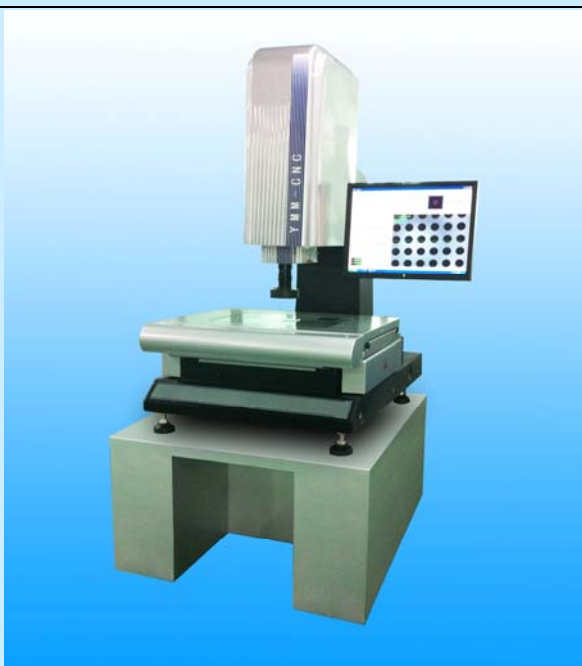


Cantilever Full-Auto Vision Measuring Machine YMM-CNC Series (**Standard Model**)



Instrument Usage

By using imported high-precise ball screw drive and high positioning servo control technology and combining with YR-CNC auto measuring software developed by us and university jointly, this machine makes high-efficient and accurate measurement in large quantities available. It is suitable for inspection and quality control of precise parts, and widely used in industries of machinery, electronics, metal, plastic etc.

Features

1. X.Y.Z axis is driven by **Japan "Cool Muscle" Servo motor**, high positioning accuracy, smooth operation
2. Originally imported **American TEO 1/2" 0.43M Pixel color CCD Camera**
3. Originally imported **American Navitar 0.7-4.5X Step Zoom Lens**
4. X.Y.Z axis adopts high precise granite, so the performance is very stable.
5. Programmable constant current driven **8 division LED ring surface light** as a very good light source system can provide very good illumination effects.
6. Functional full-auto measuring software model **YR-CNC** can program and measure automatically

Specifications

| Item Model | YMM-3020CNC | YMM-4030CNC | YMM-5040CNC |
|------------------------|---|----------------|----------------|
| X.Y.Z Axis travel (mm) | 300*200*200 | 400*300*200 | 500*400*200 |
| X.Y.Z axis Resolution | 0.001mm | | |
| Measuring Software | YR-CNC measuring software | | |
| Servo Motor | Japan "Cool Muscle" Servo Motor | | |
| Measuring Hardware | Lenovo Computer + 17" LCD Monitor("Celeron " 4 CPU, 160G Hard disc, 1G Memory) | | |
| Zoom Lens | American "Navitar"0.7-4.5X Step-Zoom Lens | | |
| Total Magnification | 20X~266X (12-312X is available) | | |
| CCD Camera | American TEO 1/2" 0.43Mpixel High-Definition Color CCD Camera | | |
| Surface Illumination | 8 Divisions program control light source | | |
| Contour Illumination | Infinite LED adjustable light source | | |
| X.Y Axis Accuracy | (3+L/200)um | | |
| Repeatability | 0.003mm | | |
| Transmission System | Imported high-precise ball screw transmission system | | |
| Operation System | CNC program control operation system | | |
| Loading Weight | 35Kgs | | |
| Dimension(L*W*H) | 1324*1220*1770mm | 830*580*1100mm | 970*720*1100mm |
| Machine Weight | 330 | 560 | 630 |

Jointwin9825@gmail.com

Cantilever Full-Auto 3D Vision Measuring Machine YMM-TCNC Series (**Standard Model**)



Instrument Usage

By using imported high-precise ball screw drive and high positioning servo control technology and combining with YR-TCNC auto measuring software developed by us and university jointly, this machine makes high-efficient and accurate measurement in large quantities available. It is suitable for inspection and quality control of precise parts, and widely used in industries of machinery, electronics, metal, plastic etc.

Features

1. X.Y.Z axis is driven by Japan **"Cool Muscle" Servo motor**, high positioning accuracy, smooth operation
2. Originally imported **American TEO 1/2" 0.43M Pixel color CCD Camera**
3. Originally imported **American Navitar 0.7-4.5X Step Zoom Lens**
4. X.Y.Z axis adopts high precise granite, so the performance is very stable.
5. Programmable constant current driven **8 division LED ring surface light** as a very good light source system can provide very good illumination effects.
6. Functional full-auto measuring software model **YR - TCNC** can program and measure automatically

Specifications

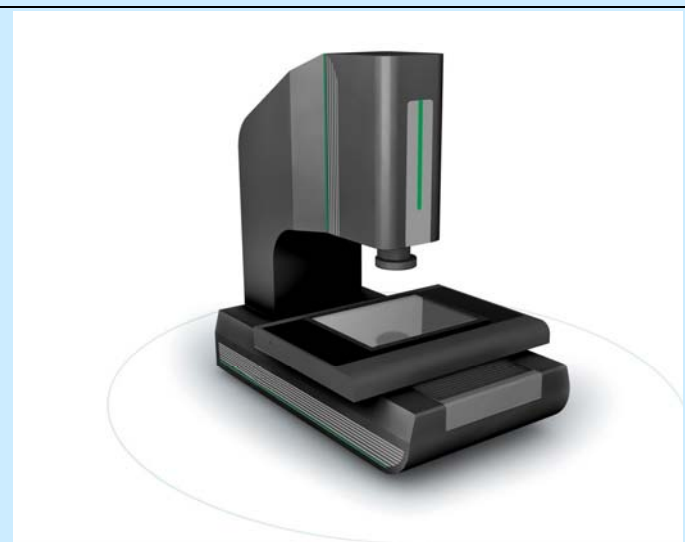
| Item \ Model | YMM-T3020CNC | YMM-T4030CNC | YMM-T5040CNC |
|------------------------|--|--------------|--------------|
| X.Y.Z Axis travel (mm) | 300*200*200 | 400*300*200 | 500*400*200 |
| X.Y.Z axis Resolution | 0.001mm | | |
| Measuring Software | YR-TCNC measuring software | | |
| Servo Motor | Japan "Cool Muscle" Servo Motor | | |
| Measuring Hardware | Lenovo Computer + 17" LCD Monitor("Celeron " 4 CPU, 160G Harddisc, 1G Memory) | | |
| Zoom Lens | American "Navitar" 0.7-4.5X Step-Zoom Lens | | |
| Total Magnification | 20X~266X (12-312X is available) | | |
| CCD Camera | American TEO 1/2" 0.43Mpixel High-Definition Color CCD Camera | | |
| Surface Illumination | 8 Divisions program control light source | | |
| Contour Illumination | Infinite LED adjustable light source | | |
| X.Y Axis Accuracy | (3+L/200)um | | |
| Measuring Way | Video + Probe | | |
| Repeatability | 0.003mm | | |

| | | | |
|---------------------|--|----------------|----------------|
| Probe | British "Renishaw" MCP touch probe | | |
| Transmission System | Imported high-precise ball screw transmission system | | |
| Operation System | CNC program control operation system | | |
| Loading Weight | 35Kgs | | |
| Dimension(L*W*H) | 1324*1220*1770mm | 830*580*1100mm | 970*720*1100mm |
| Machine Weight | 330 | 560 | 630 |

Cantilever Full-Auto Video-Type 3D CNC Vision Measuring Machine YMC-Classical Series

Introductions:

YMC-Classical series is an classical CNC video measuring machine for basic measurement. It adopts the creative electronic boxout lens with flexible manual zoom, plus the excellent hardware and software, perfectly achieving kinds of measuring demands. This model is widely used in the fields like tooling, precision metals, cellphone panel, glass and touch screen.



