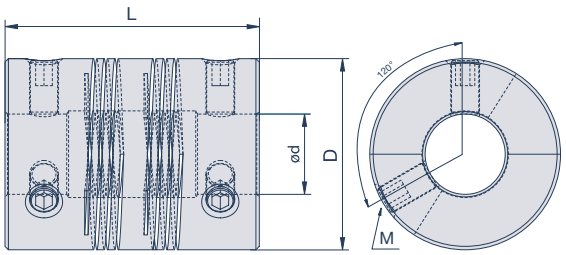
Beamflex *Encoder* PSMR-A | Aluminium

Set skrew version



Specifications

Size	D	L	M	T_A	max. rpm	T_{KN}	C_T	g	Misalignment		
	mm	mm		Nm	min^{-1}	Nm	Nm/rad	g	angular °	radial mm	axial mm
PSMR7-A	6,5	8	M1,6	0,08	8.000	0,02	0,6	0,5	2	0,1	0,15
PSMR10-A	9,5	14,3	M2	0,09	6.000	0,62	5	6	3	0,2	0,13
PSMR13-A	12,7	19,1	M2	0,15	6.000	0,9	9	12	3	0,2	0,13
PSMR16-A	15,9	20,3	M3	0,21	6.000	1,7	12	18	3	0,2	0,13
PSMR19-A	19,1	22,9	M4	0,57	6.000	2,94	20	26	3	0,2	0,13
PSMR22-A	22,2	27	M4	0,92	6.000	2,26	24	41	3	0,2	0,13
PSMR25-A	25,4	31,8	M4	1,7	6.000	4,07	36	61	3	0,38	0,25
PSMR29-A	28,6	38,1	M5	2,2	6.000	5,31	30	89	3	0,38	0,25
PSMR32-A	31,8	38,1	M5	2,2	6.000	7,68	52	98	3	0,38	0,25

M= Screw size, T_A= Tightening torque, T_{KN}= Nominal torque, C_T= Torsional stiffness, g= Mass

Bore diameters

Size	d (mm)								
	1	2	3	4	5	6	8	10	12
PSMR7-A	•	•							
PSMR10-A			•						
PSMR13-A			•	•					
PSMR16-A			•	•	•				
PSMR19-A			•	•	•	•			
PSMR22-A					•	•	•		
PSMR25-A						•	•	•	
PSMR29-A						•	•	•	•
PSMR32-A						•	•	•	•

Ordering example:
PSMR10-3-3-A
Beamflex size 10, bore 3 and 3

Various technical parameters play a decisive role in the selection of the Beamflex. Parameters such as maximum speeds, occurring shaft misalignments and drive torque should be taken into account. The required coupling size can be roughly calculated using the following formula:

$$T_{KN} > T_A \times C_S$$

The nominal torque T_{KN} of the selected coupling size should be greater than the drive torque T_A in Nm (derived from the manufacturer‘s specification of the drive motor) multiplied by the impact factor of the application.

Impact factor C_S

	Continuous motion sequence	Dynamic motion sequence with frequent start-stop	Dynamic motion sequence with frequent reversing operation
Factor C_S	1,0	2,0	4,0

Please note the maximum permissible bore diameter and the corresponding displacement capacity for the selected coupling size. Please refer to the table for the corresponding coupling size.

General technical specifications

Material
PCMR-A/PSMR-A/FCMR-A: High-strength aluminium alloy 3.4365 AlZnMgCu 1,5
FCMR-SS: Stainless steel 1.4305 X10CrNiS18-9
Clamping screws: EN ISO 4762/DIN 912 12.9; with Beamflex Servo additionally with screw Nypatch®
Set screws: EN ISO 4029/DIN 916

Temperature range
Aluminium version: -40°C bis +110°C
Stainless steel version: -40°C bis +180°C

„briefly and concisely ... explained“

OUR PICTOGRAMS

- High temperature resistance
- Vibration damping
- Axially pluggable
- High radial misalignment
- Backlash-free
- Torsionally rigid
- High angular misalignment
- High speeds
- Electrically insulating
- Corrosion resistant