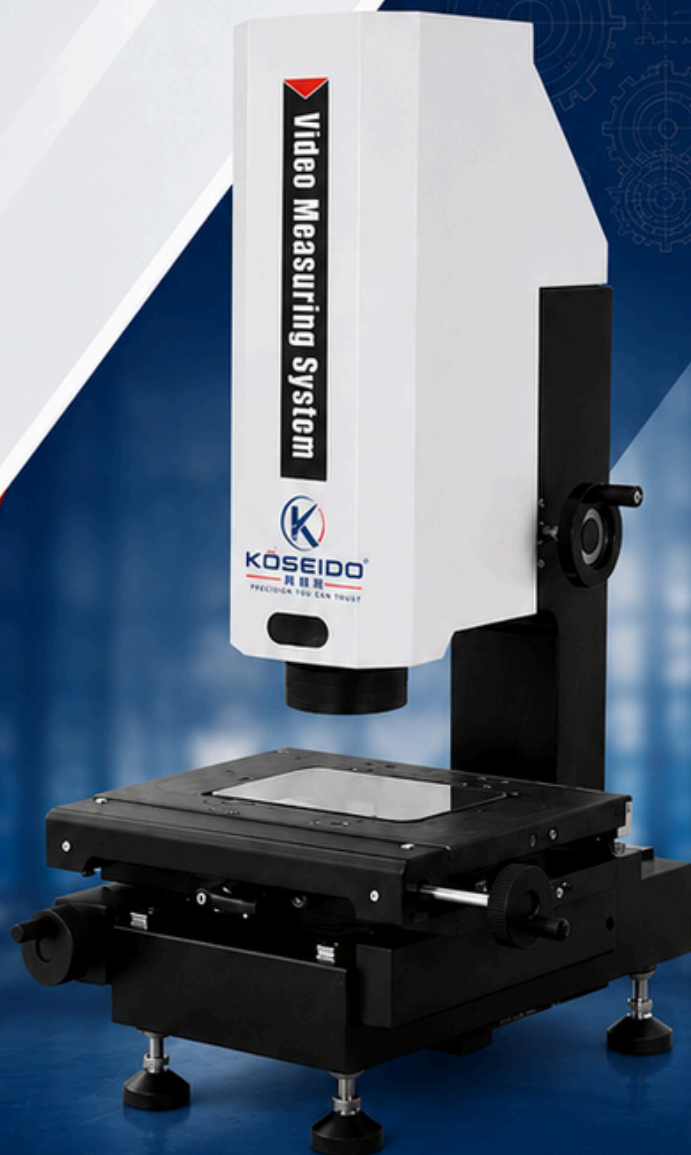


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High Precision Semi-automatic Vision Measuring Machine

K-M6-iSemi Series



Product Characteristic:

- Adopt high-precision granite base and column to ensure the stability and precision of the machine;
- Adopt high-precision toothless polished rod and fast-moving locking device to ensure that the return error of the table is within 2um;
- Adopt high-precision instrument optical ruler and precision worktable to ensure the accuracy of the machine is within $\leq 2.5+L/200\mu\text{m}$;
- Adopt high-definition zoom lens and high-resolution color digital camera to ensure clear picture quality without distortion;
- Using the program-controlled surface 4-ring 8-area LED cold illumination and Contour LED Parallel Illumination as well as a built-in intelligent light adjustment module, the area brightness of the light in the 4-ring 8-area can be freely controlled;
- iMeasuring Vision measurement software improves quality control to a new level;
- The Z-axis uses high-precision linear guides and servo motor control system to achieve automatic focusing, eliminate human focusing errors, and improve measurement accuracy and stability;
- Optional contact probe and three-dimensional measurement software can be used to upgrade the machine to a contact three-dimensional measuring machine.

