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Intelligent Measurement Automation Instrument Supplier
Ideal Precision - ONE STEP AHEAD OF ACCURACY

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Guangdong Ideal Precision Instrument Co., Ltd.



COMPANY PROFILE

Guangdong Ideal Precision Instrument Co., Ltd. was established in 2013 with a registered capital of 5 million RMB. The factory is located in Dinghao Niuyang High-Tech Industrial Park, No. 27 Liaofu Road, Liaobu Town, Dongguan City. We are a national high-tech enterprise specialized in the R&D, production, and sales of geometric dimension measurement and appearance defect inspection instruments.

Based on excellent technical talents and combining advanced domestic and international technologies, Ideal Precision has developed a series of technologically advanced, high-quality, and powerful measuring instruments and software. The company holds more than 20 structural and appearance patents, as well as multiple software intellectual property rights, providing customers with perfect solutions and technical services. Our products are exported to more than 20 countries and regions, including the United States, the United Kingdom, Japan, South Korea, Israel, Portugal, Vietnam, Thailand, and Taiwan, China.

Ideal Precision has also established a comprehensive after-sales service system with after-sales service centers in Guangdong, Jiangsu, Tianjin, Shanghai, Zhejiang, Fujian, Chongqing, Hubei, Hunan, etc., to provide customers with close-range services, free on-site installation, debugging and training, one-year free warranty, and non-profit follow-up service programs and a series of safeguard measures to ensure customers' efficient use and technical support. We believe that through our continuous efforts and pursuit, we will surely achieve mutual benefit and win-win results with our customers!

Corporate qualifications



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Company exterior

walk into Ideal Precision



Company front desk



General Office



Assembly Workshop 1



Assembly Workshop 2



Company showroom



Pack and ship



customer site



customer site



customer site

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2D IMAGE MEASURING INSTRUMENT



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Specifications	HVM-2010D	HVM-3020D	HVM-4030D	HVM-5040D
X, Y Axis Measuring Travel (mm)	200×100	300×200	400×300	500×400
Z Axis Measuring Travel (mm)	200	200	200	200
Overall Dimensions (mm)	600×850×1000	740×1000×1100	900×1200×1700	550×600×1000
Glass Size (mm)	245×145	340×240	450×350	540×440
Machine Weight (kg)	150	210	250	340
Workpiece Weight Limit (kg)	20	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column
X, Y Axis Measuring Accuracy (μm)	3+L/200	3+L/200	3+L/200	3+L/200
Operation Method	Manual	Manual	Manual	Manual
Transmission Method	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail
Grating Scale	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution
Guide Rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail
Transmission Rod	Precision toothless screw	Precision toothless screw	Precision toothless screw	Precision toothless screw
Motion Controller	YZ-2000 Control System	YZ-2000 Control System	YZ-2000 Control System	YZ-2000 Control System
Imaging System	YZ-700TV HD color camera + image acquisition system	YZ-700TV HD color camera + image acquisition system	YZ-700TV HD color camera + image acquisition system	YZ-700TV HD color camera + image acquisition system
Light Source	Knob LED adjustable light source	Knob LED adjustable light source	Knob LED adjustable light source	Knob LED adjustable light source
Optical Lens	YZ0745A zoom lens	YZ0745A zoom lens	YZ0745A zoom lens	YZ0745A zoom lens
Magnification	30~180X	30~180X	30~180X	30~180X
Measurement Software	YZ-F Manual Measurement Software	YZ-F Manual Measurement Software	YZ-F Manual Measurement Software	YZ-F Manual Measurement Software
Computer	Customized	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20°C±2°C, humidity 30~80%	Temperature 20°C±2°C, humidity 30~80%	Temperature 20°C±2°C, humidity 30~80%	Temperature 20°C±2°C, humidity 30~80%
Optional Accessories	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture

Instrument Features:

- **Adopts YZ-F multi-functional measurement software**
- **07-4.5X HD continuous zoom lens**
- **Measurement data can be exported to EXCEL/WORD/TXT reports with one click**
- **High-precision sealed glass grating with higher dust resistance**
- **Sony chip HD camera with realistic image effects**
- **Double-knob up and down program-controlled light source for more convenient operation**
- **High-quality granite base and column for stable accuracy**
- **Laser pen positioning for quick measurement location**

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2.5D IMAGE MEASURING INSTRUMENT



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Specifications	HVM-2010E	HVM-3020E	HVM-4030E	HVM-5040E
X, Y Measuring Travel (mm)	200×100	300×200	400×300	500×400
Z Measuring Travel (mm)	200	200	200	200
Overall Dimensions (mm)	600×850×1000	740×1000×1100	900×1200×1700	550×600×1000
Glass Size (mm)	245×145	340×240	450×350	540×440
Machine Weight (kg)	150	210	250	340
Workpiece Weight Limit (kg)	20	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column
X, Y Axis Measuring Accuracy (μm)	2.5+L/200	2.5+L/200	2.5+L/200	2.5+L/200
Z Axis Measuring Accuracy (μm)	5+L/100	5+L/100	5+L/100	5+L/100
Operation Mode	Manual	Manual	Manual	Manual
Transmission Method	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail
Grating Scale	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution	Precision grating with 0.001mm resolution
Guide Rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail
Transmission Rod	Precision toothless screw	Precision toothless screw	Precision toothless screw	Precision toothless screw
Motion Controller	YZ-3000 storable control system	YZ-3000 storable control system	YZ-3000 storable control system	YZ-3000 storable control system
Imaging System	Dahua HD color analysis camera + image acquisition system	Dahua HD color analysis camera + image acquisition system	Dahua HD color analysis camera + image acquisition system	Dahua HD color analysis camera + image acquisition system
Light Source	3-ring 8-zone LED light source	3-ring 8-zone LED light source	3-ring 8-zone LED light source	3-ring 8-zone LED light source
Optical Lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens
Magnification	30~180X	30~180X	30~180X	30~180X
Measurement Software	YZ-F manual measurement software (image measurement height + image measurement flatness)	YZ-F manual measurement software (image measurement height + image measurement flatness)	YZ-F manual measurement software (image measurement height + image measurement flatness)	YZ-F manual measurement software (image measurement height + image measurement flatness)
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz

