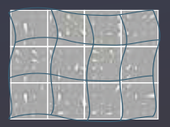
EXCEL Multisensor Measuring Centers™

Model	Scale Resolution	XY Accuracy	Z Accuracy	Measurement Capacity (mm)	Machine Dimensions (mm)
Excel 501 HM/HC	0.4 µm	2.8+L/200	2.8+L/100	400X500x160	1200X1100X1550
Excel 502 HM/HC	0.4 µm	3.1+L/200	3.3+L/100	400X500x250	1200X1100X1650
Excel 501 UM/UC	0.1 µm	2.5+L/200	2.5+L/100	400X500x160	1200X1100X1550
Excel 502 UM/UC	0.1 µm	2.8+L/200	3.0+L/100	400X500x250	1200X1100X1650
Excel 661 HM/HC	0.4 µm	2.8+L/200	2.8+L/100	660x680x160	1311x1604x1608
Excel 662 HM/HC	0.4 µm	3.1+L/200	3.3+L/100	660x680x250	1311x1604x1788
Excel 661 UM/UC	0.1 µm	2.5+L/200	2.5+L/100	660x680x160	1311x1604x1608
Excel 662 UM/UC	0.1 µm	2.8+L/200	3.0+L/100	660x680x250	1311x1604x1788
Excel 664 UM/UC	0.1 µm	3.5+L/200	3.8+L/100	660x680x400	1311x1604x2088
Excel 1051 UM/UC	0.1 µm	4.2+L/200	2.8+L/100	1050x1050x160	2000x1720x1608
Excel 1052 UM/UC	0.1 µm	4.5+L/200	3.3+L/100	1050x1050x250	2000x1720x1788
Excel 1054 UM/UC	0.1 µm	5.2+L/150	3.8+L/100	1050x1050x400	2000x1720x2088
Excel 1601 UM/UC	0.1 µm	4.2+L/200	2.8+L/100	1050x1650x160	2600x1720x1608
Excel 1602 UM/UC	0.1 µm	4.5+L/200	3.3+L/100	1050x1650x250	2600x1720x1788
Excel 1604 UM/UC	0.1 µm	5.2+L/150	3.8+L/100	1050x1650x400	2600x1720x2088
Excel 1651 UM/UC	0.1 µm	4.2+L/200	2.8+L/100	1250x1650x160	2600x1850x1608
Excel 1652 UM/UC	0.1 µm	4.5+L/200	3.3+L/100	1250x1650x250	2600x1850x1788
Excel 1654 UM/UC	0.1 µm	5.2+L/150	3.8+L/100	1250x1650x400	2600x1850x2088

Based on Micro-Vu Accuracy & Repeatability specification. Accuracy is in microns where L is length measured in mm. Z Accuracy is mechanical accuracy; focus accuracy depends on the part surface. Distributed weight capacity 100kg, all models. Additional weight capacity is possible with appropriate fixtures. On-screen magnification values depend on monitor size and resolution. Rights reserved to change product specifications without notice.

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 Magnification Changes
Instant Digital Magnification Changes



Non-Linear Calibration
Ensures Highest Accuracy
Standard for Stage and Optics
Automated Calibrations

Part Program Compatibility
Transfer programs between systems with InSpec.

Aerospace Components	Connectors	Fiber Optic Ferrules	Masks	Packaging	Stamped Parts
Appliance Parts	Consumer Electronics	Fittings	Medical Components	Plastic Molded Parts	Stencils
Automotive Components	Cutting Tools	Flex Circuits	Micro Machined Parts	Powdered/Sintered Metal	Stents
Bearings and Brackets	Dental Implants	Gaskets and Seals	Molds	Parts	Threaded Holes
Bottles and Caps	Dies	Implants - Medical	Motor Laminates	Printed Labels	Tooling
Catheters	Electronic Components	LCD and Flat Panel Parts	Mylar Art Work	Rubber Parts	Watch Components
Component Placements	Extrusions	Lead Frames	Needles	Sheet Metal	Wire Connectors
Containers and Closures	Fasteners	Machined Metal Parts	O-Rings	Solar Panels	and more ...

