



CLL12 - Large Travel Piezo Stage

Linear stages of the CLL12 Series are based on recirculating ball slides. The slide or carriages in combination with rails of different length make it an optimal solution either for precise long range positioning or large travel ranges within limited space. CLL12 stages can be operated by any of our control systems. It is also possible to put multiple carriages on the same rail and move them independently to create fully motorized optical bench setups. The CLL42 is 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. Shown above is a closed-loop CLL-12 stage with a 245 mm rail. It features 160 mm of travel and an exchangeable drive unit.

	Mechanical
Travel [mm]	35 ... 460 with -L Sensor, max. 140 with -S Sensor
Blocking Force [N]	≥ 3
Max. Normal Force [N]	30
Max. Lift Force [N]	1
Dimensions [mm]	28 x 85 x 17 (carriage)
Weight [g]	Length-dependent
	Open-loop
Velocity [mm/s]	> 10
Open-Loop Resolution [nm]	< 1
	Closed-Loop
Sensor Resolution MCS2 [nm]	1 (S), 4 (L)
	Options
Material Options	Multiple carriages; Counterbores; Tapped holes (M4)
Vacuum Options	HV (1E-6 mbar); UHV / UHVT (1E-11 mbar)