Instrument Features:

YZ3000 storable control system, accuracy data never lost
Adopts YZ–F multi–functional measurement software
Dahua digital HD camera for more realistic images
High–quality granite base and column for stable accuracy
Laser pen positioning for quick measurement location
07–4.5X HD continuous zoom lens

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IMAGE TYPE 3D MEASURING INSTRUMENT (ENHANCED)



Specifications	HVM-3020F	HVM-4030F	HVM-5040F
X, Y Measuring Travel (mm)	300 × 200	400 × 300	500 × 400
Overall Dimensions (mm)	1320 × 600 × 1600	1320 × 800 × 1600	1350 × 980 × 1600
Glass Size (mm)	340 × 240	440 × 340	540 × 440
Machine Weight (kg)	250	330	420
Workpiece Weight Limit (kg)	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
X, Y Axis Accuracy (μm)	2+L/200	2+L/200	2+L/200
Z Axis Accuracy (μm)	5+L/200	5+L/200	5+L/200
Operation Mode	Manual	Manual	Manual
Transmission Method	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail
Grating Scale	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating
Guide Rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail
Motion Controller	YZ3000 storable control system	YZ3000 storable control system	YZ3000 storable control system
Imaging System	Hitvision high-definition digital imaging system (HD image, size freely switchable)	Hitvision high-definition digital imaging system (HD image, size freely switchable)	Hitvision high-definition digital imaging system (HD image, size freely switchable)
Optical Lens	YZ0745C ultra-clear continuous zoom lens	YZ0745C ultra-clear continuous zoom lens	YZ0745C ultra-clear continuous zoom lens
Measurement Software	YZ-F manual measurement software	YZ-F manual measurement software	YZ-F manual measurement software
Computer	Customized	Customized	Customized
Working Environment	Temperature 20° C ± 2° C, humidity 30~80%	Temperature 20° C ± 2° C, humidity 30~80%	Temperature 20° C ± 2° C, humidity 30~80%

Instrument Features:

YZ3000 storable control system, accuracy data never lost
High-precision sealed glass grating with higher dust resistance
HD digital camera, image size freely switchable with high clarity
07-4.5X HD continuous zoom lens
Integrated structure for more convenient movement and transportation

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HORIZONTAL IMAGE MEASURING INSTRUMENT



Specifications	HVM-2010W	HVM-3020W	HVM-4030W
X, Z Measuring Travel (mm)	200 × 100	300 × 200	400 × 300
Y Measuring Travel (mm)	100	100	100
Overall Dimensions (mm)	1000 × 680 × 1300	1200 × 680 × 1300	1300 × 800 × 1300
Glass Size (mm)	245 × 145	340 × 240	440 × 340
Machine Weight (kg)	150	230	310
Workpiece Weight Limit (kg)	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column
X, Z Axis Accuracy (μm)	3+L/200	3+L/200	3+L/200
Operation Mode	Manual	Manual	Manual
Transmission Method	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail
Grating Scale	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating
Guide Rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail
Motion Controller	YZ3000 storable control system	YZ3000 storable control system	YZ3000 storable control system
Imaging System	HD color analysis camera + image acquisition system	HD color analysis camera + image acquisition system	HD color analysis camera + image acquisition system
Light Source	3-ring 8-zone programmable LED light source	3-ring 8-zone programmable LED light source	3-ring 8-zone programmable LED light source
Optical Lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens
Magnification	30-180X	30-180X	30-180X
Measurement Software	YZ-F manual measurement software	YZ-F manual measurement software	YZ-F manual measurement software
Computer	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture

Instrument Features:

Horizontal structure, side lighting, side detection of parallelism and warpage
YZ3000 storable control system, accuracy data never lost
Adopts YZ-F multi-functional measurement software
07-4.5X HD continuous zoom lens

