VERTEX

The Vertex Multisensor Measurement Systems implement new technologies to provide speed and accuracy on reliable and affordable measuring machines.

The systems include InSpec Metrology Software, a programmable optical zoom, 3x digital zoom, non-linear stage compensation, non-linear optics compensation, and advanced LED lighting.

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.
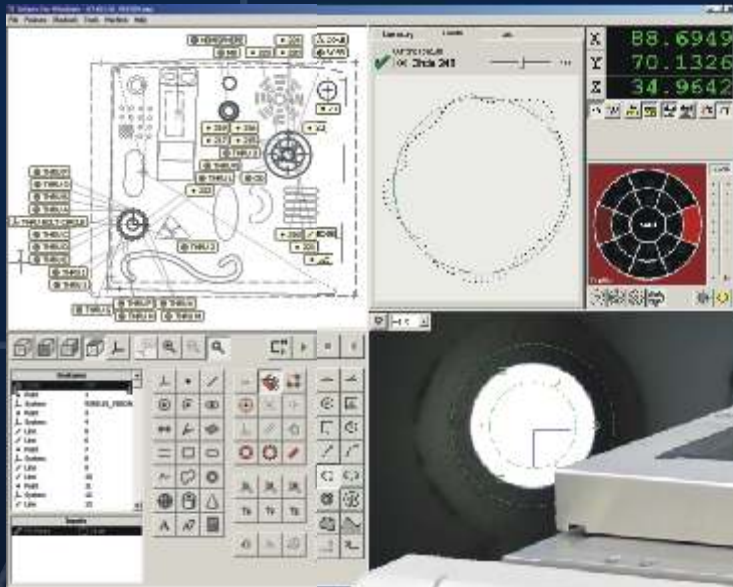
Multisensor

Vision

Touch

Laser

MICRO-VU CORPORATION

PRECISION MEASUREMENT SYSTEMS SINCE 1959

VERTEX

Multisensor Measuring Center™ 251 311

Model	Vertex 251	Vertex 311
Measurement Capacity	250x160x160mm 10kg	315x315x160mm 10kg
Machine Dimensions	606x808x1030mm 98kg	720x1085x1030mm 150kg
Scale Resolution	0.1 µm	0.1 µm
XY Accuracy, E_2	2.0+L/250	2.6+L/175
Z Accuracy, E_1	2.0+L/200	3.0+L/150
Zoom Range (Optical , Digital)	19.5:1 or 36:1 (6.5x or 12x, 3x)	19.5:1 or 36:1 (6.5x or 12x, 3x)
Viewed Magnification	20x-390x 15x-540x	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
LED Lighting - Surface, Profile and Axial
Multi-Ring, Multi-Sector Ringlights
Lighting Angles from 25 to 90 Degrees
19.5:1 or 36:1 Zoom Range
Fast Servo Drive 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
Full Screen, Window, and Dual Monitor Display
Image Capture and Export to JPG or BMP
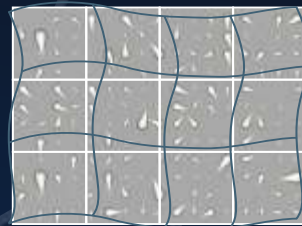User Configuration and Password Protection

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
Ensures Highest Accuracy
Automated Procedures
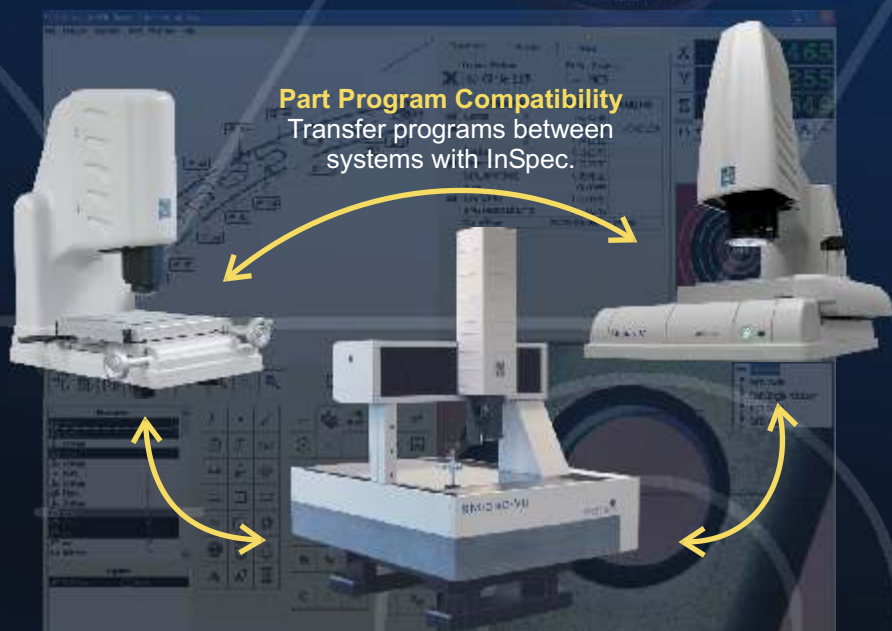Standard for Stage and Optics

Rotary Indexer Ready
Vertical and Horizontal Mounting
Faceplate and Chuck Included
Automated Rotary Calibration

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

Part Program Compatibility
Transfer programs between systems with InSpec.

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