

# X axis | N56.20K-B1

## Linear Piezo Motor



### Characteristics >>

- Piezo drive
- High resolution
- Stroke up to 20mm
- Small size

### Applications >>

- Atomic force microscope
- Fiber optic docking
- Nano positioning with small load & large travel
- Precision positioning & micro-nano operation of semiconductors, etc.
- Scientific research
- Microfabrication

## Introduction

The N56 linear piezo motor adopts piezo micro-drive technology, which uses piezo micro-displacement actuators to achieve high-precision positioning and movement technology. Macro motion linear millimeter-level stroke is achieved after mechanical structure conversion of the micro-deformation of piezo actuator under electric field.



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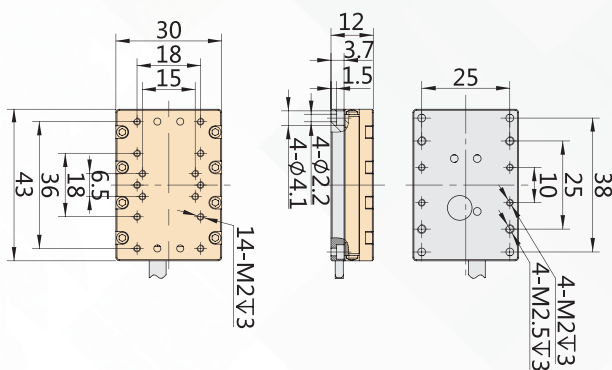
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**Technical Data >>**

Type	N56.20K-B1	Units
Active axes	X	
Nominal travel range	20 or $\pm 10$	mm
Max speed	5	mm/s
Open loop resolution	<1	$\mu\text{m}$
Max push/pull force (active)	3.5	N
Max holding force (passive)	4.5	N
Max load (horizontal direction)	0.5	kg
Axial stiffness	1.5	$\text{N}/\mu\text{m} \pm 10\%$
Lateral stiffness	9	$\text{N}/\mu\text{m} \pm 10\%$
Operating temperature <sup>[1]</sup>	0~50	$^{\circ}\text{C}$
Material	Al, stainless steel	
Mass (not include cable)	50	$\text{g} \pm 10\%$
Cable length <sup>[1]</sup>	1.5	$\text{m} \pm 10\text{mm}$
Voltage connector <sup>[1]</sup>	RJ11 4P4C	

Note: UHV version is available. Custom closed-loop version is available.

[1]: custom is available.

**Drawing >>**

**Recommended Controllers >>**


**E53.C1K-J**  
 USB and serial port communication  
 Suitable for piezo motor  
 24VDC/1A power supply



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