



More Than 15 Years Experience

Video Measuring Machine

AM-CNC Series

Bridge Style Full Automatic Video Measuring Machine

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AM -CNC Vision Measuring Machine**Features**

- Sturdy bridge type construction with long-travel automatic vision measurement.
- Granite base keeps machine movement steadily.
- Auto-focus for height measurement, touch probe can be fixed.
- 4-axis CNC controls, full-automatic measurement
- Being equipped with navigational body tube performs a function of map navigation. (automatic zoom lens optional)
- Programmable 4 rings 8 segments ring light for surface illumination, LED light for profile illumination
- Metal linear encoder with high resolution of 0.5μm
- “THK” precision linear guideway & ground ball screw
- Digital colour with high-definition ensures the image sharpness of measurement

Technical Parameter

Model	AM500	AM600	AM800	AM1000	AM1200
Measuring Range (mm)	400*500*200	500*600*200	600*800*200	800*1000*200	1000*1200*200
Weight (kg)	1100	1250	1450	2110	3100
Load weight (kg)	30				
X, Y axis precision(μm)	2.5+L/200				
Z axis accuracy (μm)	5+L/200				
Resolution (μm)	0.5				
repeatability (μm)	2				
X, Y movement speed	0-500mm/S (can optional)				
Z axis movement speed	0-100mm/S(can optional)				
operating way	Rocker + software				
Motion controller	UWC4000 (full closed loop controller)				
Magnification	Optics magnification :0.7 ~ 4.5 x; Image magnification: 44 ~ 258x				
Software	INSPEC CNC automatic measurement software				
Power	220 V/ 50 Hz / 3 A				
Working environment	Temperature: 20 °C± 2 °C, temperature change < 2 °C / hr, Humidity:30 ~ 80%				
Special table for machine	built-in switching power supply, controller, motor drive, power supply control switch, indicator light, abrupt stop switch, move the wheel				
Warranty period	12 months				

(* L means measuring length, unit: millimeter)

Main Parts

Name	Picture	Name
CCD		1.3 mega pixel digital CCD, high color reduction degree, provide a high-definition image quality of measurement products
Optics Lens		07-45X auto lens (or optional)
Surface illumination		adopts 4 rings 8 segment LED light , can partition control, long life service, The light exposure on the surface is very clear for various products
Bottle illumination		*LED cold light *Parallel light *256 level programmable Brightness adjustable
Linear Guide		Z axis Taiwan "HIWIN " SP level ultra precision linear guideway (walking parallel degree accuracy of 0.003 mm or less)
XYZ axis motor		AC servo motor
Workbench		Workbench is made of a whole 7075 aviation aluminum plate, have the characteristics of non-deformation, stable precision

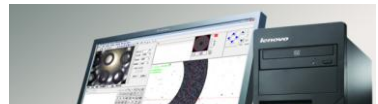
Bearing		Japanese original "NSK" double combination centripetal ball bearings
Screw Rod		Taiwan "TBI " C0 level grinding ball screw,
Limit switch		Japan's original "Omron" photoelectric limit switch, responsive, low failure rate
Linear scale		metal linear Resolution 0.0005/ 0.0001um
Joystick		With German "MEGATRON" three-axis external regulation hall joystick, IP level is above 65, long service life, high cost performance.

Motion controller



SBK4000 controller is based on the advanced DSP and FPGA technology, four axis motion control, electronic counting, automatic light adjustment, probe processing, such as joystick multi-function, which integrates automatic image instrument controller. ACT400 using Ethernet technology and computer communication, have no driver, good compatibility, high transmission speed, stable transmission, etc

Computer System

Brand:	Industry computer	
CPU :	i5	
RAM:	8G	
Hard disk :	240G SSD	
Display	21.5inch LED	
With mouse & keyboard		

Optional Part

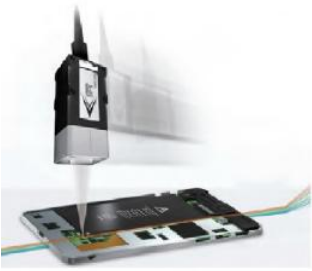
1. Renishaw MCP probe

For hole or groove measure, contact measure style

	RENISHAW 		
	Stylus diameter	Φ1 Φ2 Φ3(optional)	
	Stylus Length	200mm	
	Calibration block	50mm	
	Static accuracy	±1.5um	
	Measure accuracy	±3.0um	
	Can optional extension road according to measure requirement		

