

Vision Measuring Machine

HSMLE owns a complete series of vision measurement machine for manual type machine, NC type Automatic measurement machine with practice function to CNC type fully automatic measurement a machine with off-line programming, high speed and efficiency function in order to meet different customer's requirements. All HSMLE Vision Measurement Machines are compatible with **RENISHAW** high accuracy touch trigger probe to measure parts in Z-axis or simple-3D measurement. SPC statistic analysis software is a standard configuration for all Vision Measurement Machines.

It allows customers to carry out scientific analysis for the production flow to find error trend in the flow and problems in the operations. In addition, all measurement results may be outputted in popular Microsoft office software, such as MsExcel, MsWord to make customers save results conveniently for working out a quality inspection report or analysing further.



Our Vision Measurement Software can output results in image file DXF to the popular CAD software, e.g., Auto CAD, Master CAM etc to facility customers to copy the results. Vice visa, image files in DXF may also be loaded into Vision Measurement Software to compare measurement results visually.

The **VMS Series** Vision Measurement Machine is designed especially for large scale repeated measuring. It is with high speed, high efficiency and powerful function. VMS Series especially suits for large-amount in section which requires high speed, high efficiency and high precision. It is a necessary and important equipment within a busy QC line. VMS Series uses high precision 00 class granite fixed bridged structure for the bracket, along with high precision work-table, in order to ensure the stability and precision of the machine body as long as the high precision of the measuring. Three axis adopt the Panasonic AC servo motor system, recognized by the whole industry as the most reliable system.

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KEY FEATURES

- The base and upright column adopt high precision of granite to ensure the stability of the mechanism system.
- Z-axis adopts precision linear guide with clump weight and the lens is in even force up and down to ensure the precision.
- The laser locating indicator can rapidly find the measuring position of workpieces.
- 0.7x~4.5x Step Zoom Lens.
- The grating scales that mounted on X-axis and Y-axis can make sure the high locating precision
- Z-axis when mounted with grating scale can measure height of workpieces.

BASIC FUNCTION OF THE SOFTWARE

Basic geometry measurement: Point, line, circle, arc, ellipse, rectangle and curves. **Powerful measurement:** Automatically find the best boundary point, automatically measure and identify line, circle and arc, can select the point, line, circle, arcs and ellipse with frame, can collect point. manually through a mouse.

Combination measurement: Combine the point, line and circle and calculate the distance, angle and intersection point among points, lines and circles.

Geometrical error measurement: Measure the parallelism, perpendicular, inclination, displacement, coaxiality and symmetry.

Coordinate system setting: Parallely move, rotate and change the original coordinate or reset the coordinate system.

Dimension annotation: It can mark the length, angle, radius and diameter on the drawing window conveniently just like using AUTOCAD software.

Inspection result output: The drawings and measuring results can be put out in the format of WORD, EXCEL, DXT.

Auto focusing function: It can produce a focusing indicating curve by adjusting Z axis and then judge optimum focus distance position so as to reduce focusing error from operator.

Enlarge small window function: It can partly enlarge the vision window through the small window on the lower right corner of software so as to accurately aim at the workpiece.

CAD window: Special CAD window has the same idea as three coordinates, which make customer vividly understand the test pieces.

SPC function: Data statistics report can be edited freely according to user's measuring requirements. **Teaching function:** User only need to program the measuring path one time when measuring batch parts and set the number of measuring times to automatically complete the measurement.

TECHNICAL SPECIFICATIONS

MODEL No.	VMS-150	VMS-250
X-Travel	150mm	250mm
Y-Travel	100mm	150mm
Z-Travel	100mm	200mm
Operating Mode	Manual	
Resolution(X/Y)	0.001mm	0.0005mm
Repeatability	0.002mm	
Accuracy	(3+L/200) μm	
Stage Load Capacity	10kg	30kg
CCD	1/3" 410,000 pixel Colour	1/3" 430,000 pixel Colour
Optical Magnify Zoom	0.7x-4.5x	
Image Magnification	28x - 180x	
Applicable Environment	-	Temp.20±5°C Humidity 45-75%

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