



**SprintMVP 400 and 600** systems feature high precision and large capacity in a compact footprint. The systems' heavy-duty construction and granite bases make them ideal for use in harsh shop-floor conditions. SprintMVP 400 and 600 systems offer:

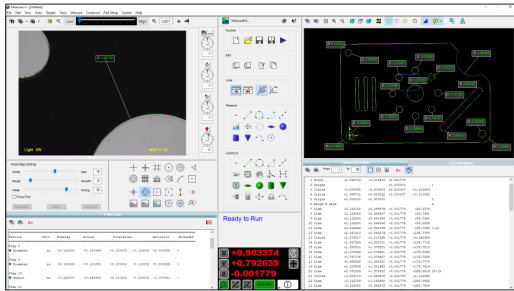
- Motorized 6.5:1 zoom optical system and a digital megapixel color camera.
- 3-axis joystick and a precision compound stage allow for CNC motion control.
- All LED coaxial, substage profile, and ring light illumination is standard.

## Fully Automatic, 3-Axis Dimensional Video Measuring System

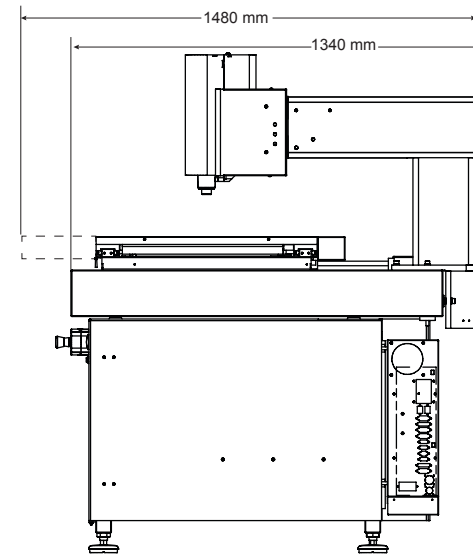
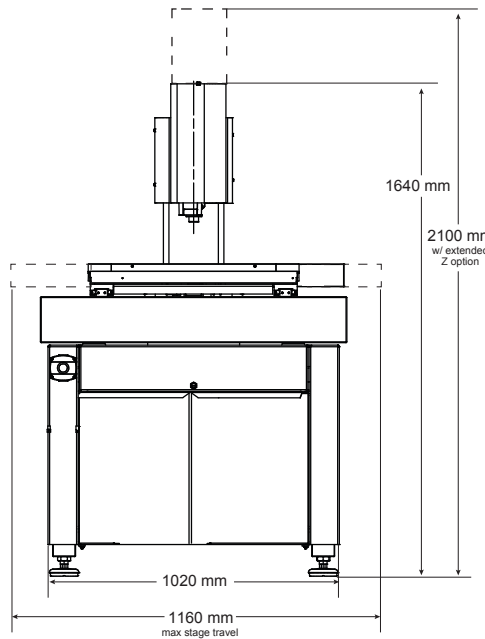


SprintMVP 400 model shown with extended Z travel.

# SprintMVP™ 400|600



Full feature Measure-X® software offers 2D CAD program generation and general-purpose dimensional measurement with multi-sensor and rotary axis support.



System Weight: 400 Model: 1,215 kg 600 Model: 1,330 kg  
Shipping Weight: 400 Model: 1,345 kg 600 Model: 1,500 kg

	Standard		Optional	
XYZ Travel	400: 450 x 450 x 150 mm 600: 610 x 450 x 150 mm		Extended Z axis, 300 mm (400 only)	
XYZ Scale Resolution	0.5 µm			
Drive System	DC servo with 4-axis control (X, Y, Z, zoom); with 3-axis joystick controller			
Worktable	Hardcoat anodized, with fixture holes, removable stage glass, 30 kg recommended max payload			
Rotary Axis			Miniature Servo Rotary (MSR™)	
Optics	Motorized zoom; 1.0x lens		Lens Attachments for 1.0x Lens: 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	Digital, Megapixel Color 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			Tactile: TP20 or TP200 Touch Probe Non-Contact: DRS™ Laser	
Software	Measure-X metrology software		Productivity software: MeasureFit® Plus, OGP® EVOLVE® SmartProfile®, EVOLVE SPC Offline software: Measure-X	
System Controller	Windows based, with up-to-date processor and onboard networking/communication ports			
Controller Options			24" flat panel LCD monitor, or dual 24" flat panel LCD monitors, keyboard, 3-button mouse (or user supplied)	
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1 phase, 700W			
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	SprintMVP 400: E <sub>2</sub> = (3.0 + 8L/1000) µm SprintMVP 600: E <sub>2</sub> = (3.5 + 8L/1000) µm			
Z Linear Accuracy	E <sub>z</sub> = (5.0 + 8L/1000) µm		E <sub>z</sub> = (4.0 + 8L/1000) µm (requires optional 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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