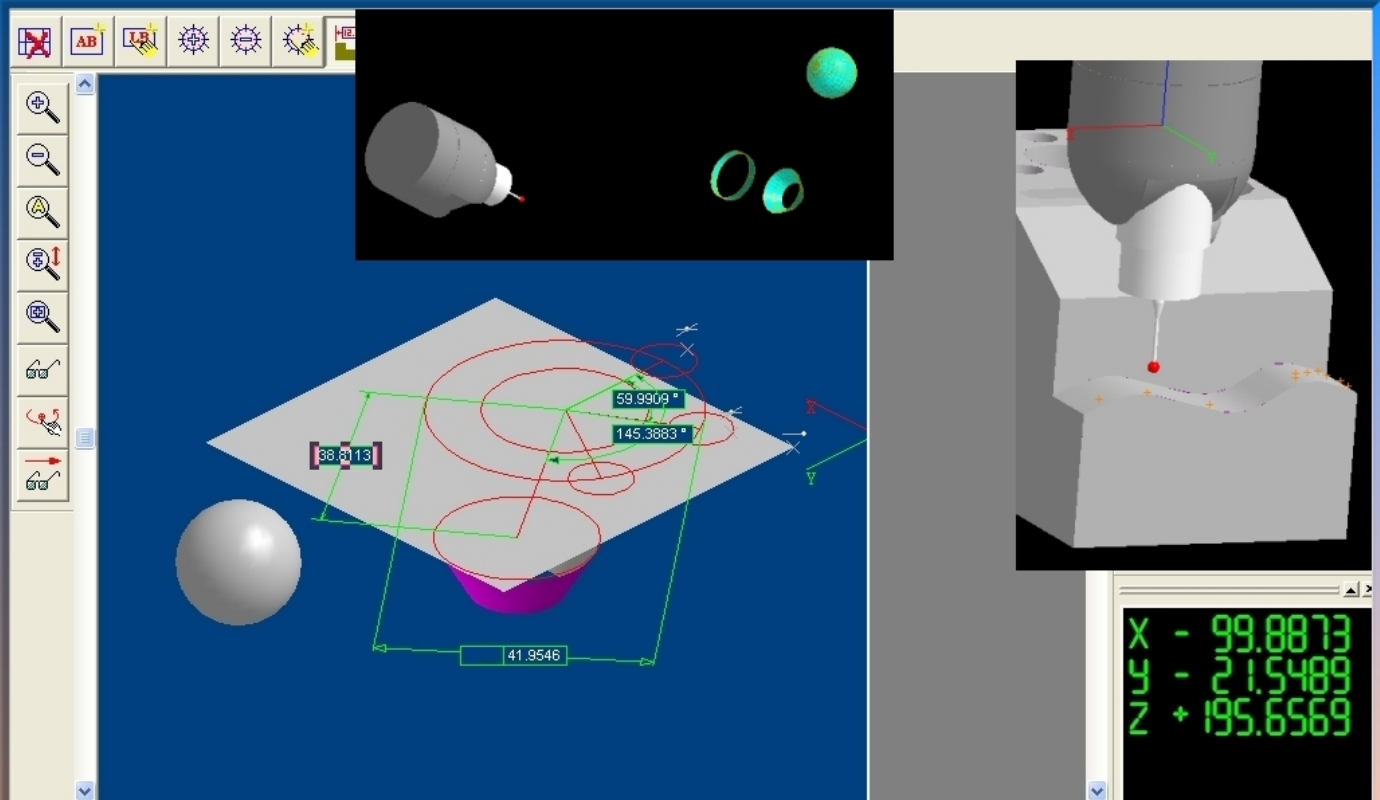




## All Series Coordinate Measuring Machine

All series designed with granite structure and air bearing guideway

- ☐ DCC Type CMM-C series
- ☐ Manual Type CMM-M series
- ☐ Multi-functions Type CMM-MV series



