

STT-25.4 - Tip-Tilt-Mirror Mount

The motorized mirror mount STT-25.4 can be seen as the motorized counterpart of a classical kinematic mount for mirrors, lenses or other optical components. It can be equipped with position sensors allowing to monitor and control the alignment process of the optical component in closed-loop. Due to their overall compactness the position sensors are mounted outside the housing slightly enlarging the outer dimensions. For special applications the mount is also available in a clear edge design with an open frame structure for mounting of the optical components. The STT-25.4 is suitable for 1 inch mirrors or optical components.

	Mechanical
Dimensions [mm]	36 x 36 x 12
Weight [g]	25
Mirror Diameter [inch]	1
Tip Angles [°]	±2.5; ± 2.15 (I)
Tilt Angles [°]	± 2.5; ± 2.15 (I)
	Open-loop
Angular Velocity [°/s]	15
Open-Loop Resolution [µ°]	< 5 (MCS2)
	Closed-Loop
Sensor Resolution MCS2 [µ°]	80 (I)
Sensor Resolution (H)CU [µ°]	100 (I)
Uni-Directional Repeatability [µ°]	± 1000 (I)
Uni-Directional Repeatability MCS2 [µ°]	± 300 (I)
	Options
Material Options	Aluminum as standard: Titanium base (-TI) and others on request
Mechanical Options	Clear Edge (-CE)
Vacuum Options	HV (1E-6 mbar); UHV (1E-11 mbar)
Non-Magnetic Option	Yes (-NM)

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