2. Omron laser measure probe

None-contact measure for height or flatness

	OMRON		
	Model	ZW5000	ZW7000
	Measure range	10mm /20mm /30mm	10mm/20mm /30mm
	Sop size	9um /13um /18um	50um/70um/100um
	Resolution	0.25um	0.25um

2. Objective Lens

	Long working distance metallographic objective lens :5X, 10X ,20X
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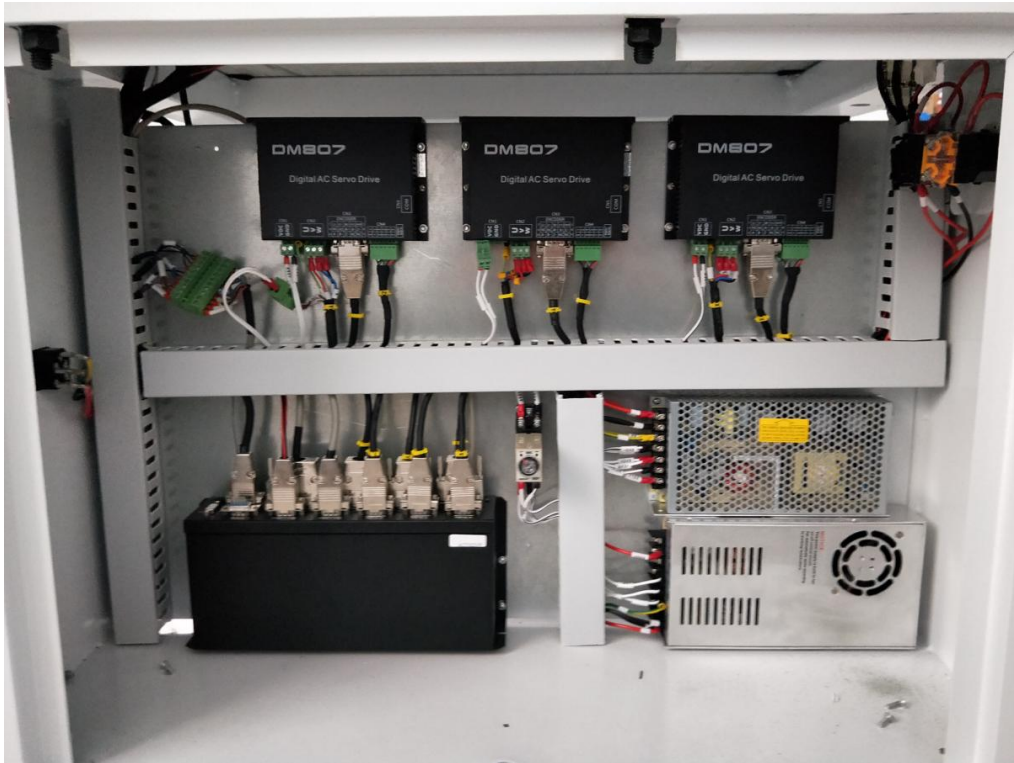
3. Original Windows OS

	Original Win10 or Win7 professional English version
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Machine Display

