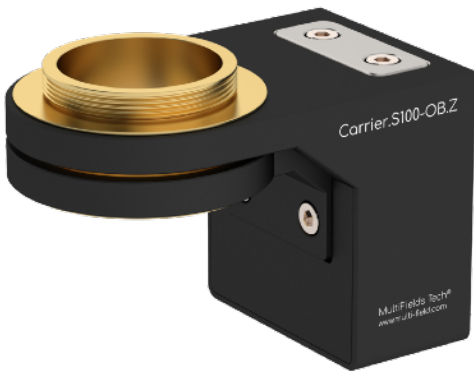


Piezoelectric · Large-range piezoelectric scanning – Carrier.S100-OB.Z

Piezoelectric motion@RT solutions – “.Carrier Series” Large Travel Scanning - Precision Optics, Semiconductor Characterization

Piezo-Linear Stage with compact shape and no compromise on power performance; while guaranteeing a premium price space.

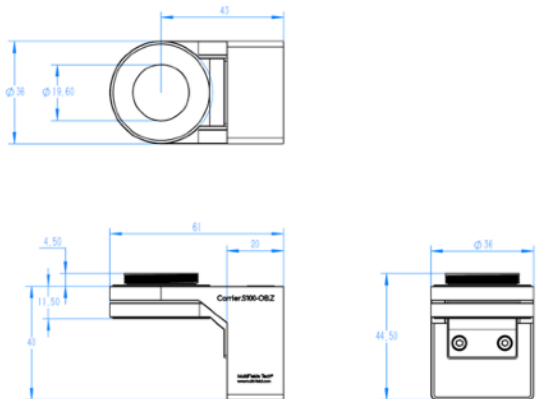


Carrier.S100-OB.Z

Product Features

- Z-directional motion range of 200 μm
- Fastest stabilization time (90% position stabilization) within 20ms
- Closed-loop positioning accuracy better than 1 nm
- Maximum load 500 g
- Controller compatible with **MultiFields®** Motion Controller - **Archimedes Series**
- Supports non-magnetic (.NM) and high vacuum (.UHV) option upgrades

2D - Dimensional drawing



Carrier.S100-OB.Z Objective autofocus scanning table – Specification

Optional Versions ⇄		Default
		.NM version, non-magnetic; .HV version, high vacuum; .UHV version, compatible with 2E-11 mbar
1	Orientation of movement	Z axis
2	Travel range	100 μm
3	Linearity	0.02%
4	Pitch / Yaw	30 μrad
5	Position encoder	Resistive Sensor
6	Sensor noise	0.3 nm
7	Z axis resolution, open-loop	0.1 nm
8	Stabilize time (90% Position)	15 ms
9	Rigidity	0.4 N/ μm
10	Resonant frequency (no load)	650 Hz
11	Resonant frequency (150g load)	275 Hz
12	Weight	270 g
13	Mainbody	Stainless steel 304, Aluminum alloy