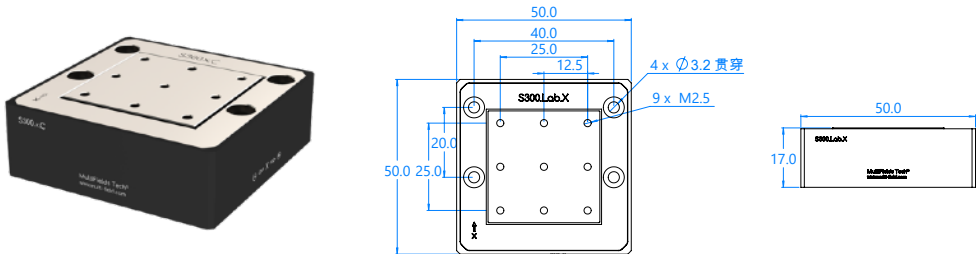


X Piezo Scanner— S100.X.C, S300.X.C & S500.X.C

Standard Single Axis Piezo Scanner Module

- ➔ Feature
- Piezo Stack Driving
 - Flexure Guiding
 - Sub-nanometer Resolution
 - Long Travel Range
 - CAP Sensor, Close-loop Control
 - Direct Metrology

➔ Photo & Drawing



➔ Specification		S100.X.C	S300.X.C	S500.X.C
1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;		
2	Motion Direction	X		
3	Footprint x Height	55 x 55 x 17 mm		70 x 70 x 17 mm
4	Material	Aluminum, Stainless Steel		
5	Travel Range (Open-loop)	120 μm	350 μm	600 μm
6	Travel Range (Close-loop)	100 μm	300 μm	500 μm
7	Resolution (Open-loop)	0.2 nm	0.5 nm	0.7 nm
8	Resolution (Close-loop)	0.5 nm	0.9 nm	1.5 nm
9	Linearity	0.03%		
10	Pitch/Yaw	±3 μrad / ±3 μrad	±3 μrad / ±3 μrad	±6 μrad / ±6 μrad
11	Resonant Frequency	700 Hz	370 Hz	200 Hz
12	Max. Pull Force	10 N		
13	Max. Payload (horizontal mounting)	500 g		
14	Sensor Type	Capacitive		
15	Driving Voltage	Max. 150 V		
16	Working Temperature	15 ~ 40 °C		
17	Mass	160 g	200 g	240 g
18	Controller	MC-Archimedes.N		

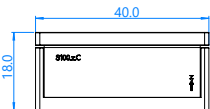
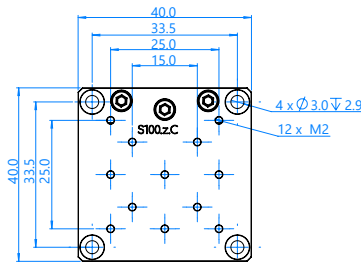
* For detail drawing and 3D model please contact us.

Z Piezo Scanner — S100.Z.C, S300.Z.C

Standard Single Axis Piezo Scanner Module, Vertical Motion

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

➔ Photo & Drawing



➔ Specification

		S100.Z.C	S300.Z.C
1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;	
2	Motion Direction	Z	
3	Footprint x Height	55 x 55 x 18 mm	
4	Material	Aluminum, Stainless Steel	
5	Travel Range (Open-loop)	120 μm	350 μm
6	Travel Range (Close-loop)	100 μm	300 μm
7	Resolution (Open-loop)	0.2 nm	0.5 nm
8	Resolution (Close-loop)	0.5 nm	1 nm
9	Pitch/Yaw	±100 μrad	±200 μrad
10	Linearity	0.03%	
11	Resonant Frequency (no load)	700 Hz	320 Hz
12	Stiffness	0.5 N/μm	0.25 N/μm
13	Max. Payload	500 g	
14	Sensor Type	Capacitive	
15	Driving Voltage	Max. 150 V	
16	Working Temperature	15 ~ 40 °C	
17	Mass	170 g	250 g
18	Controller	MC-Archimedes.N	