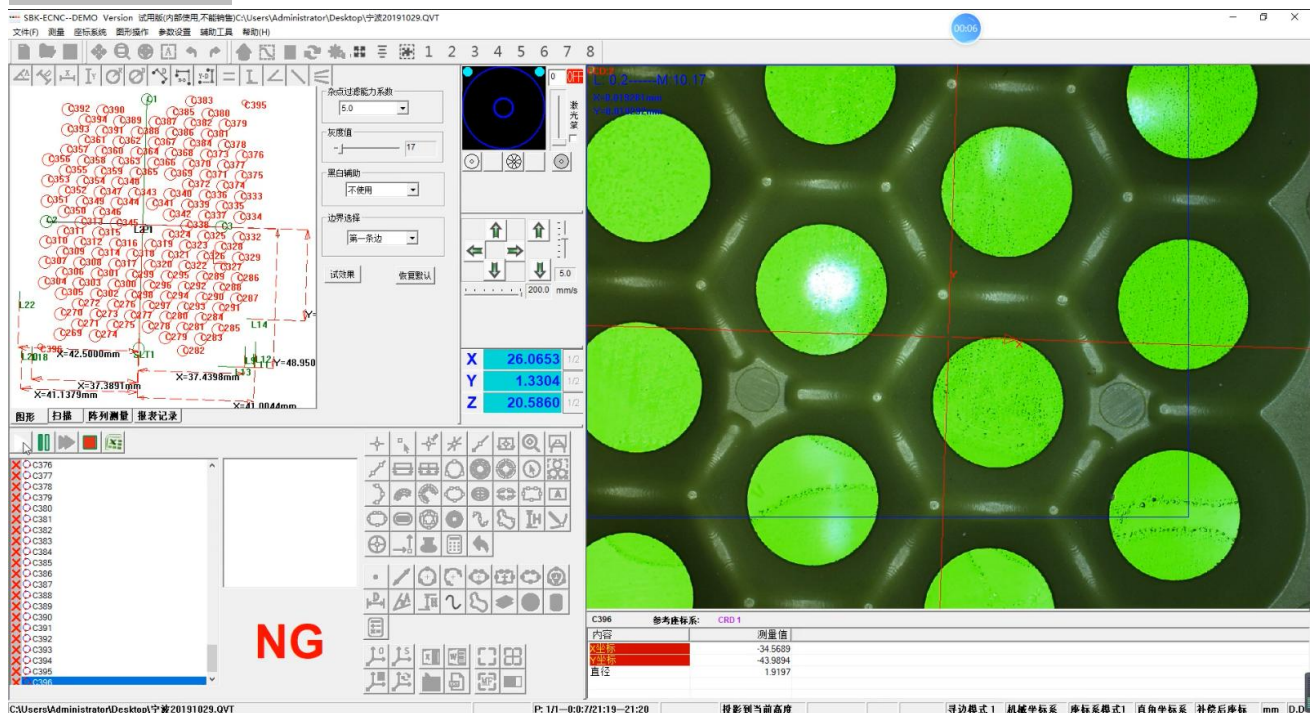


Inner Warring



Software (INSPEC Full Automatic measuring software)

