

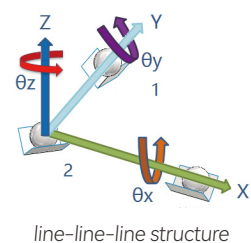
Kinematic Mirror Mount

SUS Series Stainless Steel Kinematic Mirror Mounts



Description:

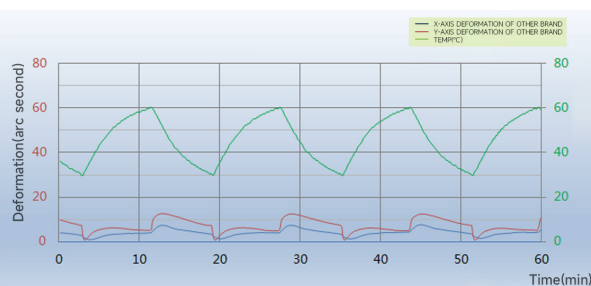
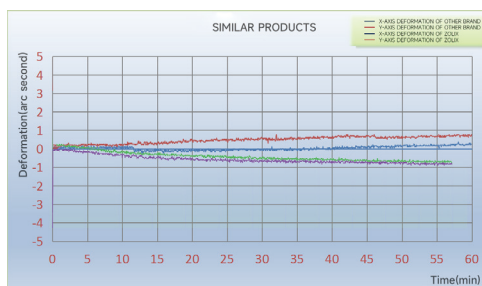
SUS series mirror mount is the ultimate solution designed by Zolix for cases requiring high stability for a long term, which is available in sizes for optics ranging from Ø1/2" to Ø2". By incorporating piezo screws, this mount achieves automation and precise nanoscale motion.



Features:

- High-Quality Materials:** The main body is SUS304 stainless steel, effectively reducing the thermal expansion coefficient and internal stress, thereby enhancing stability. Suitable for vacuum and high-power laser cavity applications.
- High stability:**
 - By adopting a superior line-line-line structure to replace the traditional point-line-surface structure, this mount offers significantly higher adjustment accuracy.
 - Thicker mounting plate provides better rigidity and stability.
 - The four-pull spring design boosts pulling force and ensures a more uniform distribution of force.
- High Sensitivity:** Features three sets of 0.2mm pitch super-fine thread pairs for 3D adjustment, delivering highest sensitivity.
- Dual Fixing Mechanism:** A specially designed elastic ring prevents lens deformation caused by locking screws or rigid fixing. Alternatively, the elastic ring can be removed, allowing the lens to be secured using the side elastic plate.
- Dual Locking Method:** In addition to the locking mechanism on the thread pair, the front and rear plates feature locking threaded holes for better reliability.
- Dual Adjustment:** thumb wheels or hexagon spanners.
- With M4 and M6 mounting holes.**

SUS series Stability Test Data:

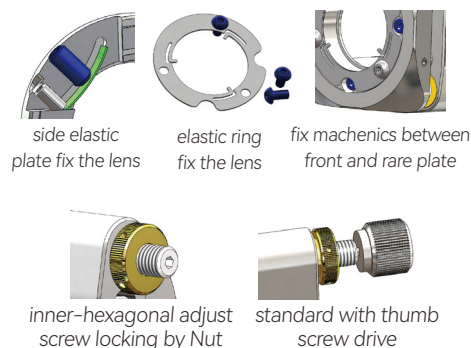


Note: above data is tested in laboratory, temperature $22 \pm 2^\circ\text{C}$

Selection Table:

