

SLC-1780 - Linear Piezo Stage

At 51 mm, the SLC-1780 offers the longest travel range within the SLC-17 series. With dimensions of 80 x 17 x 8.5 mm, it remains comparatively compact and provides a normal force of 30.

Please note that the downloadable documents for this linear piezo stage show the dimensions and specifications of an SLC-1780 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 contact our sales team.
Travel range: 51 mm Length: 80 mm Weight: 51 g

	Mechanical
Scan Range [µm]	> 1.3
Travel [mm]	51
Blocking Force [N]	≥ 3.5
Max. Normal Force [N]	30
Max. Lift Force [N]	> 1.5
Dimensions [mm]	80 x 17 x 8.5
Weight [g]	51
	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]	50 (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 (only open-loop)
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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