



### SOM-8080

The SOM-8080 is SmarAct's most compact microscope stage and offers travel ranges of 51 mm in the X and Y axes. The stage dimensions are 138 mm in length and width and 23 mm in height. Like all SmarAct microscope stages, the SOM-8080 is based on SmarAct's high-precision SLC series linear stages and therefore offers the highest repeatability and nanometer resolution.

The microscope stage's base plate is breabboard compatible. Adapters for standard inserts ensure compatibility with common manufacturers. Cover plates as well as the stages themselves are highly customizable.

Travel X: 51 mm Travel Y: 51 mm Dimensions: 138x 138 x 23 mm

	Mechanical
Travel [mm]	51 (X); 51 (Y)
Blocking Force [N]	≥ 3.5/ ≥ 5.5
Max. Normal Force [N]	20
Dimensions [mm]	138x 138 x 23
	Open-loop
Velocity [mm/s]	> 8
Open-Loop Resolution [nm]	<1
	Closed-Loop
Sensor Resolution MCS2 [nm]	1 (S) 4 (L)
Uni-Directional Repeatability MCS2 [nm]	±80 (S), ±160 (L)
Sensor Resolution (H)CU [nm]	50 (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)