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SEMI-AUTOMATIC IMAGE MEASURING INSTRUMENT



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Specifications	HVM-2010S	HVM-3020S	HVM-4030S	HVM-5040S
X, Y Measuring Travel (mm)	200 × 100	300 × 200	400 × 300	500 × 400
Z Measuring Travel (mm)	200 (customizable to 400mm)	200 (customizable to 400mm)	200 (customizable to 400mm)	200 (customizable to 400mm)
Overall Dimensions (mm)	1320 × 600 × 1600	1320 × 600 × 1600	1320 × 800 × 1600	1350 × 980 × 1600
Glass Size (mm)	245 × 145	340 × 240	450 × 350	540 × 440
Machine Weight (kg)	210	250	330	420
Workpiece Weight Limit (kg)	20	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
X, Y Axis Movement Speed	0-100mm/S	0-100mm/S	0-100mm/S	0-100mm/S
Operation Mode	XY axis manual, Z axis electric (autofocus)	XY axis manual, Z axis electric (autofocus)	XY axis manual, Z axis electric (autofocus)	XY axis manual, Z axis electric (autofocus)
Transmission Method	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail	Precision toothless screw + precision V-guide rail
Linear Scale	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating
Guide Rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail	Precision V-guide rail
Transmission Screw	Taiwan "TBI" ground screw	Taiwan "TBI" ground screw	Taiwan "TBI" ground screw	Taiwan "TBI" ground screw
Z Axis Motor	AC servo motor	AC servo motor	AC servo motor	AC servo motor
Motion Controller	YZ3000S storable control system	YZ3000S storable control system	YZ3000S storable control system	YZ3000S storable control system
Fine Adjustment Handwheel	Z axis three-speed adjustment, fine adjustment handwheel	Z axis three-speed adjustment, fine adjustment handwheel	Z axis three-speed adjustment, fine adjustment handwheel	Z axis three-speed adjustment, fine adjustment handwheel
Light Source	3-ring 8-zone programmable LED light source	3-ring 8-zone programmable LED light source	3-ring 8-zone programmable LED light source	3-ring 8-zone programmable LED light source
Optical Lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens
Magnification	30-180X	30-180X	30-180X	30-180X
Measurement Software	YZ-3D semi-automatic measurement software	YZ-3D semi-automatic measurement software	YZ-3D semi-automatic measurement software	YZ-3D semi-automatic measurement software
Computer	Customized	Customized	Customized	Customized
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture

Instrument Features:

- **High-precision sealed glass grating with higher dust resistance**
- **Sony chip HD camera with realistic image effects**
- **Integrated structure for more convenient movement and transportation**
- **Measurement data can be exported to EXCEL/WORD/TXT reports with one click**
- **Equipped with YZ-F multi-functional measurement software**
- **High-quality granite base and column for stable accuracy**
- **07-4.5X HD continuous zoom lens**

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STANDARD TYPE FULLY AUTOMATIC IMAGE MEASURING INSTRUMENT



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Specifications	HVM-322CNC	HVM-432CNC	HVM-542CNC
X, Y Measuring Travel (mm)	300 × 200	400 × 300	500 × 400
Z Measuring Travel (mm)	200 (customizable to 400mm)	200 (customizable to 400mm)	200 (customizable to 400mm)
Overall Dimensions (mm)	1490 × 750 × 1730	1770 × 910 × 1730	1900 × 1060 × 1730
Workable Dimensions (mm)	510 × 380	610 × 480	710 × 580
Glass Size (mm)	350 × 250	450 × 350	550 × 450
Machine Weight (kg)	320	450	580
Workpiece Weight Limit (kg)	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Precision-grade granite workbench, column	Precision-grade granite workbench, column	Precision-grade granite workbench, column
X, Y Axis Accuracy (μm)	3+L/200	3+L/200	3+L/200
Z Axis Accuracy (μm)	5+L/100	5+L/100	5+L/100
X, Y Axis Movement Speed	0-200mm/s	0-200mm/s	0-200mm/s
Z Axis Movement Speed	0-100mm/S	0-100mm/S	0-100mm/S
Operation Mode	Automatic	Automatic	Automatic
Transmission Method	Precision ball screw + precision guide rail	Precision ball screw + precision guide rail	Precision ball screw + precision guide rail
Linear Scale	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating	Resolution 0.001mm precision grating
Guide Rail	Anti-misalignment precision V-guide rail	Anti-misalignment precision V-guide rail	Anti-misalignment precision V-guide rail
Transmission Screw	Taiwan "TBI" ball screw	Taiwan "TBI" ball screw	Taiwan "TBI" ball screw
Three-axis Motor	AC servo motor	AC servo motor	AC servo motor
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system
Operation Joystick	Three-axis joystick	Three-axis joystick	Three-axis joystick
Imaging System	HD color analysis camera + image acquisition system	HD color analysis camera + image acquisition system	HD color analysis camera + image acquisition system
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source
Optical Lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens	YZ0745B HD continuous zoom lens
Magnification	30-180X	30-180X	30-180X
Measurement Software	INS-CNC fully automatic measurement software	INS-CNC fully automatic measurement software	INS-CNC fully automatic measurement software
Computer	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	0.5x-10x zoom objective, navigation, measurement fixture interface	0.5x-10x zoom objective, navigation, measurement fixture interface	0.5x-10x zoom objective, navigation, measurement fixture interface

Instrument Features:

Precision granite workbench, stable and reliable accuracy
Anti-misalignment cross guide rails, ball screw
Sony chip HD color camera, restoring product true colors
Full closed-loop motion control system, better measurement repeatability
Customized reports, automatic output of measurement results and judgment

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CLASSIC TYPE FULLY AUTOMATIC IMAGE MEASURING INSTRUMENT



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Specifications	HVM-3020CNC	HVM-4030CNC	HVM-5040CNC	HVM-6050CNC
X, Y Measuring Travel (mm)	300 × 200	400 × 300	500 × 400	600 × 500
Z Axis Measuring Travel (mm)	200 (customizable to 500mm)	200 (customizable to 500mm)	200 (customizable to 500mm)	200 (customizable to 500mm)
Overall Dimensions (mm)	1550 × 800 × 1750	1750 × 900 × 1750	1900 × 1050 × 1750	2050 × 1200 × 1750
Glass Size (mm)	340 × 240	440 × 340	540 × 440	640 × 540
Machine Weight (kg)	410	490	620	750
Workpiece Weight Limit (kg)	20	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
X, Y Axis Measuring Accuracy (μm)	2.5+L/200	2.5+L/200	2.5+L/200	2.5+L/200
Z Axis Accuracy (μm)	5+L/100	5+L/100	5+L/100	5+L/100
Repeatability (μm)	2.5	2.5	2.5	2.5
X, Y Axis Movement Speed	0-300mm/S	0-300mm/S	0-300mm/S	0-300mm/S
Transmission Method	Precision ball screw + precision linear guide	Precision ball screw + precision linear guide	Precision ball screw + precision linear guide	Precision ball screw + precision linear guide
Linear Scale	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating
Transmission Screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system
Operation Joystick	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source
Optical Lens	YZ-0745B continuous zoom lens (manual/automatic optional)	YZ-0745B continuous zoom lens (manual/automatic optional)	YZ-0745B continuous zoom lens (manual/automatic optional)	YZ-0745B continuous zoom lens (manual/automatic optional)
Magnification	20-260X	20-260X	20-260X	20-260X
Measurement Software	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)
Computer	Customized	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%

