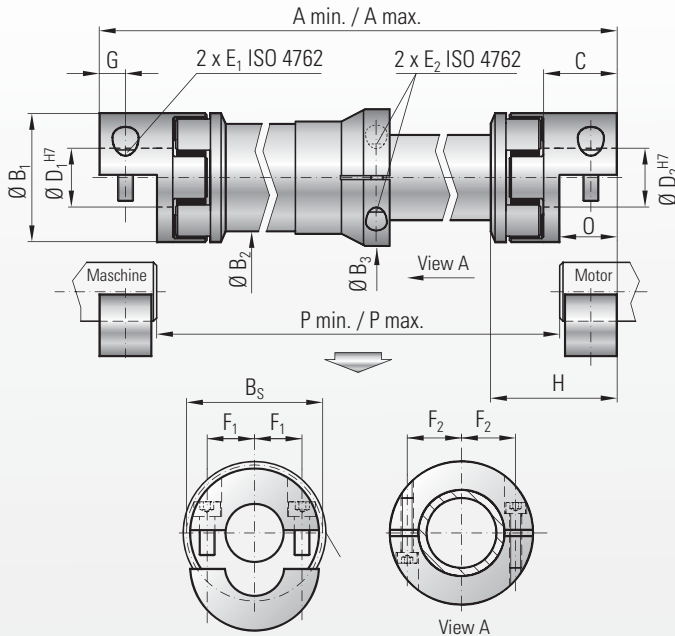


Optional:



MODEL EZV

BACKLASH FREE LINE SHAFTS



variable length

Properties:

- Lateral mounting due to split hubs
- Spans distances of up to 4 m (13.12 ft)
- Low moment of inertia
- Vibration damping
- Press fit designs
- Backlash free Line Shaft

Material:

Clamping hub: high strength aluminum.
Elastomer insert: precision molded wear resistant, and thermally stable polymer. Intermediate tubes: precision machined aluminum tube.

Design:

Two split coupling hubs are concentrically machined with concave driving jaws. Both coupling bodies are rigidly mounted to tubes with high concentricity. While loosening the tube clamping, a length variation is possible within the given range. Elastomer inserts are available in type A or B.

Speed:

To control the critical resonant speed please advise the application speed when ordering or inquiring about EZV Line Shafts.

Tolerance:

On the hub/shaft connection 0.01 to 0.05 mm.

Ordering example

EZV / 020 / 1200 / A / 24 / 19 / XX

Model
Series
Inserted min. length
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.

Model EZV	Series											
	10		20		60		150		300		450	
Type (Elastomer insert)	A	B	A	B	A	B	A	B	A	B	A	B
Rated torque (Nm) T_{KN}	12.5	16	17	21	60	75	160	200	325	405	530	660
Max. torque* (Nm) T_{Kmax}	25	32	34	42	120	150	320	400	650	810	1060	1200
Inserted min. length from - to (mm) A_{min}	150 - 2055		200 - 2075		250 - 2095		300 - 2115		350 - 2130		400 - 2150	
Extended over all length from - to (mm) A_{max}	190 - 4000		250 - 4000		310 - 4000		370 - 4000		440 - 4000		500 - 4000	
Outer diameter hub (mm) B_1	32		42		56		66.5		82		102	
Outer diameter tube (mm) B_2	28		35		50		60		80		90	
Outer diameter tube hub (mm) B_3	41.5		47		67		77		102		115	
Outer diameter with screwhead (mm) B_S	32		44.5		57		68		85		105	
Fit length (mm) C	20		25		40		47		55		65	
Inner diameter possible from Ø to Ø H7 (mm) $D_{1/2}$	5 - 16		8 - 25		14 - 32		19 - 35		19 - 45		24 - 60	
Screw ISO 4762 E_1	M4		M5		M6		M8		M10		M12	
Tighting torque of the mounting screw (Nm) E_1	4		8		15		35		70		120	
Distance between centers (mm) F_1	10.5		15.5		21		24		29		38	
Distance (mm) G	7.5		8.5		15		17.5		20		25	
Mounting length (mm) O	16.6		18.6		32		37		42		52	
Moment of inertia coupling half (10^{-3} kgm ²) J_1/J_2	0.01		0.02		0.15		0.21		1.02		2.3	
Inertia of tube per meter (10^{-3} kgm ²) J_3	0.075		0.183		0.66		1.18		2.48		10.6	
Measurement (mm) X1+X2	110		150		190		230		270		300	

* Max. transmittable torque of the clamping hub see table 3 (page 10)

Further information EK brochure page 16/17