Machine Features:

- ◆ CNC measurement on axis of X,Y,Z;
- ◆ 3-axis CNC control makes the platform move stably and safely;
- ◆ 6 rings 8 octants controlled light achieve 256 brightness adjustable;
- ◆ Imported industrial digital color camera meets the clear observation and stable measurement;
- ◆ The top-level video measuring software Vispec provides full measuring functions;
- ◆ Automatic measuring task could be set to achieve fast and efficient batch measurement;
- ◆ The creative electronic boxout lens could cut zoom rate easily without recalibration;
- ◆ Accessories like laser and probe could be added per customer requirement.
- ◆ Diversified output reports, SPC data analysis.

Specifications:

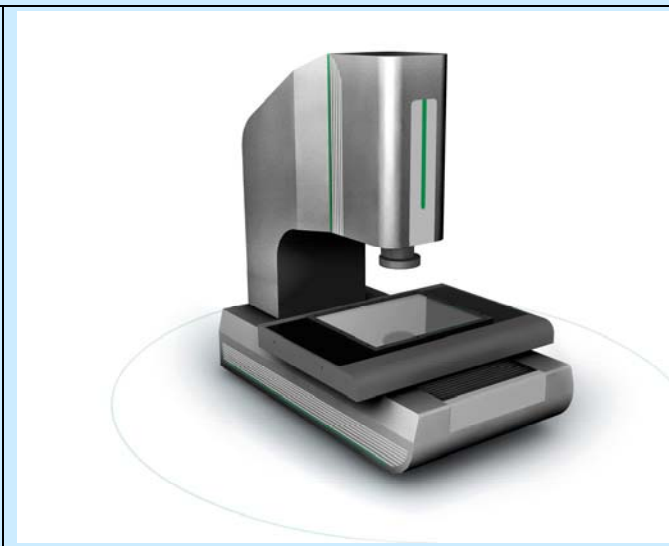
| Model | YMC-2020Classical | YMC-3020Classical | YMC-4030Classical | YMC-5040Classical |
|-------------------------|-------------------|-----------------------|-------------------|-----------------------|
| Range(mm) | 200×200×200 | 300×200×200 | 400×300×200 | 500×400×200 |
| External Dimensions(mm) | 1040×740×1620 | 1040×740×1620 | 1240×800×1620 | 1440×1000×1620 |
| Weight(kg) | 240 kg | 250 kg | 310 kg | 400 kg |
| Capacity(kg) | 25 kg | 25 kg | 25 kg | 25 kg |
| Accuracy | XY | $E2=(2.6+L/200)\mu m$ | | $E2=(3.0+L/200)\mu m$ |
| | Z | $E1=(5.0+L/200)\mu m$ | | |
| Speed | XY | 200mm/S | | |
| | Z | 100mm/S | | |

| | | |
|--|---------|--|
| Scale | | 1.0 μm resolution |
| Guide | | Hiwin |
| CCD Camera | | Imported industrial color CCD camera |
| Illumination | Profile | LED lighting, 256 brightness adjustable |
| | Surface | 6 rings 8 octants LED cold light, each segment independently controlled, 256 brightness adjustable |
| Optical Lens | | electronics boxout lens, 6.5:1 continuous zooming |
| Magnification | | Optical zoom range: 0.7X \sim 4.5X; Video zoom range: 32X \sim 208X |
| Software | | Vispec metrology software (YMC-Classical Version) |
| Motion Control | | Patented CNC DC Servo System |
| Warranty | | 1 year |
| Environment | | Temperature 20 $^{\circ}\text{C}$ \pm 2 $^{\circ}\text{C}$, <2 $^{\circ}\text{C}$ /hr, Humidity 30 \sim 80% |
| | | Vibration <0.002g, lower than 15Hz |
| Power | | 220V/50Hz/10A |
| <p>Remarks: Mechanical accuracy of Z and focus accuracy depends on the part surface.</p> <p>Coaxial lighting is available for option. The specification is same as profile lighting..</p> <p>Magnification depends on monitor size and resolution.0.5X or 2X additional lens are available for option to achieve the magnification 12-78.5X or 48-314X</p> | | |

Cantilever Full-Auto Video-Type 3D Vision Measuring Machine YMC-Lexus Series

Introductions:

YMC-Lexus series is a classical video measuring machines which contain the innovative design and with many measuring functions. It is the ideal choice for manufacturing industry due to its high precision and stability. The quality and accuracy of these machines have been certified by Chinese National Institute of Metrology, which is the official authority in the metrology industry of China.



Machine Features:

- ◆ Automatic measurement with 4-axis CNC control;
- ◆ 3-axis precision linear guide and precision drive system;
- ◆ Precision granite machine body with high accuracy and stability;
- ◆ Imported automatic zoom optical lens achieves automatically zoom measurement;
- ◆ Automation control fully by mouse is easy to use;
- ◆ Programmable 6 rings 8 octants circle surface lighting, LED profile lighting;

Jointwin9825@gmail.com

- ◆ Automatic focus for height measurement, touch probe could be added;
- ◆ Configurations with various measuring ranges are available, such as 200*200mm, 300*200mm, 400*300mm and 500*400mm etc.

Specifications:

