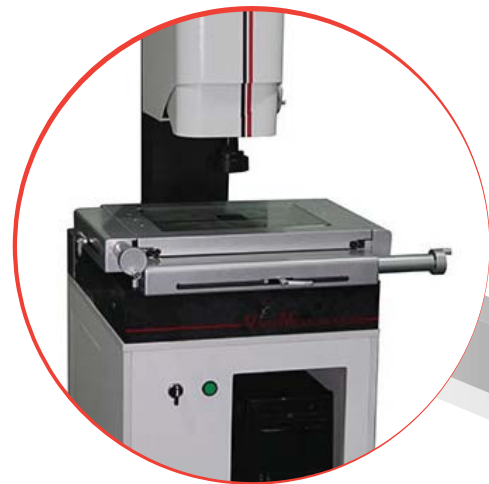
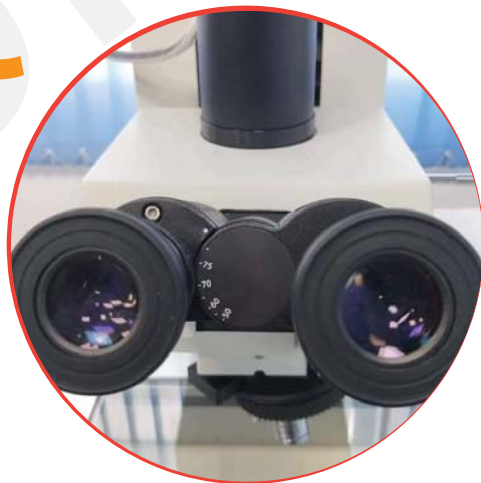


V I D E O M E A S U R I N G M A C H I N E S P E C



VMM Video Measuring Machine

video measuring system is a kind of measuring instrument, by means of CCD imaging and magnifying the work-piece image to the software system, and by using various measuring functions in the strong software system to realize microscope and quality control for the sizes, positions and forms of the measured piece. It is widely and suitably used in measurement services at various levels or workshops' inspection stations in various industries of electronics, instruments and meters, cutting-tools and gripping devices, precision machine elements, precision hardware pieces, electronic components, punching pieces, socket connectory, aerospace, etc. and colleges and universities, scientific research institutes, etc



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E-Series

VMM

VIDEO MEASURING MACHINE

Specification

Accuracy of X-Y axis (μm) : $3+L/200$

Repeatability (mm) : 0.003

Measuring mode : video measurement

Linear encoder : exposed glass linear encoder with resolution of $1.0\mu\text{m}$

Camera type : SBK-HC536 1/3 inches 600 lines industrial color camera

Guideway : Z axis: "HIWIN" P level linear guide way
X-Y axis: cross roller guide way

Optics : 6.5:1 continual zoom detent body tube

Magnification : optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X

Software : SBK-E 2D measuring software

Profile illumination : LED cold lighting with 256 level programmable brightness adjustment

Surface illumination : 48 LEDs cold lighting with 256 level programmable brightness adjustment

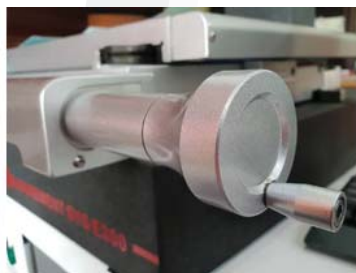
Control system : SBK-3000 data controller, USB interface, software controlled lighting

Drive type : Manual



Features

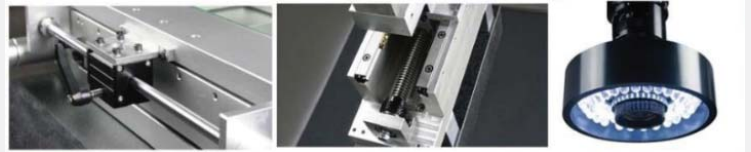
"HIWIN" P level linear guideway and precision cross roller guideway for increased accuracy & working life Integrated granite base and column ensures machine stability. Supplied with SBK-E multifunctional 2.5D measuring software, automatic edge detection and video height measurement Supplied with removable & dismountable console base High-definition detent zoom lens and high-resolution CCD performs high-definition measurement. Supports different file formats of data output such as Word, Excel, CAD etc. DXF import for quick inspection.



