

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

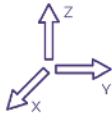
100 μm

2 Axes



Carrier.S100.XY.C

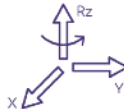
100 μm , 100 μm



Carrier.S100.XYZ.C

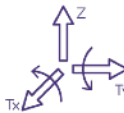
100 μm , 100 μm , 100 μm

3 Axes



Carrier.S100.XYRz.C

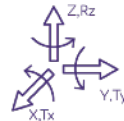
100 μm , 100 μm , ± 1 mrad



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

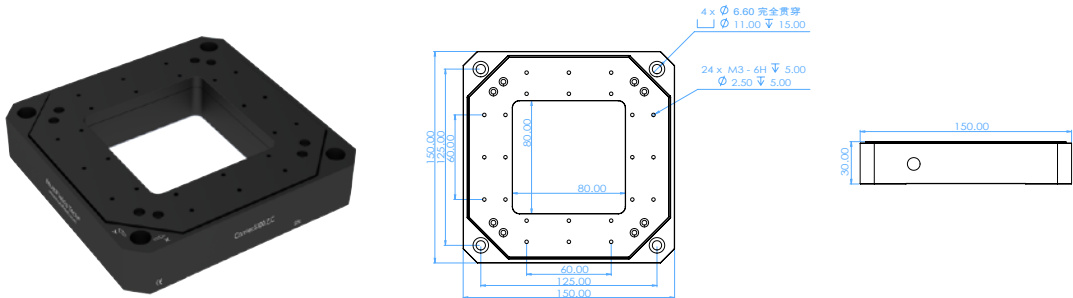
* Non-magnetic, Ultra High Vacuum Versions available

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

Versatile, High Performance, Clear Aperture, Z Motion

- ➔ Feature
- Piezo Stack Driving
 - Direct Metrology
 - Flexure Guiding
 - Sub-nanometer Resolution
 - CAP Sensor, Close-loop Control
 - Large Aperture

➔ Photo & Drawing



➔ Specification

		Carrier.S100.Z.C	Carrier.S200.Z.C
1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;	
2	Motion Direction	Z	
3	Footprint × Height	150 × 150 × 30 mm	
4	Material	Aluminum, Stainless Steel	
5	Travel Range (Close-loop)	100 μm	200 μm
6	Aperture	80 × 80 mm	
7	Linearity	0.03%	
8	Pitch / Yaw	50 μrad	±50 μrad
9	Roll	10 μrad	±10 μrad
10	Resolution (Close-loop / Open-loop)	1 nm / 0.3 nm	
11	Repeatability	10 nm	10 nm
12	Stiffness	2.5 N/μm	1.7 N/μm
13	Resonant Frequency (no load / 2.5 kg)	500 / 200 Hz	350 / 120 Hz
14	Max. Payload	5 kg	
15	Sensor Type	Capacitive	
16	Driving Voltage	Max. 150 V	
17	Working Temperature	15 ~ 40 °C	
18	Controller	MC-Archimedes.N	

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