Instrument Features:

Precision granite workbench, stable and reliable accuracy
8-zone LED ring light source, multi-dimensional lighting, clearer edge detection
Full closed-loop motion control system, better measurement repeatability
Customized reports, automatic output of measurement results and judgment
Imported high-speed linear guides, fast speed and low noise
Imported high-color digital camera, higher pixels, larger magnification

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ENHANCED TYPE FULLY AUTOMATIC IMAGE MEASURING INSTRUMENT



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Specifications	HVM-3020ZCNC	HVM-4030ZCNC	HVM-5040ZCNC
X, Y Measuring Travel (mm)	300 × 200	400 × 300	500 × 400
Z Measuring Travel (mm)	200 (customizable to 500mm)	200 (customizable to 500mm)	200 (customizable to 500mm)
Overall Dimensions (mm)	1820 × 820 × 1800	1950 × 1000 × 1800	2100 × 1160 × 1800
Glass Size (mm)	340 × 240	440 × 340	540 × 440
Machine Weight (kg)	550	680	820
Workpiece Weight Limit (kg)	30	30	30
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Precision-grade granite workbench, column	Precision-grade granite workbench, column	Precision-grade granite workbench, column
X, Y Axis Accuracy (μm)	2+L/200	2+L/200	2+L/200
Z Axis Accuracy (μm)	5+L/200	5+L/200	5+L/200
Repeatability (μm)	2	2	2
X, Y Axis Movement Speed	0-400mm/S	0-400mm/S	0-400mm/S
Operation Mode	Automatic	Automatic	Automatic
Transmission Method	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide
Linear Scale	0.0001mm precision metal grating	0.0001mm precision metal grating	0.0001mm precision metal grating
Guide Rail	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide
Transmission Screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw
Three-axis Motor	Japan Panasonic AC servo	Japan Panasonic AC servo	Japan Panasonic AC servo
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system
Operation Joystick	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle
Imaging System	12 megapixel high-definition imaging, fully automatic focusing	12 megapixel high-definition imaging, fully automatic focusing	12 megapixel high-definition imaging, fully automatic focusing
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source
Optical Lens	YZ-0745Z fully automatic zoom lens (HD)	YZ-0745Z fully automatic zoom lens (HD)	YZ-0745Z fully automatic zoom lens (HD)
Magnification	20-260X	20-260X	20-260X
Measurement Software	YZ-ACNC fully automatic measurement software (can interface with MES system)	YZ-ACNC fully automatic measurement software (can interface with MES system)	YZ-ACNC fully automatic measurement software (can interface with MES system)
Computer	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%

Instrument Features:

Imported high-speed linear guides, fast speed and low noise
Imported research-grade digital camera, higher pixels and larger magnification
Full closed-loop motion control system, better measurement repeatability
Intelligent programming, fully automatic measurement, programs shared across multiple machines, supports secondary development

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GANTRY TYPE FULLY AUTOMATIC IMAGE MEASURING INSTRUMENT



Specifications	HVM-500CNC	HVM-600CNC	HVM-800CNC	HVM-1000CNC	HVM-1200CNC	Custom Range
X, Y Measuring Travel (mm)	400 × 500	500 × 600	600 × 800	800 × 1000	1000 × 1200	Max customizable to 3 meters
Z Measuring Travel (mm)	200	200	200	200	200	Customizable
Overall Dimensions (mm)	1050 × 1260 × 1650	1100 × 1460 × 1650	1200 × 1760 × 1650	1400 × 1950 × 1650	1700 × 2180 × 1650	–
Glass Size (mm)	660 × 580	660 × 760	760 × 960	960 × 1160	1050 × 1300	–
Machine Weight (kg)	850	900	1250	1450	1800	–
Workpiece Weight Limit (kg)	30	30	50	50	50	–
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	–
Mechanism Material	Aviation aluminum workbench, precision-grade granite beam	Aviation aluminum workbench, precision-grade granite beam	Aviation aluminum workbench, precision-grade granite beam	Aviation aluminum workbench, precision-grade granite beam	Aviation aluminum workbench, precision-grade granite beam	–
X, Y Axis Accuracy (μm)	2+L/200	2+L/200	2+L/200	2+L/200	2+L/200	–
Z Axis Accuracy (μm)	5+L/100	5+L/100	5+L/100	5+L/100	5+L/100	–
X, Y Axis Movement Speed	0–300mm/s	0–300mm/s	0–300mm/s	0–300mm/s	0–300mm/s	–
Z Axis Movement Speed	0–100mm/s	0–100mm/s	0–100mm/s	0–100mm/s	0–100mm/s	–
Operation Mode	Automatic	Automatic	Automatic	Automatic	Automatic	–
Transmission Method	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	–
Linear Scale	Resolution 0.0005mm precision metal grating	Resolution 0.0005mm precision metal grating	Resolution 0.0005mm precision metal grating	Resolution 0.0005mm precision metal grating	Resolution 0.0005mm precision metal grating	–
Guide Rail	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	–
Transmission Screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	–
Three-axis Motor	Imported servo motor	Imported servo motor	Imported servo motor	Imported servo motor	Imported servo motor	–
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	–
Operation Joystick	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	–
Imaging System	HD color digital imaging system (HD image, switchable size)	HD color digital imaging system (HD image, switchable size)	HD color digital imaging system (HD image, switchable size)	HD color digital imaging system (HD image, switchable size)	HD color digital imaging system (HD image, switchable size)	–
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	–
Optical Lens	YZ0745B high-definition continuous zoom lens (manual/automatic optional)	YZ0745B high-definition continuous zoom lens (manual/automatic optional)	YZ0745B high-definition continuous zoom lens (manual/automatic optional)	YZ0745B high-definition continuous zoom lens (manual/automatic optional)	YZ0745B high-definition continuous zoom lens (manual/automatic optional)	–
Magnification	20-260X	20-260X	20-260X	20-260X	20-260X	–
Measurement Software	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	YZ-CNC fully automatic measurement software (can interface with MES system)	–
Computer	Customized	Customized	Customized	Customized	Customized	–
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	–
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	–
Optional Accessories	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	–

