



GUANGDONG JINUOSH TECHNOLOGY CO., LTD

# C SERIES

AUTO VISION MEASURING SYSTEM

**MAKE MORE ACCURATE**

**METROLOGY SOLUTIONS  
FOR ALL MANUFACTURINGS**

High Precision | Smart Software | R&D Team



## ABOUT JINUOSH

CUSTOMER FIRST QUALITY CONTROL TEAM WORK

Guangdong Jinuosh Technology Co., Ltd. is a hightech enterprise egaged in the research and development,production and sales of optical microscope, precision measuring instruments experimental equipment and various optica components and components, with a technical teamand management team specializing in the development of advanced products and proces research.

Always follow: "customer first, quality first perfect" quality policy, wholeheartedly for domesti and foreign customers to provide beautiful shape,excellent performance, reasonable price,user satisfaction's testing equipment products, the products are mainly exported,our company has won the trust and praise of many customers by providing allround assistance, high quality and sincere service. The company has gradually established the leading position in the testing instrument industry in China.In the domestic and international markets to establish a good brand, with its strong strength and good reputation in the industry, to become the world's top brands of excellent partners.

### GUANGDONG JINUOSH TECHNOLOGY CO., LTD

Service Hot: 4000 628860

Tel:0769-22820867

E-mail : Sales1@jinuosh.com

Website: www.jinuosh.com

Address: No.25 Dongke Road,Dongcheng Distric,Dongguan city,Guangdong province,China

