



# Sprint MVP

A Large Transport Three-Axis Measurement System

400 / 600 / 700

## Productivity on the Shop Floor

SprintMVP™ 400 is a large capacity, fully automatic, 3 axis dimensional measuring system. A choice of four measuring ranges is available to accommodate a wide range of parts and fixtures. SprintMVP features high precision stages and optics, and a high resolution color camera for crystal clear imaging.



## SprintMVP™ 400 Measurement Ranges

Models	X	Y	Z
SprintMVP 400	450	450	150
SprintMVP 400 (With Extended Z-axis)	450	450	300
SprintMVP 600	450	610	150
SprintMVP 700	610	610	150

## Features

- Massive granite base for stability
- Precision compound XY stages
- 0.5 micron scales on XY&Z standard
- Fully automatic - 3 axis joystick control
- Versatile Measure-X® software

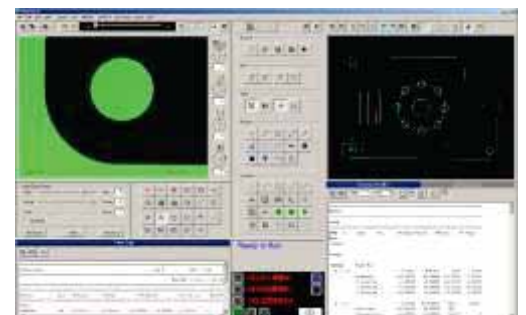
SprintMVP™ 400 system

## Optics

- Motorized zoom lens system with 34X to 176X magnification
- High resolution color camera
- LED backlight, top light and high intensity ring light standard
- Optional QVI megapixel digital color camera with up to 20X digital-optical zoom

## Options

- Renishaw touchprobe & change rack
- DRS Laser
- Rotary Indexer



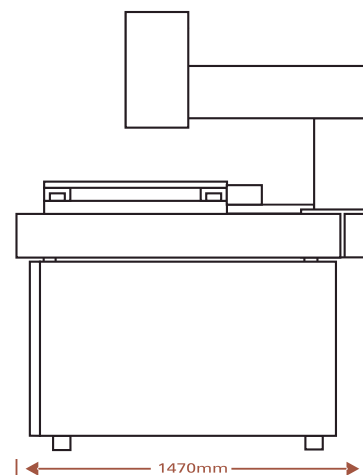
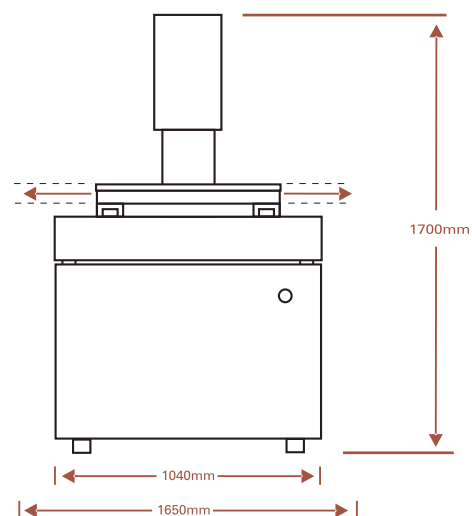
Powerful Measure-X® Metrology Software

# Sprint MVP Features & Technical Specifications

Measuring Unit	400	600	700
XYZ Travel, mm.	450 x 450 x 150 (Optional Extended Z- 300mm)	450 x 610 x 150	610 x 610 x 150
XYZ Travel, in.	18 x 18 x 6 (Optional Extended Z- 12in.)	18 x 24 x 6	24 x 24 x 6
System Dimensions, mm.	1040 x 1220 x 1700	1040 x 1470 x 1700	1040 x 1470 x 1700
System Dimensions, in.	41 x 58 x 67	41 x 58 x 67	41 x 58 x 67
System weight (kg/lbs)	1300 / 2866	1300 / 2866	1300 / 2866
Shipping Weight (kg/lbs)	1346 / 2967	1400 / 3086	1400 / 3086

<b>Stage</b>	Precision compound X-Y stage with 3-axis joystick control
<b>Scale resolution (XYZ)</b>	0.5 $\mu\text{m}$ (0.00002") Optional scale resolution (XYZ) 0.1 $\mu\text{m}$ (0.000004")
<b>Optics</b>	6.5:1 motorized zoom lens, working distance of 70mm with standard VectorLight. Optional QVI digital, megapixel color camera with 12:1 digital-optical zoom. User configurable to 20:1 zoom.
<b>Camera</b>	High resolution color CCD color camera Optional QVI megapixel digital color camera
<b>Field of View</b>	8.9mm low mag. to 1.8mm high mag. (Diagonal)
<b>Optional auxiliary lens</b>	0.5X, 0.75X, 1.5X, 2.0X
<b>Illumination</b>	LED VectorLight (six rings, seven sectors), LED back light, LED surface (square-on), optional full LED VectorLight (six rings,eight sectors)
<b>Controller (Minimum specs)</b>	Intel® Quad-Core processor, 4 GB RAM, 160 GB hard drive, CD-ROM, Parallel Serial and USB ports, on board 10/100 LAN and Windows™ 7 Operating System
<b>Software</b>	Measure-X® Metrology Software by QVI, optional MeasureFit®, SmartReport® Powered by QC Calc™. CAD interface and FDA compliant SmartFeature®
<b>Temperature</b>	20° ± 1° C (Rated), 15° - 30° C (Safe Operating)
<b>Power</b>	100-240 VAC (±5%), 50/60 Hz, 1Ø, 300 W
<b>Worktable</b>	30 Kg load capacity, optional motorized rotary, footswitch, and calibration grid
<b>Sensor Options</b>	TP20 or TP200 touch probe, touch probe change rack, and QVI DRS laser
<b>XY accuracy*</b>	$E_2 = (3.0 + 8L/1000) \mu\text{m}$ (MVP 400) $E_2 = (3.5 + 8L/1000) \mu\text{m}$ (MVP 600) $E_2 = (10 + 8L/1000) \mu\text{m}$ (MVP 700)
<b>Z measuring accuracy*</b>	$E_1 = (3.5 + 8L/1000) \mu\text{m}$ (All Models) $E_1 = (2.5 + 8L/1000) \mu\text{m}$ (MVP 400 & 600 with optional touch probe or laser)

\*Where L = length in mm. XY axis artifact: QVI Calibration Reticle P/N 640133 positioned in the center of the FOV in the standard measuring plane. The standard measuring plane is defined as a plane 5 mm above the maximum height of the worktable.



Optical Gaging Products Inc.

Manufactured by:



Rochester, New York, USA