

CHS-3232 - High Load Stage

The CHS-3232 is SmarAct's most compact high load stage. Due to it's mounting hole pattern, it can be mounted directly to the linear stages of the CLS32 series and the SR-3211 rotation stage. In case of service, the complete exchangeable drive unit can be removed from the stage while the device remains in the positioning setup. The exchangeable drive unit is easy to access from the side of the stage. Straight movement along the load direction is assured by a separate guideway. The integration of a position sensor provides direct feedback and closed-loop operation. Highest motion resolution is guaranteed by the mechanical design which is based on an actuated wedge. The CHS-3232 is suitable for high availability applications in science and industry. The stages can be equipped with an additional constant force spring to handle payloads of 5 N or more.

A very compact high load stage equipped with an exchangeable drive unit, offering a vertical travel range of 5 mm and the capability to handle payloads of up to 5 N.

	Mechanical
Degrees of Freedom	1
Travel [mm]	5
Max. Lift Force [N]	5
Dimensions [mm]	32 x 32 x 32
Weight [g]	100
	Open-loop
Velocity [mm/s]	> 5
	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

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Material Options	Aluminum as standard; Steel base (-ST); Titanium base (-TI); Black anodized (-BK)
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)

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