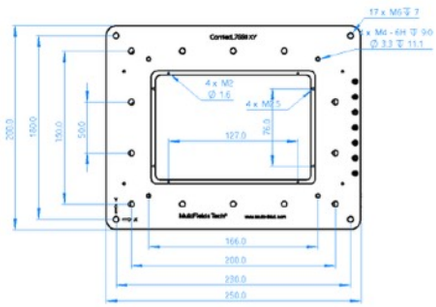
2D linear stage for microscope – Carrier.L7550.XY

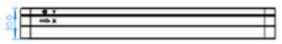
Carrier.L7550.XY

Feature

- XY Range： 75 mm × 50 mm
- Minimum step size: ~10 nm
- Maximum speed: 10 mm/s
- Close loop resolution:1 nm /2.44 nm /4.88 nm / 10 nm
- Trough hole (full range guaranteed): 85 mm × 65 mm
- Non-magnetic（.NM）、High vacuum（.HV）& Ultra-high vacuum （.UHV）optionnal
- Material: Aluminum Alloy (main body)

2D·Drawings





Carrier.L7550.XY，2D linear stage – Specification

Optional Versions ⇨		Standard	.NM	.HV	.UHV
		.NM, non-magnetic; .HV, high vacuum; .UHV, ultra-high vacuum;			
1	Direction of movement	X, Y			
2	Footprint, hight	250 mm × 200 mm × 30 mm			
3	Minimun installation size	325 mm × 250 mm			
4	Effective through-hole size	85 mm × 65 mm			
5	Mainbody Materials	Aluminium alloy			
6	Cable & Connectors	Standard shielded cable circular connector and DB9		kapton shielded wire, 2mm pitch pin with PEEK base	
7	Operating temperature range	10 - 40 °C			
8	Weight	2400 g			
The formMotion parameters - recommended installation form . (the following properties are measured under the recommended installation form)					
9	Travel Range	75 mm × 50 mm			
10	Max Velocity	~ 10 mm/s*			
11	Mini Step Size	～ 10 nm			
12	Drive Frequency	Max. 20 kHz （super quiet）			
13	Max Load	2 kg			
14	Pitch & yaw（full range）	0.8 mrad			
Sensor					
15	Sensors	- Optic Encoder（.O）			
16	Sensor Range	75 mm × 50 mm			
17	Sensor Resolution	- Optic Encoder（.O）， 4.88nm, 2.44nm, 1nm， 10nm optionnal（10nm by default）			

*can be reached only with MC-Newton.Pro series.

Piezoelectric Motion - RT

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