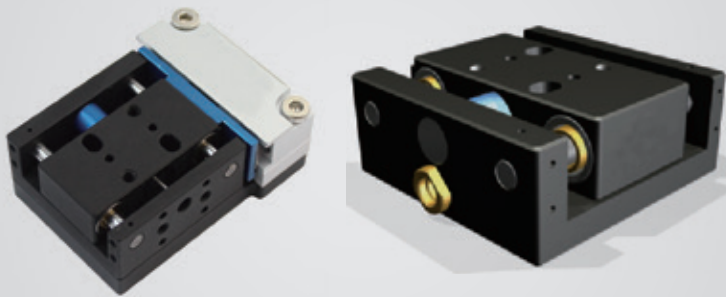


X axis | MN30-8mm Linear Piezo Motor



Characteristics >>

- Piezo drive
- Small size
- Nanometer resolution
- 8mm travel
- Optional closed-loop version, vacuum version

Applications >>

- Wafer inspection
- Profilometry
- Nano lithography
- Nanotechnology and metrology
- Microscopy
- Semiconductor technology
- Surface measurement technique
- Motion in strong magnetic fields or vacuum

Introduction

MN30-8mm linear piezo motor adopts piezo step direct drive, and features long travel and small size. Optional servo sensors (incremental encoder) is for high positioning accuracy and motion platform are available.



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Technical Data >>

Type	MN30-8mm	Units
Width	30	mm
Height	12.5	mm
Depth	30	mm
Travel	8	mm
Speed	1.2	mm/s
Mass	32	g
Load capacity		
Torque Mx	5	Ncm
Torque My	5	Ncm
Torque Mz	5	Ncm
Blocking force Fx	4.5	N
Fy, Fz	30	N
Resolution(cal.)		
Single step	~450	nm
1/16 step	~30	nm
1/64 step	~10	nm
1/2 step	~250	nm
Double steps	~900	nm
Guiding accuracy (unloaded)		
Yaw angle	20	arc sec
Pitch angle	60	arc sec
Vertical deviation	1	μm
Lateral deviation	2	μm

Note: Closed-loop version available with larger size. The closed-loop accuracy is up to $\pm 1\mu\text{m/m}$. The frequency is up to 400kHz.

Communication via RS-422 port. Operating temperature is 0~55°C. 2-axis or 3-axis motion versions are available.

Optional Sensor >>



Recommended Controllers >>

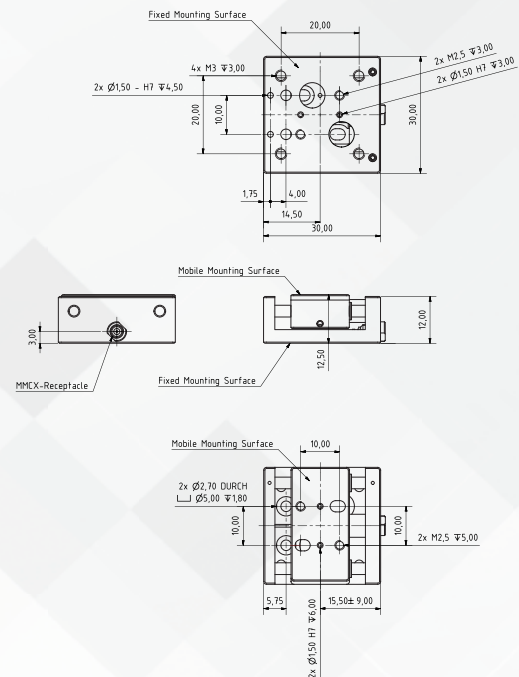


E53.D1E/C1K-J
 Software control
 suitable for 1-axis stage
 Open loop or servo control



E71.D3E/C3K-J
 Software control
 suitable for 2 or 3-axis stage
 Open loop or servo control

Drawing(without sensor) >>



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