

INO

QUICKPOZ

SOLUTION OVERVIEW

The QuickPOZ optical mounts and breadboard line-up is addressing the need for robust optomechanical prototyping.

- Self-positioning for fast prototyping
- Cost effective
- Vibration resistant

All mounts have been designed to be operated under a typical ground transportation vibration environment up to 500 Hz while keeping their pointing stability under $\pm 50 \mu\text{rad}$.

Easy positioning of all optics on INO's QuickPOZ breadboard is accomplished using removeable reference balls on INO's special breadboard.

Using INO's QuickCTR-edge centering technology, all optical components are positioned within $\pm 50 \mu\text{m}$ @ 2 sigma from any mount assembled on the same breadboard with respect the nominal optical axis.

Reference balls are temporarily installed on INO's proprietary breadboard to locate each mount with respect to one another. Breadboard threaded holes are accurately manufactured allowing precise positioning of all mounts.

These optomechanical mounts are used in demanding environments like:

- Aerospace
- industrial environments
- Bioscience labs
- military



FEATURES

PERFORMANCE

Optomechanical mount compatibility

Compatible with standard threads
0.535"-40, 1.035"-40, and 2.035"-40 and RM

Operating temperature

-40°C to +50°C

Storage temperature

-46°C to +63°C

Optical axis positioning accuracy

±0.05 mm between the optical axis of any opto- mechanical mount with respect to the nominal optical axis of the breadboard assembly

Mirror surface deformations induced by mount

≤ λ / 10 PV @ 633 nm over the clear aperture

operating temperature

≤ ±50 μ rad (mechanical angle)

Mounting repeatability

≤ ±0.015 mm in positioning

Shipping vibrations impact on angular positioning

≤ ±50 μ rad (mechanical angle)

Shock survival

30 G minimum, without shipping packaging

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