

SGP-17F - Micro-Gripper

SmarAct's SGP-17F micro-gripper is the perfect solution when it comes to applications in the field of optoelectronics such as active alignment of optics and sub-components or the parallel gripping with a constant force. Due to the integrated force sensors, it doubles as a sensitive force detection system that can be used in a variety of applications like the monitoring of UV-curing processes. The micro-gripper is equipped with one biaxial load cell per jaw, allowing to measure gripping force and orthogonal contact force individually. Gripping force orientation is constant and jaw movement is fully parallel over the whole gripping range. The jaws itself can be easily exchanged, adapted or fully customized to address the requirements of specific applications. SmarAct's SGP-17F micro-gripper is the perfect solution when it comes to applications like the active alignment of optics or sub-components or the parallel gripping of delicate objects with a constant force.

	Mechanical
Opening [mm]	< 20.5
Gripping Force [N]	3.5
Dimensions [mm]	30 x 35 x 14
Weight [g]	40
Jaw Types	-
	Closed-Loop
Sensor Types	S, L
Gripping Time [ms]	< 10
Gripping Resolution [nm]	< 10
	Options
Material Options	Aluminum as standard; Black anodized (-BK)
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)

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