



### SLC-1780 - Linear Piezo Stage

SmarAct's longest nanometer precision linear positioner of the SLC-17 Series with the dimensions of 80 x 17 x 8.5 mm<sup>3</sup> is the most stable of our linear positioners with a travel range of 51 mm.

	Mechanical
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
Resolution [nm]	< 1
	Closed-Loop
Closed-Loop Resolution MCS2 [nm]	1 (S), 4 (L)
Closed-Loop Repeatability, Full Stroke MCS2 [nm]	±80 (S), ±160 (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