

SLC-2475-F - Closed-Loop Cryogenic Stage

The SLC-2475-F is the largest positioning stage among SmarAct's Closed-Loop Cryogenic Stages. It offers the longest travel range of 49 mm. With this feature, it becomes the ideal solution for positioning tasks over long distances in cryogenic applications. With its unmatched positioning performance under cryogenic conditions, it is ideally suited for low-temperature quantum applications.

Please feel free to contact us for more information at +49 441 – 800 87 90 or via email at info@smaract.com.
Travel range: 49 mm Length: 75 mm Closed-loop resolution: 0.5 nm

	Mechanical
Travel [mm]	49
Scan Range [µm]	~ 1 @ 4 K; 5 @ 300 K
Blocking Force [N]	≥ 2
Max. Normal Force [N]	30
Max. Lift Force [N]	≥ 1
Dimensions [mm]	75 x 28 x 14
Weight [g]	137.5 g
	Closed-Loop
Velocity [mm/s]	> 1 @ 4 K; > 20 @ 300 K
Open-Loop Resolution [nm]	< 0.5
Uni-Directional Repeatability MCS2 [nm]	± 25
Uni-Directional Repeatability, 1 mm Travel MCS2 [nm]	5
	Options
Vacuum Options	UHV (1E-11 mbar)
Non-Magnetic Option	Yes (-NM)

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