AUTO VISION MEASURING SYSTEM

# C SERIES OF COLUMN TYPE

PRECISION MEASURING MODELS FOR SMALL-SIZED PARTS

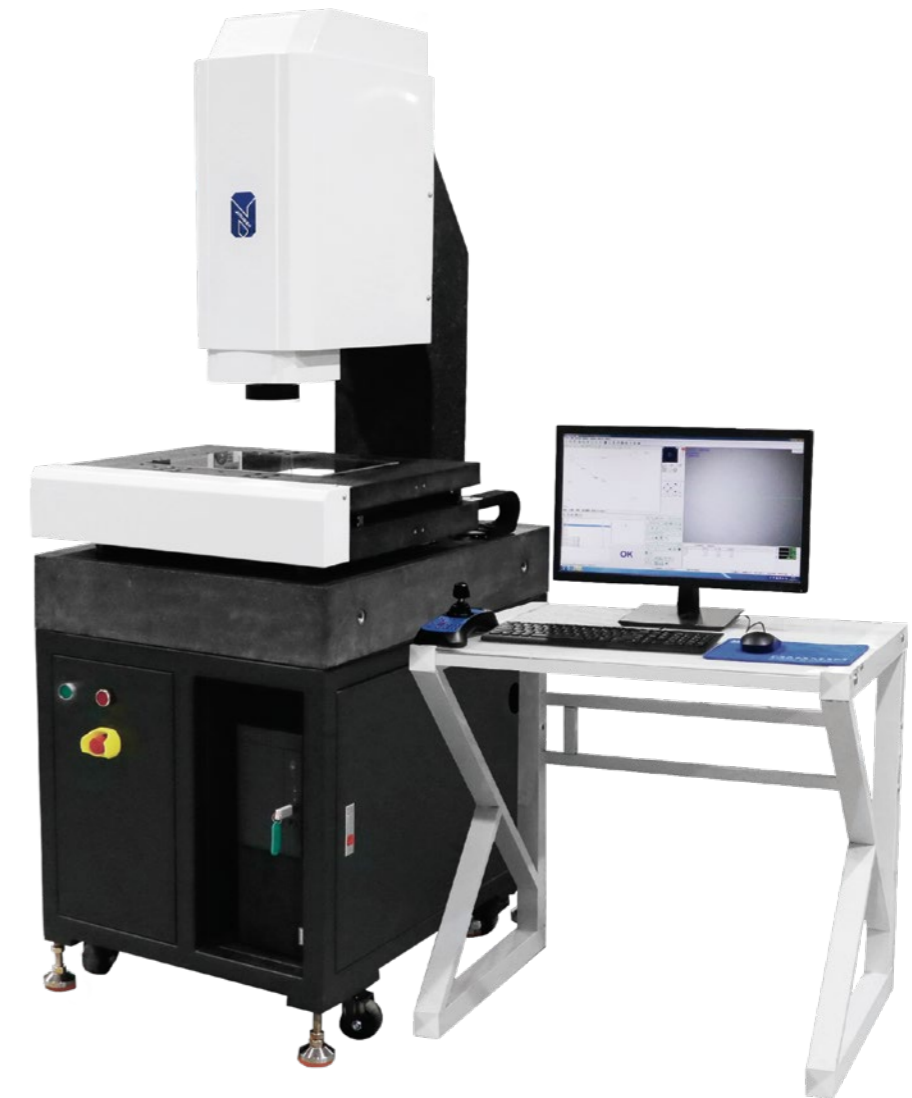


METROLOGY SOLUTIONS FOR ALL MANUFACTURINGS

PRODUCT INTRODUCTION

## Features

- Granite base and pillar, good stability.
- Moving Column type structure, measuring workpiece is fixed.
- Gige high-resolution digital camera, to ensure clear image without distortion.
- High-resolution motorized zoom lens, accurate doubling and one times pixel correction only needed.
- Brand linear scale, resolution is 0.5 $\mu$ m, grinding ball screw and brand servo motor etc. to ensure the precision and stability of the motion system.
- With programmable surface 3-ring 8-division LED Cold Illumination and contour LED parallel illumination and built-in intelligent light adjustment, it can automatic control the brightness in the 8-division.



Measuring stroke(mm)

|   | C300 | C400 | C500 |
|---|------|------|------|
| X | 300  | 400  | 500  |
| Y | 200  | 300  | 400  |
| Z | 200  | 200  | 200  |

Resolution: 0.5 $\mu$ m

AUTO VISION MEASURING SYSTEM

# HIGH PRECISION IMAGE MEASURING INSTRUMENT

MODELS FOR MEASURING LARGE-SIZED PARTS



METROLOGY SOLUTIONS FOR ALL MANUFACTURINGS

## Features

- Granite base and pillar, good stability.
- Moving multiple type of structures, bridge measuring workpieces are fixed.
- Accurate measurement can be achieved despite variation in component positioning.
- HD color Gige camera to meet the needs of clear observation and accurate measurement.
- High-resolution motorized zoom lens, accurate doubling and one times pixel correction only needed.
- Optional MCP Probe and Laser Sensor Module. Machines can be customized according to customers' requirements.
- Brand linear scale, resolution is 0.5 $\mu$ m, HIWIN screw and brand servo motor etc. to ensure the precision and stability of the motion system.
- With programmable surface 3-ring 8-division LED Illumination and white LED parallel illumination and built-in intelligent light adjustment, it can automatically control the brightness in the 8-division.



Measuring stroke(mm)

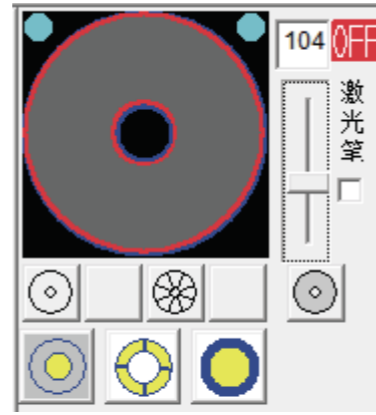
|   | C650 | C850 | C1000 | C1200 | C1600 | C2000 | C2600 |
|---|------|------|-------|-------|-------|-------|-------|
| X | 550  | 650  | 800   | 1000  | 1200  | 1400  | 1600  |
| Y | 650  | 850  | 1000  | 1200  | 1600  | 2000  | 2600  |
| Z | 200  | 200  | 200   | 200   | 200   | 200   | 200   |

Resolution: 0.5 $\mu$ m

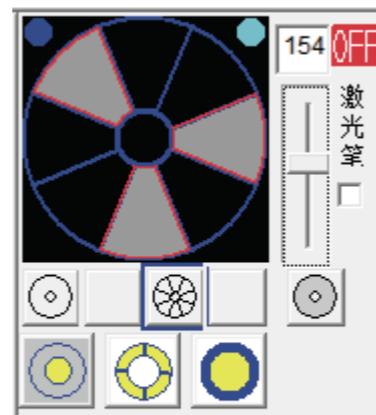
PRODUCT INTRODUCTION

# LIGHT SOURCE

- ◆ Highest Magnification, 250X
- ◆ High Brightness Macro Ring Light
- ◆ Moving Speed Up to 400 mm/sec
- ◆ Effective Lighting Control
  - ▮ Surface Light
  - ▮ Profile Light
- ◆ Advanced Lighting Control (from 27' to 75°)
  - ▮ 3 rings
  - ▮ 8 Sectors
- ◆ Video Image Saving, JPEG/BMP



