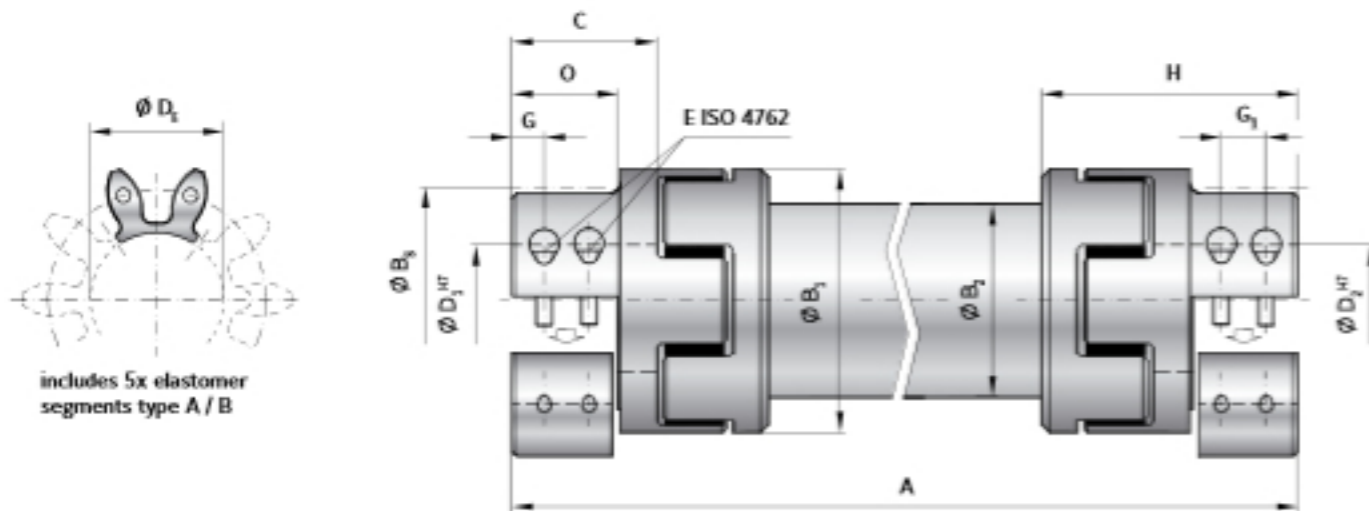
DESIGN

Two split clamping hubs, with two clamping screws in each, and concave driving jaws. Backlash free, vibration damping, electrically isolating elastomer inserts press fit into the hubs. Precision intermediate tube with a high level of straightness and lateral stiffness.

DESIGN | SIZE 10 - 800



DESIGN | SIZE 2,500 - 9,500



For details on the elastomer inserts see pages 72-73.

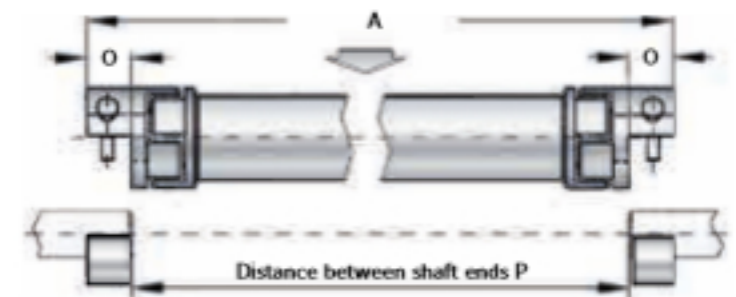
MODEL EZ2

SIZE		5		10		20		60		150		300		450		800		2500		4500		9500	
Type (Elastomer insert)		A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B	A	B
Rated torque (Nm) $T_{0.9}$		9	12	12.5	16	17	21	60	75	160	200	325	405	530	660	950	1,300	1,950	2,450	5,000	6,200	10,000	12,500
Max. torque* (Nm) T_{max}		18	24	25	32	34	42	120	150	320	400	650	810	1060	1350	1,900	2,150	3,900	4,900	10,000	12,400	20,000	25,000
Overall length (mm)	A	75 - 3,000		95 - 4,000		130 - 4,000		175 - 4,000		200 - 4,000		245 - 4,000		280 - 4,000		320 - 4,000		460 - 4,000		580 - 4,000		730 - 4,000	
Outside diameter hub (mm)	B_1	25	32	42	56	66.5	82	102	136.5	160	225	290											
Outside diameter tube (mm)	B_2	25	28	35	50	60	76	90	120	150	175	220											
Outside diameter with screwhead (mm)	B_3	25	32	44.5	57	68	85	105	139	155	199	243											
Fit length (mm)	C	13	20	25	40	47	55	65	79	88	110	140											
Inside diameter range from ϕ to ϕ H7 (mm)	D_{10}	5 - 12.7		5 - 16		8 - 25		14 - 32		19 - 36		19 - 45		24 - 60		35 - 80		35 - 90		40 - 120		50 - 140	
Max. inside diameter (Elastomer insert) (mm)	D_i	10.2	14.2	19.2	26.2	29.2	36.2	46.2	60.5	80	111	145											
Mounting screw ISO 4762	E	4 x M3		4 x M4		4 x M5		4 x M6		4 x M8		4 x M10		4 x M12		4 x M16		4 x M16		8 x M20		8 x M24	
Tightening torque (Nm)		2	4	8	15	35	70	120	290	300	600	980											
Distance between centers (mm)	F	8	10.5	15.5	21	24	29	38	50.5	57	75	90											
Distance (mm)	G/G ₁	5	7.5	8.5	15	17.5	20	25	30	18/30	24/41	30/48											
Coupling length (mm)	H	25	34	46	63	73	84	97	128	142	181	229											
Moment of inertia per hub (10^{-3} kgm ²)	J_1/J_2	0.004	0.01	0.02	0.15	0.21	1.02	2.3	17	30	140	450											
Inertia of tube per meter (10^{-3} kgm ²)	J_2	0.049	0.075	0.183	0.66	1.18	2.48	10.6	38	360	750	1,800											
Combined dynamic torsional stiffness of the inserts (Nm/rad)	C_{tw}^*	150	350	270	825	1,270	2,220	3,970	5,950	6,700	14,650	11,850	20,200	27,700	40,600	41,300	90,000	67,500	106,000	166,500	371,500	590,000	670,000
Torsional stiffness of tube per meter (Nm/rad)	C_{tw}^{tube}	503	321	1,530	6,632	11,810	20,230	65,340	392,800	1,000,000	2,500,000	5,000,000											
Shaft average value (mm)	N	18	26	33	49	57	67	78	94	108	137	171											
Length (mm)	O	11	16.6	18.6	32	37	42	52	62	67	85	105											

* Maximum transmittable torque of the clamping hub depends on the bore diameter (see pages 78).

INSTALLATION

The overall length A is best determined as the distance between shaft ends P plus 2x dimension O.



ORDERING EXAMPLE	EZ2	20	1200	A	24	19.05	XX
Model	•						
Size		•					
Overall length mm			•				
Elastomer insert type				•			
Bore D1 H7					•		
Bore D2 H7						•	
Special designation only (e.g. special bore tolerance).							
For custom features place an XX at the end of the part number and describe the special requirements (e.g. EZ2 / 20 / 1200 / A / 24 / 19.05 / XX; XX=anodized aluminum)							