

SOM-MS-180150

With 123 mm on the X-axis and 103 mm on the Y-axis, the SOM-MS-180150 offers the largest travel ranges of all SmarAct microscope stages. Based on the compact SLC linear stages, the SOM-MS-180150 offers nanometer-level precision and highest closed-loop repeatability. The length of the stage is 286 mm, the width 216 mm and the height 30 mm. The weight of the stage is 2380 grams.

Compatibility with common manufacturers is ensured through adapters for standard inserts and a breadboard compatible baseplate. Both cover plates and the stages themselves are highly customizable.
Travel X: 123 mm Travel Y: 103 mm Dimensions: 286 x 216 x 30 mm

	Mechanical
Travel [mm]	123 (X); 103 (Y)
Blocking Force [N]	≥ 5.5
Max. Normal Force [N]	≥ 20
Dimensions [mm]	286 x 216 x 30
Weight [g]	2380
	Open-loop
Open-Loop Resolution [nm]	<1
	Closed-Loop
Velocity [mm/s]	> 8
Sensor Resolution MCS2 [nm]	1 (S) 4 (L)
Uni-Directional Repeatability MCS2 [nm]	±180 (S), ±360 (L)
Sensor Resolution (H)CU [nm]	100 (L)
Uni-Directional Repeatability (H)CU [nm]	±1000 (L)
	Options
Material Options	Aluminum base as standard; Black anodized (-BK)
Vacuum Options	HV (1E-6 mbar); UHV / UHVT (1E-11 mbar)
Non-Magnetic Option	Upon request
	Accessories

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Compatibility	SOM-AP-01,-02,-03,-04,-05

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