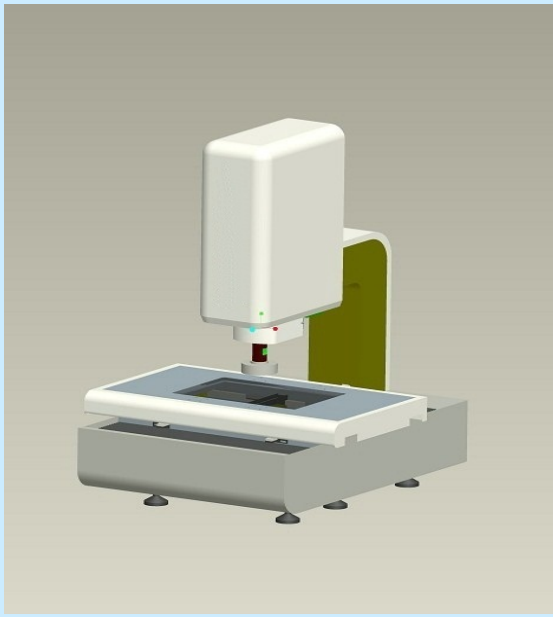
| Model | YMC-2020CNC Lexus | YMC-3020CNC Lexus | YMC-4030CNC Lexus | YMC-5040CNC Lexus |
|-------------------------|-------------------|--|-------------------|-----------------------|
| Range(mm) | 200×200×200 | 300×200×200 | 400×300×200 | 500×400×200 |
| External Dimensions(mm) | 1040×740×1620 | 1040×740×1620 | 1240×800×1620 | 1440×1000×1620 |
| Weight(kg) | 240 kg | 250 kg | 310 kg | 400 kg |
| Capacity(kg) | 25 kg | 25 kg | 25 kg | 25 kg |
| Accuracy | XY* | $E2=(2.2+L/200)\mu m$ | | $E2=(2.6+L/200)\mu m$ |
| | Z | $E1=(5.0+L/200)\mu m$ | | |
| Speed | XY | 200mm/S | | |
| | Z | 100mm/S | | |
| Scale | | 0.5 μm imported scale | | |
| Guide | | Hiwin | | |
| CCD Camera | | 1.3 mega-pixel digital color camera | | |
| Illumination | Profile | LED lighting, 256 brightness adjustable | | |
| | Surface | 6 rings 8 octants LED cold light, each segment independently controlled, 256 brightness adjustable | | |
| Optical Lens | | 6.5:1 continuous zooming | | |
| Magnification | | 6.5:1 programmable zoom, with magnification 29x ~163x or 58x ~326x | | |
| Software | | Vispec metrology software (YMC-Lexus Version) | | |
| Motion Control | | Patented CNC DC Servo System | | |
| Warranty | | 1 year | | |
| Environment | | Temperature 20℃±2℃, <2℃/hr, Humidity 30~80% | | |
| | | Vibration <0.002g, lower than 15Hz | | |
| Power | | 220V/50Hz/10A | | |

Remarks: Mechanical accuracy of Z and focus accuracy depends on the part surface.

Coaxial lighting is available for option. The specification is same as profile lighting..

Magnification depends on monitor size and resolution.0.5X or 2X additional lens are available for option to achieve the magnification 12-78.5X or 48-314X

Cantilever Full-Auto 3D Vision Measuring Machine YMM-CNC-H Series (High-end Model)



Instrument Usage

By using imported high-precise ball screw drive and high positioning servo control technology and combining with YR-CNC auto measuring software developed by us and university jointly, this machine makes high-efficient and accurate measurement in large quantities available. It is suitable for inspection and quality control of precise parts, and widely used in industries of machinery, electronics, metal, plastic etc.

Features

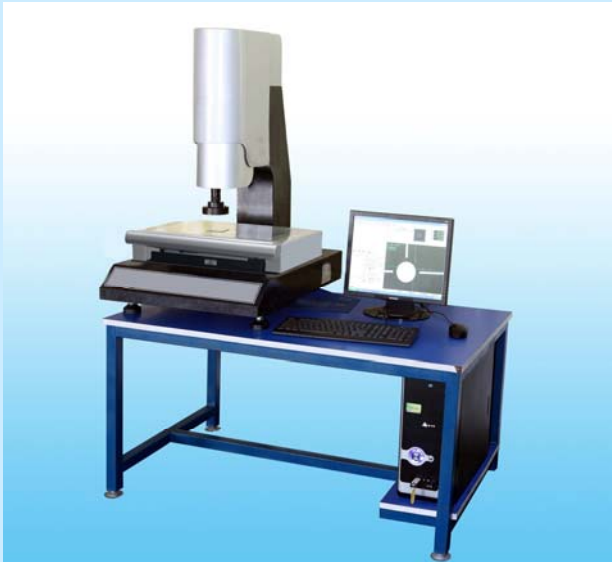
1. X.Y.Z axis is driven by **Japan "Panasonic" DC Servo motor**, high positioning accuracy, smooth operation
2. Originally imported **American TEO 1/2" 0.43M Pixel color CCD Camera**
3. Originally imported **American Navitar 0.7-4.5X Zoom Lens**
4. X.Y.Z axis adopts high precise granite, so the performance is very stable.
5. Programmable constant current driven **8 division LED ring surface light** as a very good light source system can provide very good illumination effects.
6. Functional full-auto measuring software model **YR - CNC** can program and measure automatically
7. Renishaw metal steel scale
8. Japan THK high-precise guides
9. Machine accuracy: $(2.3+L/250)\mu\text{m}$, repeatability: $3\mu\text{m}$

Specifications

| Item \ Model | YMM-3020CNC-H | YMM-4030CNC-H | YMM-5040CNC-H |
|------------------------|--|---------------|---------------|
| X.Y.Z Axis travel (mm) | 300*200*200 | 400*300*200 | 500*400*200 |
| X.Y.Z axis Resolution | 0.001mm | | |
| Measuring Software | YR-CNC measuring software | | |
| Servo Motor | Japan "Panasonic" DC Servo Motor | | |
| Measuring Hardware | Lenovo Computer + 17" LCD Monitor("Celeron " 4 CPU, 160G Harddisc, 1G Memory) | | |
| Zoom Lens | American "Navitar" 0.7-4.5X Zoom Lens | | |
| Total Magnification | 20X~266X (12-312X is available) | | |
| CCD Camera | American TEO 1/2" 0.43Mpixel High-Definition Color CCD Camera | | |
| Surface Illumination | 8 Divisions program control light source | | |
| Contour Illumination | Infinite LED adjustable light source | | |
| X.Y Axis Accuracy | $(2.3+L/250)\mu\text{m}$ | | |
| Measuring Way | Video + Probe | | |

| | | | |
|-------------------------|--|----------------|----------------|
| Repeatability | 0.003mm | | |
| Probe (Optional) | British “ Renishaw ” MCP touch probe | | |
| Transmission System | Imported high-precise ball screw transmission system | | |
| Operation System | CNC program control operation system | | |
| Loading Weight | 35Kgs | | |
| Dimension(L*W*H) | 1324*1220*1770mm | 830*580*1100mm | 970*720*1100mm |
| Machine Weight | 330 | 560 | 630 |

Cantilever Full-Auto 3D Vision Measuring Machine YMM-CNC-E Series **(Electronic Model)**

| | |
|---|---|
|  | <h3>Instrument Usage</h3> <p>By using imported high-precise ball screw drive and high positioning servo control technology and combining with YR-CNC-E auto measuring software developed by us and university jointly, this machine makes high-efficient and accurate measurement in large quantities available. It is suitable for inspection and quality control of precise parts, and widely used in industries of machinery, electronics, metal, plastic etc.</p> |
|---|---|

Features

1. X.Y.Z axis is driven by **home-made step motor**, high positioning accuracy, smooth operation
2. Sony chip **1/2” 0.43Mpixel color CCD Camera**
3. Home-made high definition **0.7-4.5X Step Zoom Lens**
4. X.Y.Z axis adopts high precise granite, so the performance is very stable.
5. Programmable constant current driven **8 division LED ring surface light** as a very good light source system can provide very good illumination effects.
6. Functional full-auto measuring software model **YR - CNC** can program and measure automatically