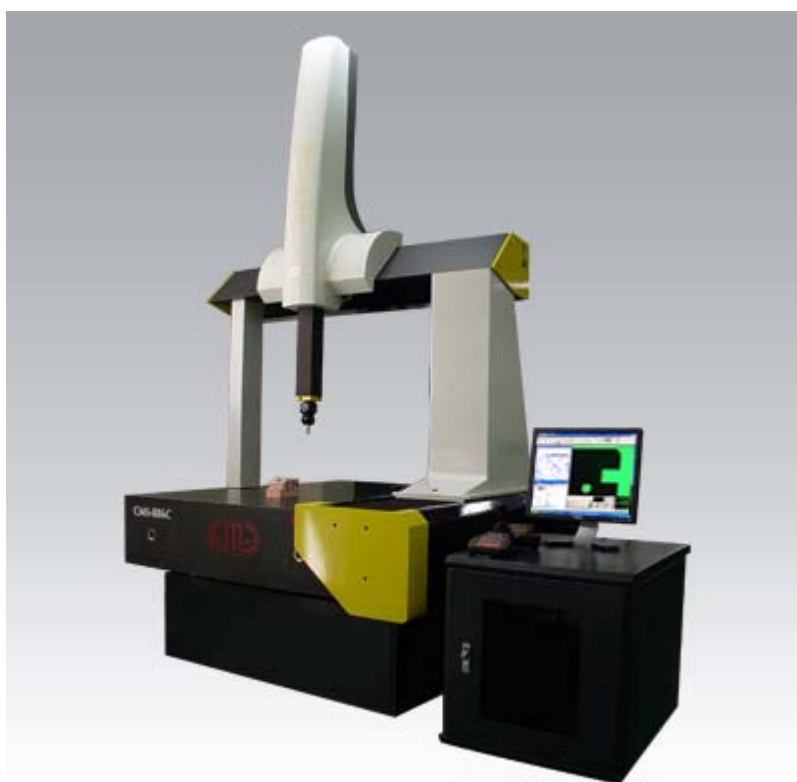


**CARMAR TECHNOLOGY CO., LTD.**

# **DCC Type Coordinate Measuring Machine**

## **CMM-C Series**

**CMM-C series Coordinate Measuring Machine design with moving bridge structure, granite working table, high-resolution scale and air bearing on all axes to optimize its stability and solidity of machine structure. CMM-C series integrate 3 D technology (Renishaw UCC1 3-axis controller with Joystick, Renishaw probing system for complex part measurement and CMM measuring 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-554C**



