



SPARK

Family of Products



**Total Quality
Systems Inc.**

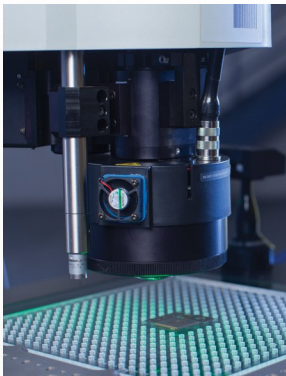
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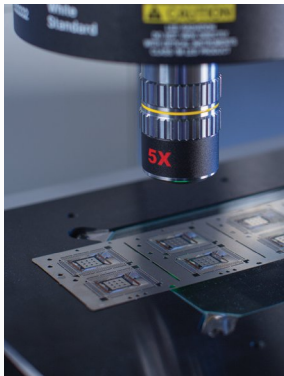
Precision Measurement Technology

High performance dimensional measuring systems for manufacturing quality control.

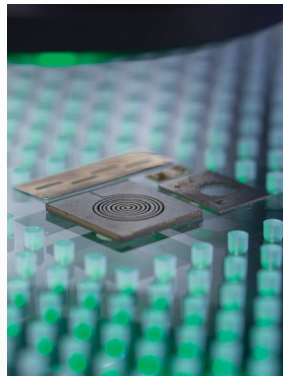
Spark and **SparkMVP** systems combine compact and reliable measurement platforms with a high resolution fixed lens optical system to provide the precision needed for measurement of very small parts and features. Interchangeable lenses let you configure the magnification and field of view size for optimal performance on each measurement application.



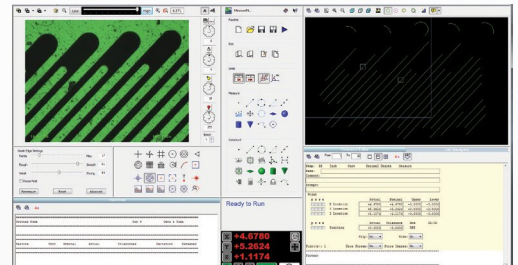
High resolution fixed lens optical system.



Interchangeable objective lenses for configurable magnification and field of view size.



Three standard light sources for optimal illumination of fine features.



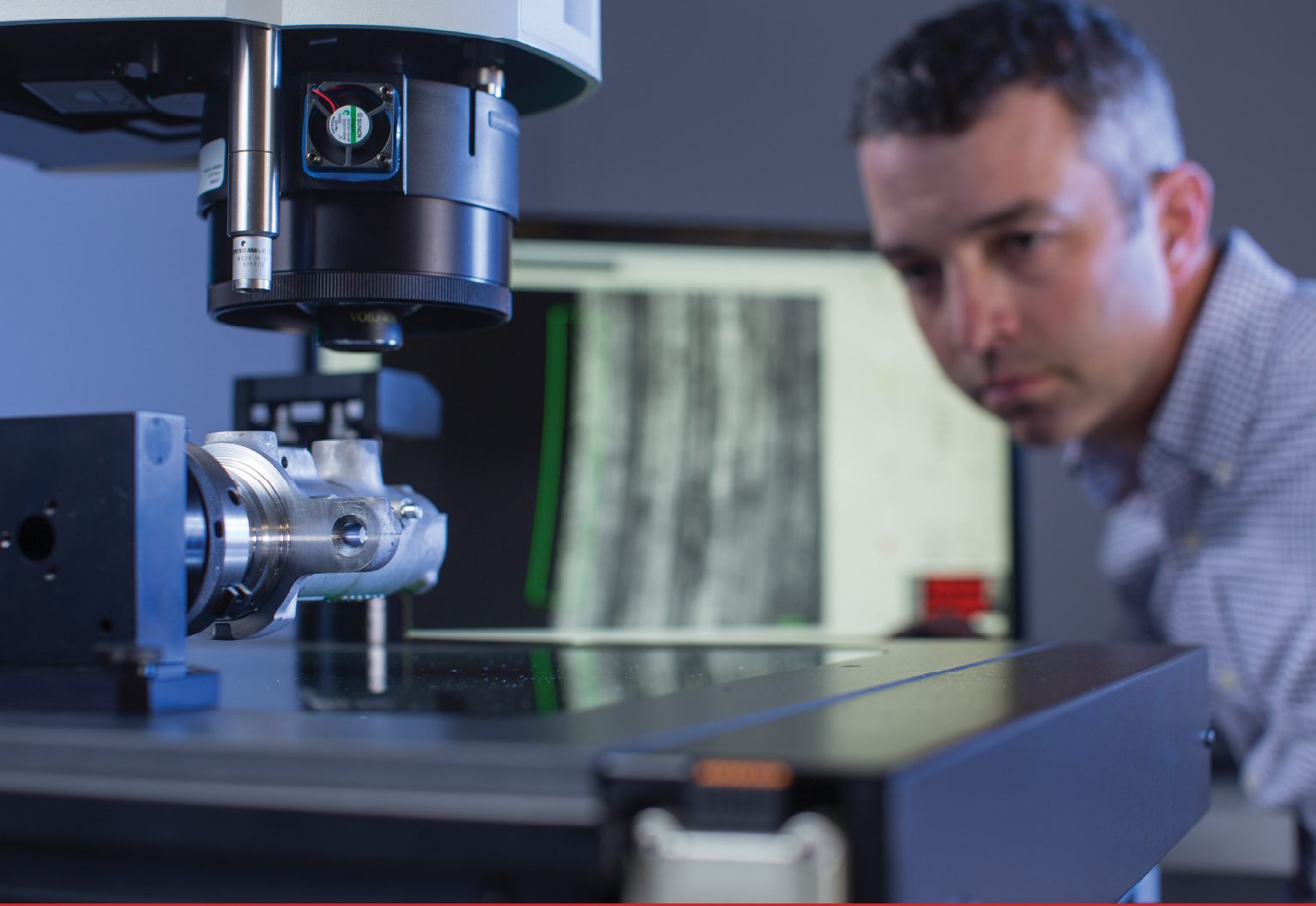
QVI® Measure-X® - The world's most popular metrology software.

