



### SOM-MS-505020

The SOM-MS-505020 is the smallest one of SmarAct's microscope stages that offer vertical travel direction. The X and Y-axis travel ranges are 31 mm and 12 mm on the Z-axis. The stage's dimensions are 113 mm in length, 113 mm in width and 35 mm in height. Since the SOM-MS-505020 is based on SmarAct's SLC series linear stages, it offers highest closed-loop repeatability and nanometer resolution.

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 Travel Z: 12 mm  
Dimensions: 113 x 113 x 35 mm

	Mechanical
Travel [mm]	31 (X); 31 (Y); 12 (Z)
Max. Lift Force [N]	2
Dimensions [mm]	113 x 113 x 35
Weight [g]	388
	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