



2021 Products Brochure

Sample Preparation - Hardness Testing

Metallographic Microscope - NDT Instruments



Technical Support



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EBPu Electromechanical Equipment (Zhejiang) Co., Ltd.

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About Us:

Located in the beautiful coastal city of Wenling, Zhejiang, EBPu Electromechanical Equipment (Zhejiang) Co., Ltd. is a key private enterprise in Wenling's high technology industries. we are committed to becoming the most satisfied supplier to our partners & clients!



Our products range: Sample preparation machine, Hardness tester, Metallographic Microscope, Non-destructive Testing Instruments (NDT), Universal testing machine, Impact testing machine and related consumable materials.

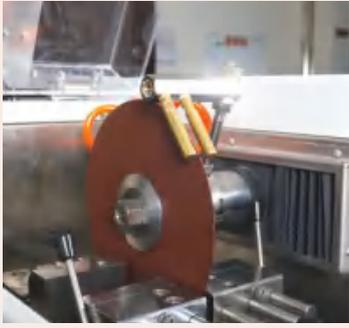
EBP's mission is provide one-stop testing solutions to customers and make test more easier! We providing our users with innovative & robust full lab-solutions, reliable service, support & access to the knowledge that comes from our team serving the industry for 10+ years.



The team is composed of a group of engineers with more than ten years of research, development, promotion and sales experience in the field of material testing. The backbone of the team, Mr. Zhou, has rich experience in overseas promotion and sales, and took the lead in setting up the

company's international promotion and sales team. With professional language skills, solid product skills and international promotion capabilities, we can provide much better service to our overseas markets. After years of continuous accumulation and precipitation, the company's products have been sold in more than 50 countries and regions, and are widely trusted and loved by users. This is the pride of our EBP people. We will work harder and down-to-earth with better products and Service to give back to our customers!

Products Range



Sample preparation machine, Hardness tester, Microscope, NDT Instruments, Universal testing machine

Certified by CE, ISO9001, SGS

Advanced Fully Automatic Digital Micro Vickers Hardness Tester

eVick-1XY / eVick-1XYZ

Automated design, Automatic XY move,
Automatic Measuring, Automatic get
hardness value and Automatic generate the
testing report



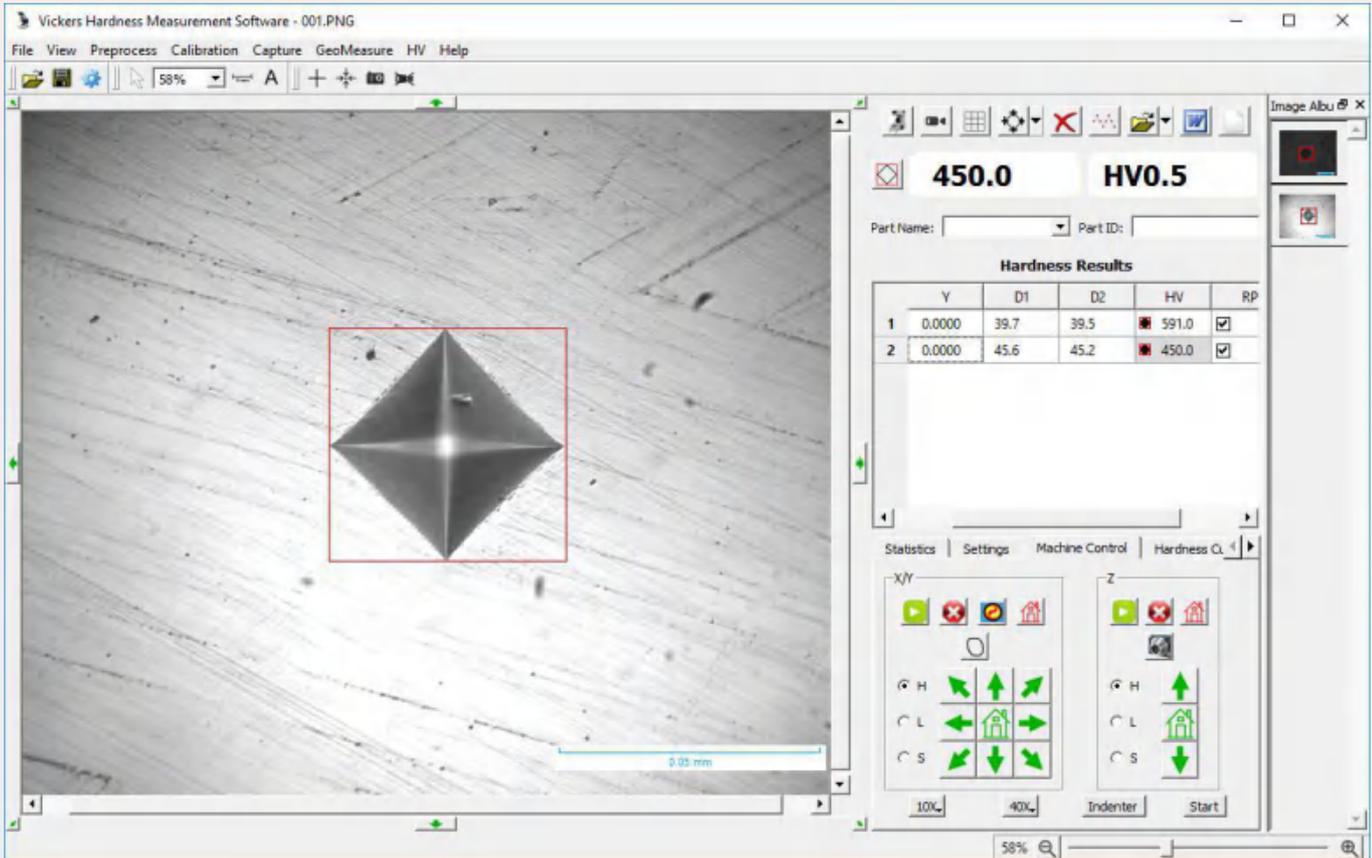
Specification:

Model		eVick-1XY	eVick-1XYZ
Focus		Manual Focus	Automatic Focus
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf	
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N	
Test Range		1HV-2967HV	
Test Mode		HV/HK	
Loading Method		Automatic (Loading/Dwell/Unloading)	
Turret		Automatic Shifting	
Conversion Scale		HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB	
Data Output		Built-in Printer; Computer screen (software window) WORD or EXCEL Report with Curve Chart	
Hardness Reading		Indentation Displaying and Automatic Measuring on PC	
Objective		10X (Observe), 40X (Measure)	
Eyepiece		Digital 10X eyepiece with built-in encoder, auto calculate	
Total Magnification		100X , 400X	

EBP --- Provide solutions for materials preparation, testing and analysis!

One of the leading suppliers in China

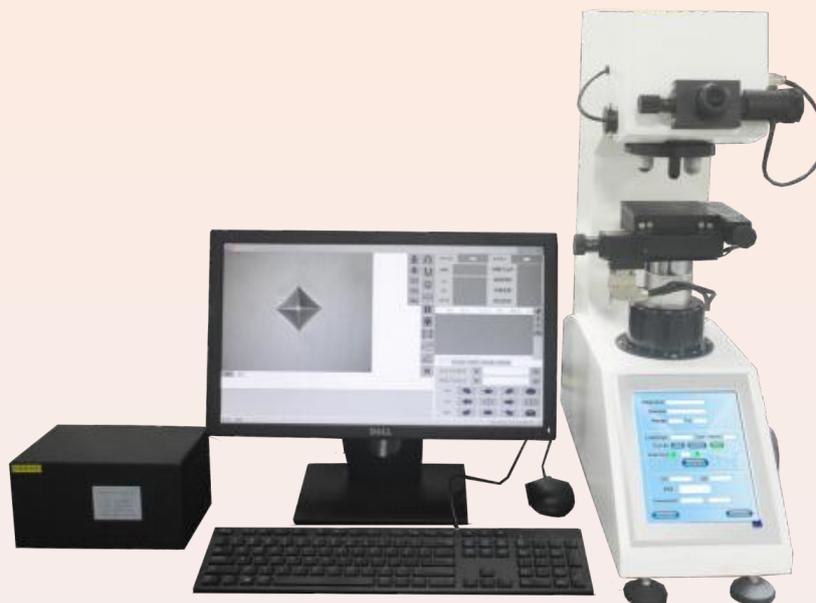
Dwell Time	5-99s, each step 1 second
Machine display	Touch screen
Light Source	LED cold light source (can be continuous use for 24 hours, no heat generate ensure stable working, servicing life can reach 100,000 hours)
Max. Height of Specimen	80mm
Throat	110mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2
Dimension	215×450×468mm, Packing Dimension: 560×390×810mm
Weight	Net Weight: 45kg, Gross Weight: 60kg



Camera	5 Million Pixel digital camera
Motorized X-Y Platform table (Control by PC, support auto work / manual work)	Auto move; 110X110mm;
	Max. Move range: 25x25mm (X-Y axis direction)
	Precision: less than 2um (resolution 0.002mm)
	Move speed: 1-10mm/sec (adjustable)
	Displacement repeatability $\leq 2\mu\text{m}$
	Move direction: Support 8 directions move

Advanced Automatic Digital Micro Vickers Hardness Tester

DVS-1XY



Model	DVS-1XY
Focus	Manual Focus
X-Y Testing Table	Motorized XY table control by computer (Automatic X-Y movement)
Turret	Automatic Turret
Objective	10X (measure); 40X (measure)
Eyepiece	10X digital eyepiece with built-in encoder
Total Magnification	100X (measure); 400X (measure)
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N)
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1
Conversion scale	HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, HK, HBW
Indenter	Standard Rectangular pyramid diamond indenter
Hardness value rang	8HV-2900HV
Optical paths	Dual optical path (eyepiece + camera tube path), both paths can work at same time
Data display	8 inches LCD touch screen
Loading method	Automatically (Load, dwell and unload the testing force)
Duration time	1-99s (each step is 1 second)
Test space	Maximum height: 100mm (vertical); Throat depth: 130mm (horizontal)
Light Source	LED Cold light source
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734

Intelligent Digital Micro Vickers Hardness Tester

DVS-1AT



- Sturdy structure, modular design and stable working performance
- Integrated computer, software and machine in one unit
- Load from 10 to 1000g, can extend to 2kgf
- XY work table with high precision digital meter head
- Inbuilt camera design, avoid camera dirty and more safe
- Touch screen panel, menu structure, easy operate
- Generate test report in word / Excel automatically
- With hardness conversion function
- Hardness value automatic judgement function

Specification:

