

Kinematic Mirror Mount

SUS series Stainless Steel Kinematic Mirror Mount

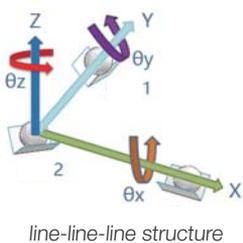


Brief Introduction:

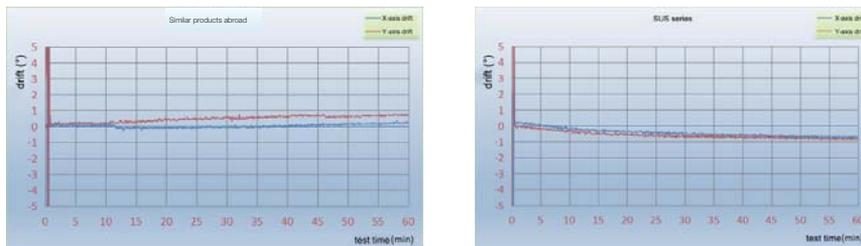
SUS series are Zolix specially designed high stability kinematic mounts, for the requirements which need both space and thermal stability.

Features:

- High-quality materials: Main body is made of heat treated No.304 stainless steel, which effectively reduces the thermal expansion coefficient and internal stress, and improves the stability. Suit for vacuum and high power laser cavity applications (Note: Special vacuum grease should be used when vacuum is need).
- High stability:
 - ① Different from the traditional point-line-surface structure, better line-line-line structure is used, which has higher adjustment accuracy.
 - ② Increase the thickness of the fixed plate, for higher rigidity and stability.
 - ③ The design of four-pull spring enhances the pulling force and makes the distribution of the pulling force more uniform.
 - ④ Hard steel sheet is used on the top surface of the screw pair, which has smoother adjusting performance.
- High sensitivity: 3 pcs 0.2 mm pitch super-fine thread pairs for 3D adjustment, for higher sensitivity.
- Dual fixing method: One locking method is specially designed elastic ring, which can avoid the lens deformation by the locking screws or rigid fixing. Improve the stability of the optical path. Or you can take off the elastic ring, using the side elastic plate fix the lens.
- Dual locking method: In addition to the thread pair come with locking mechanism, the front and rear plates are designed with locking threaded holes.
- Dual adjustment method: Adjusting thread pair come with inner-hexagonal adjusting hole behind. Can coupled with standard thumb wheel or Inner hexagon spanner, for better adjustment sensitivity and also larger angle range.
- Universal mounting holes: M4, M6 screw holes.



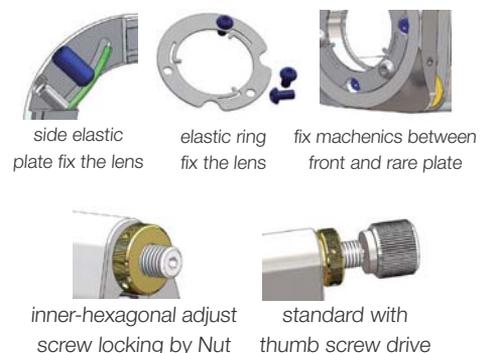
Compared with the stability curves of similar products abroad



Selection Table

Model	SUS12.7	SUS20	SUS25.4	SUS38.1	SUS50.8
Optic Size (mm)	φ 12.5/ φ 12.7	φ 20	φ 25/ φ 25.4	φ 38.1	φ 50/ φ 50.8
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)	φ 11.5	φ 18.5	φ 24	φ 36.5	φ 48.5
Optic Center Height (mm)	15	25	25	30	35
One Round of Screw Drive vs Angle Adjusted (°)	≈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 Method			
Mounting Hole	M4	M6, φ 8 sink hole			
Net Weight(g)	75	240	230	290	360

Details display:



Kinematic Lens Mount
 Laser Mount
 Kinematic Lens Mount
 Kinematic Mount for Polarization Components
 Filter Wheel and Filter Mount
 Prism/Cylinder Kinematic Mount
 Kinematic Mount
 Special Kinematic Mount
 Spatial Filter
 Post and Post Holder
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