



CARMAR TECHNOLOGY CO., LTD.



Accuracy
Creation
Satisfaction

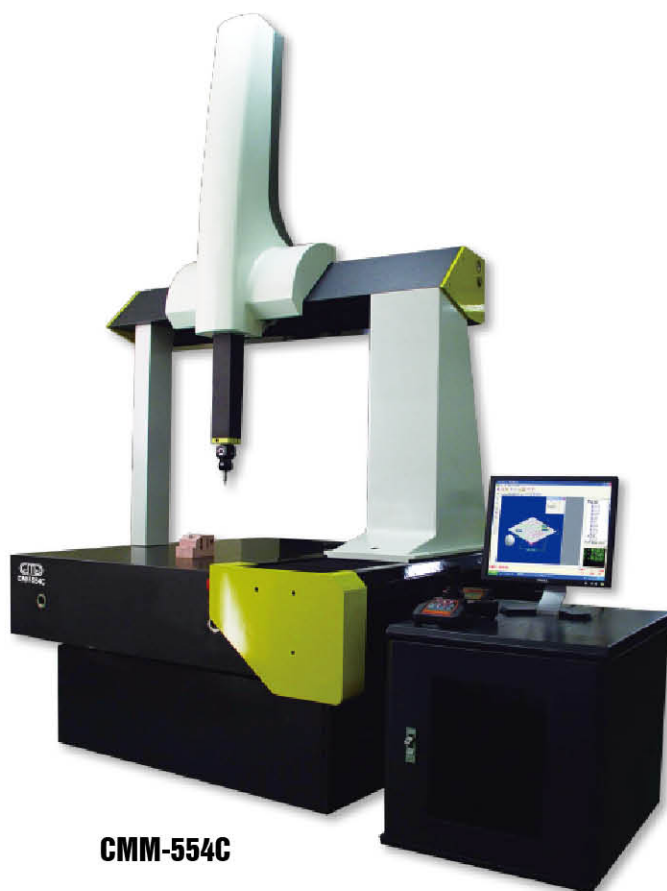
All Series Coordinate Measuring Machine

CARMAR TECHNOLOGY CO., LTD.

- All series designed with granite structure and air bearing guideway
 - CNC Type **CMM-C** series
 - Manual Type **CMM-M** series
 - Multi-functions Type **CMM-MV** series

■ DCC Type Coordinate Measuring Machine **CMM-C** series

CMM-C series are designed with moving bridge structure, granite working table, high-resolution linear scale and self-adjusting air bearings on all axes to optimize its stability and solidity of machine structure. CMM-C series integrate 3D technology (Renishaw controller, Renishaw probing system for complex part measurement and powerful CMM software) to guarantee the best performance. It can inspect the dimension, shape and position of the box, guide rail and other work pieces. CMM is widely used in the field of mechanism, automobile, aviation and high precision tool manufacturing.