Model	DVS-1AT	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
Test Range	1HV~2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Turret	Automatic Shifting	
Computer	CPU: Intel I5, Memory: 2G, SSD: 64G	
CCD Pixel	1.30 Million	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen	
Data Output	WORD or EXCEL Report with Curve Chart	
Objective	10X(Observe) 40X(Measure)	
Min. Measuring Unit	0.025μm	
Dwell Time	0-60s	
Light Source	Halogen Lamp	
Digital X-Y Test Table	Size: 120×120mm; Travel: 25×25mm; Resolution: 0.003mm	
Test space	185 x 130mm (Height x throat depth)	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	

Advanced Digital Micro Vickers Hardness Tester With Software

DVS-1AT-8P / DVS-1MT-8P / DVS-1AT-8 / DVS-1MT-8



DVS-1AT-8 / DVS-1MT-8



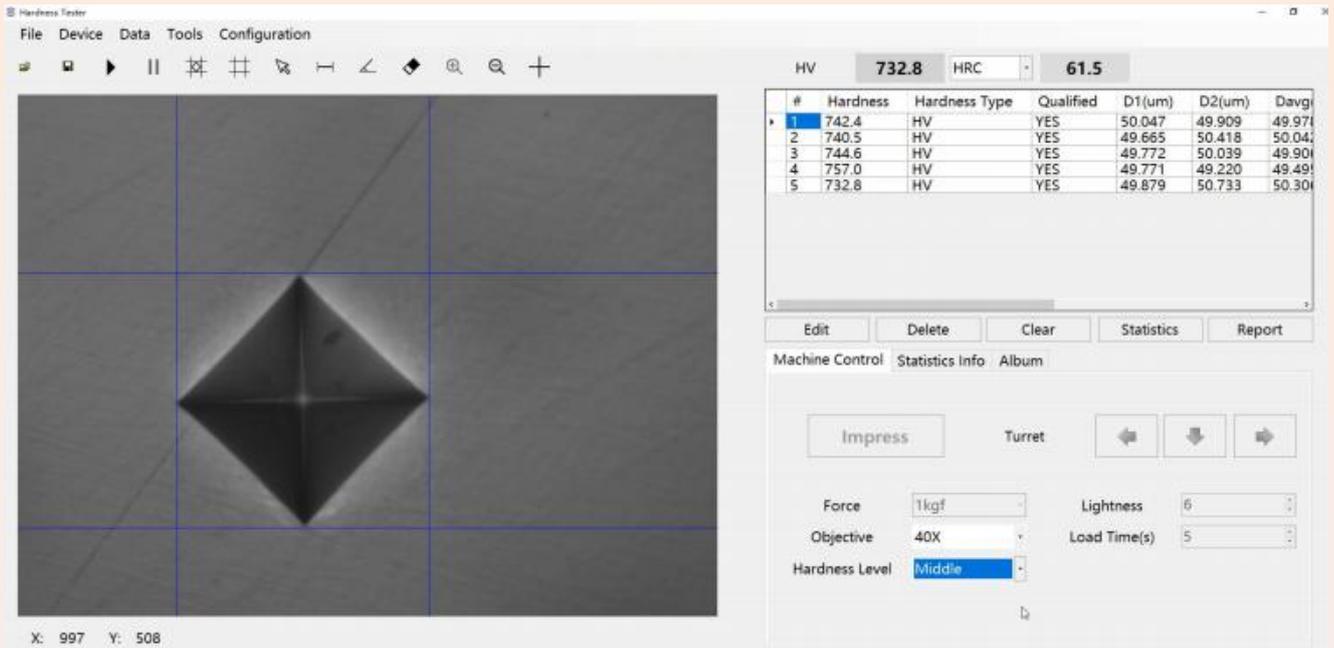
DVS-1AT-8P / DVS-1MT-8P

Main Functions of Software:

- 1. Auto hardness measurement:** With a click of a button, the software automatically measures the diagonals of the indentation, calculates the hardness value and the statistics (also support manual measurement);
- 2. Hardness curve:** With the depths of test points by user input, the software automatically plots the hardness curve(s); User may save and load the depths in a depth template file for later testing for convenience;
- 3. Hardness Conversion:** Converts HV to other hardness scales (HRA, HRB, HRC, HBW, HK, etc);
- 4. Data remember / Store function:** All data in the process of measurement will be saved in the right bottom sheet.

And all measurement data can be 'edit, delete, statistic, report'

- 5. Statistics:** Automatically updates the statistical values such as average, min and max, standard deviation;
- 6. Test report:** Automatically generates WORD report with customizable template;
- 7. Data archiving:** Measurement data and images can be saved in one file for later retrieval;
- 8. Knoop Scale:** Can be configured for Knoop Scale measurement;
- 9. Other Functions:** Includes the basic functions of imaging system such as image capture, camera calibration, image processing, etc.

