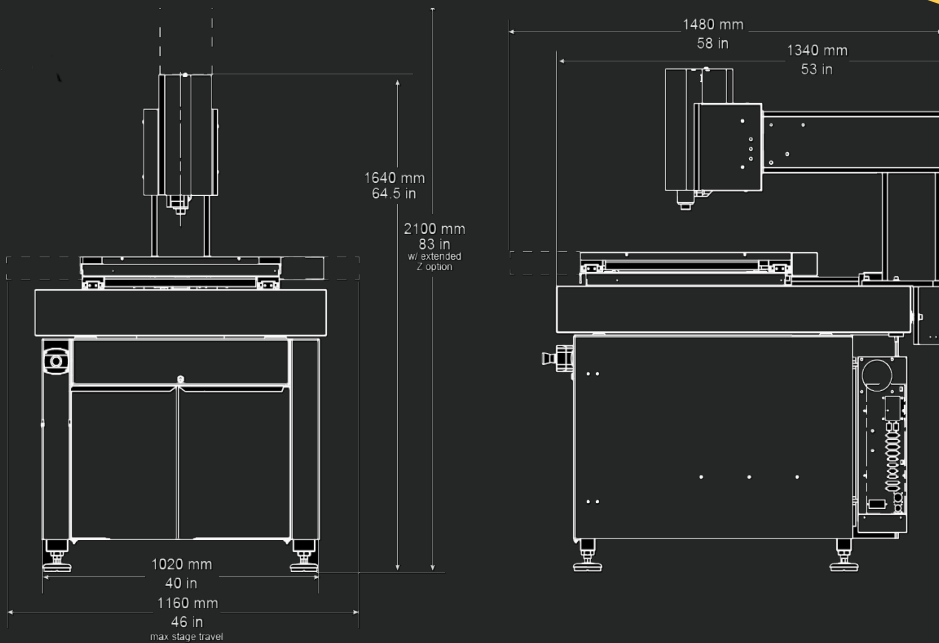


SprintMVP 400 and 600 are large capacity, fully automatic, 3-axis dimensional measuring systems featuring high precision and capacity in a compact footprint.

- 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



Large Capacity 3-Axis Measurement Systems



System Weight: 1,215 kg

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



Technical data SprintMVP 400 | 600

		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 μ m	
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 <small>*Highest available magnification</small>	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 <small>*Controller configuration subject to change without notice.</small>		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 $\pm 1^\circ$ 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 _x : (3.0 + 8L/1000) μ m (SprintMVP 400) E _y : (3.5 + 8L/1000) μ m (SprintMVP 600)	
Z Linear Accuracy ^{1,2,3,4,5,6}		E _z : (5.0 + 8L/1000) μ m (with standard optics) (All Models)	E _z : (4.0 + 8L/1000) μ m (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.