



SLC-1750 - Linear Piezo Stage

The SLC-1750 offers a travel range of 31 mm and a normal force of 30 N with dimensions of 50 x 17 x 8.5 mm.

Please note that the downloadable documents for this linear piezo stage show the dimensions and specifications of an SLC-1750 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 us](#) at any time.

Travel range: 31 mm Length: 50 mm Weight: 32 g

| | Mechanical |
|--|----------------|
| Scan Range [μm] | > 1.3 |
| Travel [mm] | 31 |
| Blocking Force [N] | ≥ 3.5 |
| Max. Normal Force [N] | 30 |
| Max. Lift Force [N] | > 1.5 |
| Dimensions [mm] | 50 x 17 x 8.5 |
| Weight [g] | 32 |
| | 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) |
| | 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, travel restricted to 31 mm) |
| Vacuum Options | HV (1E-6 mbar); UHV (1E-11 mbar) |
| Non-Magnetic Option | Yes, changes of the slide hole pattern apply: all threaded holes |