

## CHS-9257 - High Load Stage

This long travel high load stage is equipped with SmarAct's exchangeable drive unit, which allows the complete piezo drive to be removed from the stage when required for servicing. Since the drive unit is accessible from the stage's side, the device does not need to be removed from the positioning setup during servicing. The mechanical design is based on an actuated wedge which guarantees highest resolution of the stages' motion. A separate guideway assures a straight movement along the load direction and allows an integration of a position sensor for direct position feedback and closed-loop operation. The mountinghole pattern supports an easy screwing to the linear stages of the CLS92-Series. Optionally, the maximum lift force can be increased upon request. A high load stage equipped with a long vertical travel range of 20 mm that handles payloads of up to 15 N

| | Mechanical |
|---|---|
| Travel [mm] | 20 |
| Max. Lift Force [N] | 15 |
| Dimensions [mm] | 92 x 92 x 57 |
| Weight [g] | 935 |
| | **Open-loop** |
| Velocity [mm/s] | > 2 |
| | **Closed-Loop** |
| Sensor Resolution MCS2 [nm] | 1 (S), 4 (L) |
| Uni-Directional Repeatability MCS2 [nm] | ± 40 (S,L) |
| Sensor Resolution (H)CU [nm] | 100 (L) |
| Uni-Directional Repeatability (H)CU [nm] | ± 200 (S,L) |
| | **Options** |
| Material Options | Aluminum base as standard; steel base (-ST); titanium base (-TI); black anodized (-BK) |
| Vacuum Options | HV (1E-6 mbar); UHV (1E-11 mbar) |


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