



Sprint MVP

Automatic Benchtop Measurement System

200 / 250 / 300

Productivity on the Bench Top

SprintMVP™ is a high performance yet affordable dimensional measurement system. SprintMVP offers a choice of three models to suit your measurement needs.

SprintMVP systems are fully automatic with motorized precision XYZ stages, motorized zoom optics and high resolution digital color cameras. Measure-X® metrology software is equally suited to simple walk-up measurements or fully automated routines.



SprintMVP 200 System

Measurement Range (mm)

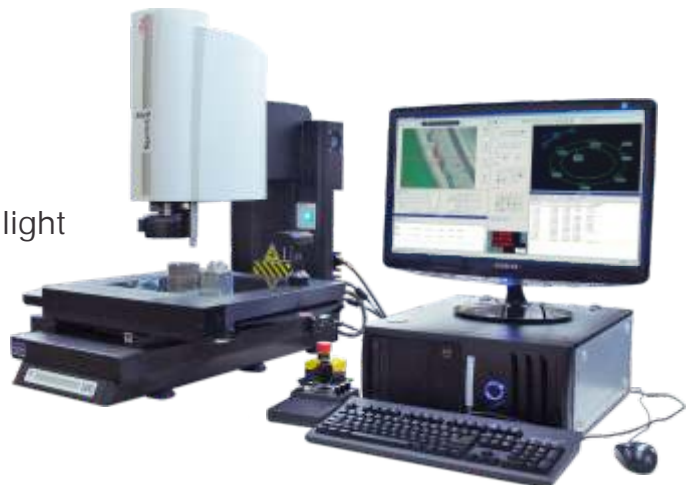
Models	X	Y	Z
SprintMVP 200	200	150	150
SprintMVP 250	300	150	150
SprintMVP 300	300	300	150

Software That Makes Measurements Simpler

QVI® Measure-X software makes it easy to measure parts or create automatic measurement routines. FeatureFinder® makes it easy to measure any feature in the video window instantly. If CAD files are available, just download the DXF and let Measure-X create the program for you. AutoCorrelate™ lets you stage and measure parts without fixturing.

Features & Benefits

- Rugged granite base & column
- Precision XYZ stages
- 3-axis joystick motion control
- 0.5 micron scales on XY & Z
- Megapixel Digital Color Camera
- LED backlight and coaxial surface light
- High intensity LED ring light
- Advanced image processing
- Automatic 3-axis measurements
- Optional TP-20 touch probe
- Optional QVI DRS™ laser

