



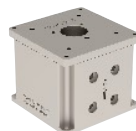
Linear25-z



Linear25-z-LR



Linear35-x



Linear35-z-Optic

"25mm Series"		"35mm Series"		Defined by size		
Default: 1.4 K ~ 400 K; 1e-7 mbar; 35Tesla Option1 - .ULT, lowest use temperature 30 mK; Option2 - .UHV, highest vacuum environment 2E-11 mbar;				Work Environment	1	
25 × 25 × 19.6 mm	25 × 25 × 29.6 mm	35 × 35 × 10.5 mm	35 × 35 × 30 mm	Dimensions	2	
6 mm	16 mm	20 mm	8 mm	Travel Range	3	
300 g	300 g	2500 g	500 g	Max. Load	4	
3 N	3 N	3 N	5 N	Dynamic Drive Force	5	
Resistive sensor				Position Sensor	6	
6 mm	16 mm	20 mm	8 mm	Sensor Range		
150 nm				Sensor Resolution		
1 ~ 2 μm				Sensor Repeatability		
Max. 200 V				Drive Voltage		7
sub-nanometer @ 2 K				Fine Tune Resolution @ 2 K*		8
~ 10 nm @ 300 K				Step Size (min) @ 300 K*		9
Drive -4 pins Sensor - 3 pins	Drive - 4 pins Sensor - 3 pins	Drive - 2 pins Sensor - 3 pins	Drive - 4 pins Sensor - 3 pins	Pins Number		10
34g	62 g	54 g	118 g	Weight		11

Fine Tune Resolution @2 K–Fine tune mode is a unique analog motion driven method, where piezo units are controlled by analog voltage signal, instead of continuous high frequency wave sequence. Because the resolution of the analog signal is very high, the stage can achieve sub-nano meter positioning accuracy.

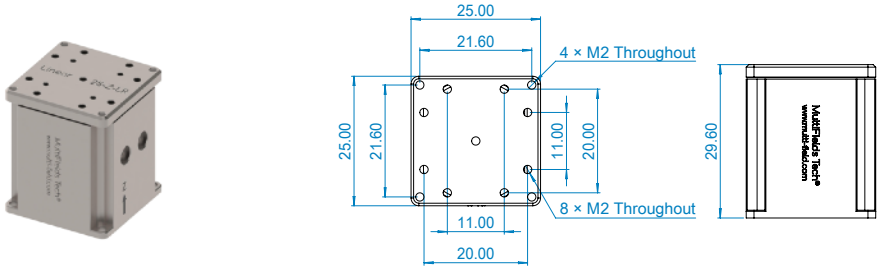
Step Size (min) @300 K–The open loop minimum incremental step size that the stage can move when it's doing stick-slip motion, driven by continuous high frequency wave sequence.

“25mm Series” – Linear25-z.LR (closed-loop)

Larger motion range with low cross-talk in X&Y direction

- ➔ Features
- Compact design
 - Non-magnetic material
 - High load & force
 - 16mm travel range
 - Ultra-high vacuum & low temperature compatible

➔ Picture & dimensions



➔ Specifications

Optional Versions ⇨		.HV (default)	.ULT	.UHV	.ULT.UHV
		.HV version, compatible with 1E-7 mbar .ULT version, used at He3 or dilution cryogenics systems .UHV version, compatible with 2E-11 mbar			
1	Footprint × hight	25 × 25 × 29.6 mm			
2	Weight	62 g			
3	Work environment	Temperature range: 1.4 ~ 400 K, Max. Magnetic field: 35 Tesla			
4	Option1 - 30 mK		✓		✓
5	Option2 - 2e-11 mbar			✓	✓
6	Mainbody	Pure Ti	BeCu	Pure Ti	BeCu
7	Wires	Phosphor Bronze Twisted Paired Wires, 20cm			
8	Pin materials	Polyster (glass fiber filled), BeCu		Peek, BeCu	
9	Pins number	Drive - 4 pins , Sensor - 3 pins			
10	Fine Tune Resolution @2 K*	sub - nm			
11	Step Size (min) @300 K*	~ 10 nm			
12	Travel range	16 mm			
13	Max. Velocity @300 K	~ 2 mm/s			
14	Max. Load	300 g			
15	Dynamic force	3 N			
16	Position encoder	Resistive Sensor			
17	Encoder range	16 mm			
18	Sensor resolution	~ 150 nm			
19	Repeatability	1 - 2 μm			

For detail drawing and 3D model please contact us.