



### SOM-808030

The SOM-808030 is the only one of SmarAct's microscope stages that offers vertical travel direction. The X and Y-axis travel ranges are 51 mm and 16 mm on the Z-axis. The stage's dimensions are 138 mm in length and width and 56 mm in height. Since the SOM-808030 is based on SmarAct's SLC series linear stages, it offers highest closed-loop repeatability and nanometer resolution.

Compatibility with common manufacturers is ensured by adapters for standard inserts. The base plate of the microscope stage is breadboard compatible. Cover plates as well as the stages themselves are highly customizable.

Travel X: 51 mm Travel Y: 51 mm Travel Z: 16 mm  
Dimensions: 138x 138 x 56 mm

	Mechanical
Travel [mm]	51 (X); 51 (Y); 16 (Z)
Blocking Force [N]	≥ 3.5/ ≥ 5.5
Dimensions [mm]	138x 138 x 56
Weight [g]	700
	Open-loop
Velocity [mm/s]	> 8
Open-Loop Resolution [nm]	<1
	Closed-Loop
Closed-Loop Resolution MCS2 [nm]	1 (S) 4 (L)
Closed-Loop Repeatability, Full Stroke MCS2 [nm]	±80 (S), ±160 (L)
Closed-Loop Resolution (H)CU [nm]	50 (L)
Closed-Loop Repeatability, Full Stroke (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