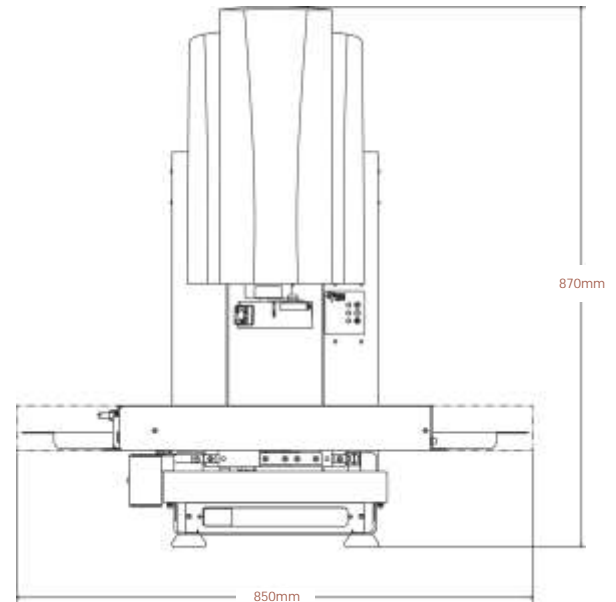


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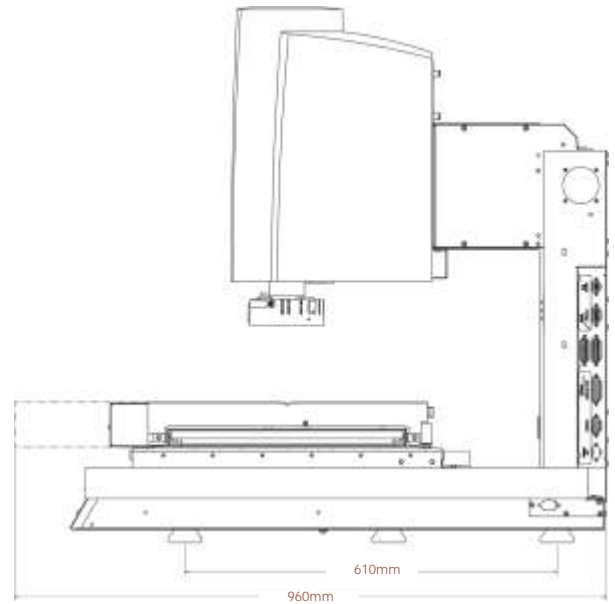
Features & Technical Specifications

Measuring Unit	200	250	300
XYZ Travel, mm	200 x 150 x 150	300 x 150 x 150	300 x 300 x 150
XYZ Travel, in	8 x 6 x 6	12 x 6 x 6	12 x 12 x 6
Weight Approximate, kg/lbs	110 / 243	113 / 250	136 / 300
System Dimensions, mm (XYZ)	625 x 665 x 870	850 x 665 x 870	850 x 960 x 870
System Dimensions, in (XYZ)	24.6 x 26 x 34	33.5 x 26 x 34	33.4 x 38 x 34

X-Y Stage	Precision, compound motorized X-Y stage with 3-axis joystick control.
Recommended Max Load	20 kg load for the 200 and 250 models 25 kg load for the 300 model
Scale Resolution (XYZ)	0.5µm (0.00002") Optional scale resolution (XYZ) 0.1 µm (0.000004")
Optics	Digital camera coupled to a motorized zoom lens, standard VectorLight™
Camera	Megapixel Digital Color Camera
Field of View	9.1mm low mag. to 0.6mm high mag. (diagonal)
Optional Auxiliary Lenses	0.5x, 0.75x, 1.5x, 2.0x
Magnification on 24" LCD Monitor	24X to 370X on-screen digital/optical magnification standard with full feature MX layout 12X to 1470X on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface
Illumination	LED VectorLight (six rings, seven sectors), LED backlight, LED surface (square-on), optional full LED VectorLight (six rings, eight sectors)
Controller	Windows® PC
Software	Measure-X® Metrology Software by QVI®. Optional MeasureFit® Plus, SmartReport® powered by QC-CALC™, CAD interface, and SmartFeature® software for FDA compliant environments
Temperature	20° ± 1° C (Rated), 15° - 30° C (Safe Operating)
Power	100-240 VAC, 50/60Hz, 1Ø, 500 W
Misc. Options	Manual or motorized rotary indexer, footswitch, dust cover, stage calibration grid
Sensor Options	TP20 touch probe, touch probe change rack, and QVI DRS™ laser
Measuring Accuracy	XY* $E_2 = (2.5 + 4L/1000) \mu\text{m}$ (SprintMVP 200) $E_2 = (2.5 + 6L/1000) \mu\text{m}$ (SprintMVP 250, 300) Z** $E_1 = (3.8 + 8L/1000) \mu\text{m}$ (All Models)



300 Model Shown



* Where L = Length in mm, with evenly distributed 5 kg load in the standard measuring plane. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. XY axis artifact: 25 intersection grid reticle in the standard measuring plane. The standard measuring plane is defined as a plane that is 25 mm above the worktable. All optical accuracy specifications at maximum zoom lens setting

**Z axis artifact: QVI step gage or master gage blocks.

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RAM

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Manufactured by:



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