

## Micro-Hite 3D Reflex

The TESA MICRO-HITE® 3D coordinate measuring system is an affordable high accuracy measuring instrument designed to fill the operational gap between precision hand-held measuring instruments and high end coordinate measuring machines. To assure its high production standards, this advanced measuring system is produced at the TESA factory in Renens, Switzerland in a dedicated manufacturing cell.

Interactive TESA REFLEXTM software allows operators of all skill levels to perform complex inspection routines quickly and efficiently with little training. The offset triangular bridge design provides a low center of gravity and optimum stiffness-to-mass ratio. Air bearings ensure frictionless motion in all three axis.

The TESA MICRO-HITE 3D coordinate measuring system features a light alloy base fitted with a granite measuring table. It is constructed from materials that have a similar coefficient of expansion to offset the effects of changes in ambient temperature conditions, making it equally suitable for the shop floor and the inspection laboratory.

All operations are controlled through an ergonomically positioned operator interface panel. The patented Zmouse™ provides instant control of the measuring system from anywhere in the work envelope.

The TESA MICRO-HITE 3D coordinate measuring system comes equipped with either of two TESA 3D probes—the TESASTAR® Touch Trigger Probe or the TESASTAR-i® Indexable Probe. This competitively priced three-axis measuring system is designed to fit any shop budget, and offers sophisticated measurement and inspection capability for any type of manufacturing operation.

{tab=Standard Package}

- TESA MICRO-HITE 3D Coordinate Measuring System
- MH3D Basic Version
- TESASTAR Touch Trigger Probe
- Control Panel with REFLEX Application Software
- PCMCIA Memory Card
- Reference Sphere
- Granite Measuring Table
- Air Filter and Regulator

{tab=Options}

#### Probing Options

- MH3D-I Version with Indexing Probe
- MH3D-F Version with Fine Adjustment
- MH3D-FI Version with Fine Adjustment and Indexing Probe
- TESASTAR-I Manual Indexable Probe
- Styli Kits

#### Software Options

- None

#### Environmental Options

- None

#### Machine Options

- Fine Adjust Option to allow for precise measurement of the smallest features
- Machine Stand

{tab=Technical Information}

#### Design features

- Tricision® technology controls bridge axis roll for precise volumetric measuring accuracy.
- Off-center mass provides optimum geometric stability.
- 21 air bearings ensure frictionless motion along all three axes.
- New, patented glass scales and non-contact, opto-electronic sensors offer greater accuracy and repeatability.
- Lock/unlock system that enhances control of each individual axis.
- Control Panel with an 89 x 118 mm (3.5 x 4.65 in) back-lit display field, 7-decade display plus sign numerical indication, and an icon-driven menu.
- VDI/VDE Inspection Report

- Micro-Hite 3D with Reflex offers an 18" x 20" x 16-1/2" (460 x 510 x 420mm) measuring range. A small footprint fits nearly any shopfloor configuration. It can handle a workpiece up to 23-1/2" x 29-1/2" x 17" (600 x 750 x 430mm), accommodating 80% of all parts manufactured today, and making it a versatile process and quality control addition to your shop.

#### Environment

- Quality Lab or Controlled Workshop
- Allowable Temperature Range: 13 - 35 °C (55.4 - 95 °F)

#### Performance Data

- Brown & Sharpe tests and evaluates CMM products using the American standard ASME B89 and international standard, ISO 10360-2, and ISO 10360-4.
- Please visit the [About ISO Standards page](#) for ISO Standard information.
- To request performance information on this model [Click Here](#)

{tab=Sizes}

The Micro-Hite 3D with Reflex is available in the following sizes:

#### Strokes (X,Y,Z)

- 460 X 510 X 420 mm

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