Mirror Mounts

Flexure Mounts

Beamsplitter, Top Adjustable

0.5- to 1.0-inch optic / IXFtbs Series

Note that dimensions in parentheses (mm) reflect metric assembly features IXF.50tbsi and IXF.50tbsa Lock for adjustment 8-100 adjustment screw screw, fits 5/64 or fits 5/64 or 2.0mm hex, 2.0mm hex, 2 place 4-40 (M3) set screw with nylon tip on í 1.15 models only] .625 .463 typ. .25 dia, 463 6-32 (M4) threaded 2 places hole or clearance for 93 17 4-40 (M3) cap screw, -40 (M3) x 2-56 (M2.5) 2 places .18 dèep x .18 deep .625 threaded hole. threaded hole, 1463 .525 dia x .16 deep, 2 places evenly holds .50 dia optic **Common Dimensions** spaced on a .660 dia bolt shown in cyan-blue IXF.75tbsi and IXF.75tbsa .14 circle -.67 4-40 (M3) x .18 1.28 deep threaded hole, 4 places 1.50 evenly spaced 1.00 on a .970 dia .64 typ. bolt circle .03 375 dia, 2 places .800 dia x .16 deep, holds .75 dia optic IXF1.0tbsi and IXF1.0tbsa 4-40 (M3) x .18 deep threaded hole, 4 places evenly 1.72 spaced on a 1.210 .75 typ. dia bolt circle 1.50 .08 typ. Clearance through to .50 dia. -32 (M4) threaded hole or clearance for -40 (M3) cap screw mounting, 2 places 2 places 1.050 dia x .16 deep,



holds 1.00 dia optic

The IXFtbs series are a new version of our popular IXFi monolithic flexure mounts. This new variation incorporates the same features as our IXFi but has the tip/tilt adjustments moved to create a top adjusted flexure. This feature is ideal for applications where accessibility to the mount is limited and our standard model can't be accessed. Built into the top adjustment mechanism is a simple split-clamp lock for the 100TPI adjustment screws. These locks work best when they are pre-loaded prior to adjustment, adjustment made, then locked in place. We have also added clear aperture cutouts to maximize beam clearance for beamsplitter applications. These cutouts are set at 45°, but are large enough to accommodate beam angle variations of ±5°. These mounts use our 100TPI rolled thread adjustment screws for low stiction fine adjustments and are swaged at the end to prevent over-travel of the mount. The IXFtbs series mounts are manufactured from one solid piece of spring steel. then nickel plated so they will not corrode and can be used in ultraviolet laser environments. These models are also available in aluminum version; for "flight" or vacuum applications. Aluminum models exhibit the same performance specifications as the steel models. Custom OEM versions available in steel and aluminum.



Product Features

- Built-in 45° clear apertures
- Manadithicacoensteurgion
- 100TPI lockable adjustment screws

Performance Specifications, also for a versions

Model	Pitch	Yaw	Minimum controllable motion
IXF.50tbsi	6°	6°	8.2 arc sec.
IXF.75tbsi	6°	6°	5.5 arc sec.
IXF1.0tbsi	5°	5°	4.5 arc sec.

Related Products

IXFmb series mounting blocks	242
IXFab series angle brackets	246

Order Information

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0.5-inch optic, beamsplitter, top adjust	IXF.50tbs			
0.75-inch optic, beamsplitter, top adjust	IXF.75tbs			
1.0-inch optic, beamsplitter, top adjust	IXF1.0tbs			
Aluminum models				
0.5-inch optic, beamsplitter, top adjust	IXF.50tbsa			
0.75-inch optic, beamsplitter, top adjust	IXF.75tbsa			
1.0-inch optic, beamsplitter, top adjust	IXF1.0tbsa			

Metric Option — for metric assembly features on this product, add '-M' after model number.



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