Specifications

| Item \ Model | YMM-3020CNC-E | YMM-4030CNC-E | YMM-5040CNC-E |
|------------------------|---|---------------|---------------|
| X.Y.Z Axis travel (mm) | 300*200*200 | 400*300*200 | 500*400*200 |
| X.Y.Z axis Resolution | 0.001mm | | |
| Measuring Software | YR-CNC measuring software | | |
| Servo Motor | Home-made step motor | | |
| Measuring Hardware | Lenovo Computer + 17” LCD Monitor(“Celeron ” 4 CPU, 160G Hard disc, 1G Memory) | | |
| Zoom Lens | Home-made 0.7-4.5X Step Zoom Lens | | |
| Total Magnification | 20X～266X (12-312X is available) | | |
| CCD Camera | Sony chip 1/2” 0.43Mpixel High-Definition Color CCD Camera | | |
| Surface Illumination | 8 Divisions program control light source | | |
| Contour Illumination | Infinite LED adjustable light source | | |

Jointwin9825@gmail.com

| | | | |
|---------------------|---|----------------|----------------|
| X.Y Axis Accuracy | (3+L/75)um | | |
| Measuring Way | Video + Probe | | |
| Repeatability | 0.005mm | | |
| Probe (Optional) | British “Renishaw” MCP touch probe | | |
| Transmission System | high-precise ball screw transmission system | | |
| Operation System | CNC program control operation system | | |
| Loading Weight | 35Kgs | | |
| Dimension(L*W*H) | 1324*1220*1770mm | 830*580*1100mm | 970*720*1100mm |
| Machine Weight | 330 | 560 | 630 |

Gantry-type Manual 3D Horizontal Vision Measuring Machine YMM-H Series



Introduction:

This machine is suitable for all 2D measurements, it is widely used in the field of PCB board, large LCD, plastic/rubber cover, and large-size of mould. Functional measuring software of YR-VT can achieve not only all 2D flatness measurement but take photo (map), profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on. Z axis can realize accurate measurement and flatness measurement.

Specifications

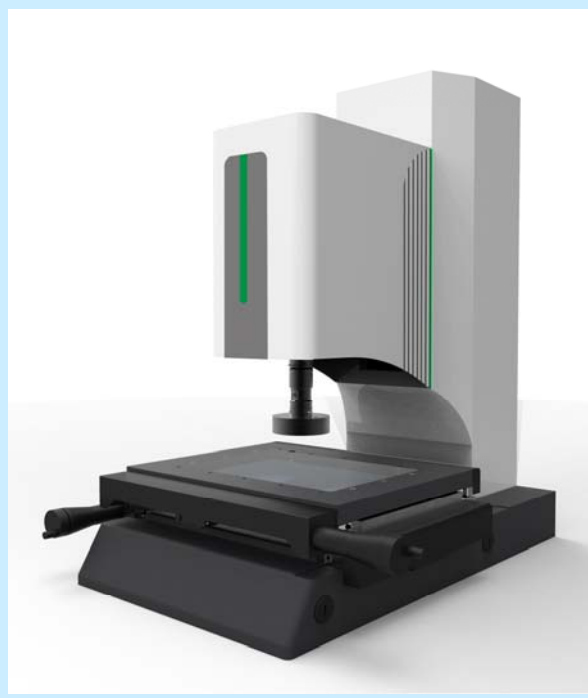
| Item \ Model | YMM-5040H | YMM-6050H | YMM-8060H |
|----------------------------|---|---------------|---------------|
| X.Y.Z Axis travel (mm) | 500*400*200 | 600*500*200 | 800*600*200 |
| Z Axis Travel (mm) | 200 | | |
| X.Y.Z Axis Resolution (mm) | 0.001 | | |
| Zoom Lens | High definition 0.7~4.5X zoom lens | | |
| Magnification | 24-156X (12-312X is available) | | |
| CCD Camera | 430,000 Pixels high definition Sony Chip CCD | | |
| X.Y Axis Accuracy | (3+L/100)um | | |
| Measuring Software | YR-VT measuring software (can realize accurate measurement and flatness measurement.) | | |
| Machine Bracket | Gantry square pipe steel support bracket | | |
| Machine base | 000 grade stable granite base | | |
| Instrument Base | 000 grade stable granite base | | |
| Table Loading | 25 kgs | 30kgs | 35kgs |
| Machine dimension (mm) | 1100*600*1500 | 1300*700*1500 | 1800*800*1500 |

| | | | |
|----------------------|---------------------|--------|--------|
| Machine Weight | 300kgs | 350kgs | 450kgs |
| Optional Accessories | Objective: 0.5X; 2X | | |

Video-Type 3D Vision Measuring Machine YMM-Lexus Series

Introductions:

YMM-Lexus is an easy-to-use video measuring machine with the technology of CNC measuring machine on hardware and software. It achieves the accurate measurement on point, line and circle with its powerful video measuring software and reports output, especially fit for the products in variety and small batch. It is applied widely in the fields of tooling, machining, electronics and precision metals



Machine Features:

- ◆ Precision transmission equipment achieves the fast movement;
- ◆ Granite machine body with high accuracy and stability;
- ◆ Auto focus, auto lighting, auto edge-searching;
- ◆ The creative electronic boxout lens could cut zoom rate easily by software automatic identification;
- ◆ DXF file could be imported for fast measurement;
- ◆ The measuring data could be imported into Word、Excel、AutoCAD;
- ◆ Report output function with pictures and words easily exports inspection results;
- ◆ 3-axis precision cross roller guide ensures the accuracy and lifetime of the machine;
- ◆ High-definition lens and high-resolution CCD achieve the high-definition measurement

Specifications:

| Model | YMM-2515Lexus | YMM-3020 Lexus | YMM-4030 Lexus |
|-------------------------|----------------------------------|-------------------|----------------|
| Range(mm) | 250×150×150 | 300×200×200 | 400×300×200 |
| External Dimensions(mm) | 600×650×800 | 700×850×950 | 800×700×950 |
| Weight(kg) | 160 | 220 | 355 |
| Capacity(kg) | 25 | 25 | 25 |
| Accuracy(μm)* | E2(X/Y)=3.0+L/200 | E2(X/Y)=3.5+L/200 | |
| Scale | 1.0 μm resolution | | |
| Guide | Cross roller guide | | |
| CCD Camera | Imported industrial color camera | | |

| | | |
|------------------|---------|---|
| Lighting** | Profile | LED lighting, 256 brightness adjustable |
| | Surface | LED lighting, 256 brightness adjustable |
| Optical Lens | | electronics boxout lens, 6.5:1 continuous zooming |
| Magnification*** | | Optical zoom range: 0.7~4.5x; Video zoom range: 32~208x |
| Software | | Vispec metrology software (YMM-Lexus Version) |
| Warranty | | 1 year |
| Environment | | Temperature 20°C±2°C, <2°C/hr, Humidity 30~80% |
| Power | | 220V/50Hz/10A |

Remarks: Coaxial lighting is available for option, The specification is same as profile lighting;

Magnification depends on monitor size and resolution, 0.5X or 2X additional lens are available for option to achieve the magnification 16-104X or 64-516X.

Integrative 3D Vision Measuring Machine YMM-T Series



Introduction:

This machine is suitable for all 2D measurements. It is widely used in the industries of machinery, electronics, watch, plastic, module etc. Its functional YR-T measuring software can realize the functions of all 2D flatness measurements, on the map, profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on. Equipped British “**Renishaw**” probe can do 3D contact measurement.