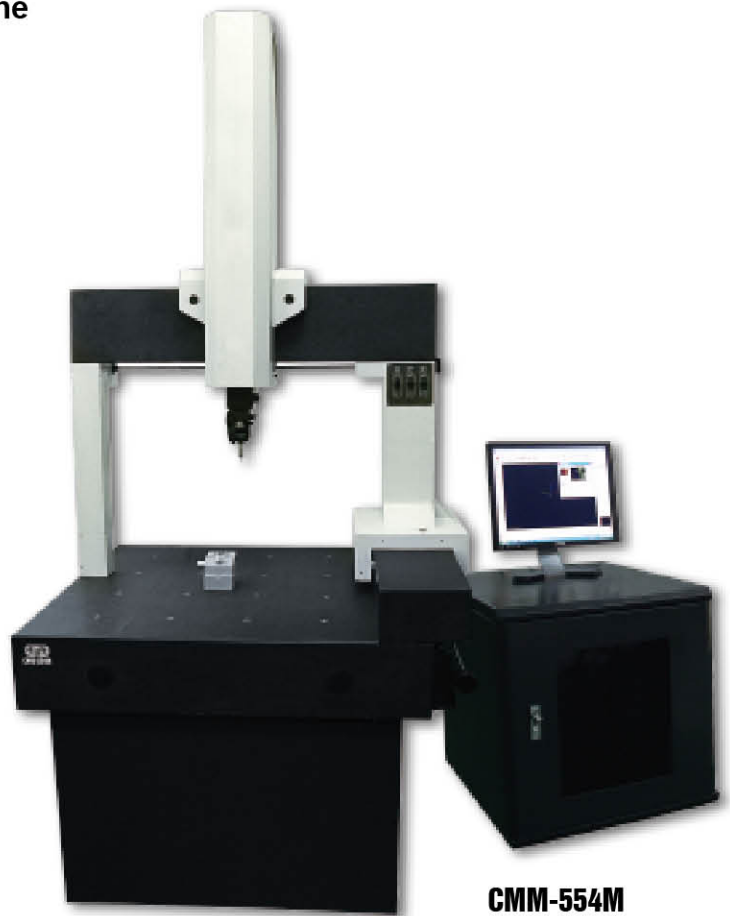
CMM-554C

■ CMM-C Series Specifications:

Model		CMM-554C	CMM-665C	CMM-886C	CMM-10108C
		CMM-574C	CMM-685C	CMM-8106C	CMM-10128C
		CMM-584C	CMM-6105C	CMM-8126C	CMM-10158C
Travel (mm)	X	500	600	800	1000
	Y	500	600	800	1000
		700	800	1000	1200
		800	1000	1200	1500
	Z	400	500	600	800
Driving System		Servo Motor			
Control System		RENISHAW UCC Lite with Joystick			
Probing System		RENISHAW MH20i			
Motorized rotating and swivel measuring system		PH10T +TP20 (Optional)			
Measuring Software		RATIONAL DMIS (CNC)			
Structure		Moving Bridge Type			
Guidance		Air Bearing			
Space Accuracy (μm)		MPE _E = (3.0 + L/300)		MPE _E = (3.5 + L/200)	
Resolution (μm)		0.5			
Dimensions (m)		1.21 × 1.3 × 2.33	1.31 × 1.4 × 2.53	1.66 × 1.9 × 2.85	1.85 × 2.1 × 3.25
		1.21 × 1.5 × 2.33	1.31 × 1.6 × 2.53	1.66 × 2.1 × 2.85	1.85 × 2.3 × 3.25
		1.21 × 1.6 × 2.33	1.31 × 1.8 × 2.53	1.66 × 2.3 × 2.85	1.85 × 2.6 × 3.25
Weight (kg)		980	1100	2200	2600
		1120	1250	2460	2880
		1200	1400	2720	3300
Max.load (kg)		500	800	1000	1500
Packaging Dimensions (m)		1.3 × 1.6 × 2.22	1.4 × 1.7 × 2.42	1.9 × 2.3 × 2.4	2.4 × 2.45 × 2.4
		1.3 × 1.8 × 2.22	1.4 × 1.9 × 2.42	1.9 × 2.5 × 2.4	2.4 × 2.65 × 2.4
		1.3 × 1.9 × 2.22	1.4 × 2.1 × 2.42	1.9 × 2.7 × 2.4	2.4 × 2.95 × 2.4
Environments					
Power Supply		220 V ± 10% 50/60 Hz			
Air Consumption		120L/min at 0.4 MPa			
Air Supply		0.5 ≥ MPa			
Temperature		18℃ - 22℃			
Humidity		40%-70%			

■ Manual Type Coordinate Measuring Machine CMM-M Series

CMM-M series Coordinate Measuring Machines are designed with moving bridge structure, granite measuring table, high-resolution linear encoder and air bearing on all axes to optimize its stability and solidity of machine structure. CMM integrated 3D technology (high accuracy Renishaw probing system: MH20i for complex part measurement and CMM software) to guarantee the highest performance. It can inspect the dimension, shape and position of the box, guide rail and other work pieces. CMM is widely used in the field of mechanism, automobile, aviation and high precision tool manufacturing.