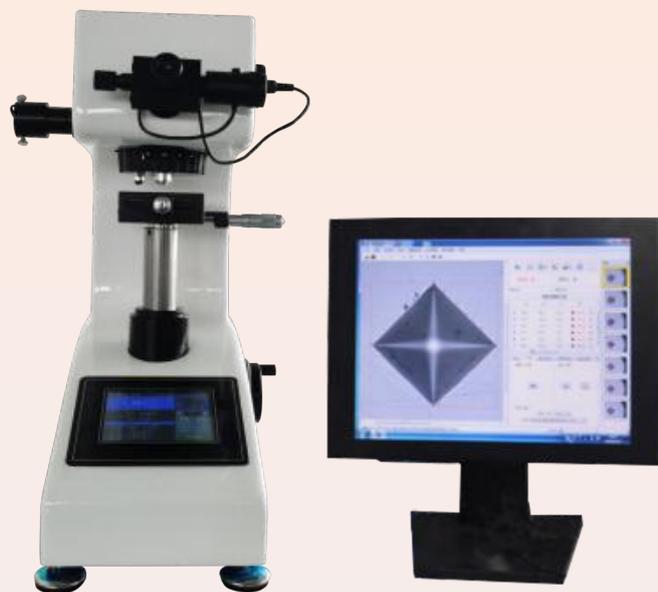


Specification:

Model	DVS-1MT-8	DVS-1AT-8	DVS-1MT-8P	DVS-1AT-8P
Turret	Manual Turret	Automatic Turret	Manual Turret	Automatic Turret
Objective	10X (Observe); 40X (measure)		10X (measure); 40X (measure)	
Eyepiece	10X digital eyepiece with built-in encoder			
Total Magnification	100X (observe); 400X (measure)		100X (measure); 400X (measure)	
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N)			
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1			
Conversion scale	HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, HK, HBW			
Indenter	Standard Rectangular pyramid diamond indenter			
Hardness value rang	8HV-2900HV			
Optical paths	Dual optical path (eyepiece + camera tube path), both paths can work at same time			
Software & Camera	Professional THVS-A Software support Automatic measuring and manual measuring work mode; Built-in 1.3 Million pixel camera; Generate test report in word format.			
Data display	8 inches LCD touch screen & computer software window			
Loading method	Automatically (Load, dwell and unload the testing force)			
Duration time	1-99s (each step is 1 second)			
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm			
Test space	Maximum height: 100mm (vertical); Throat depth: 130mm (horizontal)			
Light Source	LED Cold light source			
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734			

Advanced Digital Micro Vickers Hardness Tester With Software

eVick-1ATS / eVick-1MTS



- Automatic turret, dual optical path
- Professional HVS-A software system
- Load from 10 to 1000g, can extend to 2kgf
- Large touch screen, menu structure, easy operate
- Inbuilt printer and RS232 port, easy data output
- Hardness value automatic judgement function

Specification:

Model	eVick-1MTS	eVick-1ATS
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: $\pm 1.0\%$	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Indenter	Standard Rectangular pyramid diamond indenter ($136^\circ \pm 0.5^\circ$)	
Hardness value rang	5HV-3000HV	
Software & Camera	Professional HVS-A Hardness measurement & Analysis Software and 5 million pixel camera; Photography port and eyepiece port can work at same time; Software support auto / manual measure mode, automatic generate test report	
Eyepiece	10X digital eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation) , 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-99s (each step is 1 second)	
Testing space	90mm (height) x 95mm (Throat depth)	
Instrument size and Net weight	405*290*480mm (L×W×H)	40kg
Light Source	LED cold light source	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734	

Digital Micro Vickers Knoop Hardness Tester With Software (Double Indenter)

DVKS-1A-6

- With Vickers & Knoop indenter (HV & HK)
- Automatic turret six positions (4 pcs lens)
- Professional HVS-A software system
- Load from 10 to 1000gf, can extend to 2kgf
- Inbuilt printer and RS232 port, easy data output
- Hardness value automatic judgement function

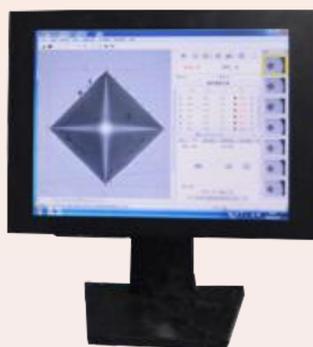


Specification:

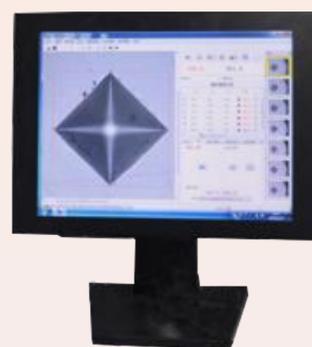
Model	DVKS-1A-6	
Turret	Automatic	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
Test Range	1HV-2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
Software & Camera	Professional HVS-A Hardness measurement & Analysis Software and 5 million pixel camera; Photography port and eyepiece port can work at same time; Software support auto / manual measure mode, automatic generate test report	
Data Output	Built-in Printer, RS232 Interface	
Hardness Reading	LCD Display, Data can be saved	
Objective	10X (Observe), 20X (Measure), 40X (HV Measure), 40X (HK Measure)	
Eyepiece	10X digital eyepiece with built-in encoder	
Total Magnification	100X , 200X , 400X , 400X	
Resolution	0.03μm , 0.015μm	
Dwell Time	0-95s	
Light Source	Halogen Lamp	
X-Y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm	
Test space	90x120mm (HxD)	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	

Digital Micro Vickers Hardness Tester With Software

eVick-1BAS / eVick-1BMS / eVick-1DAS / eVick-1DMS



eVick-1BAS / eVick-1BMS



eVick-1DAS / eVick-1DMS

Specification:

Model	eVick-1BMS	eVick-1BAS	eVick-1DAS	eVick-1DMS
Turret	Manual turret	Automatic turret	Automatic turret	Manual turret
Screen	Large LCD screen		Small LCD screen	
Test force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf(4.9N), 1kgf (9.8N)			
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1			
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T			
Hardness range	5-3000HV			
Software & Camera	Professional HVS-A Hardness measurement & Analysis Software and 5 million pixel camera; Photography port and eyepiece port can work at same time; Software support auto / manual measure mode, automatic generate test report			
Data output	built-in printer, RS-232 port			
Test space	90mm * 95mm (Height * Throat Depth)			
X-Y Testing table	Dimension: 100x100mm Max movement: 25x25mm			
Force loading type	Automatic (Loading, Dwell, Unloading)			
Magnification	Eyepiece: 10X; Objective: 10X (observation use); 40X (measuring use) Total: 100X (observation); 400X (Measuring)			
Duration time	1~99s			
Power supply	AC220V ± 5%, 50-60Hz			

Analog Eyepiece Micro Vickers Hardness Tester With Software

eVick-1000ATS / eVick-1000MTS



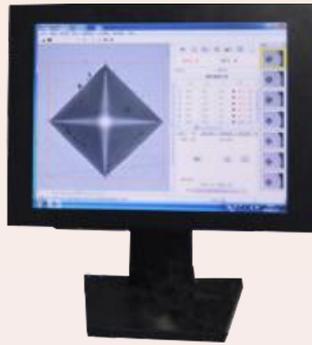
- Dual optical path can work at same time
- Professional HVS-A software system
- Load from 10 to 1000g, can extend to 2kgf
- Large touch screen, menu structure
- Hardness value automatic judgement function
- One-time casting Aluminum machine body with car painting technology, structure more stable and looking more better.

Specification:

Model	eVick-1000MTS	eVick-1000ATS
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: ±1.0%	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Indenter	Standard Rectangular pyramid diamond indenter (136° ±0.5°)	
Hardness value rang	5HV-3000HV	
Software & Camera	Professional HVS-A Hardness measurement & Analysis Software and 5 million pixel camera; Photography port and eyepiece port can work at same time; Software support auto / manual measure mode, automatic generate test report	
Hardness Reading	Digital LCD Screen	
Eyepiece	10X manual analog eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation) , 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-60s (each step is 1 second)	
Light Source	LED cold light source	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	
Test space	90mmx95mm (height x depth)	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734	

Analog Eyepiece Micro Vickers Hardness Tester With Software

eVick-1AS / eVick-1MS



- Dual optical path can work at same time
- Professional HVS-A software system
- Load from 10 to 1000g, can extend to 2kgf
- LCD screen, menu structure
- Hardness value automatic judgement function
- One-time casting Aluminum machine body with car painting technology, structure more stable and looking more better.

Specification:

Model	eVick-1MS	eVick-1AS
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: ±1.0%	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Loading speed	≤0.05mm/sec	
Indenter	Standard Rectangular pyramid diamond indenter (136° ±0.5°)	
Hardness value rang	5HV-3000HV	
Software & Camera	Professional HVS-A Hardness measurement & Analysis Software and 5 million pixel camera; Photography port and eyepiece port can work at same time; Software support auto / manual measure mode, automatic generate test report	
Eyepiece	10X manual analog eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation) , 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-60s (each step is 1 second)	
Maximum height	90mm	
Throat depth	95mm	
Light Source	LED cold light source	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	

8" Touch Screen Series Advanced Digital Micro Vickers Hardness Tester

DV-1AT-8P / DV-1MT-8P / DV-1AT-8 / DV-1MT-8

- Sturdy structure, modular design and stable working performance
- Load from 10 to 1000g, can extend to 2kgf
- Automatic calculate eyepiece equipped with inbuilt encoder
- 8" touch screen panel, menu structure, easy operate
- Dual optical paths: camera path & eyepiece path
- Inbuilt printer and RS232 port, easy data output
- With hardness conversion and easy calibration function
- Hardness value automatic judgement function
- Can work with hardness measurement software system



- Most advanced worm gear rod lifting system
- Guided by **optical cross rails** to ensure high guiding accuracy
- **Fast and smooth** force transmission can be achieved by using the secondary transmission force of the **rack and pinion**

- Advanced optical system, over 10 years continuous improved, indentation display more clear;
- AT model with motorized turret;
- MT model with manual turret;
- X-Y precise work table with manual micrometer head, digital micrometer head for optional purchase





- 1 - Inbuilt printer
- 2 - RS232 port, software control machine by this port (on PC control machine turret, lightness, etc.)
- 3 - Inbuilt camera data line out port
- 4 - Power switch key
- 5 - Power port

Mark: DV-1AT-8P / DV-1MT-8P with all above items; DV-1AT-8 / DV-1MT-8 without item 1 & 2

Specification:

Model	DV-1MT-8	DV-1AT-8	DV-1MT-8P	DV-1AT-8P
Turret	Manual Turret	Automatic Turret	Manual Turret	Automatic Turret
Objective	10X (Observe); 40X (measure)		10X (measure); 40X (measure)	
Eyepiece	10X digital eyepiece with built-in encoder			
Total Magnification	100X (observe); 400X (measure)		100X (measure); 400X (measure)	
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N)			
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1			
Conversion scale	HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, HK, HBW			
Indenter	Standard Rectangular pyramid diamond indenter			
Min. measuring unit	0.01μm			
Hardness value rang	8HV-2900HV			
Optical paths	Dual optical path (eyepiece + camera tube path), both paths can work at same time			
Data display	8 inches LCD touch screen			
Loading method	Automatically (Load, dwell and unload the testing force)			
Duration time	1-99s (each step is 1 second)			
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm, Moving Resolution Ratio: 0.01mm			
Test space	Maximum height: 100mm (vertical); Throat depth: 130mm (horizontal)			
Light Source	LED Cold light source (can be continuous use for 24 hours, no heat generate ensure stable working, servicing life can reach 100,000 hours)			
Machine size and N/W	540*260*650mm 50kg			
Packing size and G/W	710*420*627mm 71kg			
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734			