Specifications

| Item | Model | YMM-3020T | YMM-4030T | YMM-5040T |
|------------------------|-------|--|-------------|-------------|
| X.Y.Z axis Travel (mm) | | 300*200*220 | 400*300*220 | 500*400*220 |
| X.Y.Z Resolution | | 0.001mm | | |
| X.Y Axis Accuracy | | (3+L/200)um | | |
| Repeatability | | 3um | | |
| Measuring Way | | Video + probe | | |
| Magnification | | 24-156X (12-312X is available) | | |
| CCD Camera | | 430,000 Pixels high definition Sony Chip CCD | | |
| Objectives | | High definition 0.7~4.5X zoom lens | | |

Jointwin9825@gmail.com

| | | | |
|------------------------------|---|-------------|--------------|
| Measuring probe | British" Renishaw " measuring touch probe: Φ2mm | | |
| Working distance | 115mm (video) | | |
| Computer (Optional) | Lenovo Computer with "Celeron" 4 CPU, 160G hard drive, 1G memory, 17" LCD monitor | | |
| Measuring Software | YR-T measuring software | | |
| Instrument Base | 000 grade stable granite base | | |
| Illumination | Surface and contour illumination both use brightness adjustable LED shadowless lamp | | |
| Dimension (L*W*H) (mm) | 700*650*950 | 980*750*950 | 1050*800*950 |
| Machine Weight | 220 | 380 | 430 |

2D Vision Measuring Machine YMM-C Series

| | |
|--|--|
|  | <p>Introduction:</p> <p>This machine is suitable for all 2D measurements. It is widely used in the industries of machinery, electronics, watch, plastic, module etc. Its functional YR-C measuring software can realize the functions of all 2D flatness measurements, on the map, profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on.</p> |
|--|--|

Specifications

| Model Item | YMM-3020CSPC | YMM-4030CSPC | YMM-5040CSPC |
|------------------------------|---|--------------|--------------|
| X.Y axis Travel (mm) | 300*200 | 400*300 | 500*400 |
| Z axis Focusing Travel | 160mm | 200mm | 200mm |
| X.Y Resolution | 0.001mm | | |
| X.Y Axis Accuracy | (3+L/200)um | | |
| Objectives | High definition 0.7~4.5X zoom lens | | |
| Total Magnification | 24~156X (12~312X is available) | | |
| View of Field | 10~1.6mm | | |
| Repeatability | 3um | | |
| CCD | 430,000 Pixels high definition Sony Chip CCD | | |
| Computer (Optional) | Lenovo Computer with "Celeron" 4 CPU, 160G hard drive, 1G memory, 17" LCD monitor | | |

Jointwin9825@gmail.com

| | | | |
|------------------------|---|-------------|-------------|
| Measuring Software | YR-C measuring software | | |
| Instrument Base | 000 grade stable granite base | | |
| Illumination | Surface and contour illumination both use brightness adjustable LED shadowless lamp | | |
| Dimension (L*W*H) (mm) | 600*900*680 | 960*820*940 | 960*820*940 |
| Machine Weight (Kgs) | 190 | 350 | 400 |

2D High-end Vision Measuring Machine YMM-Z Series

| | |
|--|--|
|  | <p>Introduction:</p> <p>This machine is suitable for all 2D measurements. It is widely used in the industries of machinery, electronics, watch, plastic, module etc. Its functional YR-C measuring software can realize the functions of all 2D flatness measurements, on the map, profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on.</p> |
|--|--|

Specifications

| Model Item | YMM-3020Z | YMM-4030Z | YMM-5040Z |
|------------------------------|---|-----------|-----------|
| X.Y axis Travel (mm) | 300*200 | 400*300 | 500*400 |
| Z axis Focusing Travel | 160mm | 300mm | 200mm |
| X.Y Resolution | 0.001mm | | |
| X.Y Axis Accuracy | (3+L/200)um | | |
| Objectives | American" Navitar " High Definition 0.7~4.5X Zoom Lens | | |
| Total Magnification | 24X~156X (12X~312X is available) | | |
| View of Field | 10~1.6mm | | |
| Repeatability | 3um | | |
| CCD Camera | American TEO 1/2" 0.43Mpixel High Definition Color CCD Camera | | |
| Computer (Optional) | Lenovo Computer: "Celeron" 4 CPU, 160G Hard Drive, 1G memory, 17" LCD monitor | | |

Jointwin9825@gmail.com

| | | | |
|------------------------|---|-------------|-------------|
| Measuring Software | YR-C Measuring Software | | |
| Instrument Base | 000 Grade Stable Granite Base | | |
| Illumination | Surface and Contour Illumination Both use Brightness Adjustable LED Shadowless Lamp | | |
| Dimension (L*W*H) (mm) | 600*900*680 | 960*820*940 | 960*820*940 |
| Machine Weight (Kgs) | 190 | 350 | 400 |

Video-Type 3D Vision Measuring Machine YMM-VT Series



Introduction:


This machine is suitable for all 2D measurements. It is widely used in the industries of machinery, electronics, watch, plastic, module etc. Its functional YR-VT measuring software can realize the functions of all 2D flatness measurements, on the map, profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on. Z axis adopts granite column, which makes Z axis non-contact precise measurement and flatness measurement available.

Specifications

| Item \ Model | YMM-3020VT | YMM-4030VT | YMM-5040VT |
|------------------------|--|-------------|-------------|
| X.Y.Z axis Travel (mm) | 300*200*220 | 400*300*220 | 500*400*220 |
| X.Y.Z Resolution | 0.001mm | | |
| A X.Y Axis accuracy | (3+L/200)um | | |
| Repeatability | 3um | | |
| Measuring mode | Video type | | |
| CCD Camera | 430,000 Pixels high definition Sony Chip CCD | | |
| Magnification | 24X-156X (12-312X is available) | | |
| Objectives | High definition 0.7~4.5X zoom lens | | |
| Working distance | 115mm (video) | | |
| Computer (Optional) | Lenovo Computer : "Celeron" 4 CPU, 160G hard drive, 1G memory, 17" LCD monitor | | |
| Measuring Software | YR-C measuring software (it can realize the flatness measurement and the accurate measurement of Z axis) | | |
| Lifting Column | Stable granite column | | |

| | | | |
|------------------------|---|-------------|--------------|
| Instrument Base | 000 grade stable granite base | | |
| Illumination | Surface and contour illumination both use brightness adjustable LED shadowless lamp | | |
| Dimension (L*W*H) (mm) | 700*650*950 | 980*750*950 | 1050*800*950 |
| Machine Weight (Kgs) | 220 | 380 | 430 |

