
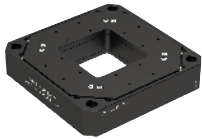
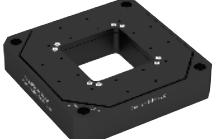
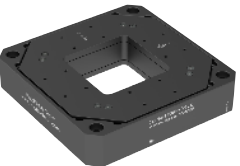
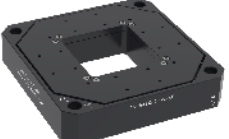


Sheet 3 -Piezo scanner with aperture, Carrier.(H)Sxx Series

	Single-axis X / Z	XY stage- XY	XYZ stage- XYZ	XYZ stage- ZTxTy	XYZ stage- XYRz	
Standard Carrier.S	Carrier.S150.Z.C	 Carrier.S200.xy.C, Carrier.S200.xyz.C		N/A	N/A	Standard Carrier.S
High load.High stability Carrier.HS	 Carrier.HS100.Z.C	 Carrier.HS100.XY.C	N/A	 Carrier.HS100.ZTxTy.C	 Carrier.HS100.XYRz.C	High load.High stability Carrier.HS

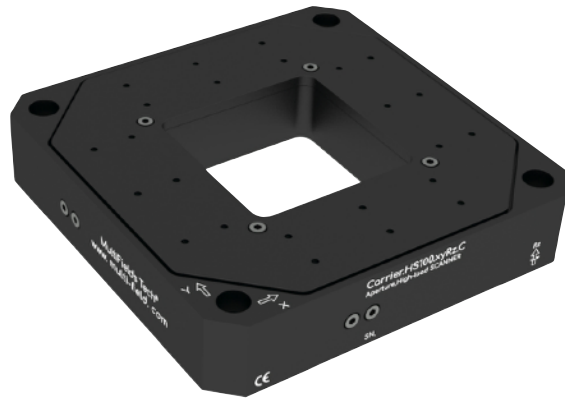
Piezoelectric Motion - RT

Piezoelectric Motion - RT

# Piezo scanning Motion·High load with aperture– Carrier.HS100.xyRz.C

RT-piezo scanning solution -High load with aperture“carrier.HS series”

High load · high speed, XYRz,3-axis.

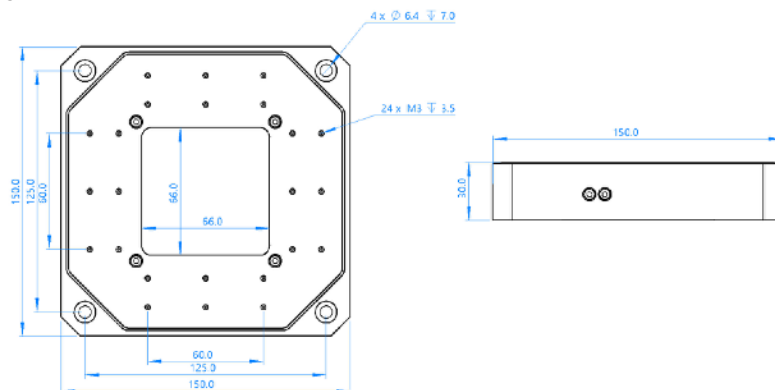


Carrier.HS100.xyRz.C

## Feature

- Travel range in XY: 100  $\mu\text{m}$ ,  $\theta_z$ : 1 mrad
- Close loop resolution < 1 nm;
- Max Load 3.5 kg;
- For microscopy-super resolution solutions.
- Non-magnetic (.NM) & ultra- high vacuum (.UHV) optional

## 2D·Drawings



## Carrier.S100.xyRz.C – Specification

Optional Versions ⇒		Standard
		.NM, non-magnetic; .UHV, ultra-high vacuum compatible;
1	Direction of movement	X, Y, $\theta_z$
2	Footprint, height	150 mm × 150 mm × 30 mm
3	Mainbody Materials	Aluminium alloy & Stainless
4	Travel Range	100 $\mu\text{m}$ x 100 $\mu\text{m}$ x 1 mrad
5	Effective through-hole size	66 mm × 66 mm
Motion and positioning sensor		
6	Linearity Error (Z direction)	0.035%
8	Resolution (close loop/open loop)	1 nm / 0.2 nm
9	Repeatability	± 10 nm
10	Rigidity	2 N/ $\mu\text{m}$
11	Resonance Frequency (unloaded/2.5 kg)	420 Hz/ 130 Hz
12	Max Load	3.5 kg
13	Integrated sensor(close loop)	Capacitive
14	Max Operating Voltage	Max. 150 V
Others		
15	Operating temperature range	15 ~40 °C
16	Weight	1 kg
17	Mount	suitable for Carrier.L7550.XY