QVI® SprintMVP™ 200|250|300

Automatic Benchtop Measuring Machines

SprintMVP benchtop systems offer fully automatic measurement with high performance and affordability. Three benchtop SprintMVP models are available to suit your measurement needs.

- Granite base and column for stability with precision CNC X,Y and Z stages

- 3-axis joystick and CNC motion control

- Motorized zoom lens optics with high resolution digital color camera

- Optional 250mm extended Z axis

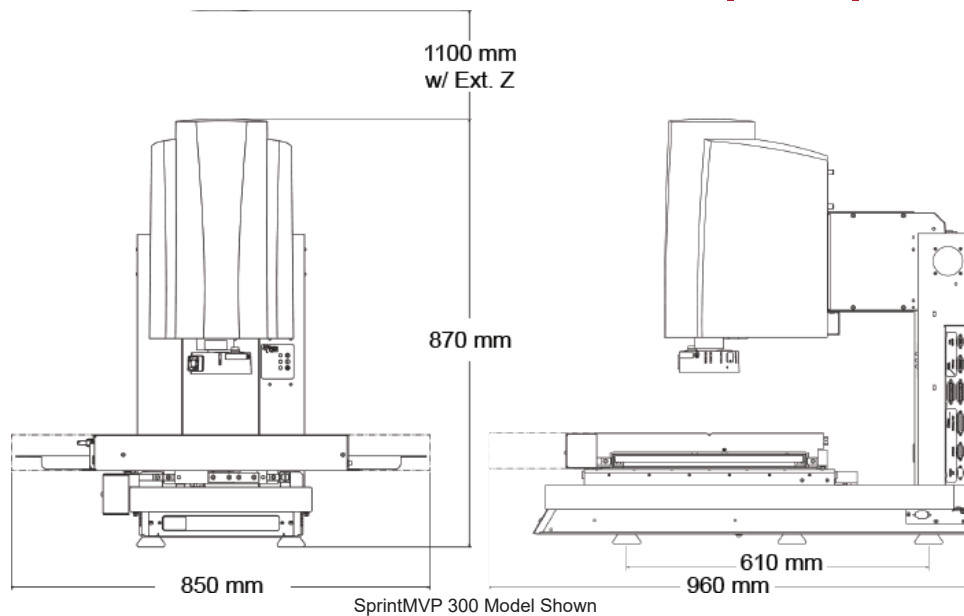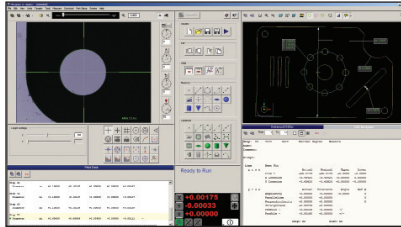| Models	Standard Measuring Range (mm)		
	X	**Y**	**Z**
200	200	150	150
250	300	150	150
300	300	300	150

SprintMVP 250 model shown

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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.

1100 mm w/ Ext. Z

870 mm

850 mm

610 mm

960 mm

SprintMVP 300 Model Shown

System Weight: 200 Model - 130 kg, 250 Model - 130 kg, 300 Model - 180 kg

		Standard	Optional
X, Y, Z Travel	200	200 x 150 x 150 mm	250 mm Extended Z Axis
	250	300 x 150 x 150 mm	250 mm Extended Z Axis
	300	300 x 300 x 150 mm	250 mm Extended Z Axis
X, Y, Z Scale Resolution		0.5 μm	0.1 μm
Stage Drive System		Precision, motorized compound XY stage and linear Z stage with 3-axis joystick control	
Max Recommended Stage Load		200, 250 Models - 20 kg 300 Model - 25 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			Manual or motorized rotary indexer, NIST traceable calibration artifact, dust cover
Rated Environment		Temperature: 18-22 °C, stable to ±1 °C; Relative Humidity: 30-80%; Vibration: <0.001g below 15 Hz	
Power		100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 500W	
XY Area Accuracy		E_2: (2.5 + 4L/1000) μm [1,2,3,4,5,6,7] (200 Model) E_2: (2.5 + 6L/1000) μm [1,2,3,4,5,6,7] (250, 300 Models)	
Z Linear Accuracy		E_1: (5.0 + 8L/1000) μm [1,2,4,5,6,7] (with standard optics) (All Models)	E_1: (4.0 + 8L/1000) μm [1,2,4,5,6,7] (with 2.0X lens attachment)
Notes		1. Where L = length in mm. 2. With evenly distributed load up to 5 kg. Depending on load distribution, accuracy at maximum rated load may be less than standard accuracy. 3. Measured in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. 4. All optical accuracy specificatons at maximum optical magnification at 1:1 digital pixel resolution. 5. All specifications apply to a thermally stable system operated in the rated environment. 6. Maximum rate of temperature change 1 °C/hour. 7. E_1 Z axis linear and E_2 XY area accuracy standards are described in QVI Publication Number 790762.	

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