

## 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** |


Copyright © 2026 SmarAct GmbH • All Rights Reserved.
**SmarAct GmbH** | Schuette-Lanz-Strasse 9 | 26135 Oldenburg | Germany T: +49 441 – 800 879 0 | Email: info-de@smaract.com

| | |
|---|---|
| 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 |


Copyright © 2026 SmarAct GmbH • All Rights Reserved.
**SmarAct GmbH** | Schuette-Lanz-Strasse 9 | 26135 Oldenburg | Germany T: +49 441 – 800 879 0 | Email: info-de@smaract.com