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Instrument Features:

Gantry structure, more stable operation, larger measurement range
Imported high-speed linear guides, fast speed and low noise
High-precision continuous zoom lens, 0.7-4.5X freely switchable magnification
Imported HD color digital camera, higher pixels, larger magnification
Intelligent programming, fully automatic measurement, programs shared across multiple machines
Customized reports, automatic output of measurement results and judgment

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MANUAL BURR MEASURING INSTRUMENT



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Specifications	HVM-2010MC	HVM-3020MC	HVM-4030MC	HVM-5040MC
X, Y Measuring Travel (mm)	200 × 100	300 × 200	400 × 300	500 × 400
Z Measuring Travel (mm)	200 (customizable to 400mm)	200 (customizable to 400mm)	200 (customizable to 400mm)	200 (customizable to 400mm)
Overall Dimensions (mm)	1320 × 600 × 1600	1320 × 600 × 1600	1320 × 800 × 1600	1620 × 1200 × 1700
Glass Size (mm)	245 × 145	340 × 240	450 × 350	540 × 440
Machine Weight (kg)	210	250	330	420
Workpiece Weight Limit (kg)	20	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column	Special carbon alloy workbench, precision-grade granite column
X, Y Axis Measuring Accuracy (μm)	3+L/200	3+L/200	3+L/200	3+L/200
Z Axis Measuring Accuracy (μm)	5+L/100	5+L/100	5+L/100	5+L/100
Operation Mode	Manual	Manual	Manual	Manual
Transmission Method	Precision toothless screw +	Precision toothless screw +	Precision toothless screw + precision	Precision toothless screw +
	precision V-guide rail	precision V-guide rail	V-guide rail	precision V-guide rail
Grating Scale	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating
Transmission Rod	Precision toothless screw	Precision toothless screw	Precision toothless screw	Precision toothless screw
Light Source	3-ring 8-zone zoneable LED light source	3-ring 8-zone zoneable LED light source	3-ring 8-zone zoneable LED light source	3-ring 8-zone zoneable LED light source
Optical Lens	YZ1490 HD continuous burr measurement dedicated zoom lens	YZ1490 HD continuous burr measurement dedicated zoom lens	YZ1490 HD continuous burr measurement dedicated zoom lens	YZ1490 HD continuous burr measurement dedicated zoom lens
Magnification	40-520X	40-520X	40-520X	40-520X
Measurement Software	YZ-MC manual measurement software	YZ-MC manual measurement software	YZ-MC manual measurement software	YZ-MC manual measurement software
Fixture	YZ-MC005 rotary fixture	YZ-MC005 rotary fixture	YZ-MC005 rotary fixture	YZ-MC005 rotary fixture
Computer	Customized	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture	0.5x-10x zoom objective, contact probe, rotary stage, measurement fixture

Instrument Features:

Manual focusing, capable of measuring both positive and negative burrs
Equipped with high-quality granite base and column for stable accuracy
Imported HD digital camera, freely switchable image size with high clarity
Full closed-loop motion control system for better measurement repeatability
Measurement data can be exported to EXCEL/WORD/TXT reports with one click

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AUTOMATIC BURR MEASURING INSTRUMENT



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Specifications	HVM-3020MC-CNC	HVM-4030MC-CNC	HVM-5040MC-CNC
X, Y Measuring Travel (mm)	300 × 200	400 × 300	500 × 400
Z-axis measurement travel (mm)	200 (customizable to 500mm)	200 (customizable to 500mm)	200 (customizable to 500mm)
Overall Dimensions (mm)	1650 × 750 × 1750	1750 × 900 × 1750	1900 × 1050 × 1750
Glass Size (mm)	340 × 240	440 × 340	540 × 440
Machine Weight (kg)	410	490	620
Workpiece Weight Limit (kg)	20	20	20
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Precision-grade granite workbench, column	Precision-grade granite workbench, column	Precision-grade granite workbench, column
X, Y-axis measurement accuracy (μm)	2+L/200	2+L/200	2+L/200
Z-measurement accuracy (μm)	5+L/100	5+L/100	5+L/100
Repeatability (μm)	2	2	2
X, Y-axis movement speed	0-300mm/s	0-300mm/s	0-300mm/s
Operation Mode	Automatic	Automatic	Automatic
Transmission Method	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide	Ground ball screw + precision linear guide
Grating Scale	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating	Resolution 0.0005mm precision grating
Guide Rail	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide
Transmission Screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw
Three-axis Motor	Imported AC servo motor	Imported AC servo motor	Imported AC servo motor
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system
Operation Joystick	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source
Optical Lens	YZ1490 high-definition zoom lens (manual/automatic optional)	YZ1490 high-definition zoom lens (manual/automatic optional)	YZ1490 high-definition zoom lens (manual/automatic optional)
Magnification	40-520X	40-520X	40-520X
Measurement Software	YZ-MCNC fully automatic burr measurement software (can interface with MES system)	YZ-MCNC fully automatic burr measurement software (can interface with MES system)	YZ-MCNC fully automatic burr measurement software (can interface with MES system)
Fixture	YZ-MC006 rotary fixture	YZ-MC006 rotary fixture	YZ-MC006 rotary fixture
Computer	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture	0.5x-10x zoom objective, navigation, contact probe, laser sensor, robotic arm, measurement fixture