Software Interface

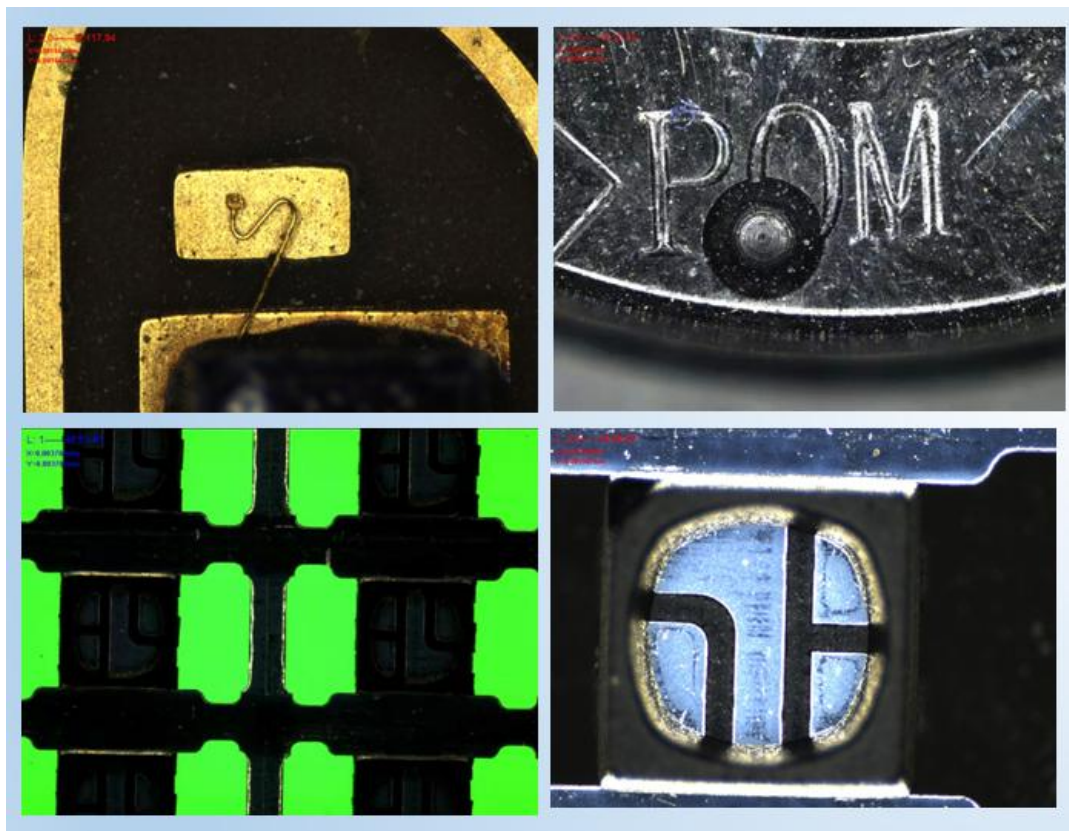


About software main functions

- automatic measurement function: using the mouse to automatically find a straight line, click on the circle, box selected area , arc
- automatic CNC: with the help of the fixture can be fully automatic measurement (measuring efficiency is much higher than the peers)
- quick optical measuring height function, measuring a height within 3 seconds
- optical measurement of flatness

- auxiliary focus: to help find the Z position when image most clearly (auxiliary focus to improve accuracy of measurement)
- image output: the measurement result can be output in the format of image (equal the digital camera functions)
- shape tolerance, roundness, straightness, parallelism and perpendicularity, concentricity
- set the tolerance: can set the product's actual size that out of range, beyond the background with red warning
- CCD correction: correction image distortion
- contour tracking: through the software automatically calculate the outline of work piece and display (display measuring location)
- vector graphics function: primitive font can be magnification or shrink without a limit
- mark function: dra, diameter, Angle, linear dimension, alignment, text annotations, coordinates
- the command line: can either enter the coordinates directly from the command line, involves, line, circle, arc, etc., to meet special needs
- map measurements: local photos that take from the workpiece can accurate integrate a complete workpiece photo , and save in a high-resolution photos. can also open the map previously took, Direct drawing, marking, modification, etc (synthetic big picture)
- virtual measurements: The virtual measurement technology enables the image measurement software to disengage from the hardware platform, the software also can measure the size of the products without the platform and products (can be offline measurement)
- two-dimensional copy number: product appearance can be trace, the trace of graphics can be formed into AutoCAD engineering diagram, can do reverse engineering
- SPC analysis: can calculate, CA, CP and CPK, DRL, DRR, DR, MAX, MIN, AVG, RANGE, STD, and can draw X - R diagram, scatter diagram, line chart, histogram, etc

CCD Image display



Standard Configuration List

Models and Specifications	Quantity
CNC host	1 set
SUNPOC-INSPEC software	1 pc
Pixel calibration block	1 pc
16G U disk (inner software manual)	1 pc
Computer System (with host ,display ,mouse keyboard)	1 set
Table	1 pc
Warranty card	1 pc

Packing Details (wooden case)



Measuring Application

Connector, Sheet metal part, Spring, Display PCB ,Precision Mechanical part, Electrical part, car part, Mould, Plastic parts ,LED plane...



Company Detail

Factory including: 5 sale centers and after-sale service centers, 1 R&D center, 1 import & export department

Production capacity: 1000 set/year

Sales area: more than 30 countries and regions (Thailand, Vietnam ,Malaysia, Korea, Canada, Indian, UK, Poland, US, Mexico...)

Goal: to be the most stable video measuring machine supplier in china

Value: customer-focus & striver-orientend

Address: No.18,Building C,Meidi Fortune Center, Changling North Rd.,Guanshanhu District, Guiyang City, China.550081

our customer:



Paten & Certificate

More than 16 patents about machine hardware and software



Our Workshop