Spark

Spark systems are high performance, semi-automatic dimensional measurement systems. Spark systems offer rugged construction and easy-to-operate manual stages that can be used right on the shop floor for in-process inspections. Measure-X software performs all measurements automatically – prompting the operator to move features into view.

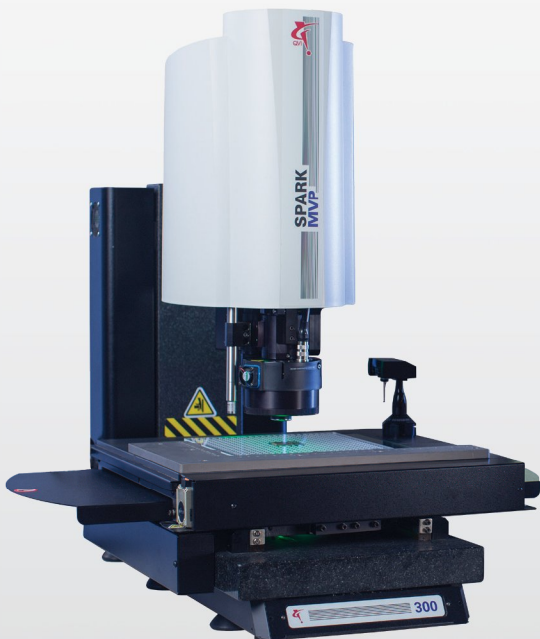


		Standard		Optional	
Stage Travel (X,Y,Z)	Model				
	150	150 x 75 x 125 mm			
	200	200 x 150 x 150 mm			
	250	300 x 150 x 150 mm			
	300	300 x 300 x 150 mm			
Stage Drive System		Manual			
Imaging Optics		Fixed lens optics with factory configurable back tube and field interchangeable front lens options			
Front Lens (Field Interchangeable)		Lens	FOV (mm)	Lens	FOV (mm)
		1.0X	6.46 x 4.82	2.5X	2.58 x 1.93
				5.0X	1.29 x 0.96
Back Tube (Factory Installed)		1X		2X	
Metrology Camera		3 megapixel digital color camera with Zoom Anywhere™ digital zoom		5 megapixel digital black and white camera with Zoom Anywhere™ digital zoom	
Illumination		All LED coaxial surface light, backlight, and ring light		Vu-Light™, high intensity white LED, 6 ring, 8 sector ring light	