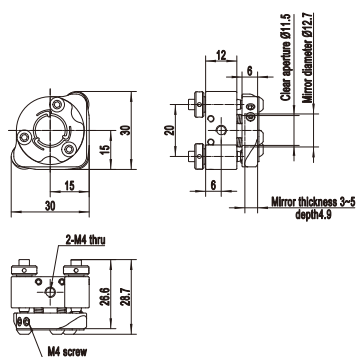
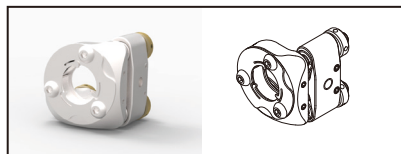
Model	SUS12.7	SUS20	SUS25.4	SUS38.1	SUS50.8
Optic Size (mm)	Ø12.5/ Ø12.7	Ø20	Ø25/Ø25.4	Ø38.1	Ø50/Ø50.8
Optics Thickness (mm)	3~5	3~6	3~6	3~6	4~8
Adjustment Angle Range (°)	±3				
Front Plate Translation (mm)	MAX6				
Clear Aperture (mm)	Ø11.5	Ø18.5	Ø24	Ø36.5	Ø48.5
Optic Center Height (mm)	15	25	25	30	35
Resolution: angular adjustment per revolution(°)	≈0.57	≈0.33	≈0.33	≈0.25	≈0.21
Main Body Material and Treatment	stainless steel with sandblasting passivation				
Thickness of The Fixed Plate(mm)	12	16			
Number of Pulling Spring	4				
Locking Mechanics	Yes	Yes, dual locking mechanisms			
Mounting Hole	M4	M6, Ø8sink hole			
Net Weight(g)	75	240	230	290	360

Details display:

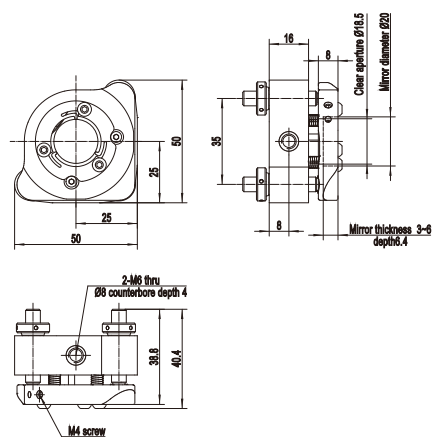
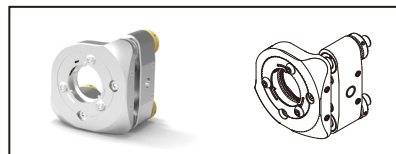


Dimensions:

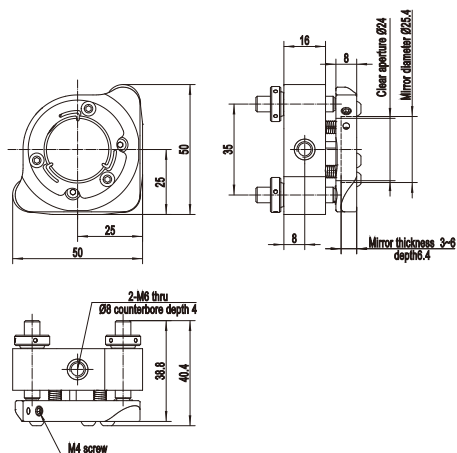
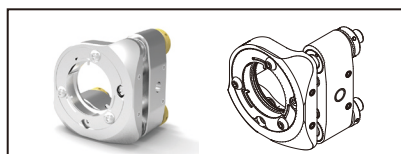
SUS12.7



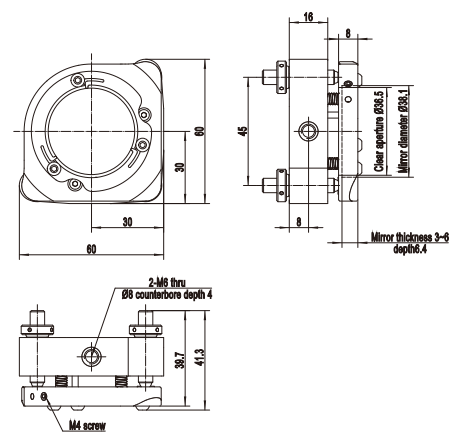
SUS20



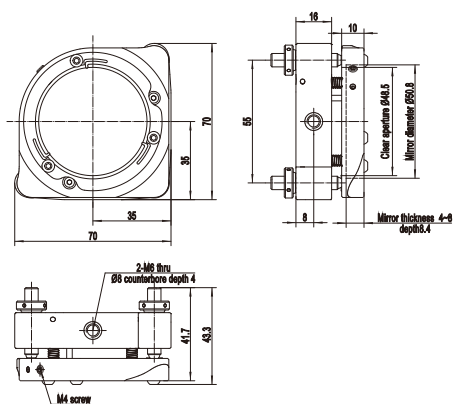
SUS25.4



SUS38.1



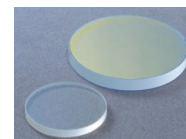
SUS50.8



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