

RSP Series CNC VMM

RSP series CNC vision measurement machine is designed especially for large quantity repeated measuring. It is equipped with high speed, high efficiency and powerful functions. RSP series especially suits for large-amount section which requires high speed, high efficiency and high precision. It is very important and necessary equipment for a busy QC line. RSP series uses high precision 00 class granite structure for the bracket, along with high precision work-table, which ensures the stability and precision of the machine body and the high precision of the measuring. All the moving is controlled by a high speed high accuracy full closed-loop 32bit DSP controller in order to ensure a reliable high-speed measurement, and can provide 1μm position accuracy, make sure high repeatability.

The software of RSP series has learning function, users just need measure the work piece manually one time, the software will record all the measuring process, this can be used for the later repeated measuring. Users do not need to write any program and this largely simplifies the operation.

Model	RSP-3020	RSP-4030
X,Y,Z travel (mm)	300x200x200	400x300x200
Overall dimensions (cm)	140x92x175	140x100x175
Machine weight	280 kgs	360 kgs
Repeatability	1.7 μm	
Max table load	30 kgs	
Operation mode/ Controller	Automatic CNC control, by mouse, keyboard or joystick / high speed and high trusty Ethernet connect with computer	
Resolution	0.1μm high accuracy reading scale	
X,Y,Z measurement precision	(2.4+L/250) μm	
Light source system	Software controlled 8 zone surface light and straight contour light	
Structure	00 grade granite base	
Lens	High precision Tele-centric zoom lens	
Probe system	UK RENISHAW precision touch probe	
Magnification	Optical enlarging rate 0.7-4.5x, image enlarging rate 30-200x	
Moving system	X/Y/Z servo motor drive system	
Vision system	1280×1024 high resolution 1/2" industrial camera	

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