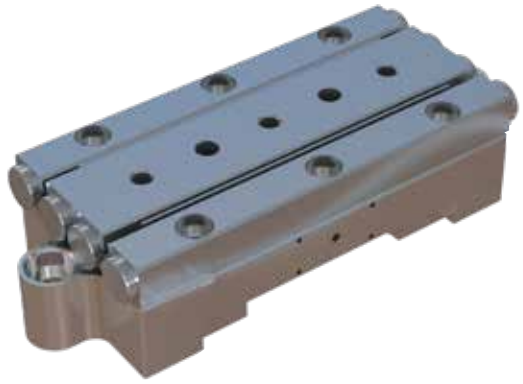
Piezoelectric Stepping Motor Stage - Linear



Features

- High drive force
- Nano precision
- High static holding force
- Large travel range
- High resolution
- Suitable for high vacuum environments
- Applicable in non-magnetic environments

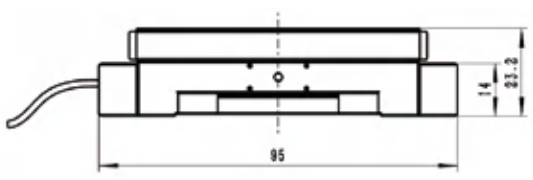
Description

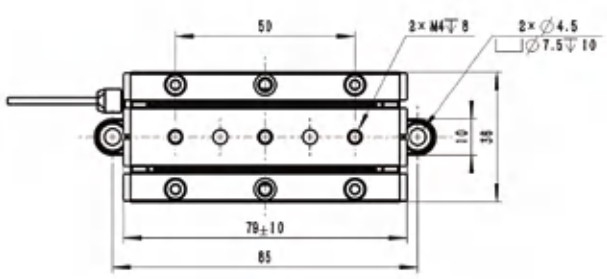
Piezoelectric Inertia Motor is a linear motion positioning device based on stick-slip drive logic, which can achieve millimeter-level motion stroke and nanometer-level positioning accuracy, with the advantages of small size, high stiffness and fast positioning, the motor integrates high-precision closed-loop sensors, which is very suitable for nano-micro displacement control systems.

Applications

- Precision adjustment of the lithographic lens
- Precision electron microscope adjustment
- Non-magnetic environment
- Vacuum without heating environment
- Precision semiconductor equipment
- Precision medical testing equipment
- Space Science

Interface Definition





Technical Specifications

	PMNL-A02-20	Unit	Tolerance
Active axes	X		
Motion and positioning			
Travel range	20	mm	
Travel range in X (analog mode)	±2	µm	
Sensor	-		
Open loop resolution	1	nm	
Closed loop resolution	-	nm	
Velocity	0.6	mm/s	Max. value
Max. drive frequency	150	Hz	±20%
Mechanical properties			
Drive force	20	N	Max. value
Holding force	30	N	Min. value
Drive properties			
Operating voltage	-250~+250	V	
Miscellaneous			
Operating temperature range	0~55	°C	
Material	Stainless steel, titanium alloy		
Mass	255	g	±5%
Cable length	2	m	±0.05 m
Motor interface	Sub-D15 male connector		