eVick Series Touch Screen Digital Micro Vickers Hardness Tester

eVick-1AT / eVick-1MT

- One-time casting Aluminum machine body with car painting technology, structure more stable and looking more better.
- Load from 10 to 1000g, can extend to 2kgf
- Automatic calculate eyepiece equipped with inbuilt encoder
- Large touch screen, menu structure, easy operate
- Dual optical paths: eyepiece path & photography path (camera for optional purchase)
- Inbuilt printer and RS232 port, easy data output
- Hardness value automatic judgement function
- Can work with hardness measurement software system



Specification:

Model	eVick-1MT	eVick-1AT
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: ±1.0%	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Indenter	Standard Rectangular pyramid diamond indenter (136° ±0.5°)	
Min. measuring unit	0.01µm	
Hardness value rang	5HV-3000HV	
Eyepiece	10X digital eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation), 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-99s (each step is 1 second)	
Testing space	90mm (height) x 95mm (Throat depth)	
Instrument size and Net weight	405*290*480mm (L×W×H)	40kg
Light Source	LED cold light source	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734	

Motorized 6 Positions Turret Digital Micro Vickers Knoop Hardness Tester

DVK-1A-6

- Sturdy structure, modular design and stable working performance
- Automatic turret, 6 positions (HV diamond indenter, HK diamond indenter, 10X (Observe), 20X (Measure), 40X (HV Measure), 40X (HK Measure))
- Load from 10 to 1000g, can extend to 2kgf
- Automatic calculate eyepiece equipped with inbuilt encoder
- Large LCD screen, menu structure, easy operate
- Dual optical paths: eyepiece path & camera path (camera path for optional purchase)
- Inbuilt printer and RS232 port, easy data output



Specification:

Model	DVK-1A-6	
Turret	Automatic	
Test Force	gf	10gf, 25gf, 50gf, 100gf, 200gf, 300gf, 500gf, 1000gf
	N	0.098N, 0.246N, 0.49N, 0.98N, 1.96N, 2.94N, 4.90N, 9.80N
Test Range	1HV-2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
Data Output	Built-in Printer, RS232 Interface	
Hardness Reading	LCD Display, Data can be saved	
Objective	10X (Observe), 20X (Measure), 40X (HV Measure), 40X (HK Measure)	
Eyepiece	10X digital eyepiece with built-in encoder	
Total Magnification	100X , 200X , 400X , 400X	
Resolution	0.03μm , 0.015μm	
Dwell Time	0-95s	
Light Source	Halogen Lamp	
X-Y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm	
Test space	90×120mm (HxD)	
Execute Standard	ISO 6507, ASTM E384, JIS Z2244, GB/T 4340.2	

eVick Series Keypads Type Digital Micro Vickers Hardness Tester

eVick-1BA / eVick-1BM / eVick-1DA / eVick-1DM



- 1BA / 1BM with Large LCD screen; 1DA / 1DM with small LCD screen
- One-time casting Aluminum machine body with car painting technology, structure more stable and looking more better.
- Load from 10 to 1000g, can extend to 2kgf
- Automatic calculate eyepiece equipped with inbuilt encoder
- Dual optical paths: eyepiece path & photography path can work at same time



Specification:

Model	eVick-1BM	eVick-1BA	eVick-1DA	eVick-1DM
Turret	Manual turret	Automatic turret	Automatic turret	Manual turret
Screen	Large LCD screen		Small LCD screen	
Test force	10gf (0.098N), 25gf (0.245N), 50gf (0.49N), 100gf (0.98N), 200gf (1.96N), 300gf (2.94N), 500gf(4.9N), 1kgf (9.8N)			
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1			
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T			
Hardness range	5-3000HV			
Min measuring unit	0.01μm			
Data output	built-in printer, RS-232 port			
Test space	90mm * 95mm (Height * Throat Depth)			
X-Y Testing table	Dimension: 100x100mm Max movement: 25x25mm			
Force loading type	Automatic (Loading, Dwell, Unloading)			
Magnification	Eyepiece: 10X; Objective: 10X (observation use); 40X (measuring use) Total: 100X (observation); 400X (Measuring)			
Duration time	1~99s			
Power supply	AC220V ± 5%, 50-60Hz			

eVick Series Touch Screen Type Analog Eyepiece Micro Vickers Hardness Tester

eVick-1000AT / eVick-1000MT



Precision Worm Rod Type



Precision Screw Rod Type

Specification:

