



SLC-1720 - Linear Piezo Stage

The SLC-1720 is SmarAct's smallest nanometer precision linear stages of the SLC-17 Series.

Please note that the downloadable documents for this linear piezo stage display dimensions and specifications of a 1720 for atmospheric or HV environments equipped with an S position sensor. For technical drawings and detailed specifications of other variants, like UHV compatible stages or stages with higher blocking force or different sensor options, please consult our sales team.

With a travel range of 12 mm and a max. normal load of 10 N the SLC-1720 masters all positioning demands.

	Mechanical
Travel [mm]	12
Blocking Force [N]	≥ 3.5
Max. Normal Force [N]	10
Max. Lift Force [N]	> 1.5
Dimensions [mm]	22 x 17 x 8.5
Weight [g]	13
	Open-loop
Velocity [mm/s]	> 20
Resolution [nm]	< 1
	Closed-Loop
Closed-Loop Resolution MCS2 [nm]	1 (S), 4 (L)
Closed-Loop Repeatability, Full Stroke MCS2 [nm]	± 25 (S), ± 50 (L)
Closed-Loop Resolution (H)CU [nm]	50 (L)
Closed-Loop Repeatability, Full Stroke (H)CU [nm]	± 1000 (L)
	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) increases width to 23 mm; increased lifetime (-Z)
Performance Options	Higher blocking force (-D): +1.5 N

Cryogenic Option	Yes (only open-loop)
Vacuum Options	HV (1E-6 mbar); UHV / UHVT (1E-11 mbar)
Non-Magnetic Option	Yes, changes of the slide hole pattern apply: all threaded holes