



LS-Linear100



LS-Linear200

		Series defined by size
Default: 1.4 K ~ 400 K; 1e-7 mbar; 35 Tesla Option1 - .ULT, lowest use temperature 30 mK; Option2 - .UHV, highest vacuum environment 2E-11 mbar;		Work Environment 1
X Axis		Motion Axes 2
180 × 32 × 19.5 mm	320 × 32 × 19.5 mm	Dimensions 3
100 mm	200 mm	Travel Range 4
1.5 kg	2 kg	Max. Load 5
Resistive sensor		Positioner Sensor 6
100 mm	200 mm	Sensor Range
150 nm		Sensor Resolution
1 ~ 2 μm		Sensor Repeatability
Max.200 V		Drive Voltage 7
Drive - 2 pins, Sensor - 3 pins		Pins 8
Default: Pure Ti; ULT: BeCu		Main Body 9
300 g	600 g	Weight 10

“LS-Linear Series” – LS-Linear100 (closed-loop)

Linear motion stage with long travel range of 100 mm at cryogenic temperature

- ➔ Features
- High load & force
 - Non-magnetic material
 - Ultra-high vacuum & low temperature compatible
 - 100 mm travel range
 - Closed-loop control

➔ 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	180 × 32 × 19.5 mm			
2	Weight	300 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 - 2 pins, Sensor - 3 pins			
10	Travel range	100 mm			
11	Max. Velocity @300 K	~ 3 mm/s			
12	Drive voltage	Max. 200 V			
13	Max. Load	1000 g			
14	Dynamic force	3 N			
15	Position encoder	Resistive Sensor			
16	Encoder range	100 mm			
17	Sensor resolution	~ 150 nm			
18	Repeatability	1 - 2 μm			

For detail drawing and 3D model please contact us.