

Piezoelectric Tube Scanners

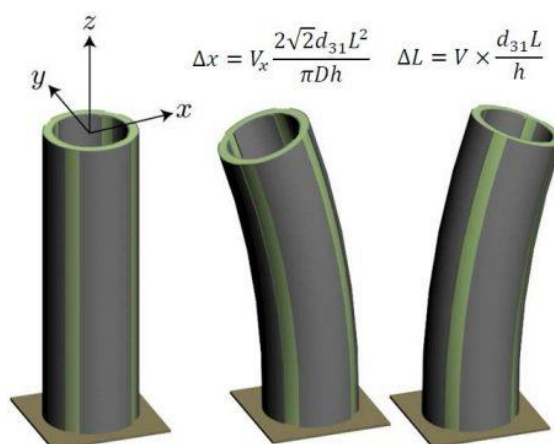
Piezoelectric tube scanners are thin cylinders of radially poled piezoelectric material with four external electrodes and a continuous internal electrode. When a voltage is applied to one of the external electrodes, the actuator wall expands which causes a vertical contraction and a large lateral deflection of the tube tip. A circumferential electrode can be used for vertical or radial extension and contraction.

Piezoelectric tube scanners are used extensively in scanning probe microscopes and applications such as fibre stretching and beam scanning. Customised dimensions and/or specifications are available on request.



Specifications

Order Code	Length	Diameter	Thickness	Electrode Clearance	Max. Voltage	Scan Range	Extension Range	Quadrant Capacitance
TB1005	10.00mm	5.0mm	0.66mm	1mm	+/-265V	3.8um	2.1um	3nF
TB2005	20.00mm	5.0mm	0.66mm	1mm	+/-265V	15um	4.2um	6nF
TB3507	35.00mm	7.0mm	0.66mm	1mm	+/-265V	39um	7.4um	10nF
TB5009	50.80mm	9.5mm	0.66mm	1mm	+/-265V	52um	10um	17nF
TB5509	55.00mm	9.0mm	0.60mm	1mm	+/-265V	66um	12um	17nF
TB6006	60.00mm	6.0mm	0.65mm	1mm	+/-265V	114um	12um	12nF



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