

## 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 (H)CU [nm] | ± 200 (L) |


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| | 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 |


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