Control as a Whole



Control by Octants



Profile Light

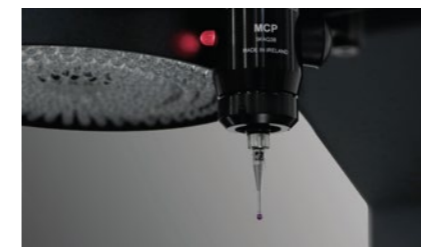
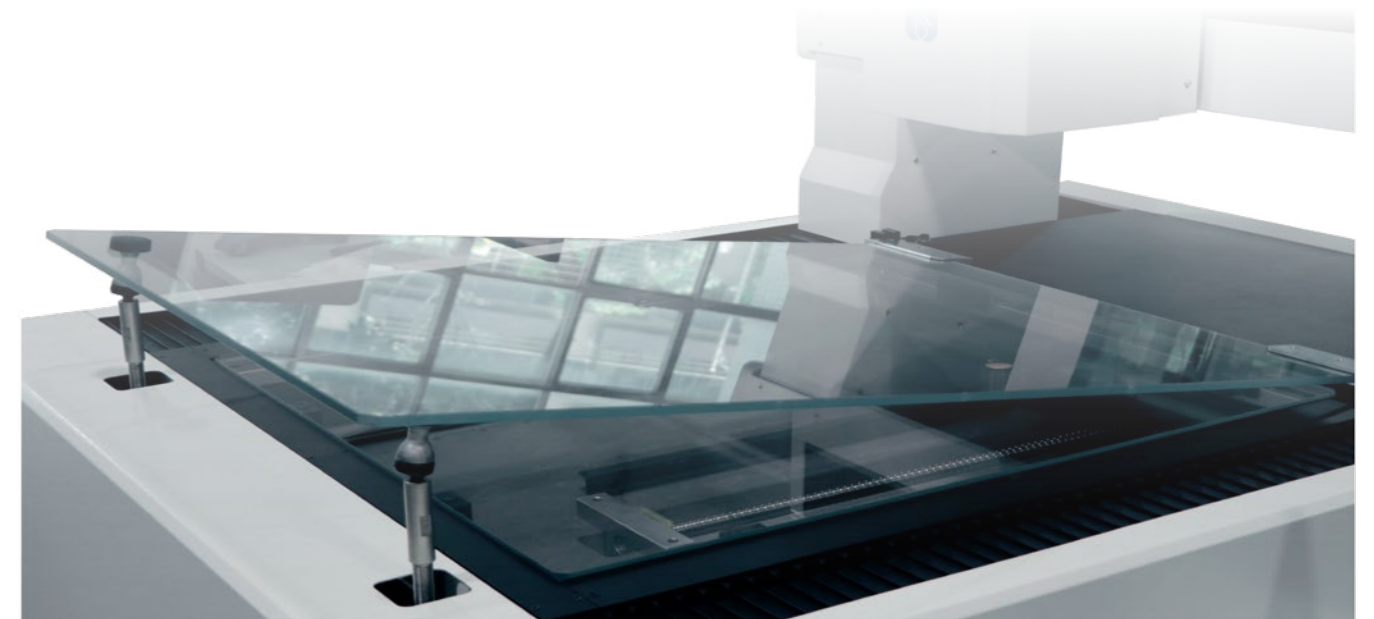


Surface Light

# OPTIONALS

## Glass fixture pressure plate

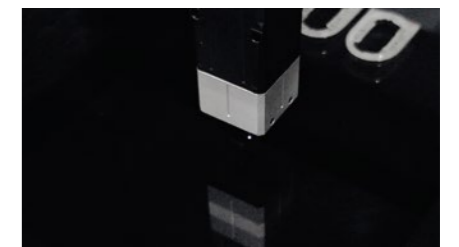
- The Platen is intended to hold a thin (< 5mm thick) work piece to allow it to be measured optically.
- ◆ System control safety protection automatically.
- ◆ The Platen can be opened and closed manually with InSpec's on-screen tools.
- ◆ The Platen can be automatically opened and closed during program playback with the Command Line Feature.



