

SOM-MS-8070

SmarAct's SOM-MS-8070 microscope stage has been designed to offer a versatile combination of small footprint, large aperture and long travel in X and Y. Within the overall dimensions of 147 x 113 x 27 mm, an aperture of 104.5 x 71 mm has been realised to accommodate even large diameter objectives in inverted microscopy applications. Like all SmarAct microscope stages, the SOM-MS-8070 is based on SmarAct's high-precision SLC series linear stages, ensuring the highest repeatability and nanometer resolution.

The stage's top plate offers different hole patterns to accommodate a wide range of sample holder solutions, while the base plate is breadboard compatible. Cover plates, as well as the stages themselves, are highly customizable.
Travel X: 51 mm Travel Y: 46 mm Dimensions: 147 x 113 x 27 mm

	Mechanical
Travel [mm]	51 (X); 46 (Y)
Blocking Force [N]	≥ 5,5
Max. Normal Force [N]	≥ 20
Dimensions [mm]	147 x 113 x 27
Weight [g]	586
	Closed-Loop
Velocity [mm/s]	> 8
Sensor Resolution MCS2 [nm]	1 (S) 4 (L)
Uni-Directional Repeatability MCS2 [nm]	±80 (S), ±160 (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

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