



B.N.C.TOOLING Co.,Ltd.

BNCTOOLING.COM
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



Vision Measuring Machine

MVA Series Cantilevered Fully Auto Vision Measuring Machine

MVA-322A

Model	MVA-322A
Code#	524-360A
Accuracy	XY-axis: $\leq 2.2+L/200$ Z-axis: $\leq 5+L/200$
Standard	GBT 24762, ISO10360
Certificate	Gost CE

MVA series is a cantilevered high accuracy fully automatic vision measuring machine developed for GD&T measurement, with three axis automatic control. It equipped with Automatic focusing, automatic lighting control, optimization of hardware and software configuration to achieve the measurement of linear and geometrical dimensions.



Product Characteristics

- XYZ three axis CNC automatic control and accurate positioning;
- Granite base and column, good stability;
- Precision linear guide, grinding ball screw and AC servo motor etc., to ensure the precision and stability of the motion system;
- Imported 0.5 um high precision linear scale to ensure the positioning accuracy and measurement accuracy of the system;
- High resolution digital camera to meet the needs of clear observation and accurate measurement;
- 6.5x high-resolution click zoom lens, accurate doubling and one times pixel correction only needed;
- With programmable surface 5-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 8-division;
- Powerful function and easy operation iMeasuring 4.1 Measuring Software to enhance quality control;
- Automatic measurement program can be set to complete batch measurement efficiently and quickly



B.N.C.TOOLING Co.,Ltd.

BNCTOOLING.COM
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



Vision Measuring Machine

Technical Specification *Model / MVA-322A / MVA-432A / MVA-542A*

Product Name		Cantilevered Fully Auto Vision Measuring Machine					
Model		MVA-322A		MVA-432A		MVA-542A	
Code#		523-360A		523-370A		523-380A	
X/Y-axis Travel		300x200mm		400x300mm		500x400mm	
Z-axis Travel		200mm					
X/Y/Z-3 axis Linear Scale		Imported Linear Scale Resolution: 0.5um					
Guidance Mode		Precision linear guide, double-track double slider guide.					
Operation Mode		Joystick controller, Mouse operation, automatic detection program.					
Accuracy*		XY-axis : ≤2.0+L/200um					
		Z-axis : ≤5+L/200um					
Repeatability		±2um					
Video System**		High definition 1/2.9" digital camera					
		6.5X continue click zoom lens; Optical Magnification: 0.7X-4.5X; Video Magnification: 26X~172X(21.5"monitor)					
Field of View(mm) (D*H*V)	Magnification	0.7X	1X	2.0X	3.0X	4X	4.5X
	1/2.9"CCD	8.88x7.10x5.32	6.21x4.97x3.73	3.11x2.49x1.86	2.07x1.66x1.24	1.55x1.24x0.93	1.38x1.10x0.83
Illumination System	Contour	LED parallel contour illumination					
	Surface	0~255 Stepless adjustable 5-ring 8-division LED surface illumination					
Measuring Software		Standard: iMeasuring 4.1 Fully Auto Measuring Software					
Load Capacity		25Kg					
Working Environment		Temperature 20℃±2℃, Humidity Range<2℃/hr, Humidity 30~80%, Vibration<0.002g, <15Hz					
Power Supply		220V/50Hz/10A					
Dimension(W*D*H) (cm)		1132x720x1665mm		1280x840x1688mm		1257x920x1640mm	
Packing Size		1290x970x1920mm		1390x1060x1940mm		1450x1170x1900	
Net Weight		380Kg		450Kg		600Kg	

L is measuring length(mm), the mechanical accuracy of Z-axis and focus accuracy is greatly related to the surface of the workpiece. **Magnification is approximate value, it is related to the dimension of monitor and resolution. Field of view(mm) = (diagonal*Horizontal*Vertical)0.5X or 2X objective is optional available, and realize image magnification: 13X~86X or 52X~344X. 0.1um imported linear scale is optional available.



B.N.C.TOOLING Co.,Ltd.

BNCTOOLING.COM
BNCTOOLINGSHOP.COM

69/90 Hatairat Rd., Minburi ,Minburi Bangkok (Thailand) 10510



Vision Measuring Machine

Item Code for MVA Series

Sensor System	A (2.5D) Optical Zoom lens			B (3D) Zoom lens & MCP Touch Probe			C (2.5D) Optical Zoom lens & Laser scanning Probe			D (3D) Zoom Lens, Scanning and Touch probe		
Item Code	MVA-322A	MVA-432A	MVA-542A	MVA-322B	MVA-432B	MVA-542B	MVA-322C	MVA-432C	MVA-542C	MVA-322D	MVA-432D	MVA-542D
Software	iMeasuring 4.1			iMeasuring 4.2			iMeasuring 5.0			iMeasuring 5.1		

MVA Series can be customized according to customers' application requirements. Motorized coaxial zoom lens is optional for improving 2.5D measurement efficiency; MCP probe is optional for measuring geometric dimensions, while laser sensor module is selected to perform accurate measurement of glass, transparent plastic and other materials.

Product Details