Instrument Features:

1490 ultra-large zoom lens, significantly increasing magnification

Automatic rotating pole piece fixture, completes horizontal and vertical burr measurement in one go

Imported high-speed linear guides, fast speed and low noise

8-zone LED ring light source, multi-dimensional lighting, clearer edge detection

YZ-MCNC multi-functional software, intelligent programming, fully automatic measurement, programs shared across multiple machines, automatic output of measurement results and judgment, automatic screening

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ONE-CLICK FLASH MEASURING INSTRUMENT



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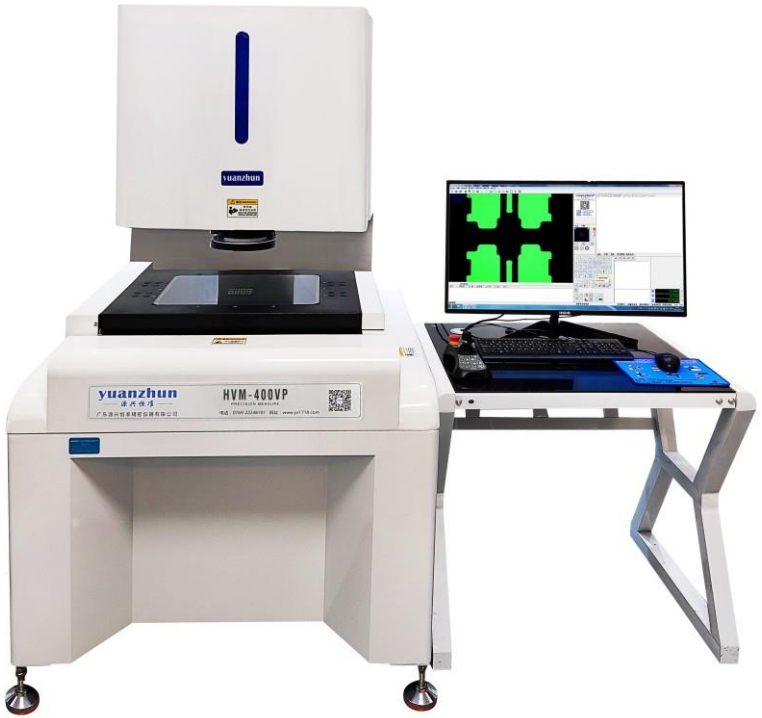
Specifications	YZKC50	YZKC100	YZKC150	YZKC200
Field of View Range (mm)	50 × 37.5	100 × 75	150 × 112.5	200 × 150
Z Focusing Distance (mm)	115	115	115	115
Measurement Accuracy (μm)	3	5	6	8
Machine Weight (kg)	110	160	220	260
Optical Lens	Imported large field of view telecentric lens	Imported large field of view telecentric lens	Imported large field of view telecentric lens	Imported large field of view telecentric lens
Light Source	Parallel coaxial light source	Parallel coaxial light source	Parallel coaxial light source	Parallel coaxial light source
Measurement Software	YZ-KC one-click measurement software	YZ-KC one-click measurement software	YZ-KC one-click measurement software	YZ-KC one-click measurement software
Computer	Customized	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	Measurement fixture	Measurement fixture	Measurement fixture	Measurement fixture

Instrument Features:

Large field of view telecentric lens, optional field of view range 20–200mm
Ultra-large depth of field, capable of clear imaging even with warped product surfaces
Imported HD color camera for more realistic image processing
One-click measurement, significantly improving detection efficiency