## CMM-C Series Specifications :

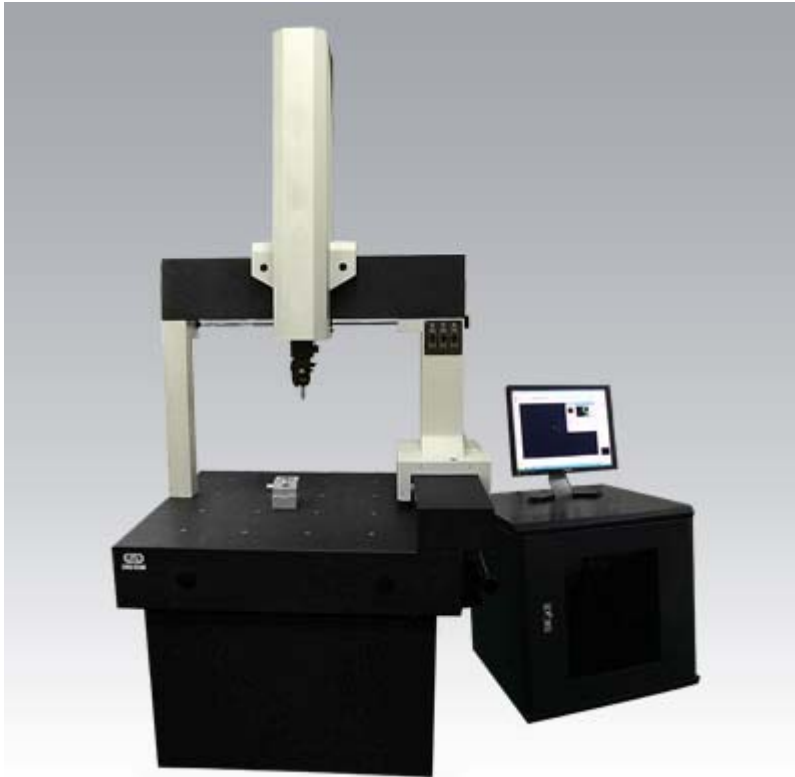
| Model                                     |   | CMM-554C                           | CMM-665C          | CMM-886C                           | CMM-10108C        |
|-------------------------------------------|---|------------------------------------|-------------------|------------------------------------|-------------------|
|                                           |   | CMM-574C                           | CMM-685C          | CMM-8106C                          | CMM-10128C        |
|                                           |   | CMM-584C                           | CMM-6105C         | CMM-8126C                          | CMM-10158C        |
| Stroke<br>(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 Series with Joy stick |                   |                                    |                   |
| Probing System                            |   | RENISHAW MH20i                     |                   |                                    |                   |
| Motorized indexing heads/ Probing modules |   | PH10T +TP20 (Optional)             |                   |                                    |                   |
| Measuring Software                        |   | CMM Manager                        |                   |                                    |                   |
| Structure                                 |   | Moving Bridge Type                 |                   |                                    |                   |
| Guidance                                  |   | Air Bearing                        |                   |                                    |                   |
| Space Accuracy (μm)<br>ISO-10360-2        |   | MPE <sub>E</sub> = ( 3.0 + L/250 ) |                   | MPE <sub>E</sub> = ( 3.5 + L/200 ) |                   |
| Resolution (μm)                           |   | 0.5                                |                   |                                    |                   |
| Dimensions (m)                            |   | 1.21 x 1.3 x 2.33                  | 1.31 x 1.4 x 2.53 | 1.66 x 1.9 x 2.85                  | 1.85 x 2.1 x 3.25 |
|                                           |   | 1.21 x 1.5 x 2.33                  | 1.31 x 1.6 x 2.53 | 1.66 x 2.1 x 2.85                  | 1.85 x 2.3 x 3.25 |
|                                           |   | 1.21 x 1.6 x 2.33                  | 1.31 x 1.8 x 2.53 | 1.66 x 2.3 x 2.85                  | 1.85 x 2.6 x 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 x 1.6 x 2                      | 1.4 x 1.7 x 2.4   | 1.9 x 2.3 x 2.4                    | 2.4 x 2.45 x 2.4  |
|                                           |   | 1.3 x 1.8 x 2                      | 1.4 x 1.9 x 2.4   | 1.9 x 2.5 x 2.4                    | 2.4 x 2.65 x 2.4  |
|                                           |   | 1.3 x 1.9 x 2                      | 1.4 x 2.1 x 2.4   | 1.9 x 2.7 x 2.4                    | 2.4 x 2.95 x 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 °C - 22°C                       |                   |                                    |                   |
| Humidity                                  |   | 40%-70%                            |                   |                                    |                   |



**CARMAR TECHNOLOGY CO., LTD.**

# **Manual Type Coordinate Measuring Machine CMM-M Series**

**CMM-M series Coordinate Measuring Machine design with moving bridge structure, granite working table, high-resolution steel linear encoder and air bearing on all axes to optimize its stability and solidity of machine structure. Carmar CMM integrated 3 D technology (high quality Renishaw probing system: MH20i for complex part measurement and CMM measuring 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                    |                   |
| Stroke<br>(mm)                               | X | 500                         | 600               |
|                                              | Y | 500／600／700／800             | 600／800／1000      |
|                                              | Z | 400                         | 500               |
| Operation                                    |   | MANUAL                      |                   |
| Probing System                               |   | RENISHAW MH 20i             |                   |
| Motorized indexing heads/<br>Probing modules |   | PH10T +TP20 (Optional)      |                   |
| Measuring Software                           |   | CMM Manager                 |                   |
| Structure                                    |   | Moving Bridge               |                   |
| Guidance                                     |   | Air Bearing                 |                   |
| Space Accuracy (μm)<br>ISO-10360-2           |   | $MPE_E = ( 4.0 + L / 200 )$ |                   |
| Resolution (μm)                              |   | 0.5                         |                   |
| 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 ／1040 ／1180   |
| Max. Load (kg)                               |   | 200                         | 500               |
| Packaging Dimensions<br>(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 Consumption                              |   | 120 L／min (0.4 MPa)         |                   |
| Air Supply                                   |   | ≥ 0.5 MPa                   |                   |
| Temperature                                  |   | 18 °C ~ 22°C                |                   |
| Humidity                                     |   | 40 % ~ 70 %                 |                   |