VMM

VIDEO MEASURING MACHINE

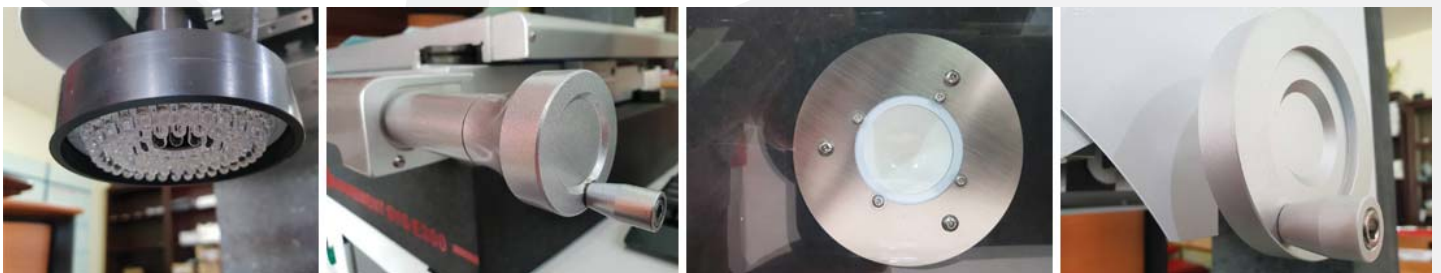
E-Series



MANUAL

Specification

Model	E200	E300	E400
Measuring range(mm)	200x100x200	300x200x200	400x300x200
Dimensions(mm)	750*1300*1500 mm	750*1300*1500 mm	900*1400*1500 mm
Weight(kg)	160	170	250
Max. load(kg)	20	25	25



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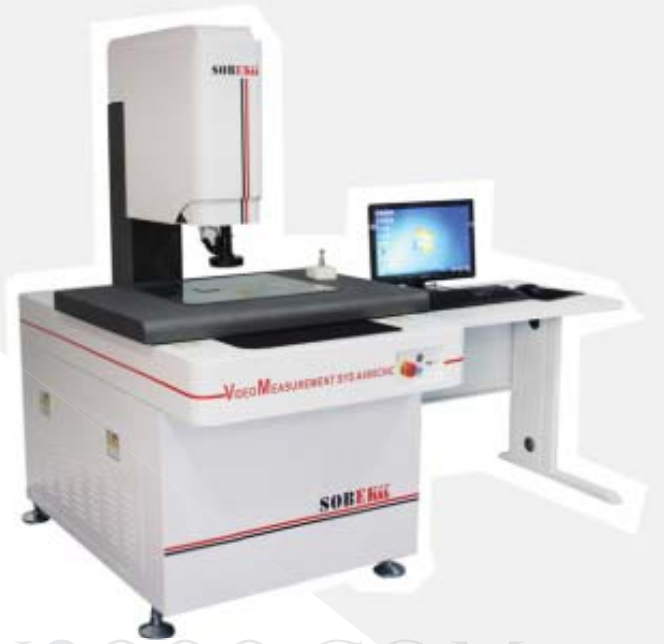
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VMM

VIDEO MEASURING MACHINE

AC-Series



Specification

Accuracy of X-Y axis (μm): 3+L/150

Accuracy of Z axis (μm): 5+L/100

Repeatability (mm) 0.005

Moving speed (mm/s): X-Y: 0-150 Z: 0-100

Linear encoder: exposed glass linear encoder with resolution of 1.0 μm

Camera type: SBK-HC536 700 lines industrial color camera

Frame grabber: color frame grabber with high resolution

Guideway: Z axis: "HIWIN" P level linear guideway X-Y axis: precision cross roller guideway

Ball screw: Z axis: "TBI" ground ball screw X-Y axis: linear drive nut

Optics: 6:5:1 continual zoom detent body tube

Magnification: optics zoom ratio: 0.7-4.5X; image zoom ratio: 24-158X

Software: SBK-JCNC full-automatic measuring software

Profile illumination: LED cold lighting with 256 level programmable brightness adjustment

Surface illumination: 4 rings 8 segments LED cold lighting with segmented independent control & 256 level programmable brightness adjustment

Control system: SBK3400 fully closed-loop control

Motor: "TIGER" synchronous AC servo motor

Operated mode: software

Automatic



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VMM

VIDEO MEASURING MACHINE

AC-Series

Features

X-Y-Z 3-axis CNC full-automatic measuring system

Imported key components with rigorous, normative assembling & adjustment

3-axis CNC controls, full-automatic measurement

Equipped with high-definition detent body tube

High-definition frame grabber

Precision "HIWIN" P level linear guideway & cross roller guideway; high-precision linear drive nut made by Germany

