

Make Your Motion and Control More Accurate!

X axis | 2000A10 **Amplified Piezo Actuators**

Characteristics >>

- X Contraction
- Displacement to 1600µm
- Blocking force to 11.2N
- Unloaded resonant frequency to 190Hz
- Nanoscale resolution

Applications >>

- Probe scanning
- Fiber stretching
- Micro-scanning
- Flow measurement technology Inkjet technology
- Optical mirrors positioning
- Diamond turning
- laser cavity tuning



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Introduction

The amplified piezo actuator is an actuator that amplifies and outputs the displacement generated by low-voltage piezo stacks preloaded by a mechanical amplifying structure.

The amplified structure is an mechanical shell, and its material is generally steel. In addition to providing optimized pre-tightening force for piezo stacks, it also protects piezo stacks from tensile forces that can cause irreversible or even fatal damage to piezo stacks.



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Technical Data >>

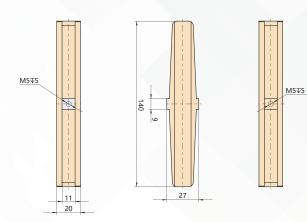
Туре	2000A10	Units
Active axes	Х	
Travel range	1600	µm±20%
Blocking force	11.2	Ν
Unloaded resonant frequency	190	Hz±20%
Stiffness	0.007	N/µm±20%
El. capacitance	43	μF±20%
Operating temperature ^[1]	-20~80	°C
Material	Steel	
Sensor	optional	
Cable length ^[2]	0.15	m±10mm
Voltage connector ^[2]	Bare wire	

Note: Max driving voltage could be -20V~150V, 0~120V is recommended for long-term and high-reliable operation.Unless otherwise specified, the above parameters are measured at room temperature about 25° C.

Custom ultralow temperature and ultrahigh vacuum versions are available.
Custom cable length and connector is available.

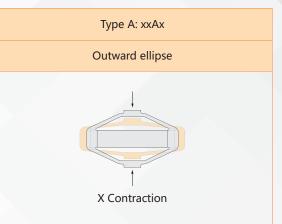
Note: The parameters mentioned above are related to the test environment and test equipment.

Drawing >>



Principle >>

Piezo stacks produce deformation and displacement along the main axis, that is, the long axis direction, and the elliptical mechanical structure amplifies and outputs the displacement along the short axis direction.



Recommended Controllers >>



E01.C1 LCD, membrane button, up to 625mA RS-232/RS-422/USB interface Software secondary development

E53.C Small size, 60mA RS-232/RS-422/USB interface Software secondary development

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