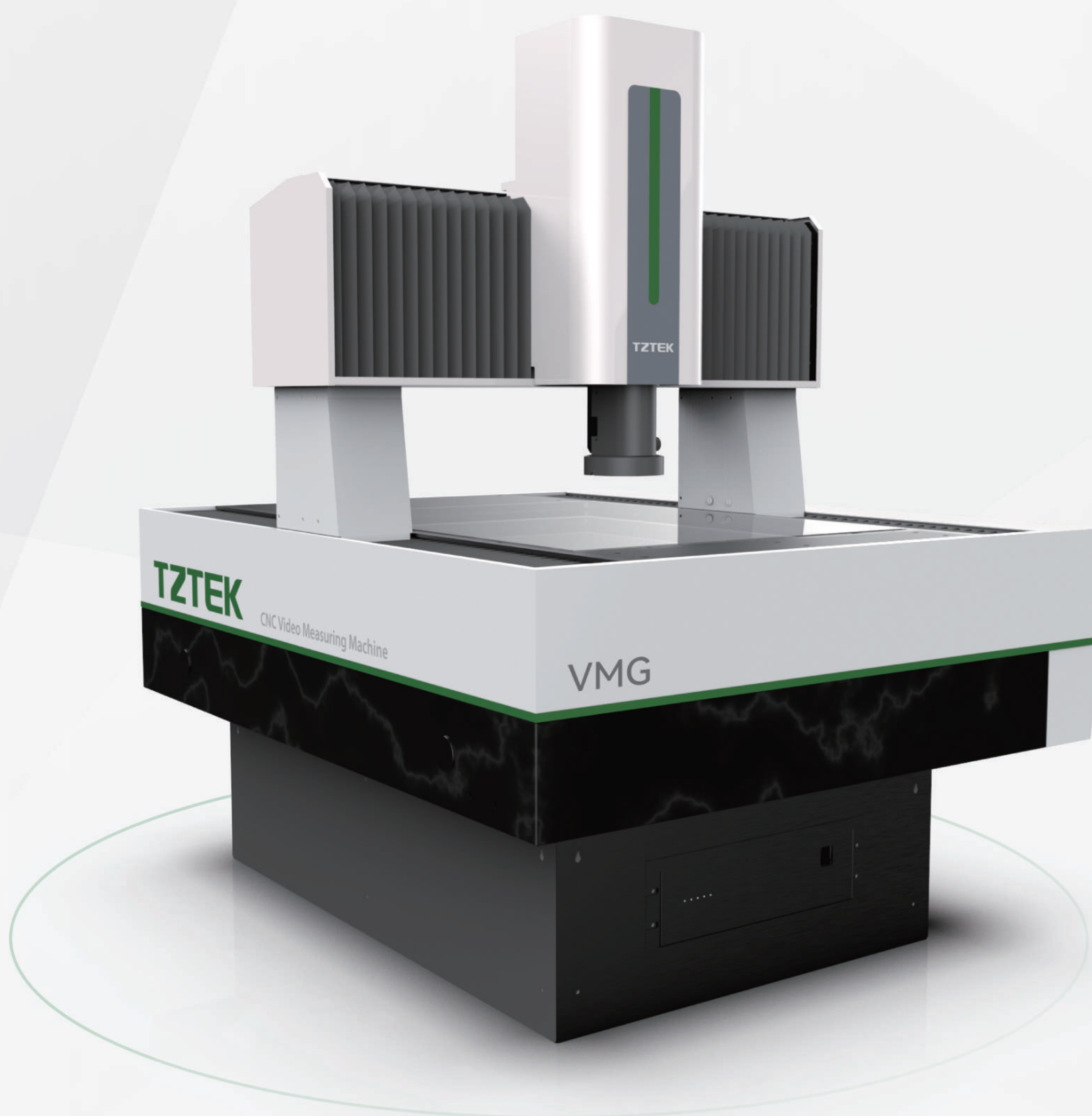


VMG Gantry Video Measuring Machine

VMG Gantry Video Measuring Machine is designed especially for large dimensions, VMG adopts mobile bridge structure, the most advanced design concept and the strictest production control which ensure the accuracy and stability of the machines.



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Features

- Auto zoom lens with magnification 25-209×
- Optional auto zoom lens with magnification 25-338×
- Programmable 6 rings 8 segments surface light and profile light, available illumination configuration to meet different applications
- Flying-snap function(optional) , increasing measurement efficiency 5-10 times
- Quick-focusing function, increasing measurement efficiency
- Gantry mobile bridge structure with large travel range enables silent measurement, efficiency and safety
- Joystick is provided for easy operation
- Granite structure provides high precision and stability
- Acceleration of XY stage is 1000mm/s²
- Optional chromatic confocal sensor, contact probe, coaxial light, turntable, manual/automatic pressure plate etc.

Specification

Model		VMG452	VMG682	VMG8102	VMG10122	VMG12162
Travel (mm) ^[1]		400×500×250	600×800×250	800×1000×250	1000×1200×250	1200×1600×250
External Dimensions (mm)		1255×1532×1747	1455×1732×1747	1715×2212×1777	1915×2412×1777	2115×2812×1777
Mass (kg)		1500	1900	2900	3650	4680
Max. Stage Loading (kg)		80			60	
Accuracy (μm) ^[2]	X/Y linear	E1=(2.0+L/200)			E1=(3.2+L/200)	
	XY area	E2=(2.2+L/200)			E2=(3.5+L/200)	
	Z linear	E1= (5.0+L/200)				
		E1= (2.8+L/200) (Optional 13.3:1 lens)				
Optics		8.3:1 continuous zooming(Optional 13.3:1 continuous zooming)				
Magnification ^[3]		25-209×				
Illumination	Profile	LED cold light, 256 brightness adjustable				
	Surface	Programmable 6 rings 8 segments, each segment independently controlled, 256 brightness adjustable (Movable surface light is for option)				
	Coaxial ^[4]	Optional, LED cold light, 256 brightness adjustable				
Camera		High definition industrial color digital camera				
Drive system		4-aixs CNC DC servo system				
Speed (mm/s)	XY	500				
	Z	100				
Guide		3-axis precise linear guide				
Scale		0.1 μm				
The Min Unit (μm)		0.1				
Image Processing		Advanced TZTEK image processing method: 256 gray level, 20:1 sub-pixel processing technique				
Software		Vispec (VMG Version)				
Environment		Temperature 20°C±2°C, Humidity30-80%				
		Vibration<0.002 g, below 15 Hz				
Power		200-240 vac, 50/60 Hz,1 phase, 700 W				

[1] The measurement range of Z-axis is 210 mm, it can add to 400 mm.Customizable travel range 16202 12202

[2] L is the measured length in mm, determined by TZTEK's inspection method.

[3] Magnification is approximate and depends on the size and resolution of the monitor.

[4] Optional coaxial light. The specification is same as profile lighting

0.5× or 1.5× or 2.0×additional lens are available for option with the magnification 12-104× or 37-313×or 50-418×.