



**SprintMVP™ 250|300**

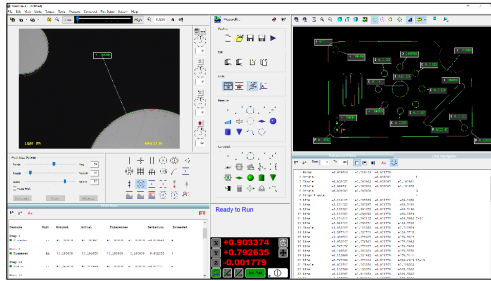
**SprintMVP** benchtop systems quickly add value to any manufacturing process. These automatic dimensional measurement systems with precision optics excel at measuring small parts with fine feature. SprintMVP 250|300 includes:

- **High Performance Optics –** High resolution, motorized zoom lens optics, digital color megapixel metrology camera with 3:1 digital zoom and configurable objective lenses for 1.0x to 8.0x optical magnification range.
- **Sturdy Design –** Solid granite base and column for stability with precision CNC X, Y and Z stages. High speed motorized stages and precision scales create a stable foundation for the high-resolution optics. Three-axis joystick and CNC motion control to move parts and optics.

## **Automatic Benchtop Video Measurement Machine Delivering High Productivity**

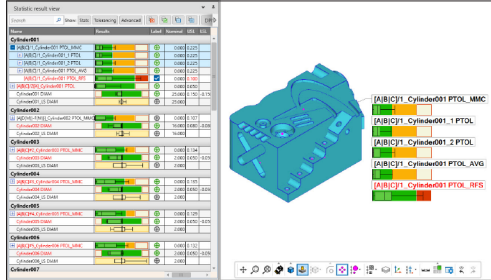


Shown with optional DRS™ Laser and Touch Probe



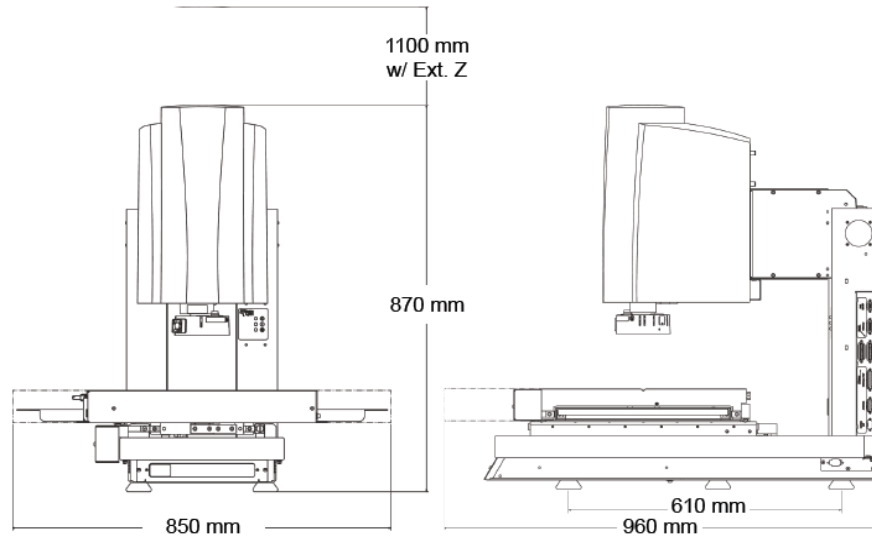
## Measurement Software

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



## Optional OGP® EVOLVE® SPC Software

OGP EVOLVE SPC is a full statistical process control software that can be used as either a standalone product with existing measuring systems or integrated into the OGP EVOLVE Suite.



SprintMVP 300 Model Shown

System Weight:	Shipping Weight:
250 Model: 130 kg	250 Model: 255 kg
300 Model: 180 kg	300 Model: 300 kg

		Standard	Optional	
XYZ Travel	250	300 x 150 x 150 mm	250 mm Extended Z Axis	
	300	300 x 300 x 150 mm	250 mm Extended Z Axis	
XYZ Scale Resolution		0.5 µm		
Drive System		Precision, motorized compound XY stage and linear Z stage with 3-axis joystick control		
Max Recommended Stage Load		250 Model: 20 kg 300 Model: 25 kg		
Optics		6.5:1, 10 position motorized zoom lens	Lens Attachments: 0.5x, 0.75x, 1.5X, 2.0x	
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)	
Metrology Camera		Color digital metrology camera		
Field of View <small>*Uses optical and digital zoom</small>	Low Mag	High Mag*	Low Mag (0.5x)	High Mag* (2.0x)
	7.3 mm x 5.5 mm	0.5 mm x 0.4 mm	14.6 mm x 11.0 mm	0.27 mm x 0.20 mm
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	
Working Distance		62 mm (with standard VectorLight)	Up to 133 mm (0.5x lens attachment)	
Sensor Options		Touch probe and change rack, DRS® Laser		
Software		Measure-X	Productivity software: MeasureFit® Plus, CAD interface, OGP EVOLVE Suite (Design, OGP EVOLVE SPC, Manufacturing, SmartProfile®) Offline software: Measure-X Offline	
System Controller		Standard system controller with networking and communication ports	Single flat panel LCD monitor, or dual flat panel LCD monitors; keyboard, mouse	
Rotary Options		Motorized rotary indexer		
Power Requirements		100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 500W		
Safe Operating Environment		Temperature 15-30 °C, non-condensing		
Rated Environment		Temperature 18-22 °C, stable to ±1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C / meter; 30-80% humidity; vibration <0.001g below 15 Hz		
XY Area Accuracy		E <sub>2</sub> : (2.5 + 6L/1000) µm		
Z Linear Accuracy		E <sub>1</sub> : (5.0 + 8L/1000) µm	E <sub>1</sub> : (4.0 + 8L/1000) µm (with 2.0x lens attachment)	

Accuracy is evaluated with a QVI verification procedure where "L" is measured length in millimeters. Specifications apply within the rated environment. Standard optical specifications apply at the maximum optical magnification of the standard configuration. XY Accuracy applies with an evenly distributed load up to 5 kg in the standard measuring plane. The standard measuring plane is defined as a plane that is within 25 mm of the worktable surface. Depending on load distribution, accuracy at maximum payload may be less than standard.



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