



### SLC-2430 - Linear Piezo Stage

With dimensions of 30 x 24 x 10.5 mm the SLC-2430 offers a travel range of 16 mm and 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-2430 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.

A high-performance [closed-loop cryogenic variant](#) is also available.

Travel range: 16 mm Length: 30 mm Weight: 36 g

|   | Mechanical     |
|---|----------------|
| Scan Range [μm]                         | > 1.3          |
| Travel [mm]                             | 16             |
| Blocking Force [N]                      | ≥ 3.5          |
| Max. Normal Force [N]                   | 30             |
| Max. Lift Force [N]                     | 1.5            |
| Dimensions [mm]                         | 30 x 24 x 10.5 |
| Weight [g]                              | 36             |
|   | 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<br>(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   |
| Vacuum Options                              | HV (1E-6 mbar); UHV (1E-11 mbar)  |
| Non-Magnetic Option                         | Yes. Changes of the slide hole pattern apply: all threaded holes  |