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ONE-CLICK STITCHING FLASH MEASURING INSTRUMENT



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Specifications	HVM-300VP	HVM-400VP	HVM-500VP	HVM-600VP
X, Y Measurement Range (mm)	300 × 200	400 × 300	500 × 400	600 × 500
Field of View Range	Telecentric lens standard 80 × 50 freely optional / zoom lens 10 × 8 freely optional	Telecentric lens standard 80 × 50 freely optional / zoom lens 10 × 8 freely optional	Telecentric lens standard 80 × 50 freely optional / zoom lens 10 × 8 freely optional	Telecentric lens standard 80 × 50 freely optional / zoom lens 10 × 8 freely optional
Z Measurement Range (mm)	200	200	200	200
Overall Dimensions (mm)	1820 × 820 × 1800	1950 × 1000 × 1800	2100 × 1160 × 1800	2250 × 1310 × 1800
Glass Size (mm)	340 × 240	440 × 340	540 × 440	640 × 540
Machine Weight (kg)	460	580	720	860
Measurement Accuracy (μm)	Telecentric lens: 5+L/50 / Zoom lens: 2+L/200	Telecentric lens: 5+L/50 /Zoom lens: 2+L/200	Telecentric lens: 5+L/50 / Zoom lens: 2+L/200	Telecentric lens: 5+L/50 /Zoom lens: 2+L/200
Repeatability (μm)	Telecentric lens: 5 / Zoom lens: 2	Telecentric lens: 5 / Zoom lens: 2	Telecentric lens: 5 / Zoom lens: 2	Telecentric lens: 5 / Zoom lens: 2
Workpiece Weight Limit (kg)	30	30	30	30
Base Material	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base	00-grade precision granite base
Mechanism Material	Precision-grade granite workbench, column	Precision-grade granite workbench, column	Precision-grade granite workbench, column	Precision-grade granite workbench, column
X, Y Axis Movement Speed	0-300mm/S	0-300mm/S	0-300mm/S	0-300mm/S
Z Axis Movement Speed	0-200mm/S	0-200mm/S	0-200mm/S	0-200mm/S
Operation Mode	Automatic	Automatic	Automatic	Automatic
Transmission Method	Ground ball screw + linear guide	Ground ball screw + linear guide	Ground ball screw + linear guide	Ground ball screw + linear guide
Linear Scale	Resolution 0.0005mm high-precision grating	Resolution 0.0005mm high-precision grating	Resolution 0.0005mm high-precision grating	Resolution 0.0005mm high-precision grating
Guide Rail	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide	Taiwan "HIWIN" high-speed linear guide
Transmission Screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw	Taiwan "TBI" ground ball screw
Motion Controller	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system	YZ4000 full closed-loop control system
Light Source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source	5-ring 8-zone programmable LED light source
Optical Lens	Large field of view telecentric lens + YZ0745 continuous zoom lens	Large field of view telecentric lens + YZ0745 continuous zoom lens	Large field of view telecentric lens + YZ0745 continuous zoom lens	Large field of view telecentric lens + YZ0745 continuous zoom lens

Instrument Features:

- Precision granite workbench, stable and reliable accuracy
- YZ-AICNC composite stitching software, multiple captures, automatic stitching and output of measurement results
- Imported research-grade digital camera, higher pixels, larger magnification
- Intelligent programming, fully automatic measurement, programs shared across multiple machines
- Customized reports, automatic output of measurement results and judgment
- Non-standard customization available

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HIGH—MAGNIFICATION MEASURING MICROSCOPE



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Specifications	HVM-200K	HVM-300K	HVM-400K	HVM-500K
X, Y Measuring Travel (mm)	200 × 100	300 × 200	400 × 300	500 × 400
Z Measuring Travel (mm)	200	200	200	200
Overall Dimensions (mm)	1300 × 650 × 1600	1320 × 600 × 1600	1320 × 800 × 1600	1350 × 980 × 1600
Glass Size (mm)	240 × 140	340 × 240	440 × 340	540 × 440
Magnification	50-1000X	50-1000X	50-1000X	50-1000X
Optical System	Infinity color-corrected optical system	Infinity color-corrected optical system	Infinity color-corrected optical system	Infinity color-corrected optical system
Imaging System	5-megapixel high-definition industrial camera	5-megapixel high-definition industrial camera	5-megapixel high-definition industrial camera	5-megapixel high-definition industrial camera
Eyepiece	WF10X/22	WF10X/22	WF10X/22	WF10X/22
Objective Lens	Infinity long working distance plan achromatic metallographic objective 5X, 10X, 20X, 50X, 100X	Infinity long working distance plan achromatic metallographic objective 5X, 10X, 20X, 50X, 100X	Infinity long working distance plan achromatic metallographic objective 5X, 10X, 20X, 50X, 100X	Infinity long working distance plan achromatic metallographic objective 5X, 10X, 20X, 50X, 100X
Observation Tube	30° inclined, erect image, infinity trinocular observation tube, diopter adjustment, 58-76mm interpupillary distance, two-step light splitting 100:0 or 50:50	30° inclined, erect image, infinity trinocular observation tube, diopter adjustment, 58-76mm interpupillary distance, two-step light splitting 100:0 or 50:50	30° inclined, erect image, infinity trinocular observation tube, diopter adjustment, 58-76mm interpupillary distance, two-step light splitting 100:0 or 50:50	30° inclined, erect image, infinity trinocular observation tube, diopter adjustment, 58-76mm interpupillary distance, two-step light splitting 100:0 or 50:50
Nosepiece	Internal positioning 5-hole converter	Internal positioning 5-hole converter	Internal positioning 5-hole converter	Internal positioning 5-hole converter
Focusing System	2-axis electric lifting, fully automatic focusing system	2-axis electric lifting, fully automatic focusing system	2-axis electric lifting, fully automatic focusing system	2-axis electric lifting, fully automatic focusing system
Worktable	Precision mobile worktable	Precision mobile worktable	Precision mobile worktable	Precision mobile worktable
X, Y Accuracy (μm)	3+L/200	3+L/200	3+L/200	3+L/200
Grating Scale Resolution (μm)	0.001	0.001	0.001	0.001
Reflection Illumination System	KOEHLER LED 6-ring 8-zone, center brightness, field diaphragm, aperture diaphragm, color temperature adjustment and polarizer device	KOEHLER LED 6-ring 8-zone, center brightness, field diaphragm, aperture diaphragm, color temperature adjustment and	KOEHLER LED 6-ring 8-zone, center brightness, field diaphragm, aperture diaphragm, color temperature adjustment and polarizer device	KOEHLER LED 6-ring 8-zone, center brightness, field diaphragm, aperture diaphragm, color temperature adjustment and
		polarizer device		polarizer device
Transmission Illumination System	KOEHLER LED, adjustable brightness	KOEHLER LED, adjustable brightness	KOEHLER LED, adjustable brightness	KOEHLER LED, adjustable brightness
Polarizer Device	Polarizer and analyzer, 360° rotating inspection polarizer	Polarizer and analyzer, 360° rotating inspection polarizer	Polarizer and analyzer, 360° rotating inspection polarizer	Polarizer and analyzer, 360° rotating inspection polarizer
Camera Adapter	0.5X C-mount adapter	0.5X C-mount adapter	0.5X C-mount adapter	0.5X C-mount adapter
Computer	Customized	Customized	Customized	Customized
Optional Accessories	Dark field device, DIC differential interference contrast device	Dark field device, DIC differential interference contrast device	Dark field device, DIC differential interference contrast device	Dark field device, DIC differential interference contrast device

