
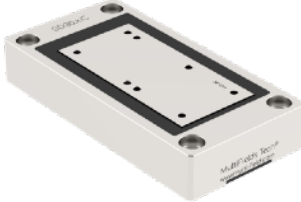


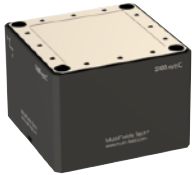
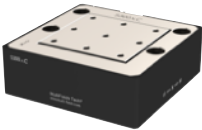


Sheet 2 - Piezo Scanner-compact "S, SD & SH" Series

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

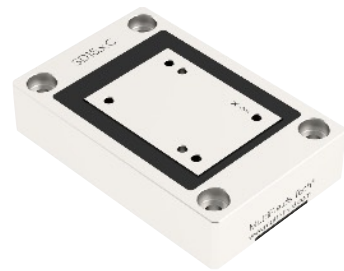
- Mirrors.TxTy0303
- Mirrors.TxTy1010
- Mirrors.Z10TxTy0101

Total ~ Products

High-speed scanning motion– SD15/30.X.C

RT-Piezo scanning motion solution– compact,high dynamic,“SD Series”

High speed, Capacitive sensor, High resolution



SD15.x.C

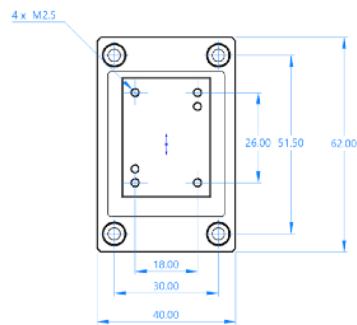


SD30.x.C

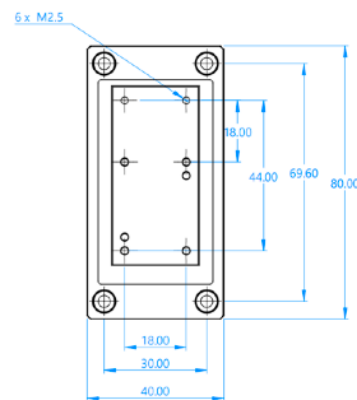
Feature

- Travel range in X: 15 um, 30 um;
- Size: 62 mm × 40 mm × 13.5 mm, 80 mm × 40 mm × 13.5 mm;
- Close loop resolution < 0.1nm;
- Capacitive sensor;
- High dynamic;
- Support Options:high vacuum (.HV) & ultra- high vacuum (.UHV)

2D:Drawings



SD15.x.C



SD30.x.C

SD15/30.x.C , Uniaxial piezoelectric · high-speed scanning motion

Optional Versions ⇄	SD15.x.C	SD30.x.C
.HV, high vacuum compatible; .UHV, ultra-high vacuum compatible;		
1 Active axes	X direction	
2 Footprint, high	62 mm × 40 mm × 13.5 mm	80 mm × 40 mm × 13.5 mm
3 Mainbody Materials	Aluminium alloy	
4 Travel Range	15 um (close loop)	30 um (close loop)
Motion		
5 Resolution	0.1 nm	0.2 nm
6 Repeatability	2 nm	4 nm
7 Linearity Error	0.035%	
8 Yaw	2 urad	
9 Pitch	2 urad	
10 Resonance Frequency	3.3 kHz	2.2 kHz
11 Resonance Frequency (300g)	1 kHz	0.625 kHz
12 Rigidity	28 N/um	18 N/um
13 Integrated sensor(close loop)	Capacitive	
Additional		
14 Operating temperature range	-20 ~ 80 °C	
15 Weight	250 g	350 g
16 Cable Length	1 m / D-Sub 3W3 Connectors	
17 Controller	Archimedes Series	