



CLS-5252 - 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 smallest one of the CLS-52 linear stages offers a footprint of 52 x 52 mm, a travel range of 31 mm and an aperture of 9 mm in diameter. Furthermore, it is able to handle payloads of up to 20 N.

	Mechanical
Travel [mm]	31
Blocking Force [N]	≥ 3.5
Max. Normal Force [N]	20
Max. Lift Force [N]	> 1.0
Dimensions [mm]	52 x 52 x 14
Weight [g]	94
	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)
	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 (1E-11 mbar)
Non-Magnetic Option	Yes