Instrument Features:

2-axis electric lifting, fully automatic focusing

Adopts YZ-F multi-functional measurement software

Imported HD digital camera, freely switchable image size with high clarity

High-quality granite base and column for stable accuracy

Intelligent measurement software, measurement data can be exported to EXCEL/WORD/TXT reports with one click

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COORDINATE MEASURING MACHINE



Specifications	YZ-564	YZ-686	YZ-8106	YZ-8126	YZ-B156
X, Y, Z Measuring Travel (mm)	500 × 600 × 400	600 × 800 × 600	800 × 1000 × 600	800 × 1200 × 600	1000 × 1500 × 600
Overall Dimensions (mm)	1140 × 1220 × 2760	1740 × 1420 × 2760	1940 × 1620 × 2760	2140 × 1820 × 2760	2440 × 2120 × 2760
Machine Weight (kg)	900	1300	1700	1900	2200
Machine Load Capacity (kg)	500	800	1000	1200	1500
Repeatability (μm)	≤2.0	≤2.5	≤2.5	≤3.0	≤3.5
Measuring Accuracy (μm)	1.5+L/300	1.7+L/300	1.7+L/300	1.7+L/300	1.7+L/300
Base Material	000-grade precision granite base	000-grade precision granite base	000-grade precision granite base	000-grade precision granite base	000-grade precision granite base
Transmission Mode	Air bearing + smooth rod transmission	Air bearing + smooth rod transmission	Air bearing + smooth rod transmission	Air bearing + smooth rod transmission	Air bearing + smooth rod transmission
Linear Scale	British RENISHAW metal grating	British RENISHAW metal grating	British RENISHAW metal grating	British RENISHAW metal grating	British RENISHAW metal grating
Three-axis Motor	Imported AC servo motor	Imported AC servo motor	Imported AC servo motor	Imported AC servo motor	Imported AC servo motor
Control System	British RENISHAW UCC or YZ5000	British RENISHAW UCC or YZ5000	British RENISHAW UCC or YZ5000	British RENISHAW UCC or YZ5000	British RENISHAW UCC or YZ5000
Contact Probe	RENISHAW PH20, RENISHAW PH10M	RENISHAW PH20, RENISHAW PH10M	RENISHAW PH20, RENISHAW PH10M	RENISHAW PH20, RENISHAW PH10M	RENISHAW PH20, RENISHAW PH10M
Operation Joystick	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle	Three-axis stepless variable speed handle
Measurement Software	YZ-DMIS CNC CAD+ measurement software	YZ-DMIS CNC CAD+ measurement software	YZ-DMIS CNC CAD+ measurement software	YZ-DMIS CNC CAD+ measurement software	YZ-DMIS CNC CAD+ measurement software
Computer	Customized	Customized	Customized	Customized	Customized
Working Power Supply	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz	110V-220V single-phase 50Hz
Working Environment	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%	Temperature 20° C ± 2° C, humidity 30-80%
Optional Accessories	Imaging system, automatic	Imaging system, automatic	Imaging system,	Imaging system,	Imaging system, automatic
	probe head, automatic scanning probe, laser probe, probe changer	probe head, automatic scanning probe, laser probe, probe changer	automatic probe head, automatic scanning probe, laser probe, probe changer	automatic probe head, automatic scanning probe, laser probe, probe changer	probe head, automatic scanning probe, laser probe, probe changer

Instrument Features:
3D dimension inspection
Rich software functions, easy to operate

APPLICATION FIELDS
（应用领域）


·Precision molds


•Consumer electronics


•PCB circuit boards


•Automotive parts


•Optical glass lenses


·New energy batteries


•Hardware stamping parts


•Plastic injection products


•Semiconductor and packaging accessories

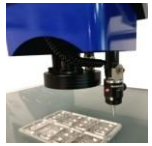

•Connector wire harness terminals

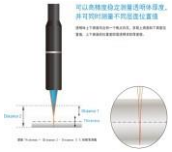
OPTIONAL ACCESSORIES
（可选购配件）


·Calibration piece

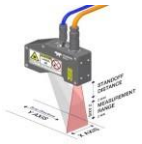

•Glass line scale


•Laser sensor


•Ring light source


·Probe head


•Line laser sensor


•Robotic arm


•Rotary table


·Control joystick


•Additional lens


•Metallographic objective lens


Metallographic Objective Lens

OUR VALUED CLIENTS
（已服务客户）

HUAWEI
GREE 格力 好空调·格力造
京东方 BOE
Haier 海尔
CATL 宁德时代
生益科技 SYTECH
长盈精密
领益智造 LY iTECH
Midea 美的
SKYWORTH 创维
艾华集团 AIHUA GROUP
SUNWODA 欣旺达
Absen 艾比森
吉利汽车 GEELY AUTO
mindray 迈瑞
SCC 深南电路
LUXSHARE-ICT 立讯精密
SMIC 中芯国际
Goertek 歌尔
DESAY 德赛电池
SINOPEC 中国石化
ATL
FOXCONN 富士康