



CLS-3282 - Linear Stage with EDU

Linear stages of the CLS series were consistently designed for high availability applications in science and industry. They are equipped with [SmarActs exchangeable drive units](#) which guarantees easy access to the stage's core component, the piezo-drive. That makes servicing a very simple task. The drive unit can be exchanged without removing the complete device from the surrounding positioning setup. Additionally, their mounting hole pattern is perfectly matched to mount our [rotation stages](#) and [goniometers](#). The longest stage of the CLS-32 series offers a travel range of 51 mm while maintaining a footprint of only 32 x 82 mm. It is able to handle payloads of up to 30 N.

| | Mechanical |
|--|--|
| Travel [mm] | 51 |
| Blocking Force [N] | ≥ 3.5 |
| Max. Normal Force [N] | 30 |
| Max. Lift Force [N] | > 1.5 |
| Dimensions [mm] | 32 x 82 x 11 |
| Weight [g] | 87 |
| | Open-loop |
| Velocity [mm/s] | > 20 |
| Open-Loop Resolution [nm] | < 1 |
| Open-Loop Resolution (H)CU [nm] | < 50 |
| | Closed-Loop |
| Sensor Resolution MCS2 [nm] | 1 (S), 4 (L) |
| Sensor Resolution (H)CU [nm] | 50 (L) |
| Uni-Directional Repeatability MCS2 [nm] | ± 40 (S,L) |
| Uni-Directional Repeatability (H)CU [nm] | ± 200 (L) |
| | Options |
| Material Options | Aluminum base as standard; Titanium base (-TI) |
| Performance Options | Higher blocking force (-D): +1.5 N |
| Vacuum Options | HV (1E-6 mbar); UHV / UHVT (1E-11 mbar) |
| Non-Magnetic Option | Yes |