Video-Type 3D High-end Vision Measuring Machine YMM-ZVT Series

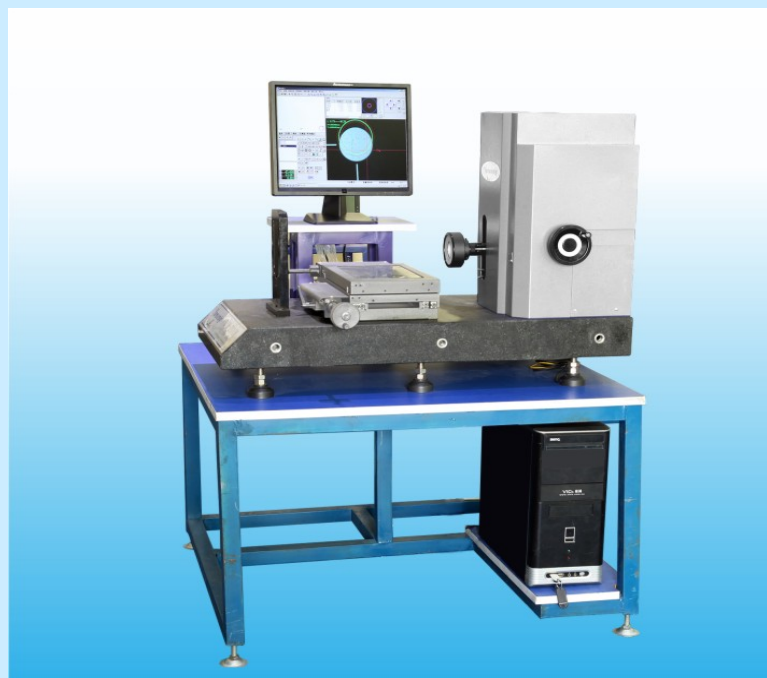
| | |
|--|--|
|  | <p>Introduction:</p> <p>This machine is suitable for all 2D measurements. It is widely used in the industries of machinery, electronics, watch, plastic, module etc. Its functional YR-VT measuring software can realize the functions of all 2D flatness measurements, on the map, profile scanning, special SPC statistics, manual CNC, Macroscopic measurement and so on. Z axis adopts granite column, which makes Z axis non-contact precise measurement and flatness measurement available.</p> |
|--|--|

Specifications

| Model Item | YMM-3020ZVT | YMM-4030ZVT | YMM-5040ZVT |
|------------------------|--|-------------|-------------|
| X.Y.Z axis Travel (mm) | 300*200*220 | 400*300*220 | 500*400*220 |
| X.Y.Z Resolution | 0.001mm | | |
| A X.Y Axis accuracy | (3+L/200)um | | |
| Repeatability | 3um | | |
| Measuring mode | Video type | | |
| CCD Camera | American TEO 1/2" 0.43 MPixels high definition Color CCD Camera | | |
| Objectives | American "Navitar" High definition 0.7~4.5X zoom lens | | |
| Working distance | 115mm (video) | | |
| Computer (Optional) | Lenovo Computer: "Celeron" 4 CPU, 160G hard drive, 1G memory, 17" LCD monitor | | |
| Measuring Software | YR-C measuring software (it can realize the accurate measurement and flatness measurement of Z axis) | | |
| Lifting Column | Stable granite column | | |
| Instrument Base | 000 grade stable granite base | | |
| Illumination | Surface and contour illumination both use brightness adjustable LED shadowless lamp | | |

| | | | |
|------------------------|-------------|-------------|--------------|
| Dimension (L*W*H) (mm) | 700*650*950 | 980*750*950 | 1050*800*950 |
| Machine Weight (Kgs) | 220 | 380 | 430 |

Horizontal Vision Measuring Machine YMM-W Series



Introduction:

Horizontal vision measuring machine is a precise high-efficient optical, mechanical and electrical integration measuring instrument, this machine can replace horizontal profile projector completely and widely used in the industries of machinery, module, meter, electronics, light industry etc, so it is one of indispensable measuring instruments in metrology room and workshop. Adopting functional YR-C measuring software, it can high-efficiently measure the profile and surface shape of all complicated work-pieces, such as templates, punching pieces, cams, forming cutters and other tools, cutting tools and parts, as well as terminals, watches, diamond etc.

Specifications

| Item \ Model | YMM-2010W | YMM-3020W |
|------------------------|---|-----------|
| X.Z Axis Travel | 200*100mm | 300*200mm |
| Y Axis Focusing Travel | 100mm | |
| X.Z Axis Resolution | 0.001mm | |
| Accuracy | (3+L/250)um | |
| Total Magnification | 24X~156X (12-312X is available) | |
| CCD | 0.43Mpixel high definition Sony Chip CCD | |
| Measuring Software | Special Vision measuring software YR-CSPC | |
| Instrument Base | 000 grade stable granite base | |
| Computer (Optional) | Lenovo Computer + 17" LCD Monitor("Celeron " 4 CPU, 160G Harddisc, 1G Memory) | |
| Illumination | Surface and contour illumination both use brightness adjustable LED shadowless lamp | |

| | | |
|----------------|--------|--------|
| Machine Weight | 150Kgs | 160Kgs |
|----------------|--------|--------|

Video-Type 3D Coaxial-Illumination Vision Measuring Machine

| | |
|---|--|
|  | <p>Features:</p> <p>This machine is suitable for all 2D purpose's measurement for all coaxial metallurgical measuring industries of LCD, LED, IC chip etc. Functional YR-VT software can realize the functions of 2D flatness measurement, on the map, sample profile scanning, special SPC statistics, manual CNC measurement, Macroscopic measurement and so on. Z axis lifting system adopts granite column, which can realize non-contact precise measurement and flatness measurement.</p> |
|---|--|

| Specifications | | | |
|------------------------------|---|-------------|-------------|
| Item \ Model | YMM-3020JVT | YMM-4030JVT | YMM-5040JVT |
| X.Y.Z axis Travel (mm) | 300*200*220 | 400*300*220 | 500*400*220 |
| X.Y.Z Resolution | 0.001mm | | |
| A X.Y Axis ccuracy | (3+L/200)um | | |
| Repeatability | 3um | | |
| Measuring mode | Video type | | |
| Magnification | 96-624X (120-1560X is available) | | |
| CCD Camera | 0.43Mpixels high definition Sony chip CCD | | |
| Objectives | High definition 0.7~4.5X coaxial illumination zoom lens | | |
| Working distance | 115mm (video) | | |
| Computer (Optional) | Lenovo Computer : "Celeron" 4 CPU, 160G hard drive, 1G memory, 17" LCD monitor | | |
| Measuring Software | YR-C measuring software (it can realize Z axis accuracy measurement and flatness measurement) | | |
| Lifting Column | Stable granite column | | |
| Instrument Base | 000 grade stable granite base | | |
| Illumination | Surface illumination adopts coaxial illumination, and contour illumination use brightness | | |

Jointwin9825@gmail.com

| | | | |
|------------------------|--------------------------------|-------------|--------------|
| | adjustable LED shadowless lamp | | |
| Dimension (L*W*H) (mm) | 700*650*950 | 980*750*950 | 1050*800*950 |
| Objective (Optional) | 4X, 5X, 10X | | |
| Machine Weight (Kgs) | 180 | 300 | 500 |

Gantry-Type Large Travel Auto-CNC Vision Measuring Machine YMM-CNC Series

| | |
|---|---|
|  | <p>Introduction:</p> <p>Gantry-Type Large Travel Auto-CNC Vision Measuring Machine YMM-CNC Series are recently launched by us, it uses Germany toothless screw and servo control technology and combined with YR-CNC automatic measuring software developed by us and university jointly, which makes high-efficient and accurate inspection of work-piece in large quantities available. It is suitable for precise parts inspection and quality control, and widely used in industries of machinery, electronics, metal and plastic etc.</p> |
|---|---|