CMM-554M

■ CMM-M Series Specifications:

Model		CMM-554M	CMM-665M
		CMM-564M	CMM-685M
		CMM-574M	CMM-6105M
		CMM-584M	
Travel (mm)	X	500	600
	Y	500 / 600 / 700 / 800	600 / 800 / 1000
	Z	400	500
Operation		MANUAL	
Probing System		RENISHAW MH 20i	
Measuring Software		Rational DMIS (Manual) / M3D	
Structure		Moving Bridge	
Guidance		Air Bearing	
Single axis accuracy (μm)		$MPE_E = (3.0 + L/250)$	
Space Accuracy (μm)		$MPE_E = (3.5 + L/250)$	
Resolution (μm)		0.5	
Dimensions (m)		1.0 × 1.1 × 2.2	1.14 × 1.1 × 2.4
		1.0 × 1.2 × 2.2	1.14 × 1.3 × 2.4
		1.0 × 1.3 × 2.2	1.14 × 1.5 × 2.4
		1.0 × 1.4 × 2.2	
Weight (kg)		700 / 770 / 840 / 910	900 / 1040 / 1180
Max. Load (kg)		200	500
Packaging Dimensions (m)		1.45 × 1.37 × 2.1	1.35 × 1.55 × 2.4
		1.45 × 1.47 × 2.1	1.35 × 1.75 × 2.4
		1.45 × 1.57 × 2.1	1.35 × 1.95 × 2.4
		1.45 × 1.67 × 2.1	
Environments			
Power Supply		220 V ± 10% 50 / 60 Hz	
Air Consumption		120 L / min (0.4 MPa)	
Air Supply		0.5 ≥ MPa	
Temperature		18°C - 22°C	
Humidity		40%-70%	

■ Versatile Type Coordinate Measuring Machine CMM-MV Series

CMM-MV series Multi-function Coordinate Measuring Machine integrates touch probing system and non-contact vision measuring system in one machine. High quality probing system enhances the speed of measuring speed, flexibility and efficiency. Applying advanced graphic manipulation technology, video measuring system works with high precision SONY CCD camera for data gathering. CMM-MV can realize auto edge detecting, access point and auto distinguishing for circle and arc. CMM-MV can inspect precise, fragile, and any position that probing stylus can not reach, so it's widely used in the field of mechanism, electronics, mold, automobile, etc.



CMM-554MV

■ CMM-MV Series Specifications:

Model		CMM-554MV		CMM-665MV	
		CMM-564MV		CMM-685MV	
		CMM-574MV		CMM-6105MV	
		CMM-584MV			
Travel (mm)	X	480		580	
	Y	500 / 600 / 700 / 800		600 / 800 / 1000	
	Z	380		480	
Operation		Manual			
Structure		Moving Bridge		Guidance Air Bearing	
Single axis accuracy (μm)		$MPE_E = (3.0 + L/250)$			
Space accuracy (μm)		$MPE_E = (3.5 + L/250)$			
Resolution (μm)		0.5			
Contact Probing System					
Probing System		RENISHAW MH 20i			
3D Measuring Software		Rational DMIS (Manual) / M3D			
Non-contact Video Measuring System					
Video System		CCD Camera: 1/2" CCD Camera Illumination: Adjustable surface and contour illumination with high brightness LED. Magnification of zoom lens: Navitar (U.S made), 0.7X-4.5X Magnification on Monitor: 23.5X-148X , field of view: 11.1mm-1.7mm			
2D Measuring Software		M2D-AT			
Dimensions (m)		1.0 x 1.1 x 2.2		1.14 x 1.1 x 2.4	
		1.0 x 1.2 x 2.2		1.14 x 1.3 x 2.4	
		1.0 x 1.3 x 2.2		1.14 x 1.5 x 2.4	
		1.0 x 1.4 x 2.2			
Weight (kg)		700 / 770 / 840 / 910		900 / 1010 / 1080	
Max. Load (kg)		200		500	
Packaging Dimensions (m)		1.45 x 1.37 x 2.1		1.35 x 1.55 x 2.4	
		1.45 x 1.47 x 2.1		1.35 x 1.75 x 2.4	
		1.45 x 1.57 x 2.1		1.35 x 1.95 x 2.4	
		1.45 x 1.67 x 2.1			
Environments					
Power Supply		220 V ± 10% 50 / 60 Hz			
Air Supply		0.5 ≥ MPa		Air Consumption 120 L/ min (0.4 MPa)	
Temperature		18℃ - 22℃		Humidity 40%-70%	