

SOM-MS-180150M – Electromagnetic Microscope Stage

The **SMAR**SHIFT SOM-MS-180150M microscope stage with electromagnetic direct drives offers 121 mm on the X-axis and 101 mm on the Y-axis. It provides enough travel range to enable working with sample holders such as multiwell plates, petri dishes or glass slides. Based on the technology of our MLS electromagnetic direct-drives, the SOM-MS-180150M offers nanometer-level precision and highest closed-loop repeatability. The stage has a length of 300 mm, a width 230 mm, and a height of 35 mm. Despite its compact size the stage is designed for inverted microscopes.

The SOM-MS-180150M has been designed in a modular way so that it can be easily adapted to customer-specific requirements (e.g. more compact size, different travel ranges).

All **SMAR**SHIFT products are suitable for use in ambient conditions and inert gas environments, including as helium and nitrogen. Cleanroom options are available.
Travel X: 121 mm Travel Y: 101 mm Dimensions: 300 x 230 x 35 mm

	Mechanical
Travel [mm]	121 (lower axis); 101 (upper axis)
Continuous Force [N]	8
Peak Force [N]	25;
Max. Normal Force [N]	50
Dimensions [mm]	300 × 230 × 35
Weight [g]	4700
	Closed-Loop
Velocity [mm/s]	300
Sensor Resolution MCS2 [nm]	1 (SC)
In-Position Stability [nm]	±5
Uni-Directional Repeatability MCS2 [nm]	±120 (lower axis); ±60 (upper axis)
	Options
Material Options	Aluminum base as standard; Black anodized (-BK)

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SmarAct GmbH | Schuette-Lanz-Strasse 9 | 26135 Oldenburg | Germany T: +49 441 – 800 879 0 | Email: info-de@smaract.com

	Accessories
Compatibility	SOM-AP-01,-02,-03,-04,-05

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SmarAct GmbH | Schuette-Lanz-Strasse 9 | 26135 Oldenburg | Germany T: +49 441 – 800 879 0 | Email: info-de@smaract.com