Specifications

| Item \ Model | YMM-6050CNC | YMM-8060CNC | YMM-10080CNC | YMM-150120CNC |
|----------------------|--|---------------|----------------|-----------------|
| X.Y.Z Axis Travel | 600*500*250mm | 800*600*250mm | 1000*800*250mm | 1500*1200*200mm |
| X.Y Axis Resolution | 0.001mm | | | |
| Measuring Software | YR-CNC Measuring software | | | |
| Servo Motor | Origin Japan "Panasonic" Servo Motor | | | |
| Measuring Hardware | Lenovo Computer +17" LCD Monitor ("Celeron" 4 CPU, 160G hard drive, 1G memory) | | | |
| Total Magnification | 24X~156X (12-312X is available) | | | |
| Surface Illumination | 8 Divisions program control light source | | | |
| Contour Illumination | Green LED light source | | | |
| Accuracy | X.Y Axis: (3+L/250)um | | | |
| Repeatability | 0.005mm | | | |
| Transmission System | Germany toothless screw + Japan "THK" Linearity guide system | | | |

| | | | | |
|-------------------|----------------------------|------------------|------------------|------------------|
| Operation Mode | CNC program control system | | | |
| Loading Weight | 50Kgs | | | |
| Dimension (L*W*H) | 1324*1220*1770mm | 1400*2000*1500mm | 1600*2200*1500mm | 2200*2500*1200mm |
| Machine Weight | 1350Kgs | 2000Kgs | 2200Kgs | 3500Kgs |

Gantry-Type Integrated 3D Coordinates Measuring Machine



Usage:


1. Integrated granite work-stage, gantry movement bridge structure improves the movement performance, and ensures a stable accuracy of the whole machine's machinery system
2. All guides adopt high-precise air bearing, preloading design, without any wear, so movement is more smooth, which ensures a perfect dynamic properties.
3. Guides of 3 axes all adopt high-precise national granite, which makes 3 axes have the same temperature property, good rigidity and anti-ageing deformation ability
4. British "Renishaw" linear scales and probe are used to ensure stable accuracy and operation
5. American RationalDMIS functional measuring software is convenient and easy to study, which makes user can finish test task easily

Specifications:

| | | | | |
|--------------------------|--|---------------|---------------|----------------|
| Model | VMS-654AV | VMS-654AV-CNC | VMS-685AV-CNC | VMS-8106AV-CNC |
| X.Y.Z Axis Travel Length | 600*500*400mm | 600*500*400mm | 600*800*500mm | 800*1000*600mm |
| Accuracy | 3+L/200um | | | |
| Repeatability | 3um | | | |
| Resolution of X.Y.Z Axis | 0.001mm | | | |
| Probe System | British “Renishaw” MCP Touch Probe | | | |
| Video System | American “Navitar” Zoom Lens + American TEO 0.43Mpixel CCD Camera | | | |
| Surface Illumination | LED ring lamp with brightness adjustable | | | |
| Measuring Software | American RationalDMIS | | | |
| Structure Type | Gantry Movement Bridge Type | | | |
| Operation Way | Manual | CNC | | |
| Power | 220V/110V | | | |

| | | | | |
|----------------------|--|------------------|------------------|------------------|
| Air-Supply Pressure | $\geq 0.55\text{MPa}$ | | | |
| Working Temperature | $20^{\circ}\text{C}+2^{\circ}\text{C}$ | | | |
| Working Humidity | 40%-70% | | | |
| Machine Weight (Kgs) | 900 | 900 | 1300 | 2400 |
| Loading Weight (Kgs) | 500 | 500 | 800 | 1000 |
| Machine Dimension | 1200*1100*2400mm | 1200*1100*2400mm | 1300*1600*2500mm | 1650*2100*2700mm |

Metallurgical Tool-Maker Microscopes JMT Series


| | |
|--|---|
|  | <p>Usage:</p> <p>This machine is suitable for observation and measurement in the industries of LCD, conducting particles filter, mobile phone screen, FPD module semiconductor wafers, FPC-PCB, IC CD package, image sensor CCD, CMOS, PDA light source etc.</p> |
|--|---|

Specifications:

| Instrument Model | JMT-200 | JMT-300 |
|--|--|--|
| Optical System | Infinity optical system (objective tube focusing:200mm, focusing distance: 95mm) | |
| Eyepiece Tube | Hinge-type trinocular eyepiece tube, inclination: 30° , interpupillary distance:55-75mm | |
| Eyepiece | High-eye-point wide view-field eyepiece WF10X/22 | |
| Objective Turret | 5 holds objective transducer | |
| Objective (N.A) | Plan achromatic objectives: 2X/0.055, 5X/0.14, 10X/0.28, 20X/0.29 | |
| Objective Working Distance (Over-length Working Distance) | W.D.: 35mm, 45mm, 34mm, 30.8mm, 20.5mm | |
| Polarizing Light System | Spectral range: 480-550mm with the polarizer and analyzer | |
| Illumination | 12V 50W halogen reflect illumination, 10W LED contour illumination | |
| Coarse Focusing Method | Electric lifting system (Japan "Shinano" stepper motor), lifting range: 200mm | |
| Fine Focusing Method | Manual fine focusing with division:0.002mm, changing range: 40mm | |
| Stage | 8" fast-moving stage (working travel: 200x100mm) | 12" fast-moving stage (working travel: 300x200mm) |
| Digital Resolution | 0.5um | |

| | |
|------------------------|--|
| Measuring Error | 2+L/250um |
| Digital Data Processor | DP-100 |
| CCD Adapter | 0.5X CCD adapter |
| CCD Camera | American TEO 1/2" 0.43Mpixel color CCD camera |
| Measuring Software | RX-J metallurgical measuring software |
| Optional Accessories | 50X/0.42, 100X/0.55 objective (W.D 12.5) (Olympus U-DIC interference mirror) |

Metallurgical Tool-Maker Microscopes JTM-D Series

| | |
|---|---|
|  | <p>Usage:</p> <p>This machine is suitable for observation and measurement in the industries of LCD, conducting particles filter, mobile phone screen, FPD module semiconductor wafers, FPC-PCB, IC CD package, image sensor CCD, CMOS, PDA light source etc.</p> |
|---|---|

Specifications:

| Instrument Model | JTM-200D | JTM-300D |
|--|---|--|
| Optical System | Infinity optical system (objective tube focusing:200mm, focusing distance: 95mm) | |
| Eyepiece Tube | Hinge-type trinocular eyepiece tube, inclination: 30° , interpupillary distance:55-75mm | |
| Eyepiece | High-eye-point wide view-field eyepiece WF10X/22 | |
| Objective Turret | 5 hold objective transducer | |
| Objective (N.A) | Plan achromatic objectives: 2X/0.055, 5X/0.14, 10X/0.28, 20X/0.29, | |
| Objective Working Distance (Over-length Working Distance) | W.D.: 35mm, 45mm, 34mm, 30.8mm, 20.5mm | |
| Polarizing Light System | Spectral range: 480-550nm with the polarizer and analyzer | |
| Illumination | 12V 50W halogen reflect illumination, 10W LED contour illumination | |
| Coarse Focusing Method | Electric lifting system (Japan "Shinano" stepper motor), lifting range: 200mm | |
| Fine Focusing Method | Manual fine focusing with division:0.002mm, changing range: 40mm | |
| DIC Unit | DIC unit with slot | |
| Stage | 8" fast-moving stage (working travel: 200x100mm) | 12" fast-moving stage (working travel: 300x200mm) |
| Digital Resolution | 0.5um | |

| | |
|------------------------|---|
| Measuring Error | 2+L/250um |
| Digital Data Processor | DP-100 |
| CCD Adapter | 0.5X CCD adapter |
| CCD Camera | American TEO 1/2" 0.43Mpixel color CCD camera |
| Measuring Software | RX-J metallurgical measuring software |
| Optional Accessories | 50X/0.42,100X/0.55 objective (W.D 12.5) (Olympus U-DIC interference mirror) |

