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, high resolution zoom optics and color metrology cameras. Measure-X® metrology software is equally suited to simple walk-up measurements or fully automated routines.

SprintMVP 300 system
with optional DRS laser and touch probe

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
- Motorized joystick control
- 0.5 micron scales on XY & Z
- High resolution 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

Sprint MVP 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)	560 x 550 x 838	710 x 550 x 838	825 x 865 x 838
System Dimensions, in (XYZ)	22.25 x 21.75 x 32.5	28 x 21.75 x 32.5	32 x 34 x 32.5

X-Y Stage
Precision, compound motorized X-Y stage with 3-axis joystick control. 14 kg load capacity.

Scale Resolution (XYZ)
0.5µm (0.00002")
Optional scale resolution (XYZ) 0.1 µm (0.000004")

Optics
6.5:1 motorized zoom lens; working distance of 70mm with standard VectorLight™

Camera
High resolution color camera

Field of View
8.9mm low mag. to 1.8mm high mag. (diagonal)

Optional Auxiliary Lenses
0.5x, 0.75x, 1.5x, 2.0x

Magnification on 20" LCD Monitor
35x to 175x and up to 600X with auxiliary lenses and tubes

Illumination
LED VectorLight (six rings, seven sectors), LED backlight, LED surface (square-on), optional full LED VectorLight (six rings, eight sectors)

Controller Minimum Specs
Quad-Core processor, 4 GB RAM, 160 GB hard drive, CD-ROM, parallel, serial and USB ports, and Windows™ Operating System

Software
Measure-X® Metrology Software by QVI®. Optional MeasureFit® Plus, SmartReport® powered by QC-CALC™, CAD interface, and FDA compliant SmartFeature®

Temperature
20° ± 1° C (Rated), 15° - 30° C (Safe Operating)

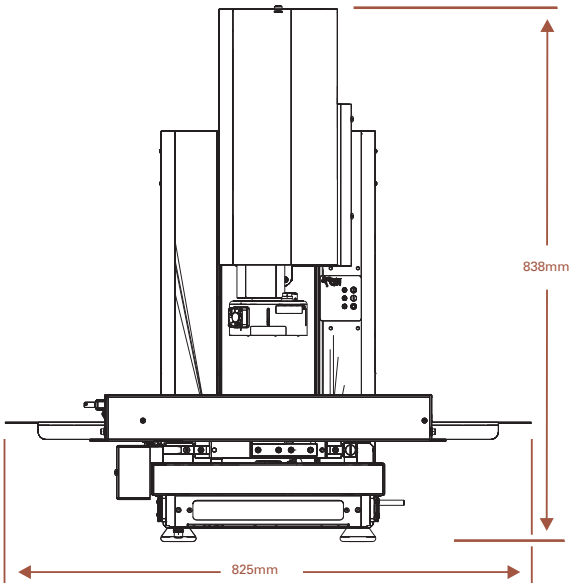
Power
100-240 VAC, 50/60Hz, 1Ø, 700 W

Misc. Options
Manual or motorized rotary indexer, footswitch, dust cover, stage calibration grid

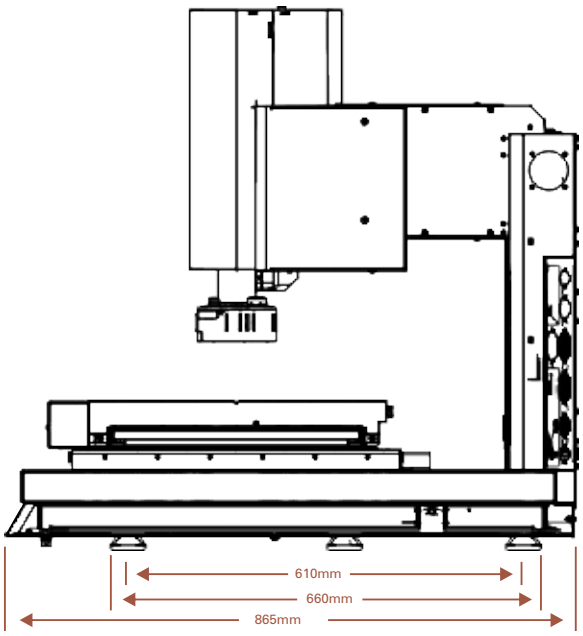
Sensor Options
TP20 touch probe, touch probe change rack, and QVI DRS™ laser

Measuring Accuracy
XY* E_2 = (2.5 + 4L/1000) µm (SprintMVP 200)
E_2 = (2.5 + 6L/1000) µm (SprintMVP 250, 300)

Z** E_1 = (3.8 + 8L/1000) µm (All Models)



300 Model Shown



* Where L = Length in mm, with evenly distributed 10 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.

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

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