

SLC-2445 - Linear Piezo Stage

The SLC-2445 offers a travel range of 29 mm and a normal force of 30 N with dimensions of 45 x 24 x 10.5 mm.

Please note that the downloadable documents for this linear piezo stage show the dimensions and specifications of an SLC-2445 for atmospheric or HV environments, equipped with an S-position sensor. For technical drawings and detailed specifications of other variants, such as UHV compatible stages, stages with higher blocking force or other sensor options, please feel free to contact us at any time.

A high-performance closed-loop cryogenic variant is also available.
Travel range: 29 mm Length: 45 mm Weight: 54 g

	Mechanical
Scan Range [µm]	> 1.3
Travel [mm]	29
Blocking Force [N]	≥ 3.5
Max. Normal Force [N]	30
Max. Lift Force [N]	1.5
Dimensions [mm]	45 x 24 x 10.5
Weight [g]	54
	Open-loop
Velocity [mm/s]	> 20
Open-Loop Resolution MCS2 [nm]	< 1
Open-Loop Resolution (H)CU [nm]	< 50
	Closed-Loop
Sensor Resolution MCS2 [nm]	1 (S), 4 (L)
Sensor Resolution (H)CU [nm]	100 (L)
Uni-Directional Repeatability MCS2 [nm]	± 40 (S,L)
Uni-Directional Repeatability (H)CU [nm]	± 200 (L)

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	Options
Material Options	Aluminum base as standard; Steel base (-ST); Titanium base (-TI); Black anodized (-BK)
Mechanical Options	U-shaped base for higher mechanical strength (-W): width is 6 mm larger; cage-creep-free guideways (-Z)
Performance Options	Higher blocking force (-D): +1.5 N
Cryogenic Option	Yes
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)
Non-Magnetic Option	Yes. Changes of the slide hole pattern apply: all threaded holes

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