Motor-driven Tool-maker Microscopes VTM Series



Introduction:


Video-type tool-maker microscopes is a kind of high-accuracy and high-efficient micro-measuring instrument which is combined with optical, mechanical, electrical and software technology. It is widely used in the fields of electronic components, precision mould, precision tools, springs, plastic, rubber, oil seal stop valve, camera parts, auto parts, PCB processing and other industries. In addition to 2D measuring function, 3D auxiliary measurement also can be done by this machine, it also can do comparison measurement by using eyepiece standard block, and the length, angle, profile shape micro-measurements of thread pitch, outside diameter, thread angle, trapezoid-shaped workpiece and cutting tools. Besides, it also can be used as observation microscope for non-contact measurement of workpiece surface condition in various precision processing industries. It is one of indispensable measuring equipments in the measurement room, laboratory and workshop.

Specifications:

| Items | Model | VTM-2010 | VTM-3020 |
|----------------------|-------|-------------|----------|
| X.Y travel range(mm) | | 200X100 | 300X200 |
| Mini Resolution() | | 0.5um | |
| X.Y accuracy | | (2+L/250)um | |
| Z travel range(mm) | | 200 | |

| | | |
|-----------------------------|---|---------------|
| Z axis Focusing type | Motor-driven lifting focusing system 0.003~8mm/sec | |
| Eyepiece observation system | High-definition trinocular observation head with coaxial illumination system (fixed “+”glass reticule) | |
| Eyepiece Magnification | 10X/22mm | |
| Objective | 3X | |
| Total optical Magnification | 30X | |
| Reflect Illumination | 6V 22W LED brightness adjustable coaxial illumination system | |
| Contour Illumination | 3V 3W LED brightness adjustable illumination system | |
| Data processor | DP-100 digital data processor (with RS232 port) | |
| CCD adaptor | 1X CCD adaptor | |
| CCD Camera | American “TEO” 0.43Mpixel high-definition colour CCD camera | |
| Measuring Software | YR-CSPC measuring software | |
| Machine Dimension | 850X700X980mm | 900X700X980mm |
| Machine Weight | 160kgs | 170kgs |
| Optical Accessories | 1X, 5X objective, cold light illuminator | |

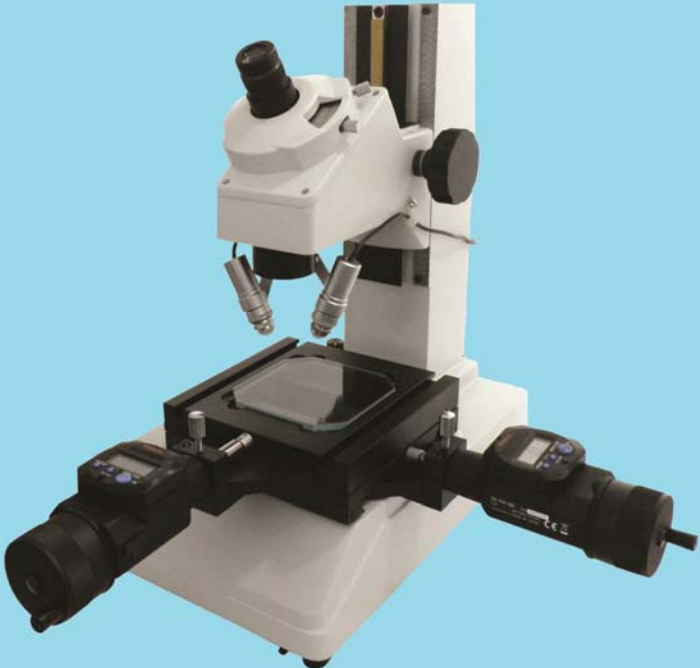
Tool-Maker's Microscopes STM-505

| | |
|---|---|
|  | <p>Usage:</p> <p>STM-505 tool-maker's microscope is an excellent measuring instrument for non-contact inspection and 2D precision measurement. It is suitable to measure the small parts in the metrology department and production line, and it can be installed with digital measure heads, CCD adaptor, CCD camera, digital cross line generator, monitor to be a 2D vision system.</p> |
|---|---|

| Specifications | | |
|------------------------------|---|--|
| Item \ Model | STM-505 | |
| X.Y Axis Travel | 50*50mm | |
| Maxi Working Height | 115mm | |
| Maxi Loading Weight | 5Kgs | |
| Measuring Head | Mechanical measuring head | |
| Resolution of Measuring Head | 0.001mm | |
| Machine Head | Monocular (aimer is adjustable) | |
| Angle Dial | Rotary angle: 360°; Minimum angle reading: 6' | |
| Eyepiece (176-116) | 15X view diameter: 13mm | |

| | |
|----------------------|---|
| Objectives(176-138) | 2X working diameter: 67mm |
| Total Magnification | 30X |
| Contour Illumination | 3.2V/3W LED light with green filter, the brightness is adjustable |
| Surface Illumination | 3.2V/3W LED light, the brightness is adjustable |
| Power Supply | 110/220V AC 50/60Hz |
| Instrument Dimension | 210*333*391mm |
| Machine Weight | 13.5Kgs |
| Accuracy | (3+L/50)um |
| Optional Accessories | 10X eyepiece; 5X 、10X objective ; rotary table; |

Tool-Maker's Microscopes STM-505R

| | |
|--|--|
|  | <p>Usage:</p> <p>STM-505R tool-maker's microscope is an excellent measuring instrument for non-contact inspection and 2D precision measurement. It is suitable to measure the small parts in the metrology department and production line, and it can be installed with digital measure heads, CCD adaptor, CCD camera, digital cross line generator, monitor to be a 2D vision system.</p> |
|--|--|

Specifications

| Item \ Model | STM-505R |
|------------------------------|---|
| X.Y Axis Travel | 50*50mm |
| Maxi Working Height | 115mm |
| Maxi Loading Weight | 5Kgs |
| Measuring Head | Origin Mitutoyo electronic measuring head |
| Resolution of Measuring Head | 0.001mm |
| Machine Head | Monocular (aimer is adjustable) |
| Angle Dial | Rotary angle: 360°; Minimum angle reading: 6' |
| Eyepiece (176-116) | 15X view diameter: 13mm |
| Objectives(176-138) | 2X working diameter: 67mm |
| Total Magnification | 30X |
| Contour Illumination | 3.2V/3W LED light with green filter, the brightness is adjustable |

| | |
|----------------------|--|
| Surface Illumination | 3.2V/3W LED light, the brightness is adjustable |
| Power Supply | 110/220V AC 50/60Hz |
| Instrument Dimension | 210*333*391mm |
| Machine Weight | 13.5Kgs |
| Accuracy | (3+L/50)um |
| Optional Accessories | 10X eyepiece; 5X 、 10X objective ; rotary table; |