High-resolution exposed linear encoder with resolution of 1μm



Automatic

Model	AC300CNC	AC400CNC	AC500CNC
Measuring range (mm)	300x200x180	400x300x180	500x400x180
Dimensions(mm)	850x1300x1550	1000x1400x1550	1200x1500x1550
Weight (kg)	250	350	450
Max. work-piece load (kg)	20	25	25



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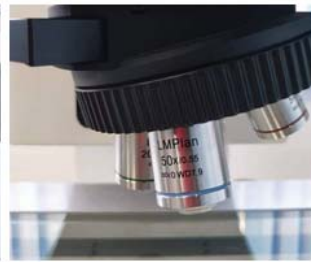
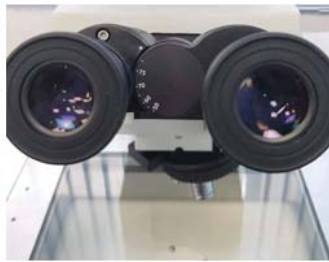
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VMM

VIDEO MEASURING MACHINE

M-Series



Feature

M-Series metallographic tool-maker microscope adopts the latest Z-axis automatic measuring system which is researched & developed by the SOBEKK itself. With the automatic focusing system, the repeatability can reach 1.5 μm by using the most advanced optical fiber high-definition camera, which is the highest accuracy of optical measurement for z-axis measurement of the microscope in China. With the automatic focusing system of Z axis, it greatly reduces the complexity of manual operation. The MC-Series metallographic microscope is equipped with the latest MX infinite distance correction optical lens or NIKON's latest CF160 infinite high resolution optical lens. Under the observation of a high magnification, the resolution of the workpiece will be increased, and the working distance of the standard high ratio can reach 1mm. Different circumvolve nosepieces can be selected according to your test requirements. The five-hole circumvolve nosepiece can be used for the bright field observation. The bright & dark field or bright & dark field with DIC is available also. The lamp source adopts the international advanced LED lighting to minimize the thermal expansion error that caused by the use of halogen bulb in the past.

By using the integrated MM controller interface support, the latest DP - E1 data processor or SC counter and SBK-MAX data processing software, the MC-300/400 can provide you with excellent geometric data processing & storage capacity. With Electronic handwheel gear device for coarse and fine tuning, it makes the instrument semi-automatic to improve the accuracy.

Applications: precision mould measurement, microelectronic observation and measurement, TFT liquid crystal inspection and measurement, 4"/5"/ 6"/8"/12"/ semiconductor wafer inspection and measurement.



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VMM

VIDEO MEASURING MACHINE

M-Series

Model	M-300	M-400
Table travel range (X Y Z)	300 x 200 x 150 mm	400 x 300 x 150 mm
Dimension	900 x 700 x 980 mm	1000 x 800 x 980 mm
Resolution	0.0001 mm	
Accuracy	(2+250/L) um	
Repeatability Accuracy	2 um	
X Y move style	Manual handle	
Z move style	Automatic focus(servo motor)+ Manual pulse handwheel focus(min focal distance 2 um)	
CCD	1/2 inch 750 line color camera	
Software	SBK-MM	
Work table loading	35 Kg	
Illuminating System	Cold light source transmission lighting, 10W LED reflection lighting	
Nosepiece	Five-hole objective rotary table (with DIC slot)	
Optical eyepiece tube	Trinocular tube	
Eyepiece	WF 10X/22	
Adaptor lens	0.5x	
Magnification	10 x -3000 x	
Bright filed Lens	LWDPLAN 5X: (N.A) 0.14, working distance :10.8mm	
	LWDPLAN 10X: (N.A) 0.25, working distance:10.0mm	
	LWDPLAN 20X: (N.A) 0.40, working distance: 4.0 mm	
	LWDPLAN 50X: (N.A)0.55, working distance: 7.5 mm	
Optical system	CSIC infinity correction optical system	
Power	220V±10% ,50Hz , 0.5KW	
envirment requiry	temperature range:22±2°C, humidity range:30%-70%	
optional parts	100X lens, Dark-field, polarized, DIC(differential interference contrast)	

