Micro Pusher | Micromike-30S & L

NEW

The Micromike-30 linear actuator is designed for applications with very limited space conditions and high load requirements. Typical applications include actuation of manual drive stage and mirror mounts. It utilizes a 2-phase stepper motor and a optical limit switches for homing (custom options include an integrated encoder). Versions are capable of operation in vacuum (10-6 mbar) are available. The Micromike-30 is compatible with the MMC-200 and NanoDrive controllers.

KEY FEATURES

- Travel range of 12 and 25 mm
- 0.1 μm open loop resolution
- Maximum force of 70N at 3mm/s
- Ball spline with zero backlash, non-rotating tip
- Integrated optical limit switch
- Vacuum versions available
- Optional encoder available

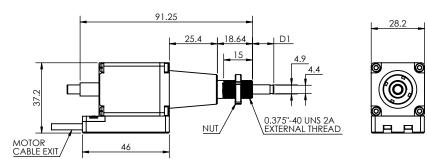
TECHNICAL DATA

Travel range [mm]	12	25			
Straightness / Flatness [µm]	-	-			
Pitch [μrad]	-	-			
Yaw [µrad]	-	-			
Weight [g]	160	170			
Motor option	2-Phase Stepper Motor				
Speed, max [mm/s]	10mm/s				
Encoder option	None (open loop)				
Resolution, typical [μm]	0.1				
Repeatability, bi-directional [µm]	± 0.5				
Repeatability, uni-directional [μm]	0.5				
Materials	aluminum body, stainless steel ball spline (other materials i.e. stainless steel, titanium, etc. available upon request)				

ORDERING INFORMA	Micromike-30-		2	0	1	0
DRIVE	Stepper Motor, SM-010	2				
TRAVEL	12 mm 25 mm	1				
ENCODER	Optional	0				
LIMIT SWITCH	Optical	1				
ENVIRONMENT	Atmospheric High vacuum, 10 ⁻⁶ mbar					

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	70	0	0	-	-	-	-	-





- * 12 mm travel version shown above
- * 25 mm travel version shown below
- * all dimensions are in millimeters