Micro-Vu Corporation
7909 Conde Lane Windsor, CA 95492 USA
Phone: +1 (707) 838-6272
Email: sales@microvu.com
www.microvu.com

RFM RESOURCES FOR MANUFACTURING
(937) 436-4699
sales@rfminc.net
www.rfminc.net

EXCEL Multisensor Measuring Centers™

Multisensor
Vision
Touch
Laser

High Speed and Accuracy
Advanced Zoom and Lighting
Integrated Vision, Touch, and Laser
Measure Multiple Parts and Extra Large Parts

Micro-Vu Corporation
Precision Measurement Systems Since 1959

EXCEL Multisensor Measuring Centers™

The Excel Multisensor Measuring Centers™ employ new technologies to provide high speed and accuracy on reliable and affordable measurement systems.

In addition to Vision capabilities, an Excel offers Touch Probe and Laser measurement capabilities. Touch Probe capabilities improve 3D measurement capabilities. Laser capabilities improve speed for scanning and Z height measurements.

With the multisensor capabilities, advanced digital and optical zoom, proprietary edge detection, and InSpec Metrology Software, the Excel Measuring Centers™ can handle demanding measurement applications.

The gantry style system accommodates large parts and fixtures of multiple parts while maintaining a relatively small footprint. The Excel series of machines measures parts up to 2.5 meters long and up to 100kg in weight.

Large XY Stage and Z Capacities

42 or 18 Channel Lighting
- Profile (Backlighting)
- Surface (Ring Light)
- Axial (Through the Lens)

Programmable Optical Zoom and 3x Digital Zoom

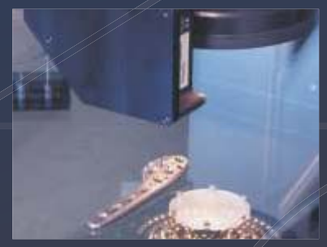
Stable Granite Base with Linear Bearing Design

USB Connection to Computer

InSpec Metrology Software Seamlessly Integrates Multisensor Measurements

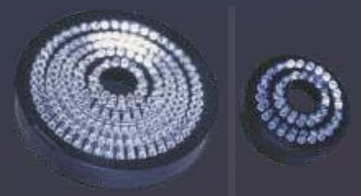
Feature Highlights

Touch Probe Ready
Automated Probe Calibrations
Automatic Approach Vectoring
4 and 6 Station Probe Racks



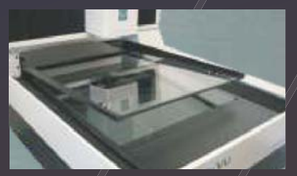
Laser Probe Ready
Point and Path Data
Graphical Range Display
Automated Laser Calibrations

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



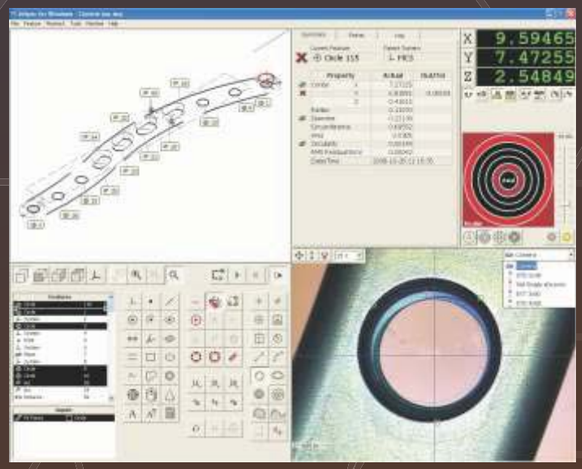
Surface Ring Light
Enhance Difficult-to-See Edges
Directional Light from 27º to 75º
Macro: 5 Rings, 8 Sectors, 40 Segments
Standard: 2 Rings, 8 Sectors, 16 Segments
Long and Short Working Distances

Lighting Features
Intuitive Graphic Controls
Ring, Sector, Segment Selection
Long Life LEDs, ~10,000hrs
White Lighting for Color
Red Lighting for B&W



Automated Platen Ready
Hold Flexible Parts Flat for Inspection
Control Warp and Flex
Improve Measurement Accuracy
Automated Open and Close
Available on Excel 600 Series

INSPEC METROLOGY SOFTWARE
Powerful Yet Easy-to-Use
Adaptive Vision Tools
Point and Click Programming
Easy Tolerancing and Reporting



Instant Vision Tool Editing
Click-Drag Control Points and Boundaries

Results at a Glance
Intuitive Layout by Design

Stored Snapshots
Immediately Review and Edit Tools

Whisker Charts of Features
View Data Point Distribution

OS and Computer Flexibility
Compatibility by Design

CAD Import / Export
Automatic Tool Constructions

Optics, Lighting, and Stage Calibrations
Automated by Design