The MP-15 linear actuator is designed for applications with very limited space conditions. It utilizes a voice coil linear motor and 2 magnetic limit switches for homing.

Load, max	F _X [N]	F _y [N]	F _Z [N]	<i>M_X</i> [N·m]	M _y [N·m]	<i>M</i> _Z [N·m]	k _{αχ} [μrad/N·m]	k _{αy} [μrad/N·m]	
SM-001	1	-	-	-	-	-	-	-	

Not recommended for new designs

KEY FEATURES

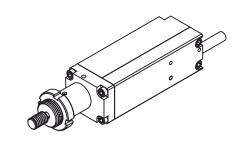
- Travel range of 10 mm
- Inductive Encoder
- Maximum force of 1 N
- Ball spline with low backlash, non-rotating tip
- Integrated magnetic limit switches

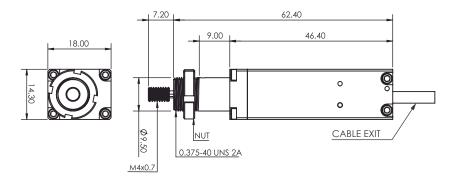
TECHNICAL DATA

Travel range [mm]	10					
Straightness / Flatness [µm]	-					
Pitch [µrad]	-					
Yaw [µrad]	-					
Weight [g]	30					
Motor option	Voice Coil Linear Motor					
Speed, max [mm/s]	50					
Encoder option	Digital (RS-422)					
Resolution, typical [µm]	0.1					
Repeatability, bi-directional [μm]	± 0.5					
Repeatability, uni-directional [µm]	0.4					
Accuracy [μm]	-					
Materials	aluminum body, stainless steel ball spline (other materials i.e. stainless steel, titanium, etc. available upon request)					

ORDERING INFORMA	TION MP-15-	3	1	3	1	0
DRIVE	Linear Motor, LM-005	3 _				
TRAVEL	10 mm	1 —				
ENCODER	Digital (RS-422)	3 —				
LIMIT SWITCH	Magnetic	1 —				
ENVIRONMENT	Atmospheric	0 —				







* all dimensions are in millimeters

