

The Vertex 311 Multisensor Measurement System implements new technologies to provide speed and accuracy on a reliable and affordable measuring machine.

The system includes InSpec Metrology Software, a programmable optical zoom, 3x digital zoom, non-linear stage compensation, non-linear optics compensation, advanced LED lighting, and temperature monitoring.

InSpec Metrology Software provides point-and-click simplicity, proprietary edge detection, advanced lighting control and calibration, multi-sensor integration, automated calibrations, and a clear display of measurement data and tolerances.



Model	Vertex 311
Measurement Capacity	315x315x160mm 10kg
Machine Dimensions	720x1085x1030mm 150kg
Scale Resolution	0.1 $\mu$ m
PRELIMINARY XY Accuracy, E <sub>2</sub>	2.6+L/175
PRELIMINARY Z Accuracy, E <sub>1</sub>	3.0+L/150
Zoom Range (Optical, Digital)	19.5:1 or 36:1 (6.5x or 12x, 3x)
Viewed Magnification	20x-390x 15x-540x

Specifications subject to change without notice.  
Accuracy units are microns; length L units are mm.  
Viewed magnification depends on monitor size and settings.

## Machine

Precision X, Y, and Z Linear Ways  
Motorized, Programmable Zoom Lens  
Proprietary Control and Amp Boards  
Machine Resident Calibrations  
Single USB Connection to Computer

## Optics and Illumination

Digital, Hi-Res Video, Color or B&W  
All LED Lighting - Surface, Profile and Axial  
Multi-Ring, Multi-Sector Ringlights  
Lighting Angles from 25 to 90 Degrees  
6.5x or 12x Zoom Lens, Servo Controlled  
Fast Optical Magnification Changes  
Instant Digital Magnification Changes

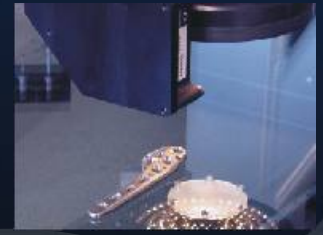
## InSpec Metrology Software

Dynamic Sub-Pixel Image Processing  
Point Edge Detection Tools  
Multiple Point Edge Detection Tools  
Video Overlays and Crosshair  
On-Screen Scale  
Feature Constructions  
Tool Property Editing  
Lights, Zoom, and Zone Editing  
Instant Tool Editing on Stored Images  
Advanced Dimensioning and Tolerancing  
Automated Export Settings  
Automatic Report Construction  
Feature Summary Display  
Data Points Display (Whisker Charts)  
Feature Status Log Display  
Fixed Windows Configuration  
Image Capture and Export to JPG or BMP  
User Configuration and Password Protection



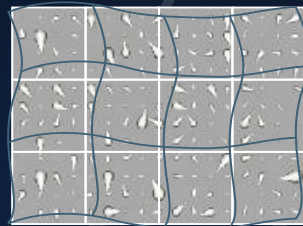
### Touch Probe Ready

Automated Probe Calibrations  
Automatic Approach Vectoring  
Automated Docking



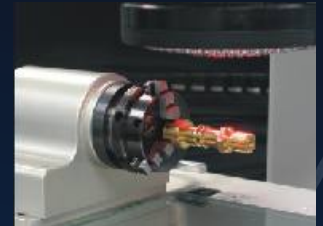
### Laser Probe Ready

Point and Path Data  
Graphical Range Display  
Automated Laser Calibrations



### Non-Linear Calibration

Standard for Stage and Optics  
Ensures Highest Accuracy  
Automated Procedures

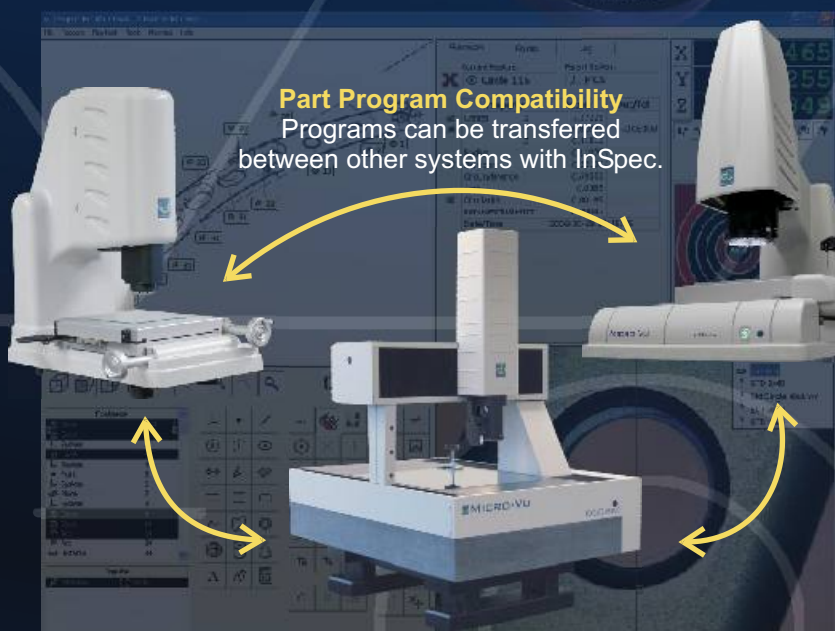


### Rotary Indexer Ready

Vertical and Horizontal Mounting  
Automated Rotary Calibration  
Faceplate and Chuck Included

### Advanced Lighting

Intuitive Graphic Interface  
Full Control to Enhance Edges  
Long Life LEDs (approx 10,000 hrs)  
InSpec Includes Lights Calibration



### Part Program Compatibility

Programs can be transferred between other systems with InSpec.



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