



LAPMASTER INTERNATIONAL LLC

300MM HORIZONTAL INTERFEROMETER



UNSURPASSED FLATNESS INSPECTION PRECISION

User friendly – Economical – Reliable – Accurate

Lapmaster is offering this state-of-the-art Horizontal Interferometer designed for precision flatness measurement and analysis of components as large as 12" in diameter. The optics are furnished by Tropel, the flatness evaluation software is Zygo MetroPro Version 8.1.5, with the electro-optical interface & parts holding Universal Mount provided by Jacobian Technologies.

This system is designed to measure the flatness of reflective surfaces as small as 1” in diameter and as large as 12” in diameter. Three (3) separate zoom/focus ranges allow for equal accuracy and resolution on every part, across such a wide range of diameters. In addition, the unit also features a remote contrast-brightness feature which allows the operator to evaluate conventional optically polished surface, as well as polished metal and ceramic surfaces.

The system is large with a dimension of 8’ long by 4’ wide by 6’ tall at 3,200 lbs. An additional 3 feet around the perimeter of the machine should be factored into account. Dimensions do not include the additional space required for the table to support the computer, monitors and printer. All of the internal components as well as the support products run off 120V-single phase voltage. However, the air table (provided for stability) does require a minimum of 40 psi air pressure.

Concerning the required environment, the area in which the equipment is placed needs to be thermally stable and allowances must be made for direct contact to a stable concrete floor. The system features thermally and vibration padded enclosure panels (removable), as well as a sliding door to thermally protect and isolate the part during measurement.

The system features the following:

- **25mm-300mm diameter parts measurement capability**
- **300mm aperature Fizeau phase-measuring instrument**
- **Tropel Corporation designed system and optics**
- **Frequency stabilized HeNe laser**
- **Software controlled zoomed optics provide equal accuracy at any diameter**
- **Variable brightness/contrast to measure different reflectivity levels**
- **Equipped with Zygo FlashPhase to control vibration sensitivity**
- **Licensed Zygo MetroPro version 8.1.5 software (newest version)**
- **Dell desktop computer, color monitor & B/W alignment monitor**
- **Floating, Multi-Axis universal parts mounting fixture holds a wide variety of part sizes and shapes. Turn-over time to change sizes normally < 1 minute.**
- **TMC Air table system to reduce vibration, enhance stability**
- **Thermal and vibration damping enclosure panels & sliding isolation door**
- **This system was subject to very little use & is in new condition!**



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