

3 Piezo Scanner 39-48

3.1



Compact series

Compact Structure, Capacitive Sensor Feedback

41

3.1.1

S series, single axis, long travel range

S100.xyz.C, S100.z.C, S300.x.C...

43

3.1.2

SD series, high dynamic

SD15.x.C, SD30.x.C...

47

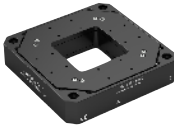
3.1.3

SH series, high load

SH30.xyz.C

48

3.2



Clear Aperture series

Versatile Stage, Multi Degrees of Freedom, Capacitive Sensor Feedback

49-64

3.2.1

Carrer.OB series, Objective Scanner

Carrier.OB100.C, Carrier.OB200.C, Carrier.OB400.C

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3.2.2

Carrier.S series

Carrier.S100, Carrier.S200, Carrier.S300

55

3.2.3

Carrer.SL series

Carrier.SL200

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3.3



Piezo Scanner Controller

63-64

Carrier.OB Series

Objective Focusing & Scanning

Travel Range up to 400 μm , High Dynamic optional, High Load above 10 kg available, Z and XY types

	Travel Range	Product Code
	100 μm	Carrier.OB100.C
	200 μm	Carrier.OB200.C
	400 μm	Carrier.OB400.C
	100 μm (High Load)	Carrier.OBHL100.C
	200 $\times$ 200 μm	Carrier.OB200.XY.C

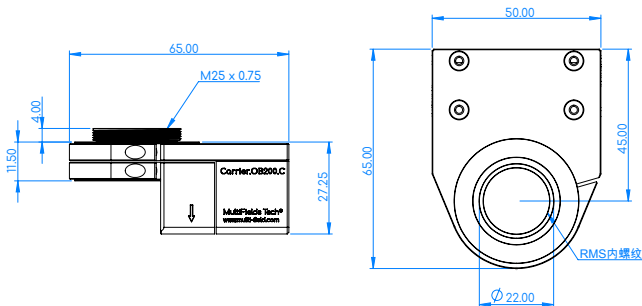
* Non-magnetic, Ultra High Vacuum Versions available

Objective Z Scanner — Carrier.OB.C

For Optical Microscopy

- ➔ Feature
- Piezo Stack Driving
 - Flexure Guiding
 - Sub-nanometer Resolution
 - CAP Sensor, Close-loop Control
 - Auto Focus Option

➔ Photo & Drawing



➔ Specification

	Carrier.OB100.C	Carrier.OB200.C	Carrier.OB400.C
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1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;		
2	Motion Direction	Z		
3	Travel Range	100 μm	200 μm	400 μm
4	Pitch/Yaw	±10 μrad	±20 μrad	±30 μrad
5	Linearity	0.03%		
6	Resolution (Open-loop)	0.2 nm	0.4 nm	0.8 nm
7	Resolution (Close-loop)	1 nm	3 nm	5 nm
8	Repeatability	10 nm		
9	Sensor Type	Capacitive		
10	Response Time	15 ms	19 ms	24 ms
11	Stiffness	0.5 N/μm	0.35 N/μm	0.25 N/μm
12	Resonant Frequency (no load)	600 Hz	480 Hz	380 Hz
13	Resonant Frequency (150 g)	250 Hz	220 Hz	165 Hz
14	Mass	270 g		350 g
15	Material	Stainless Steel, Aluminum		
16	Working Temperature	15 ~ 40 °C		
17	Controller	MC-Archimedes.N		

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

Carrier series combination for microscopy

Sample Position, Objective Focus, Photon Laser Scan



Piezo Motion · RT

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➔ Specification

1	Combination (top-down)	Carrier.OB400.C Carrier.SL200.XYZ.C Carrier.L1010s.XY
2	Motion Direction	XYZ
3	Coarse Travel Range	100 × 100 mm (XY, Carrier.L1010s.XY)
4	Fine Scanning Range	200 × 200 × 200 μm (XYZ, Carrier.SL200.XYZ.C)
5	Objective Focusing Range	400 μm (Z, Carrier.OB400.C)
6	Minimum Incremental Motion (Close-loop)	10 nm (XY, Carrier.L1010s.XY)
7	Fine Scanning Resolution (Close-loop)	2 nm (XYZ, Carrier.SL200.XYZ.C)

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