

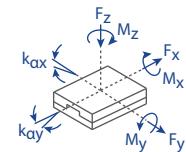
# Precision Positioning Table | MLS-55

**NEW**

The MLS-55 is a high speed, high response positioning table. The ultra low profile stage uses low maintenance recirculating ball bearings and a linear motor for smooth travel. The MLS-55 is designed to be operated in atmospheric environments where magnetic fields are tolerated. The MLS-55 stage is compatible with the Nanodrive controller.

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Load, max	$F_x [N]$	$F_y [N]$	$F_z [N]$	$M_x [N\cdot m]$	$M_y [N\cdot m]$	$M_z [N\cdot m]$	$k_{ax} [\mu\text{rad}/N\cdot m]$	$k_{ay} [\mu\text{rad}/N\cdot m]$
PM-002	25 (peak)	20	50	1	1	1	-	-



## KEY FEATURES

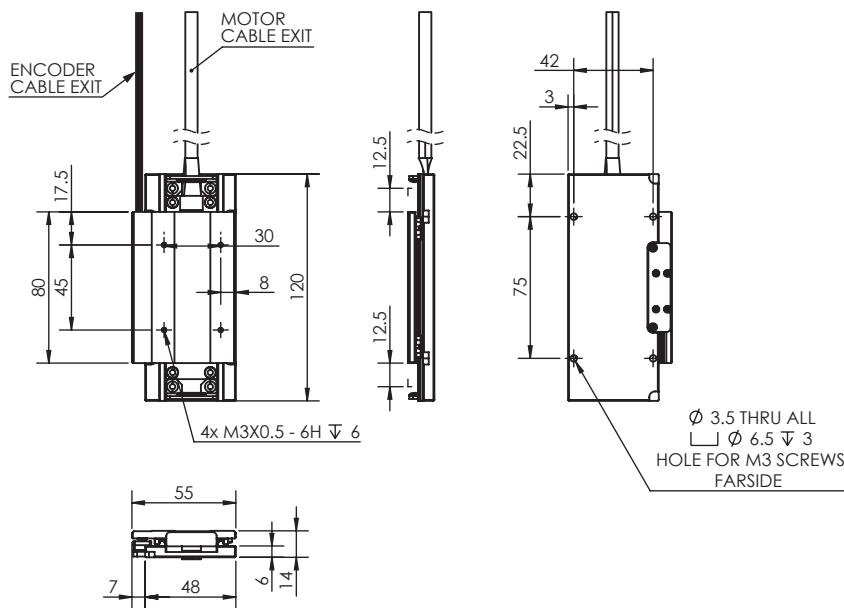
- 25mm travel (additional travel lengths available on request)
- 25nm absolute encoder resolution
- Load up to 5 kg
- Low profile, 14mm height

## TECHNICAL DATA

Travel range [mm]	25
Straightness / Flatness [ $\mu\text{m}$ ]	
Pitch [ $\mu\text{rad}$ ]	
Yaw [ $\mu\text{rad}$ ]	
Weight [g], Open Loop	420
Weight [g], Closed Loop	450
Motor option	Linear Motor
Speed, max [mm/s]	500
Encoder option	Absolute (BiSS C)
Resolution, typical [nm]	25
Repeatability, bi-directional [nm]	$\pm 100$
Repeatability, uni-directional [nm]	100
Materials	steel carriage and base, steel bearing, (other materials i.e. stainless steel, titanium, etc. available upon request)

## ORDERING INFORMATION MLS-55 - 3 1 5 0 0

<b>DRIVE</b>	Linear Motor .....	3
<b>TRAVEL</b>	25mm .....	1
<b>ENCODER</b>	Absolute (BiSS C).....	5
<b>LIMIT SWITCH</b>	None .....	0
<b>ENVIRONMENT</b>	Atmospheric .....	0



Specifications are subject to change without notice.