HF5

Field of View Measuring System

- HF5 is high precision, two dimensional measurement machine.

- Features a horizontal layout optimized to measure cylindrical parts.

- Compact and lightweight desktop machine.

- Includes a stage with a rotation range of 90° that allows for helical screws to be positioned at an angle.

- Offers a large depth of focus with 30 mm.

- Incorporates a touch panel that allows for automatic measurement programs search, execution and measurement results display.

- Includes the next generation InSpec Metrology Software.

- Advanced LED lighting including axial and profile light.

655 mm

777 mm

282 mm

Technical Specifications

Measurement Capacity	XY Accuracy		Measurement Range
69.3 x 49.6 mm, 0-90°	At Calibration Plane	5.0 µm [1,2,3,4]	30 mm
	Within ±10 mm of Calibration Plane	(5.9 + L/60) µm [1,2,3,4]	

Machine Dimensions	Stage Weight Capacity
282 x 777 x 655 mm	3 kg

1. Within operating temperature of 20.0℃ ± 1℃.
2. L is in mm.
3. Up to lengths of 75 mm.
4. Using Micro-Vu Calibration Artifact.

Key Features

- Large Measurement Range
  - Minimizes Measurement Error
  - Minimizes Focus Adjustments
- Single Snapshot Measurement
- Includes fixture kit for horizontal machine layout

- Automatic Part Identification
  - Adjusts to Part's Orientation
  - Minimal Part Fixturing Required
- Stage with 90° rotation range
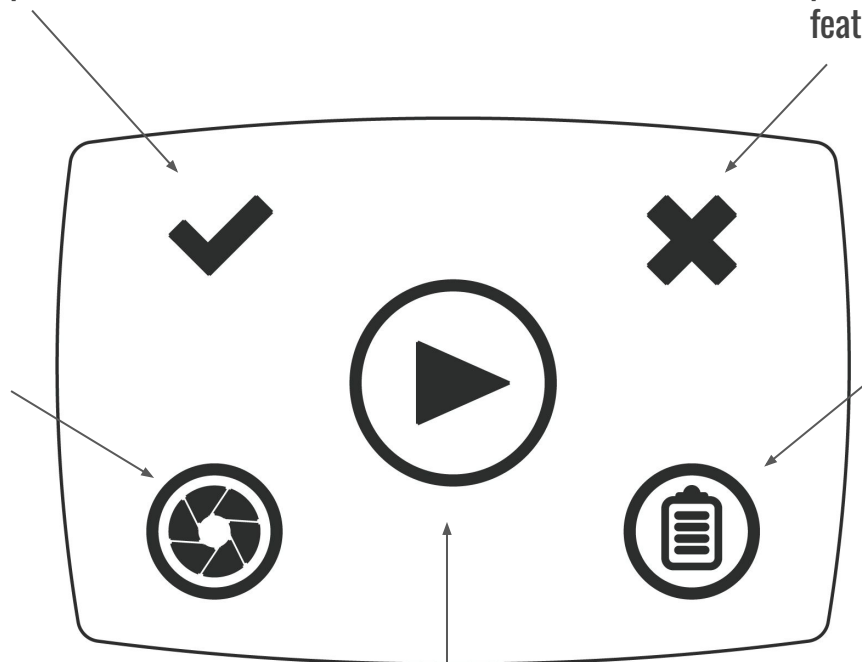- Programmable Light Settings

Touch Panel

Pass Indicator:
Illuminates green indicating the part passed inspection.

Fail Indicator:
Illuminates red when the part fails inspection or a feature fails to measure.

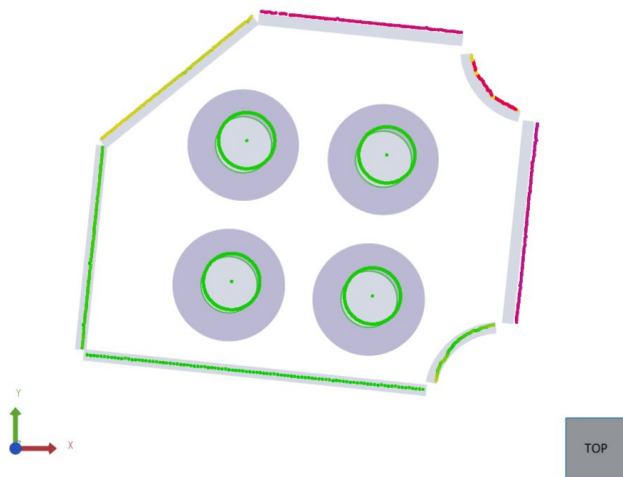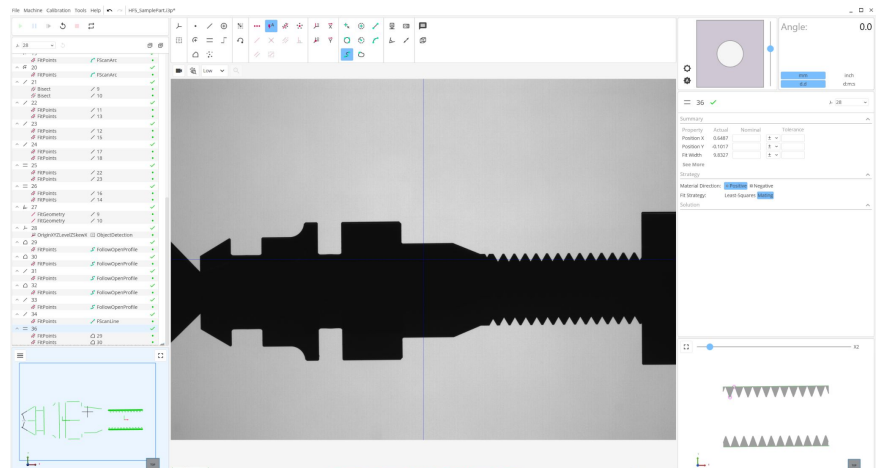**Live Image:**
Press to display a live video image.

Report:
Opens and closes the Reporting page. Prints the report.

Play:
Runs programs. Searches pattern library and runs program. Displays the machine's state.

InSpec Software

- Concise screen layout.
- Advanced edge detection algorithms.
- Sub-pixel accuracy and repeatability.
- Included vision and light calibration routines.

- Import nominal values from 3D CAD models or based on reference part measurements.
- Profile Evaluation using advanced fit strategies.
- Colored datapoint indicators provide conclusive results.

TOP

- Automatically record data and print an inspection report.
- Export measurement results and data automatically after completing measurements.
- Advanced geometric dimensioning and tolerancing capability.

Product information is subject to change without prior notice as a result of ongoing technical development.