Specifications:

Commodity		High Precision Semi-automatic Vision Measuring Machine K-M6-iSemi Series				
Model		K-M6-IMS-2010	K-M6-IMS-2515	K-M6-IMS-3020	K-M6-IMS-4030	K-M6-IMS-5040
Marble Workbench		(270*350)mm	(408*308)mm	(458*358)mm	(608*470)mm	(650*580)mm
Glass Workbench		(142*242)mm	(306*198)mm	(356*248)mm	(456*348)mm	(540*440)mm
X/Y axis Travel		(200*100)mm	(250*150)mm	(300*200)mm	(400*300)mm	(500*400)mm
Z axis travel		High-precision linear guide, effective travel 200mm				
X/Y/Z axis resolution		0.5um				
Pedestal and Uprights		High Precision Granite				
Measurement Accuracy*	E1x,y	2.5+L/200(um)				
	E1xy	3+L/200(um)				
	E1z	4+L/200(um)				
Repeat Accuracy		2um				
Illumination System (Software Adjustment)		Surface 4 rings and 8 zones infinitely adjustable LED cold illumination				
		Contour LED Parallel Illumination				
		Optional Coaxial Light				
Digital Camera		1/2.9"/1.6Mpixel High Resolution Digital Camera				
Zoom Lens		6.5X High-Resolution Electronic feedback zoom lens, Optical Magnification: 0.7X~4.5X ; Video Magnification: 20X~129X				
Measuring Software		iMeasuring				
Operation System		Support WIN 10/11-32/64 Operating System				
Language		English				
Working Environment		Temperature 20°C±2°C, temperature change <1°C/Hr; Humidity 30%~80%RH; Vibration <0.02g's, ≤15Hz.				
Power Supply		AC220V/50Hz; 110V/60Hz				
Dimension(WxDxH)		(677*552*998)mm	(790*617*1000)mm	(838*667*1000)mm	(1002*817*1043)mm	(1111*867*1086)mm
Packaging Dimension(WxDxH)		(1030*780*1260)mm	(1030*780*1260)mm	(1030*780*1260)mm	(1130*1000*1270)mm	(1250*1035*1460)mm
Gross/Net Weight		220/150Kg	242/175Kg	275/185Kg	449/350Kg	550/380Kg

Note:

- "L" represents the measured length in millimeters, and the mechanical accuracy of the Z-axis is highly dependent on the focusing accuracy and the surface of the workpiece.
- The magnification is an approximate value and is closely related to the size and resolution of the display.

- Customers can choose to add a 0.5X or 2X auxiliary lens according to their needs to achieve image magnification.
- K-M6-iMS-2010/4030/5040 are workbenches made of marble, while K-M6-iMS-2515/3020 are workbenches made of metal.

Product Configuration Model Description (Example with K-M6-iMS-3020):

Sensor Configuration	2.5D	3D	2.5D	3D
Commodity	2.5DVision Measuring Machine	3D Contact & Vision Measuring Machine	2.5D Semiautomatic Vision Measuring Machine	3D Semiautomatic Contact & Vision Measuring Machine
Model	K-M5-iMS-3020A	K-M5-iMS-3020B	K-M6-iMS-3020C	K-M6-iMS-3020D
Type	A	B	C	D
Significance	Optical Zoom-lens Sensor	Zoom-lens Sensor and Contact Probe Sensor	Zoom-lens Sensor and Z- axis Autofocus Function	Zoom-lens Sensor, Contact Probe Sensor and Autofocus Function
Z-axis Auto-focus	Without	Without	With	With
Contact Probe	Without	With	Without	With
Software	iMeasuring2.1	iMeasuring3.1	iMeasuring2.2	iMeasuring3.2

Manual Vision Measuring Machine Travel Guide Table:

Travel mm	Model	X Axis Travel mm	Y Axis Travel mm	Z Axis Standard Travel mm	Z Axis Maximum Customized Travel mm
200x100x200	K-M6-IMS-2010	200	100	200	300
250x150x200	K-M6-IMS-2515	250	150	200	300
300x200x200	K-M6-IMS-3020	300	200	200	400
400x300x200	K-M6-IMS-4030	400	300	200	400
500x400x200	K-M6-IMS-5040	500	400	200	400

- ◆ Other travel specifications can be customized according to customer needs



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