# DATA SHEET

# Form Talysurf S5 Series 1

- ✓ Form and Surface Texture
- ✓ Radius and Aspherics
- ✓ Programmable Measurement
- √ 120 mm High Accuracy Datum
- √ 6mm Gage Range

### **Specification**

Traverse Length

120mm (4.72 in)

Straightness of Traverse

Contained within 2 parallel lines spaced 0.5 µm (20μin) over 120 mm (4.72 in) traverse, and 0.25μm (10μin) over any 60 mm (2.36in) traverse.

#### **Traverse Speeds**

Run-up distance required: Measurement speed Reverse speed Set-up speed Traverse End Stops

0.3 mm max. 1.0 and 0.5 mm/sec 5mm/sec max 0.5, 1.0, 2.5, 5.0, 10 mm/sec

Fixed optical switches

Laser Interferometric Transducer

**Pick-up Details** 

Gauge Range Gauge Resolution Skid force

Helium/neon Laser 632.8 nm 6mm (0.039in) 10nm with 6mm range 70-100 mgf

Form Removal

**Analysis** 

Form Parameters

None, Datum, LS Line, MZ Line, LS Arc Slope (LS Line, MZ Line) Radius (LS Arc)

#### **Motorized Column & Epoxy Granite Base**

Carriage traverse speeds 0.5, 1.0, 2.5, 5.0, 10 mm/sec

Angular rotation of carriage

15, 25, 40 min/sec

## EMI Gage also provides the following services:

- Full Installation and Service
- Calibration to ISO/IEC 17025
- ✓ Operator Training
- ✓ Preventative Maintenance
- Computer Upgrades
- Stylus Manufacturing and Repair



The Form Talysurf Series S5 has long been regarded as the pinnacle of surface and form texture measurement instruments. The Form Talysurf Series S5 allows surface texture to be measured over a wide gaging range and at the same time allows the measurement of form deviations from simple radius and angular relationships to complex mathematical forms such as aspherics. The wide measuring range/resolution allows a variety of measurements to be made with minimal set-up. Furthermore, the ability to program all measurement functions, including axes motions, enables operators to run automatic component measurement and analysis programs. The Form Talysurf Series provides the user with a wide range of software options to suit particular measurement needs which include, surface texture analysis, form analysis, aspheric and conic section, dual profile, gothic arch analysis, and power spectrum. To compliment the system further, a wide range of standard stylus options allow for measurement of virtually any surface. The standard range of the instrument can also be increased with longer effective lengths of styli and custom stylus options are available upon request. Contact us today!

INCLUDES: PC, MONITOR, COLUMN AND STAND, CPO WARRANTY!

