

X axis | MN30-30mm

Linear Piezo Motor



Characteristics >>

- Piezo drive
- Small size
- Nanometer resolution
- 30mm 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

MN30-30mm 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.



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790

Email: info@coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin

Fax: +86-451-86267847

Web: www.coremorrow.com

Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai

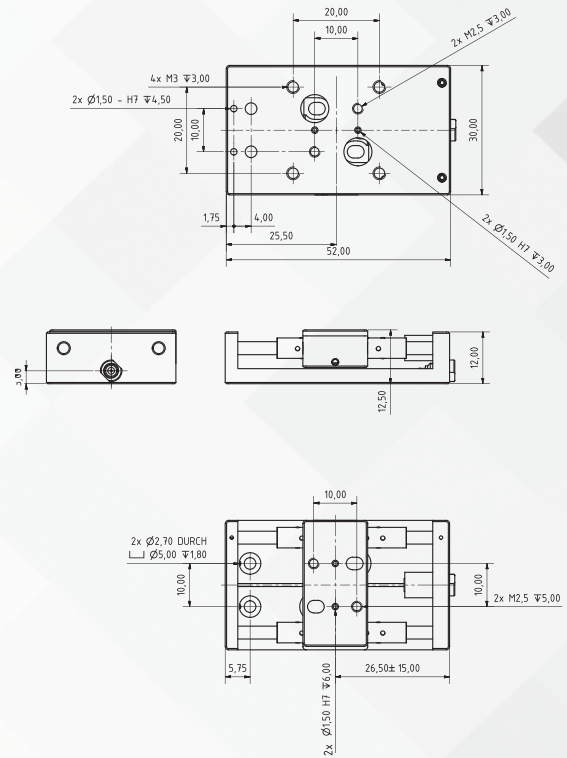
Technical Data >>

Type	MN30-30mm	Units
Width	52	mm
Height	12.5	mm
Depth	30	mm
Travel	30	mm
Speed	1.2	mm/s
Mass	54	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 is 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

Drawing(without sensor) >>



Optional Multiple Axes >>



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



Harbin Core Tomorrow Science & Technology Co., Ltd.

Tel: +86-451-86268790 Email: info@coremorrow.com
 Fax: +86-451-86267847 Web: www.coremorrow.com

Headquarters: Building I2, No.191 Xuefu Road, Nangang District, Harbin
 Shanghai Office: Building 2, No.608 Shengxia Road, Pudong District, Shanghai