Model	eVick-1000MT	eVick-1000AT
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: ±1.0%	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Indenter	Standard Rectangular pyramid diamond indenter (136° ±0.5°)	
Min. measuring unit	0.25µm	
Hardness value rang	5HV-3000HV	
Hardness Reading	Digital LCD Screen	
Eyepiece	10X manual analog eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation), 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-60s (each step is 1 second)	
Light Source	LED cold light source	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	
Test space	90mm×95mm (height x depth)	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
Executed Standard	GB/T4340, ASTM E384 & E92, EN-ISO 6507, JIS B-7734	

eVick Series Keypads Type Analog Eyepiece Micro Vickers Hardness Tester

eVick-1A / eVick-1M

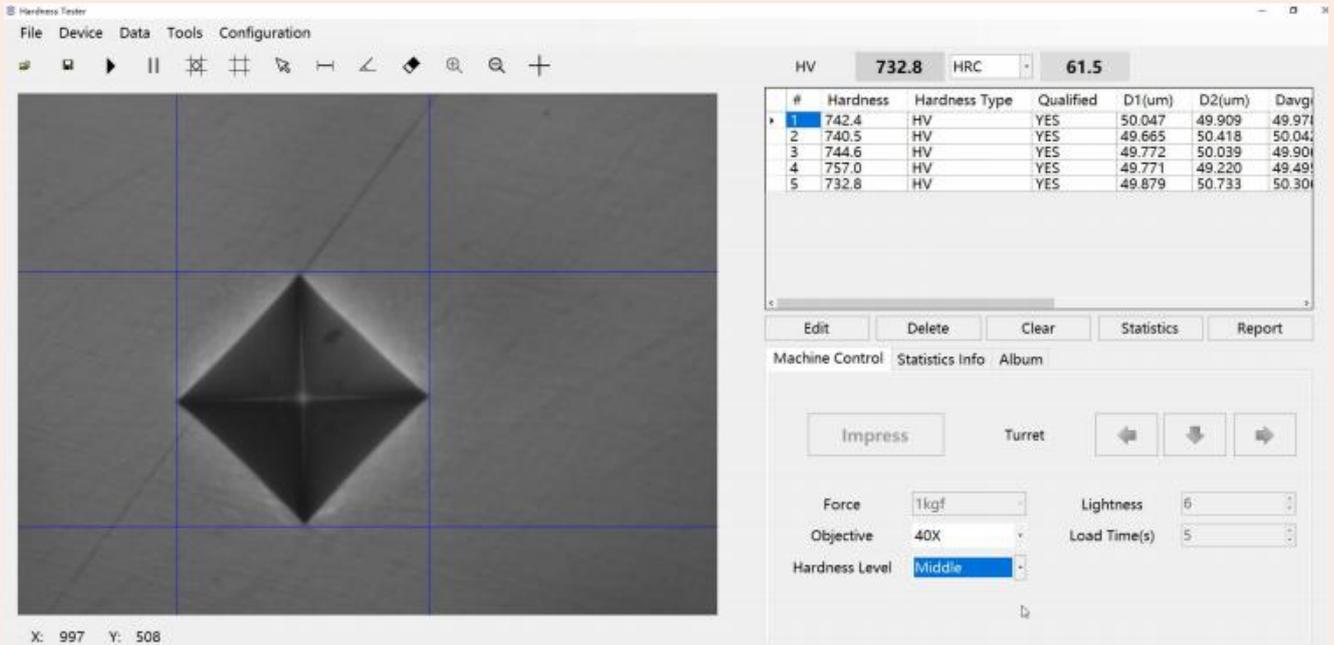


Specification:

Model	eVick-1M	eVick-1A
Turret	Manual Turret	Automatic Turret
Testing force	10g (0.098N), 25g (0.245N), 50g (0.49N), 100g (0.98N), 200g (1.96N), 300g (2.94N), 500g (4.9N), 1000g (9.8N) Test force error: ±1.0%	
Hardness scale	HV0.01, HV0.025, HV0.05, HV0.1, HV0.2, HV0.3, HV0.5, HV1	
Loading speed	≤0.05mm/sec	
Indenter	Standard Rectangular pyramid diamond indenter (136° ±0.5°)	
Min. measuring unit	0.25µm	
Hardness value rang	5HV-3000HV	
Eyepiece	10X manual analog eyepiece	
Objective lens	10X (observe), 40X (Measurement)	
Total magnification	100X (For Observation) , 400X (For Measurement)	
Loading method	Automatically (Load, dwell and unload the testing force)	
Duration time	1-60s (each step is 1 second)	
Maximum height	90mm	
Throat depth	95mm	
Light Source	LED cold light source	
Power Supply	220V + 5%, 50/60 Hz (110V is available)	
X-Y Testing Table	Dim.:100×100 mm, Max. Travel Range: 25×25mm	

