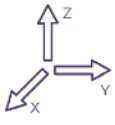
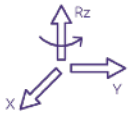
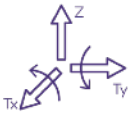
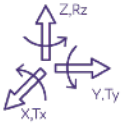
Carrier.S Series

Versatile, High Performance

Multi Degrees of Freedom, Parallel Metrology with Capacitive Sensor, Parallel Kinematic

		Travel Range – 100 µm
1 Axis		Carrier.S100.Z.C 100 µm
2 Axes		Carrier.S100.XY.C 100 µm, 100 µm
		Carrier.S100.XYZ.C 100 µm, 100 µm, 100 µm
3 Axes		Carrier.S100.XYRz.C 100 µm, 100 µm, ± 1 mrad
		Carrier.S100.ZTxTy.C 100 µm, ± 1 mrad, ± 1 mrad
6 Axes		Carrier.S100.XYZTxTyRz.C 100 µm, 100 µm, 100 µm, ± 1 mrad, ± 1 mrad, ± 1 mrad

* Non-magnetic, Ultra High Vacuum Versions available

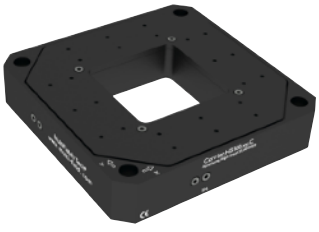
XY Piezo Scanner — Carrier.S100/200.XY.C

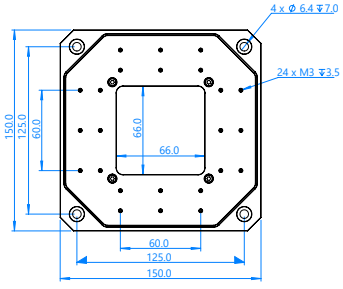
Versatile, High Performance, Clear Aperture, XY Motion

➡ Feature

- •Piezo Stack Driving
- • Flexure Guiding
- • CAP Sensor, Close-loop Control
- • Parallel Metrology
- • Sub-nanometer Resolution

➡ Photo & Drawing





➡ Specification

		Carrier.S100.XY.C	Carrier.S200.XY.C
1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;	
2	Motion Direction	XY	
3	Footprint × Height	150 × 150 × 30 mm	
4	Material	Aluminum, Stainless Steel	
5	Travel Range (Close-loop XY)	100 x 100 μm	200 x 200 μm
6	Aperture	66 × 66 mm	
7	Linearity	0.03%	
8	Resolution (Close-loop / Open-loop)	1 nm / 0.2 nm	2 nm / 0.4 nm
9	Repeatability	10 nm	10 nm
10	Stiffness	2 N/μm	1 N/μm
11	Resonant Frequency (no load / 2.5 kg)	420 / 130 Hz	340 / 100 Hz
12	Max. Payload	5 kg	
13	Sensor Type	Capacitive	
14	Driving Voltage	Max. 150 V	
15	Working Temperature	15 ~ 40 ˚C	
16	Controller	MC-Archimedes.N	

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