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Page

44 4.008 ** Linear Motor Stage LMS-110



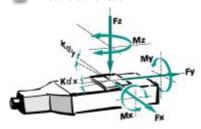






Key features

- Linear motor
- Travel range up to 155 mm
- Maximum speed 200 mm/sec
- Load capacity 5 kg
- Bi-directional repeatability +/- 0.2 μm
- Linear recirculating ball system
 - Special, tempered Aluminium
 - Limit switches integrated
 - Module combination



FACTS

Load Characteristics	Fx (N)	Fy (N) (Peak)			Mx (Nm)	My (Nm)	Mz (Nm)	kax (µrad/Nm)	kay (µrad/Nm)
<u>LM-005</u>	25	20	6	50	30	60	33	100	70

DESCRIPTION

Linear Stages of the structural series LMS-110, LMS-180 and LMS-300 are mainly employed for modern electronic production and laser application. Combined with directly driven Rotation Stages of MICOS high-dynamic precise positioning systems can be configured resulting in an efficient production. Linear Stages LMS-110 are driven by linear motors without iron. They are controlled by closed loop modus. The linear measuring system with very high

LMS-110 26 & 52 mm

accuracy is installed between the guides. Especially significant is a very quiet and dynamic smooth movement. All Linear Stages of the structural series LMS are equipped with inductive travel-limit switch and protection against damage. Note: Linear Stage LS-110 is similar to LMS-110 (similar design) but LS-110 is equipped with recirculating ball screw (no linear motor) and DC,- stepper motor. Please see page 2.054



Technical data

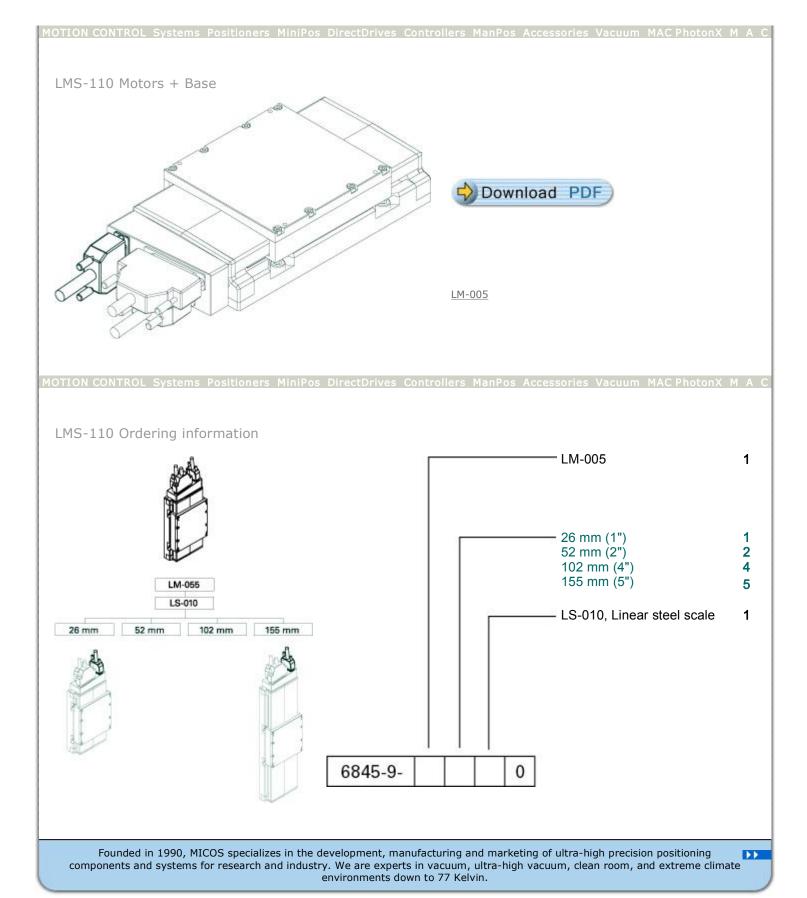
Travel Range (mm)	26	52	102	155
Bi-directional Repeatability (µm)	+/- 0.2			
Accuracy per 25 mm (µm)	+/- 0.25			
Velocity Range (mm/sec)	0.001 200			
Straightness / Flatness (µm)	+/- 1.5	+/- 1.5	+/- 2.5	+/- 3
Pitch (µrad)	+/- 30	+/- 40	+/- 60	+/- 70
Yaw (µrad)	+/- 40			

Speed max. (mm/sec)			
<u>LM-005</u>	200		

Resolution Closed-Loop (µm)						
LM-010, Linear steel scale	0.1	higher resolution on request				
Winding Constant						
Force constant (Nm/Ams)	3.7					
Back EMF constant (peak value) V/(m/s)*	-					
Electrical time constant (ms)*	0.35					
Electrical inductance (mH)*	-					
Continuous current at 80° (Ams)	-					

Material	Special Aluminium, black anodized				
Weight (kg)					

Note: * Terminal to terminal



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