

## SOM-MS-12090

At 226 mm long, 176 mm wide and 30 mm high, the SOM-MS-12090 is SmarAct's second largest microscope stage. The stage offers a travel range of 83 mm on the X-axis and 63 mm on the Y-axis. It is based on SmarAct's compact SLC linear stages, which offer nanometer-level precision and the highest closed-loop repeatability.

A breadboard compatible baseplate and adapters for standard inserts ensure compatibility with common manufacturers. Cover plates and the stages themselves are highly customizable.
Travel X: 83 mm Travel Y: 63 mm Dimensions: 226 x 176 x 30 mm

| | Mechanical |
|---|---|
| Travel [mm] | 83 (X); 63 (Y) |
| Blocking Force [N] | ≥ 5.5 |
| Max. Normal Force [N] | ≥ 20 |
| Dimensions [mm] | 226 x 176 x 30 |
| Weight [g] | 1390 |
| | **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] | ±120 (S), ±240 (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 |
| | **Accessories** |
| Compatibility | SOM-AP-01,-02,-03,-04,-05 |


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