

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

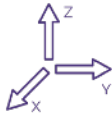
100 μm

2 Axes



Carrier.S100.XY.C

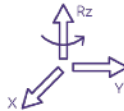
100 μm , 100 μm



Carrier.S100.XYZ.C

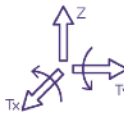
100 μm , 100 μm , 100 μm

3 Axes



Carrier.S100.XYRz.C

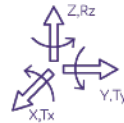
100 μm , 100 μm , ± 1 mrad



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

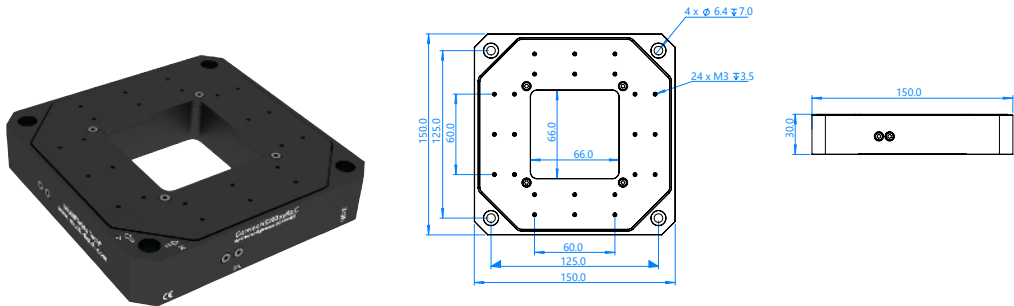
* Non-magnetic, Ultra High Vacuum Versions available

XYRz Piezo Scanner — Carrier.S100.XYRz.C

Versatile, High Performance, Clear Aperture, XY and Rz Motion

- ➔ Feature
- Piezo Stack Driving
 - Direct Metrology
 - Flexure Guiding
 - Nanometer Resolution
 - CAP Sensor, Close-loop Control

➔ Photo & Drawing



➔ Specification

Carrier.S100.XYRz.C

Carrier.S200.XYRz.C

1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;	
2	Motion Direction	X, Y, θ z	
3	Footprint x Height	150 x 150 x 30 mm	
4	Material	Aluminum, Stainless Steel	
5	Travel Range (X, Y, θ z)	100 μ m, 100 μ m, $\pm$ 1 mard	200 μ m, 200 μ m, $\pm$ 2 mard
6	Aperture	66 x 66 mm	
7	Linearity (Z)	0.03%	
8	Resolution (Close-loop/Open-loop)	1 nm / 0.3 nm	2 nm / 0.5 nm
9	Repeatability	10 nm	10 nm
10	Stiffness	2 N/ μ m	1 N/ μ m
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.