SprintMVP™ 400|600

SprintMVP 400 and 600 are large capacity, fully automatic, 3-axis dimensional measuring systems featuring high precision and capacity in a compact footprint.

- Motorized zoom lens optics with high resolution digital color camera
- Optional 300 mm Z-axis for extended measuring volume on SprintMVP 400 model
- Full function Measure-X® metrology software for fully automatic routines

	SprintMVP 400 | 600 Measuring Ranges (mm)			
Models		X	Y	Z
	400	450	450	150
	400 w/ Ext. Z-axis	450	450	300
	600	610	450	150

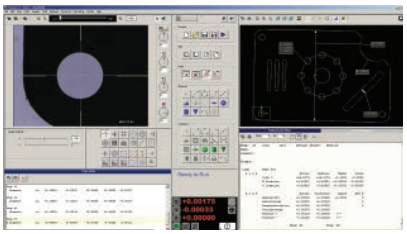
Large Capacity 3-Axis Measurement Systems

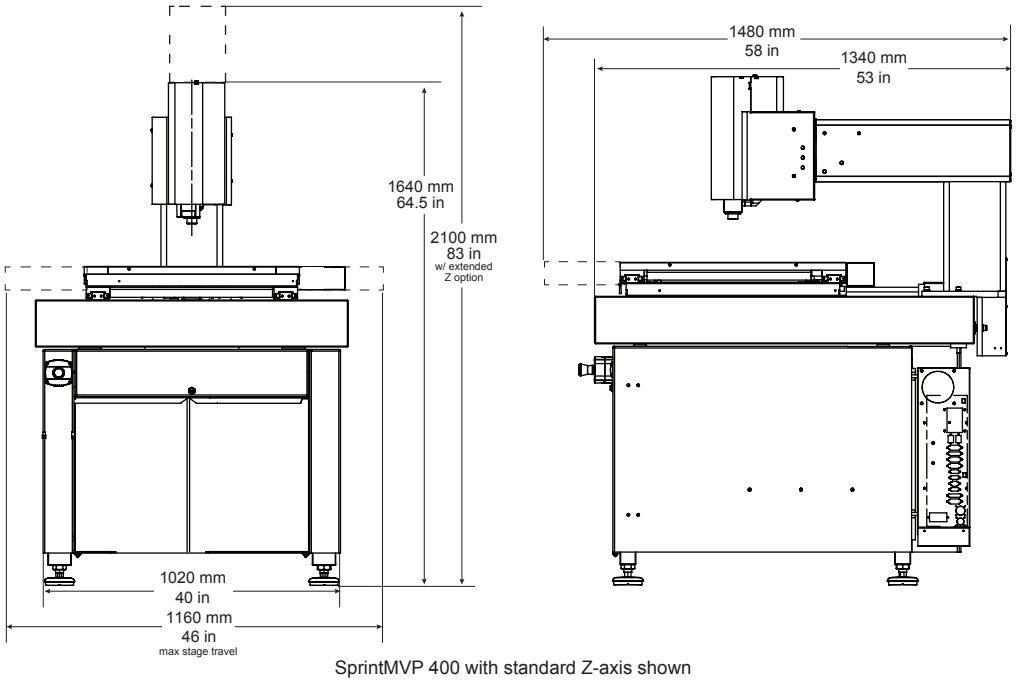
SprintMVP 400 model shown with extended Z travel

SprintMVP™ 400|600

Measurement Software

Measure-X® is the world's most popular metrology software. Measure-X makes it easy for QVI SprintMVP to accurately measure fine features that require multi-step measurement routines, automatically combining autofocus, edge detection, programmable lighting, laser scanning and touch probing.





SprintMVP 400 with standard Z-axis shown

System Weight: 1,215 kg

		Standard		Optional
X, Y, Z Travel	**400**	450 x 450 x 150 mm		450 x 450 x 300 mm
	600	610 x 450 x 150 mm		
X, Y, Z Scale Resolution		0.5 µm		
Stage Drive System		Precision, compound motorized XY stage and linear Z stage with 3-axis joystick control		
Max Recommended Stage Load		30 kg		
Working Distance		62 mm (with standard VectorLight™)		
Imaging Optics		6.5:1, 10 position motorized zoom lens		
Lens Attachments				0.5X, 0.75X, 1.5X, 2.0X
Field of View *Highest available magnification		Low Mag	High Mag	
		9.1 mm diagonal	0.6 mm diagonal	
Metrology Camera		QVI Digital, Megapixel Color Metrology Camera		
Magnification on 24" LCD Monitor		24x to 370x on-screen digital/optical magnification standard with full feature Measure-X layout		12x to 740x on-screen digital/optical magnification with optional add-on lenses and dual monitor user interface
Illumination		LED VectorLight™ SP programmable ring light with 6 rings and 7 sectors, LED backlight, LED square-on surface light		LED VectorLight™ SF programmable ring light with 6 rings and 8 sectors and LED square-on surface light (reduced working clearance)
Sensor Options				Renishaw touch probe and change rack, QVI DRS laser
Controller *Controller configuration subject to change without notice.		QVI standard system controller with networking and communication ports*		Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse
Software		Measure-X		MeasureFit®, SmartReport®, CAD interface, SmartFeature® software for FDA compliant environments
Miscellaneous Options				Rotary indexer, digital I/O capability
Rated Environment		Temperature 18-22° C, stable to ±1° C; 30-80% humidity; vibration <0.001g below 15 Hz		
Power		100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 700W		
XY Area Accuracy [1,2,3,4,5,6]		E_2: (3.0 + 8L/1000) µm (SprintMVP 400) E_2: (3.5 + 8L/1000) µm (SprintMVP 600)		
Z Linear Accuracy [1,2,3,4,5,6]		E_1: (5.0 + 8L/1000) µm (with standard optics) (All Models)		E_1: (4.0 + 8L/1000) µm (with 2.0X lens attachment)

1. Where L = Measurement length in mm. | 2. With evenly distributed 5 kg load in the standard measuring plane. Depending on load distribution, accuracy at maximum recommended load may be less than standard accuracy. | 3. All optical accuracy specifications at maximum optical magnification at 1:1 digital pixel resolution. | 4. All specifications apply to a thermally stable system operated in the rated environment. | 5. Maximum rate of temperature change: 1° C per hour. Maximum vertical temperature gradient: 1°C per meter. | 6. Calibration artifacts are described in QVI publication number 790762.

QVI ogp **Confidence.** When Results Matter.™

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