Sensor Probe



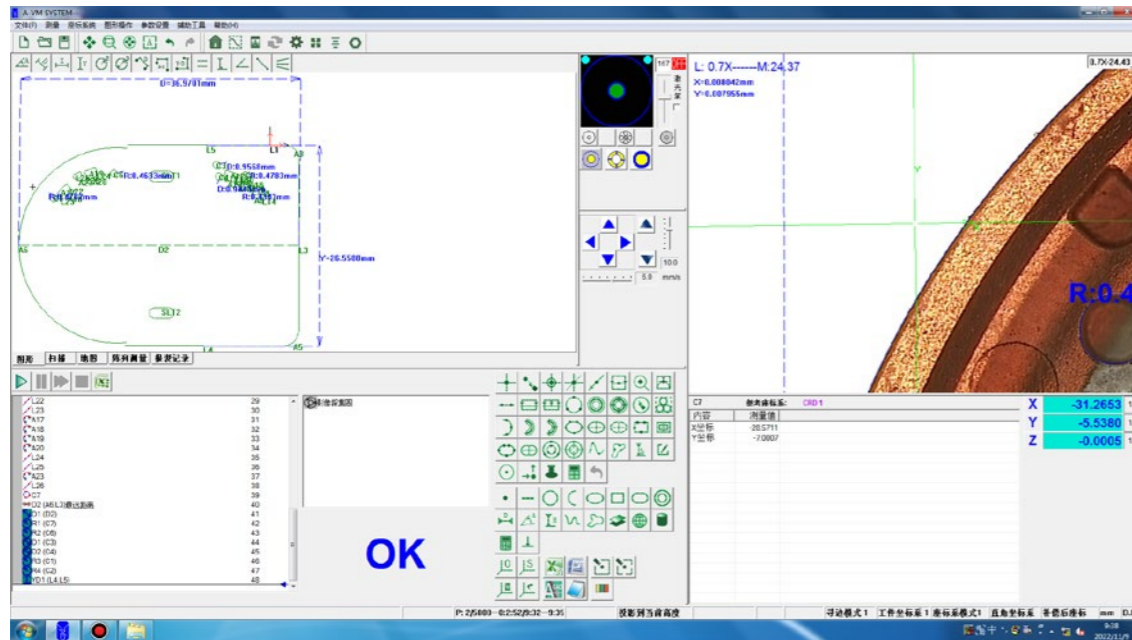
Displacement Sensor



Displacement Sensor

# Powerful software for calculating accurate measurements

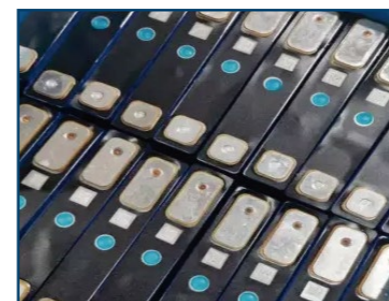
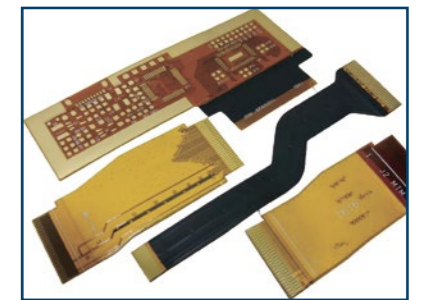
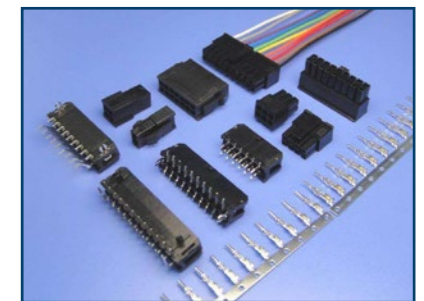
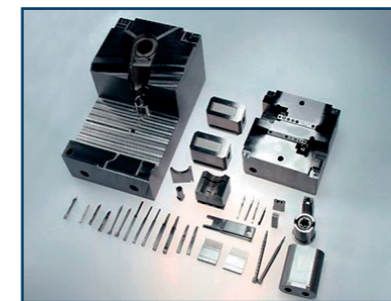
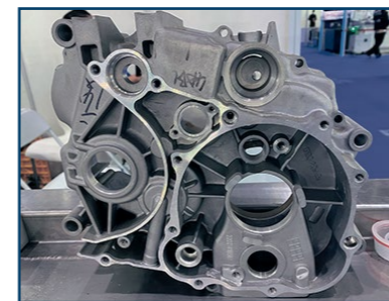
# APPLICATION



A-VM AutoMeasure, dimensional measurement software for the ever-evolving C series. Support functions to create measurement programs have been further enhanced, making fast, highly accurate dimensional measurements easier than ever.

