Ultra Precision Lapping/Polishing Fixture

Automatic parallelism up to 2.0” of arc

Stock removal indicator and stock removal presetting

Control specimen orientation to 2.0” of arc or less

Adjustable specimen loading 0-3600g and loading presetting

Accepts specimen up to 4” in diameter and 1.45” in thickness

This lapping/polishing fixture is a patented product which can be used to hold specimen of varied geometry for precise lapping and polishing on most lapping/polishing machine. The tool is used in many areas, such as geology, semiconductor materials, electro-optics, optics, fiber optics, laser, ceramics, and organic tissue study.

The key component of this fixture is its ultra precision shaft system. The specimen is fixed through a mounting plate on the shaft which can be freely slid up and down within the bushing with a very tiny roll. The smaller the roll, the more precise the parallelism and flatter the specimen. The roll of this shaft system is less than 2.0” of arc; it is the best in the world.

The fixture is manufactured throughout from stainless steel which is excellent in corrosion resistance. The polishing load on the specimen of this fixture can be varied from 0-3600g and preset to a certain value according to the material’s hardness and characteristics. This fixture is
equipped with a material removal indicator and a stock removal stop which also can be preset to a certain value to avoid over lapping/polishing.

Please compare the accuracy, effectiveness and cost with the similar product before ordering.

Specifications:
Net Weight: 5.9Kg. (13 lbs)
Height: 196mm (7.72”)
Outside Diameter: 152mm (6”)
Angular Adjustment Range: ±3”
Range of Loading: 0-3600g
Maximum Sample Diameter: 105mm (4.13”)
Maximum Sample Thickness: 37mm (1.45”)/ 24mm (0.94”)
Maximum Shaft Roll: 2.0” of arc
* Not using mounting plate
** Using mounting plate
*** Actual specimen parallelism depends upon the roll of the shaft and the specimen bonding technique.

For any custom requirements, please contact us directly.

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