



SLC-24180 - Linear Piezo Stage

The SLC-24180 provides the longest travel range within the SLC-24 series at 123 mm. It measures 180 x 24 x 10.5 mm and offers a normal force of 30 N.

Please note that the downloadable documents for this linear piezo stage show the dimensions and specifications of an SLC-24180 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.

Travel range: 123 mm Length: 180 mm Weight: 216 g

| | Mechanical |
|--|-----------------|
| Scan Range [μm] | > 1.3 |
| Travel [mm] | 123 |
| Blocking Force [N] | ≥ 3.5 |
| Max. Normal Force [N] | 30 |
| Max. Lift Force [N] | 1.5 |
| Dimensions [mm] | 180 x 24 x 10.5 |
| Weight [g] | 216 |
| | 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 | -- |
| Vacuum Options | HV (1E-6 mbar); UHV (1E-11 mbar) |
| Non-Magnetic Option | Yes. Changes of the slide hole pattern apply: all threaded holes |