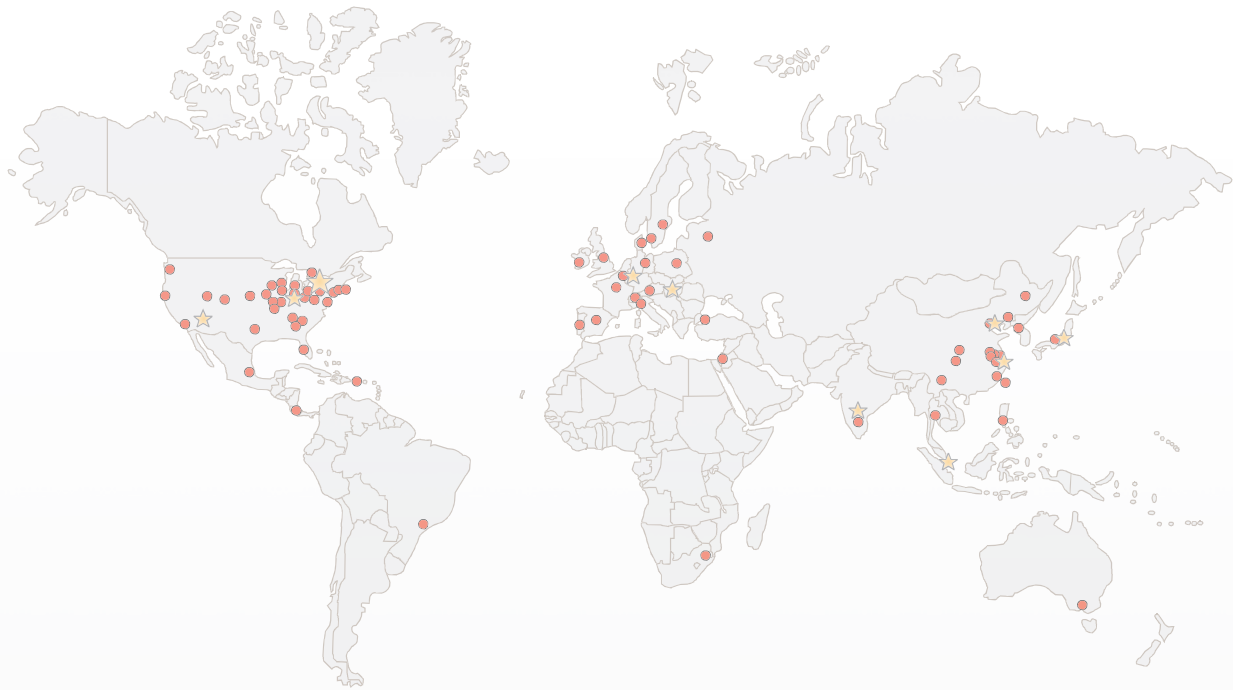


SparkMVP

SparkMVP systems offer fully automatic 3-axis CNC operation. Solid granite bases, high speed motorized stages and precision scales create a stable foundation for the high resolution optics. Optional TTL laser, focus grid projector and touch probe extend SparkMVP's capabilities to a broad range of applications.



		Standard		Optional	
Stage Travel (X,Y,Z)	Model				
	200	200 x 150 x 150 mm			
	250	300 x 150 x 150 mm			
	300	300 x 300 x 150 mm			
Stage Drive System		Stepper motor X,Y; DC Servo motor Z with joystick control			
Imaging Optics		Fixed lens optics with factory configurable back tube and field interchangeable front lens options			
Front Lens (Field Interchangeable)		Lens	FOV (mm)	Lens	FOV (mm)
		1.0X	6.46 x 4.82	2.5X	2.58 x 1.93
				5.0X	1.29 x 0.96
Back Tube (Factory Installed)		1X		2X	
Metrology Camera		3 megapixel digital color camera with Zoom Anywhere™ digital zoom		5 megapixel digital black and white camera with Zoom Anywhere™ digital zoom	
Illumination		All LED coaxial surface light, backlight, and ring light		Vu-Light™, high intensity white LED, 6 ring, 8 sector ring light; Grid focus	
Sensors				Through-the-lens (TTL) laser; TP 20 touch probe	



QUALITY VISION INTERNATIONAL – Precision for People®

Quality Vision International (QVI®) is the world's largest vision metrology company. Founded in 1945, QVI is the world leader in optical, electronic and software technologies for vision and multisensor measuring systems.

Precision for People is more than just our slogan. It's our commitment to delivering our worldwide customers precision metrology systems, designed with the people who use them in mind. Precision for People - it's what we stand for.