## SOFTWARE

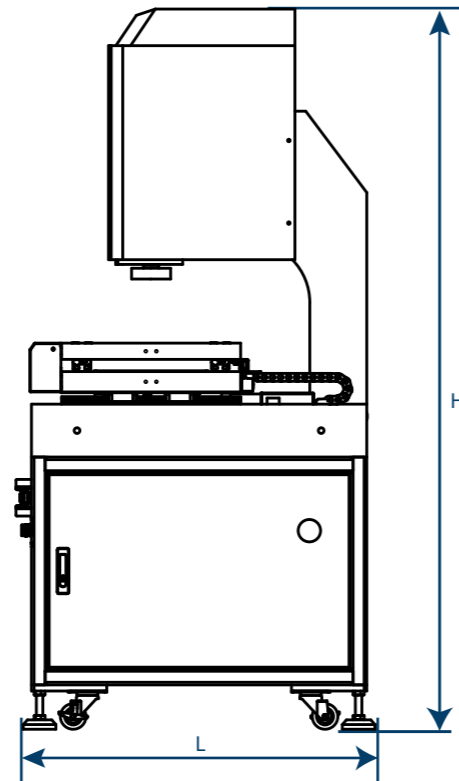
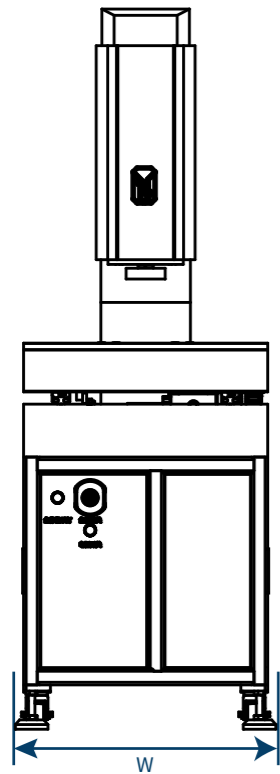
- ◆ GUI to efficiently create programs with intuitive operation and easy-to-understand guide.
- ◆ Inspection results, specially SPC used can be imported and automatically reflected into the measurement results.
- ◆ Measurement programs can be created by selecting the icon for edge detection and that which should be measured.
- ◆ Automatically optimizes the type of lighting, direction of ring illumination, and light intensity according to features of object measured. Makes it possible to reduce the amount of time and effort spent creating measurement programs.
- ◆ Computer-aided design (CAD) data can be used to create measurement programs for offline teaching before any sample is obtained. Working on a separate computer to the A-VM main unit frees it up so it can be used to full capacity.



# SPECIFICATIONS

\*(L= is the measured length, unit mm)

| Model                 | C300   | C400          | C500          |
|-----------------------|--|---------------|---------------|
| Stage glass size(mm)  | 370×270  | 420×320       | 520×420       |
| Maximum stage loading | 20KG   |               |               |
| X/Y Linear Accuracy   | (2.0+L/200)μm  | (2.3+L/200)μm |               |
| Z Accuracy            | (5.0+L/100)μm  |               |               |
| Observation and Image | 1/2 "GIGE Color Camera,1.3MP                             |               |               |
|                       | Zoom Lens:0.7X - 4.5X auto zoom lens                     |               |               |
|                       | Monitor magnification : 40X-250X                         |               |               |
|                       | Jinuosh 3D Automatic Measurement software                |               |               |
|                       | Working distance:90mm                                    |               |               |
| Illumination unit     | White LED 3 ring 8 region programmable ring light source |               |               |
|                       | White LED transmission light source                      |               |               |
| Net Weight            | 320KG  | 420KG         | 620KG         |
| Dimensions(mm)        | 850×630×1770   | 950×730×1770  | 1100×880×1770 |



\*(L= is the measured length, unit mm)

| C650   | C850           | C1000          | C1200          | C1600          | C2000          | C2600          |
|--|----------------|----------------|----------------|----------------|----------------|----------------|
| 628×728  | 728×928        | 876×1096       | 1076×1296      | 1276×1696      | 1476×2096      | 1673×2654      |
| 30KG   |                |                | 50KG           |                |                |                |
| (3.0+L/200)μm  |                |                | (5.0+L/150)μm  |                |                |                |
| (5.0+L/100)μm  |                |                |                |                |                |                |
| 1/2 "GIGE Color Camera,1.3MP                             |                |                |                |                |                |                |
| Zoom Lens:0.7X - 4.5X auto zoom lens                     |                |                |                |                |                |                |
| Monitor magnification : 40X-250X                         |                |                |                |                |                |                |
| Jinuosh 3D Automatic Measurement software                |                |                |                |                |                |                |
| Working distance:90mm                                    |                |                |                |                |                |                |
| White LED 3 ring 8 region programmable ring light source |                |                |                |                |                |                |
| White LED transmission light source                      |                |                |                |                |                |                |
| 760KG  | 960KG          | 1200KG         | 1500KG         | 3500KG         | 5000KG         | 7000KG         |
| 1450×1150×1700   | 1800×1250×1700 | 1920×1420×1700 | 2250×1650×1700 | 2650×1850×1700 | 3050×2050×1700 | 3500×2700×1700 |