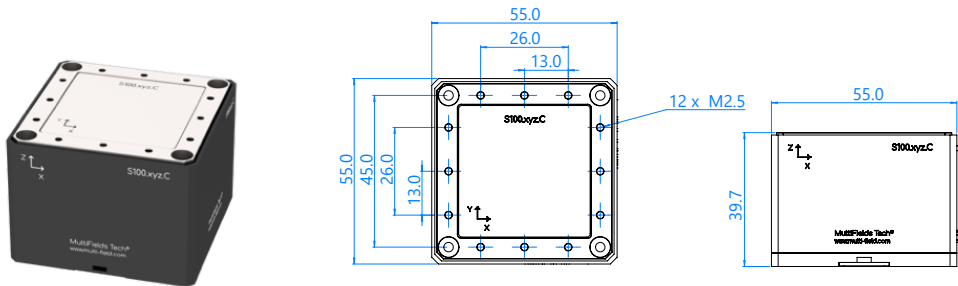
* For detail drawing and 3D model please contact us.

XY/XYZ Piezo Scanner — S100.XY/XYZ, S200.XY/XYZ

Compact XYZ Stack System

- Feature
- Piezo Stack Driving
 - Direct Metrology
 - Flexure Guiding
 - Sub-nanometer Resolution
 - CAP Sensor, Close-loop Control
 - Compact Serial Structure

➤ Photo & Drawing



➤ Specification

S100.XY.C

S200.XY.C

S100.XYZ.C

S200.XYZ.C

1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;			
2	Motion Direction	X, Y		X, Y, Z	
3	Footprint × Height	55 × 55 × 27 mm	55 × 55 × 30 mm	55 × 55 × 40 mm	55 × 55 × 45 mm
4	Material	Aluminum, Stainless Steel			
5	Travel Range (Open-loop)	120 × 120 μm	240 × 240 μm	120 × 120 × 120 μm	240 × 240 × 240 μm
6	Travel Range (Close-loop)	100 × 100 μm	200 × 200 μm	100 × 100 × 100 μm	200 × 200 × 200 μm
7	Resolution (Open-loop)	0.2 nm	0.4 nm	0.2 nm	0.4 nm
8	Resolution (Close-loop)	1 nm	1.5 nm	1 nm	1.5 nm
9	Linearity	0.03%			
10	Resonant Frequency (X/Y/Z no load)	400 / 350 / – Hz	300 / 250 / – Hz	400 / 350 / 300 Hz	300 / 250 / 200 Hz
11	Stiffness	0.5 N/μm	0.25 N/μm	0.5 N/μm	0.25 N/μm
12	Sensor Type	Capacitive			
13	Driving Voltage	Max. 150 V			
14	Working Temperature	15 ~ 40 °C			
15	Cable	D-Sub 3W3			
16	Controller	MC-Archimedes.N			

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

XYZ Piezo Scanner — S100.XYZ.C.P

Ultra Compact XYZ Stack System

➔ Feature

- Piezo Stack Driving
- Flexure Guiding
- CAP Sensor, Close-loop Control
- Direct Metrology
- Sub-nanometer Resolution
- Parallel Motion

➔ Photo & Drawing



➔ Specification

S100.XYZ.C.P

1	Optional	.NM, Non-magnetic; .HV, High Vacuum Version; .UHV, Ultra High Vacuum Version;
2	Motion Direction	X, Y, Z
3	Footprint × Height	40 × 40 × 40 mm
4	Material	Aluminum, Stainless Steel
5	Travel Range (Close-loop X/Y/Z)	100 × 100 × 100 μm
6	Linearity	0.03%
7	Resolution (Close-loop)	1 nm
8	Repeatability (X/Y/Z)	10 nm
9	Resonant Frequency (X/Y/Z no load)	700 / 700 / 700 Hz
10	Max. Payload	200g
11	Sensor Type	Capacitive
12	Driving Voltage	Max. 150 V
13	Working Temperature	15 ~ 40 °C
15	Cable	D-Sub 3W3
16	Controller	MC-Archimedes.N

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