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.
**VERTEX**

**Measuring Center™**

<table>
<thead>
<tr>
<th></th>
<th>XY Accuracy</th>
<th>Z Accuracy</th>
<th>Measurement Capacity</th>
<th>Stage Capacity</th>
<th>Machine Dimensions</th>
<th>Machine Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vertex 251</td>
<td>2.0+L/250</td>
<td>2.0+L/200</td>
<td>250x160x160mm</td>
<td>10 kg</td>
<td>606x808x1033mm</td>
<td>120kg</td>
</tr>
<tr>
<td>Vertex 311</td>
<td>2.64L/175</td>
<td>3.0+L/150</td>
<td>315x315x160mm</td>
<td>10 kg</td>
<td>718x1084x1029mm</td>
<td>150kg</td>
</tr>
<tr>
<td>Vertex 312</td>
<td>2.6+L/175</td>
<td>3.0+L/100</td>
<td>315x315x250mm</td>
<td>10 kg</td>
<td>718x1084x1208mm</td>
<td>160kg</td>
</tr>
</tbody>
</table>

Specifications subject to change without notice. Accuracy units are microns; length L units are millimeters.

**Non-Linear Calibration**
Ensures highest accuracy for stage and optics automated procedures.

**Touch Probe Ready**
Automated probe calibrations.
Automatic approach vectoring.
Automated docking.

**Laser Probe Ready**
Point and path data graphical range display.
Automated laser calibrations.

**Rotary Indexer Ready**
Vertical and horizontal mounting.
Faceplate and chuck included.
Automated rotary calibration.

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**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

**Camera and Optics**
- Digital, Hi-Res Video, Color (C series)
- Digital, Hi-Res Video, B&W (M series)
- 19.5:1 Zoom Range, ~20x-390x (H Series)
- 36:1 Zoom Range, ~15x-540x (U Series)
- 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

**Advanced Illumination**
- LED lighting - surface, profile and axial
- Multi-ring, multi-sector ringlights
- Lighting angles from 25 to 90 degrees
- 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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