MT 25 Kinematical Mirror Tilting Stage with piezo electric inertial drive

Technical Data

Angular adjustment:	6 deg (± 3 deg) in two orthogonal axes
Max. speed:	25 mrad/s (depends on controller)
Optical height:	11.5 mm (on rod) 12.5 mm (in plate)
Mirror mount:	dia. 12.7 mm (1/2 inch)
Free opening:	dia. 9 mm
Mass:	46 g
Max mass of mirror:	100 g

Resolution (calculated)	
Single step	~ 14 µrad
1/16 step (with controller CU 30)	~ 1 µrad
1/64-step (with controller CF 30)	~ 0.3 µrad
Half step	~ 7 µrad
Double step (with controller CN 30)	~ 28 µrad

Specifications

- Piezo driven step motor with low hysteresis
- holds reached position without current
- optical height 11.5 mm (on rod)
- angular adjustment 6 deg (± 3 deg) in two axes
- for mirror with dia. 12.7 mm
  (with mirror adapter also for larger mirrors)
- free opening of 9 mm
- solid state hinges
- step width about 0.3 µrad with CF 30
- velocity up to 25 mrad/s (> 1 deg/s)
- also usable as prism stage
- no limit switches necessary
- vacuum preparation optionally
- customized designs possible
- driven by hand-held (CN.030.0001)
  or USB controller (CU.030.xx0x)
  or USB controller (CF.030.xx0x)

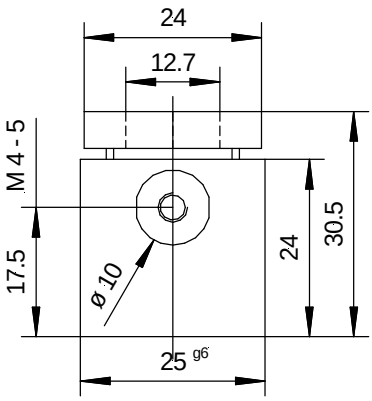
Application Examples

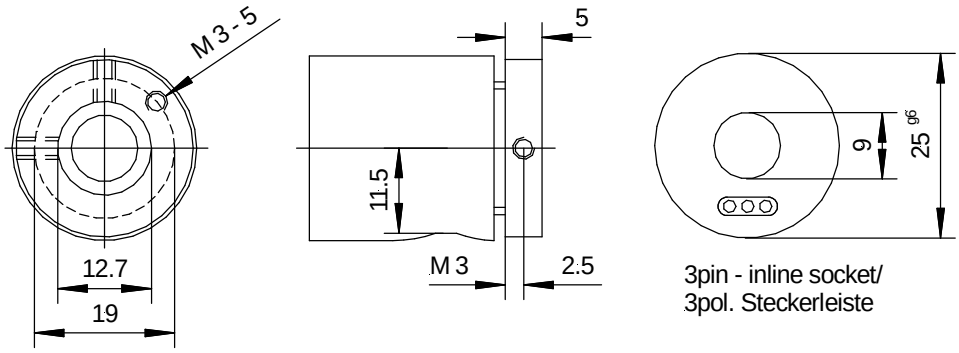
- Micro-/Nano Technology
- Bio Technology
- Microscopy
- Telecommunication
- Metrology
- R & D

Mirror Tilting Stage MT 25 **Part no.** **MT.025.0 0**

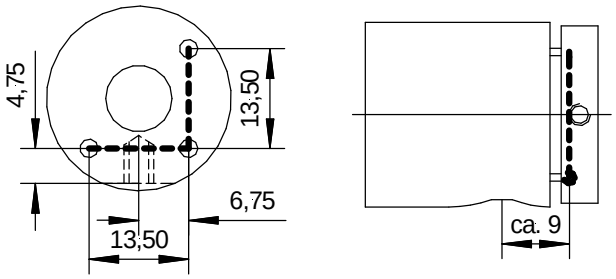
Mirror adapter	0	without	
	1	glas substrate	
Vacuum	0	no	
	6	10^{-6}	
	x	customized	

Dimensions of the Mirror Tilting Stage MT 25





Coordinates of the two tilting axes



MT 25 with beamsplitter cube on optical rail