

SOM-MS-5050

The SOM-MS-5050 is the smallest one of SmarAct's microscope stages. The X and Y-axis travel ranges are 31 mm each. The stage's dimensions are 113 mm in length, 113 mm in width and 31.15 mm in height. Since the SOM-MS-5050 is based on SmarAct's SLC series linear stages, it offers highest closed-loop repeatability and nanometer resolution. The specimen holder is designed for easy specimen changing and can accommodate slides 76 mm long and between 25 and 26 mm wide.

The base plate of the microscope stage is breadboard compatible. Cover plates as well as the stages themselves are highly customizable.
Travel X: 31 mm Travel Y: 31 mm Dimensions: 113 x 113 x 31,15 mm

	Mechanical
Travel [mm]	31 (X); 31 (Y)
Max. Normal Force [N]	≥ 20
Dimensions [mm]	113 x 113 x 31,15
Weight [g]	360
	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]	± 50 (S), ± 100 (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	Upon request
Non-Magnetic Option	Upon request

Generated Spec Sheet: 26.11.2026 -
Copyright © 2026 SmarAct GmbH • All Rights Reserved.
SmarAct GmbH | Schuette-Lanz-Strasse 9 | 26135 Oldenburg | Germany T: +49 441 – 800 879 0 | Email: info-de@smaract.com