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44 4.006 FF Linear Motor Stage LMS-120















Linear motor

Travel range 40 mm

Maximum speed 200 mm/sec

Load capacity 2.5 kg

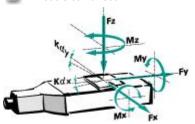
Bi-directional repeatability +/- 0.2 µm

Linear recirculating ball bearings

Special, tempered Aluminium

Inductive limit switches integrated

Module combination





Load Characteristics	Fx (N)		Fy (N) (Con.)		Mx (N)	My (Nm)	Mz (Nm)	kax (µrad/Nm)	kay (µrad/Nm)
<u>LM-005</u>	50	6	25	100	3	6	3	10	7

DESCRIPTION

LMS-120 [XY setup]

Linear Stages LMS-120 is mainly employed modern electronic for application. production and laser Combined with directly driven Rotation Stages of MICOS high-dynamic precise positioning systems can be configured resulting in an efficient production. Linear Stages LMS-120 are driven by linear motors without iron. They are controlled by closed loop modus. The length measuring system with very high accuracy is installed between the guides. Especially significant is a very quiet and dynamic smooth move. The Linear Stages LMS-120 is equipped with inductive travel limit switches and protection against damage.



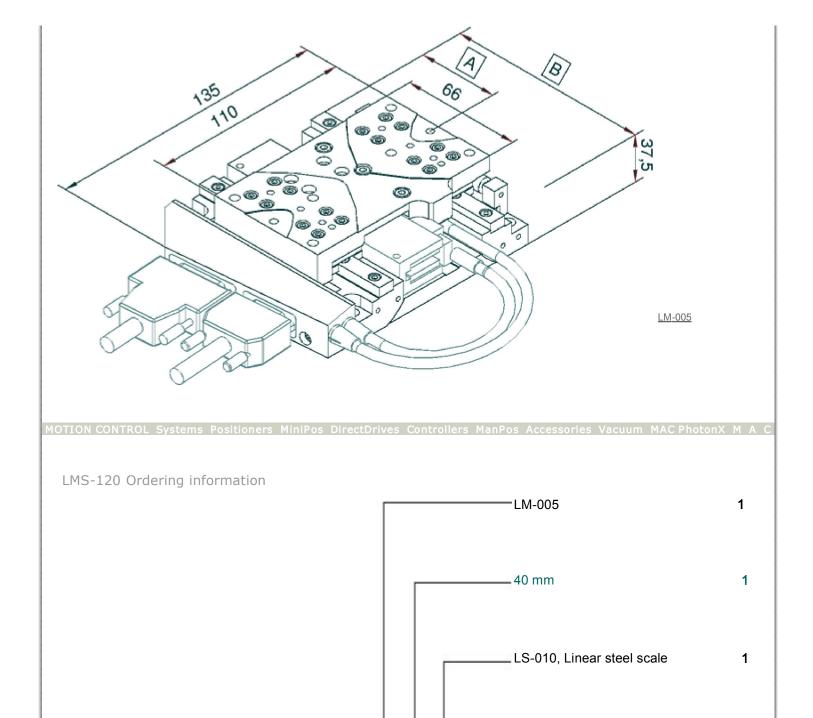
Technical data

Travel Range (mm)	40		
Bi-directional Repeatability (µm)	+/- 0.2		
Accuracy per 25 mm (µm)	+/- 0.25		
Velocity Range (mm/sec)	0.01 200		
Straightness / Flatness (µm)	+/- 2		
Pitch (µrad)	+/- 50		
Yaw (µrad)	+/- 40		
Speed max. (mm/sec)			
LM-005	200		
Resolution Closed-Loop (µm)			
LS-010, Linear steel scale	0.1		
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 at 80° (Ams)	-		
Material	Special-Alu, black anodized		
Weight (kg)	1.3		

LMS-120 Base & Motors



Travel ranges	A (mm)	B (mm)
40 mm	57.5	115



Founded in 1990, MICOS specializes in the development, manufacturing and marketing of ultra-high precision positioning components and systems for research and industry. We are experts in vacuum, ultra-high vacuum, clean room, and extreme climate environments down to 77 Kelvin.

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