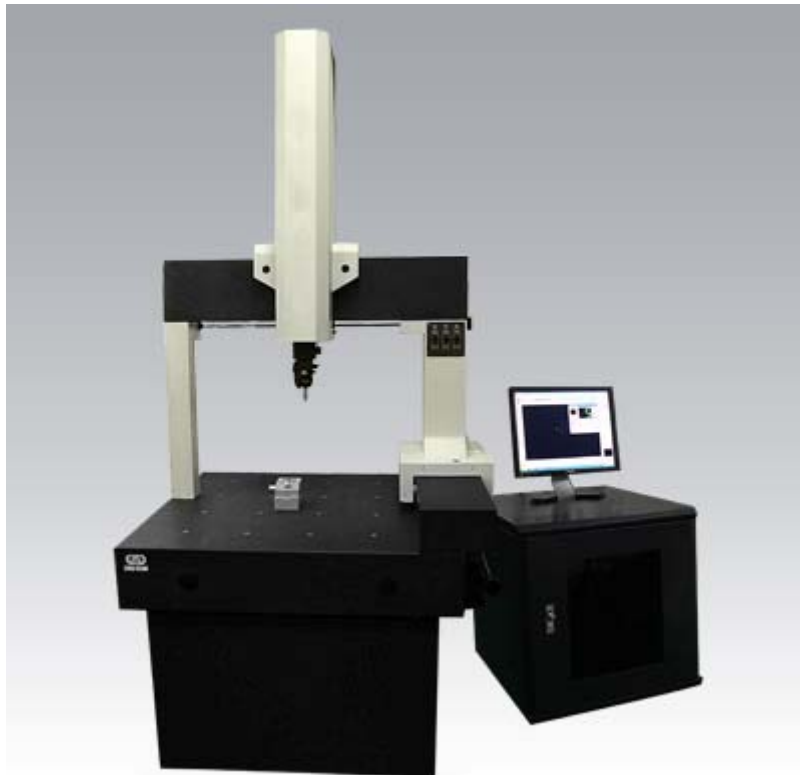


**CARMAR TECHNOLOGY CO., LTD.**

# **Versatile Type Coordinate Measuring Machine**

## **CMM-MV Series**

**CMM-MV series Versatile Coordinate Measuring Machine integrates touch probing system and non-contact video 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 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                                                                                                                                                                                                                                                |                 |                     |  |
| Stroke (mm)                        | X | 500                                                                                                                                                                                                                                                      |                 | 600                 |  |
|                                    | Y | 500／600／700／800                                                                                                                                                                                                                                          |                 | 600／800／1000        |  |
|                                    | Z | 400                                                                                                                                                                                                                                                      |                 | 500                 |  |
| Operation                          |   | Manual                                                                                                                                                                                                                                                   |                 |                     |  |
| Structure                          |   | Moving Bridge                                                                                                                                                                                                                                            | Guidance        | Air Bearing         |  |
| Space Accuracy (μm)<br>ISO-10360-2 |   | MPE <sub>E</sub> =( 4.0 + L／200 )                                                                                                                                                                                                                        | Resolution      | 0.5                 |  |
| Contact Probing System             |   |                                                                                                                                                                                                                                                          |                 |                     |  |
| Probing System                     |   | RENISHAW MH 20i                                                                                                                                                                                                                                          |                 |                     |  |
| 3D Measuring Software              |   | CMM Manager                                                                                                                                                                                                                                              |                 |                     |  |
| Video Measuring System             |   |                                                                                                                                                                                                                                                          |                 |                     |  |
| Video System                       |   | CCD Camera: SONY 1/2“ CCD Camera<br>Illumination: Adjustable surface and contour illumination with high brightness LED.<br>Magnification of zoom lens: Navitar (U.S made), 0.7X-4.5X<br>Magnification on Monitor: 30X-190X , field of view: 10.6mm-1.6mm |                 |                     |  |
| 2D Measuring Software              |   | M2D-AT/ CMM-MANAGER (optional)                                                                                                                                                                                                                           |                 |                     |  |
| 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<br>(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 %         |  |



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