

2 Multi Degrees of Freedom

27-38

2.1



Free XD series

Multi Degrees of Freedom, Long Travel Range, Parallel Kinematic

27

2.1.1

Z Tx Ty

Free3D.ZTxTy

29

2.1.2

X Y Z · Tx Ty Rz

Free6D.3-2.150, Free6D.3-2.070

30

2.2



Carrier series

Carrier.L7550.XY, Carrier.L1010.XY

33

2.3



Piezo Motor Controller

MC-Newton.S

37

“Carrier Series”

Microscopy Imaging and Positioning



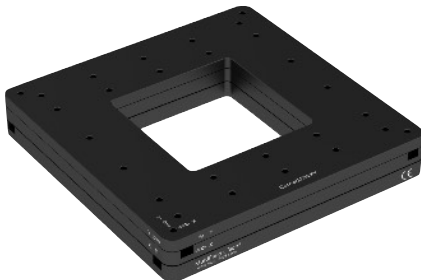
➔ Carrier.L7550.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 75 × 50 mm

Minimum Incremental Motion: 10 nm

Max. Payload: 2 kg



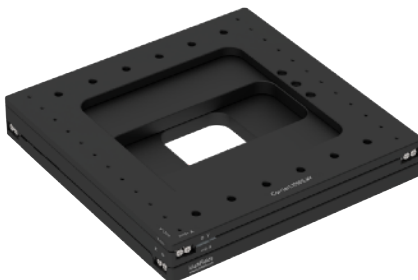
➔ Carrier.L1010.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 100 × 100 mm

Minimum Incremental Motion: 10 nm

Max. Payload: 4 kg



➔ Carrier.L1010s.XY

Piezo Motor Positioning Stage, Optical Sensor Feedback

Travel Range: 100 × 100 mm

Minimum Incremental Motion: 10 nm

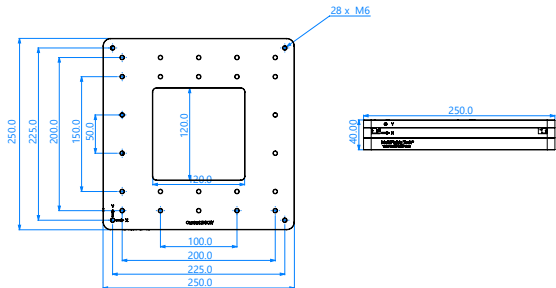
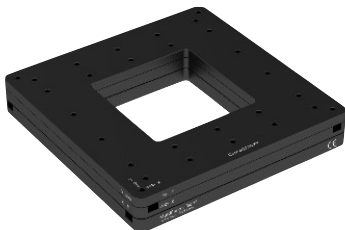
Max. Payload: 4 kg

Planar Linear Motion — Carrier.L1010.XY

High Resolution Piezo Motor Driving, Close-loop Control, for Microcopy

- ➔ Feature
- Quiet Motion
 - Nanometer Resolution
 - Stackable with Piezo Scanner
 - XY Planar Structure
 - Self-lock
 - Clear Aperture
 - Optical Sensor Inside

➔ Photo & Drawing



➔ Specification

Carrier.L1010.XY

1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;
2	Motion Direction	X, Y
3	Size	250 × 250 × 40 mm
4	Mounting Space	350 × 350 × 40 mm
5	Aperture	120 × 120 mm
6	Material	Aluminum / Stainless Steel
7	Cable & Connector	Standard/HV, shield cable and D-Sub15 plug; UHV, Kapton, PEEK D-Sub15
8	Work Temperature	10 ~ 40 °C
9	Travel Range	100 × 100 mm
10	Max. Velocity	~ 10 mm/s*(Reduce to 10% in Vacuum)
11	Minimum Incremental Motion (Close-loop)	10 nm
12	Driving Frequency	Max. 20 kHz
13	Max. Payload (horizontal mounting)	4 kg
14	Pitch/Yaw	0.3 mrad
15	Sensor Type	Optical Sensor
16	Sensor Resolution	2 nm (Default)
17	Controller	MC-Newton.S series

* For detail drawing and 3D model please contact us.