
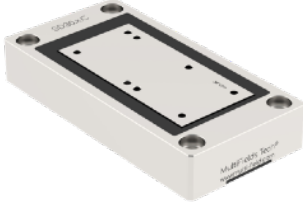


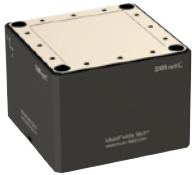
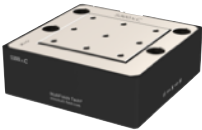


Sheet 2 - Piezo Scanner-compact "S, SD & SH" Sereis

	single-axis- X		single-axis- Z	XY stage- XY	XYZ stage- XYZ	
<p>< 50 um (Hight dynamic) "SD" Sereis (Dynamic)</p>	 SD15.x.C	 SD30.x.C	N/A	N/A	 SH30.xyz.C	<p>< 50 um (Hight dynamic) SD Series (Dynamic)</p>
<p>100 um "S" Sereis</p>	N/A		 S100.z.C	 S100.xy.C, S100.xyz.C		<p>100 um S scanning motion Series</p>
<p>300 um "S" Sereis</p>	 S300.x.C		N/A	N/A	N/A	<p>300 um S scanning motion Series</p>

Piezoelectric Motion - RT

Piezoelectric Motion - RT

List, Piezo scanner

RT-piezo motion module list

.S ~ Sas sensor

.C ~Capacitive sensor

.HV ~ 1e-7 mbar high-vacuum Version

.NM ~ non-magnetic Version

“S” Sereis-Standard Series, Single-axis

- S100.z.C
- S100.z.C.HV
- S100.z.S
- S100.z.S.HV
- S300.x.C
- S300.x.C.HV
- S300.x.S
- S300.x.S.HV

“S” Sereis-Standard Series, XY stage

- S100.xy.C
- S100.xy.C.HV
- S100.xy.S
- S100.xy.S.HV

“S” Sereis-Standard Series, XYZ stage

- S100.xyz.C
- S100.xyz.C.HV
- S100.xyz.S
- S100.xyz.S.HV

“SD” Sereis - High dynamic , single-axis

- SD15.x.C
- SD15.x.S

- SD15.x.C.HV
- SD15.x.S.HV
- SD30.x.C
- SD30.x.S
- SD30.x.C.HV
- SD30.x.S.HV

“SH” Sereis-High-load, XYZ stage

- SH30.xyz.C
- SH30.xyz.S
- SH30.xyz.0
- SH30.xyz.C.HV
- SH30.xyz.S.HV
- SH30.xyz.0.HV

“Carrier.S” Sereis - Stage with aperture-Standard

- Carrier.S100.Z.C
- Carrier.S100.XY.C

“Carrier.HS” Sereis- Stage with aperture-High-load

- Carrier.HS100.Z.C
- Carrier.HS100.ZTxTy.C
- Carrier.HS100.XY.C
- Carrier.HS100.XYRz.C

“Carrier.OB” Sereis-Stage with aperture

- Carrier.OB050.C
- Carrier.OB100.C
- Carrier.OB100.C.HL
- Carrier.OB200.C
- Carrier.OB400.C

- Carrier.OB050.S
- Carrier.OB100.S
- Carrier.OB100.S.HL
- Carrier.OB200.S
- Carrier.OB400.S

“Mirrors” Sereis -Tip/Tilt platform

- Mirrors.TxTy0303
- Mirrors.TxTy1010
- Mirrors.Z10TxTy0101

Total ~ Products

2D/3D Scanning Stage – S100.xyz.C

Linear Scanning Motion – Compact “S Series” Standard Solution

Compact XYZ scanner, capacitive sensor integrated.

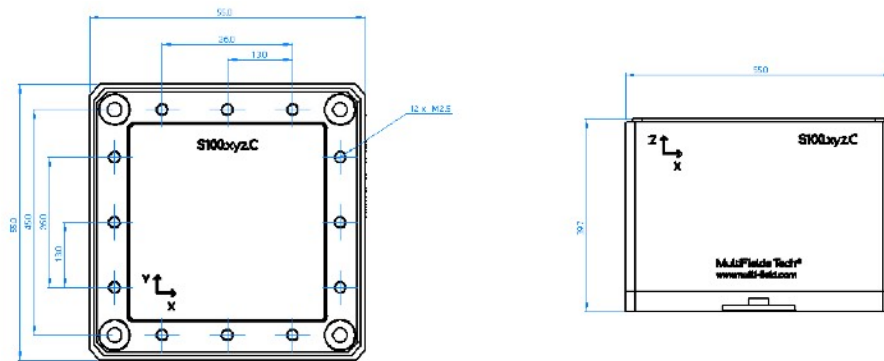


S100.xy.C
S100.xyz.C

Feature

- Travel range in X,Y,Z: 100 μm \times 100 μm \times 100 μm ;
- Size: 55 mm \times 55 mm \times 40 mm;
- Close loop resolution < 1 nm
- Non-magnetic (.NM) & ultra- high vacuum (.UHV) options

2D-Drawings



S100.XY / XYZ.C , 2D / 3D Scanning Stage

Optional Versions \Rightarrow	S100.XY / XYZ .C
	.NM, non-magnetic; .UHV, ultra-high vacuum compatible;
1 Active axes	S100.XY : X, Y direction S100.XYZ : X, Y, Z direction
2 Footprint, height	55 mm \times 55 mm \times 40 mm
3 Mainbody Materials	Aluminium alloy & Stainless
4 Travel Range	S100.xy.C : 100 μm \times 100 μm S100.xyz.C : 100 μm \times 100 μm \times 100 μm
Motion	
5 Resolution	0.2 nm(open loop)1 nm (close loop)
6 Linearity Error	0.1%
7 Resonance Frequency	X, Y : 400 Hz, 350Hz Z: 300 Hz
8 Rigidity	0.5 N/ μm
9 Integrated sensor(close loop)	Capacitive
10 Max Operating Voltage	150 V
Additional	
11 Operating temperature range	-20 ~ 80 $^{\circ}\text{C}$
12 Weight	500 g
13 Cable Length	1 m / D-Sub 3W3 Connectors