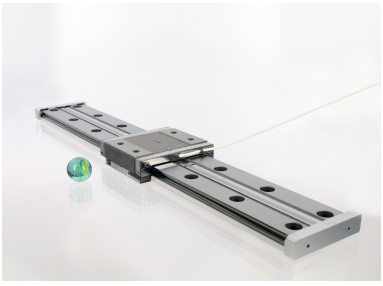

CLL42 - Large Travel Piezo Stage

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. It is also available in a high vacuum version. The standard versions offer travels of 97, 177, 257, 377, 497 and 617 mm. Special lengths are of course available on request. The CLL42 offers a large platform to mount the payload and features long travel ranges as well as exchangeable drive units.

	Mechanical
Travel [mm]	99 ... 619
Rail Length [mm]	160 ... 680
Blocking Force [N]	≥ 5
Max. Normal Force [N]	30
Dimensions [mm]	60 x 16 (open-loop carriage)
Weight [g]	Length-dependent
	Open-loop
Velocity [mm/s]	> 10
Open-Loop Resolution MCS2 [nm]	< 1
Open-Loop Resolution (H)CU [nm]	50
	Closed-Loop
Sensor Resolution MCS2 [nm]	1 (S), 4 (L)
Uni-Directional Repeatability MCS2 [nm]	± 100 (S)
	Options
Material Options	Multiple carriages; Counterbores; Tapped holes (M4)
Mechanical Options	Multiple carriages; Counterbores; Tapped holes (M4)
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)

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