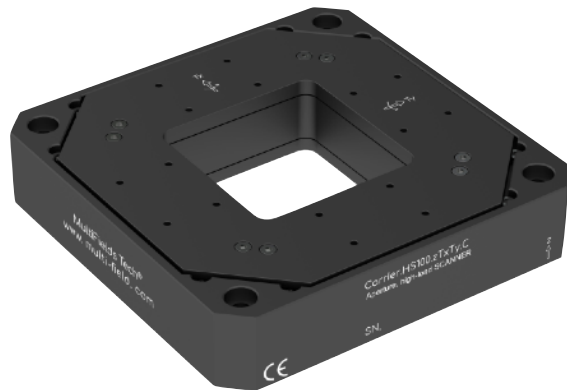


Piezo scanning Motion·High load with aperture– Carrier.HS100.zTxTy.C

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

High load-Z and tip/tilt stage with 3 axes.

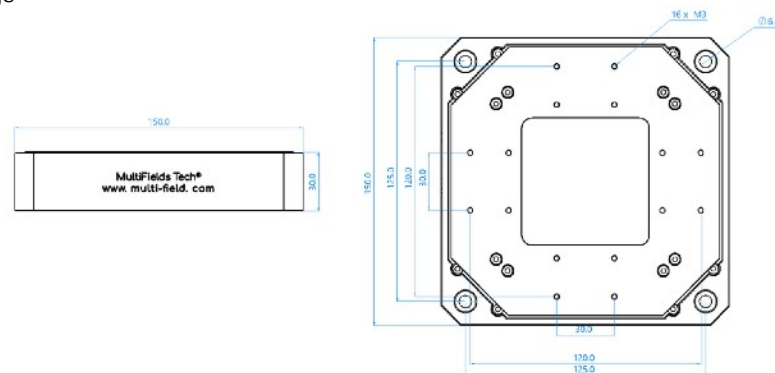


Carrier.HS100.zTxTy.C

Feature

- Z, θ_x & θ_y scanning motion;
- 100 μ m travel range, 1 mrad & 1 mard
- Close loop resolution < 1 nm;
- Max Load 5 kg;
- For microscopy-super resolution solutions.
- Non-magnetic (.NM) & ultra- high vacuum (.UHV) optional

2D-Drawings



Carrier.HS100.zTxTy.C – Specification

Optional Versions ⇄		Standard
.UHV, ultra-high vacuum compatible;		
Basic		
1	Direction of movement	Z, θ_x & θ_y
2	Footprint, height	150 mm × 150 mm × 30 mm
3	Mainbody Materials	Aluminium alloy & Stainless
4	Travel Range (Z, θ_x & θ_y)	100 μ m, 1 mrad & 1mrad
5	Effective through-hole size	66 mm × 66 mm
Motion and positioning sensor		
6	Linearity Error in Z	0.035%
7	Linearity Error in θ	0.15%
8	ZResolution (close loop/open loop)	1 nm / 0.5 nm
9	θ Resolution (close loop/open loop)	0.05 urad / 0.04 urad
10	Repeatability (Z & θ)	± 10 nm, ± 0.1urad
11	Rigidity	2 N/ μ m
12	ZResonance Frequency (unloaded/2.5 kg)	480 Hz/ 160 Hz
13	θ Resonance Frequency (unloaded/2.5 kg)	500 Hz/ 150 Hz
14	Max Load	2.5 kg
15	Integrated sensor(close loop)	Capacitive
16	Max Operating Voltage	Max. 150 V
Others		
17	Operating temperature range	15 ~40 °C
18	Weight	1 kg
19	Mount	suitable for Carrier.L7550.XY