Micro Vickers / Knoop Hardness Measurement & Analysis Software

THVS-A

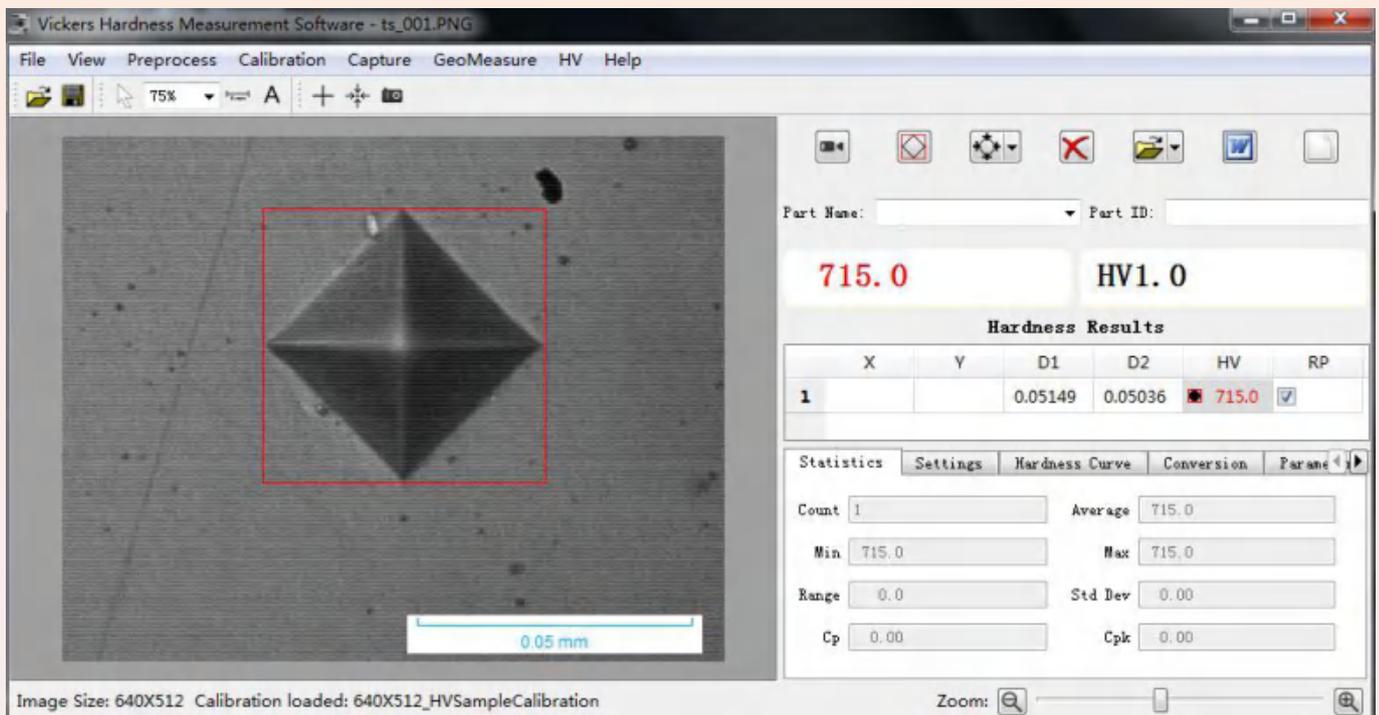


Main Functions:

2. Auto hardness measurement: With a click of a button, the software automatically measures the diagonals of the indentation, calculates the hardness value and the statistics (also support manual measurement);
2. Hardness curve: With the depths of test points by user input, the software automatically plots the hardness curve(s); User may save and load the depths in a depth template file for later testing for convenience;
3. Hardness Conversion: Converts HV to other hardness scales (HRA, HRB, HRC, HBW, HK, etc);
4. Data remember / Store function: All data in the process of measurement will be saved in the right bottom sheet. And all measurement data can be 'edit, delete, statistic, report'
5. Statistics: Automatically updates the statistical values such as average, min and max, standard deviation;
6. Test report: Automatically generates WORD report with customizable template;
7. Data archiving: Measurement data and images can be saved in one file for later retrieval;
8. Knoop Scale: Can be configured for Knoop Scale measurement;
10. Other Functions: Includes the basic functions of imaging system such as image capture, camera calibration, image processing, etc.

Micro / Vickers Hardness Measurement & Analysis Software

HVS-A



Main Functions:

1. Auto hardness measurement: With a click of a button, the software automatically measures the diagonals of the indentation, calculates the hardness value and the statistics;
2. Hardness curve: With the depths of test points by user input, the software automatically plots the hardness curve(s); User may save and load the depths in a depth template file for later testing for convenience;
3. Conversion, compensation, and validation: Converts HV to other hardness scales; Validates the test results with sample dimensions; Compensates the test results with respect to sample cylindrical/spherical diameters;
4. Statistics: Automatically updates the statistical values such as average, min and max, standard deviation, Cp and Cpk;
5. Auto-alarm: Automatically marks the out of spec measurements;
6. Test report: Automatically generates WORD or EXCEL report with customizable template;
7. Data archiving: Measurement data and images can be saved in one file for later retrieval;
8. Knoop Scale: Can be configured for Knoop Scale measurement;
9. Other Functions: Includes the basic functions of imaging system such as image capture, camera calibration, image processing, geometric measurement, document labeling, album management, and printing with specified magnifications.

Weights Type Touch Screen Digital Macro Vickers Hardness Tester

DV-5/10/30/50AT-8P DV-5/10/30/50MT-8P
DV-5/10/30/50AT-8 DV-5/10/30/50MT-8

- Sturdy structure, modular design and stable working performance
- 8" touch screen with hardness conversion function
- Dual optical paths: eyepiece path & camera path
- Automatic calculate eyepiece equipped with inbuilt encoder
- Easy hardness value & force calibration function
- AT - Automatic turret; MT - Manual turret
- P - Inbuilt printer; Without P - Without inbuilt printer
- Support camera built-in or external



Specification:

Hardness scale	5AT / 5MT	HV0.3, HV0.5, HV1, HV2, HV3, HV5
	10AT / 10MT	HV0.3, HV0.5, HV1, HV3, HV5, HV10
	30AT / 30MT	HV1, HV3, HV5, HV10, HV20, HV30
	50AT / 50MT	HV1, HV5, HV10, HV20, HV30, HV50
Test Force	5AT / 5MT	0.3Kgf, 0.5Kgf, 1.0Kgf, 2.0Kgf, 3.0Kgf, 5Kgf 2.94N, 4.9N, 9.8N, 19.6N, 29.4N, 49.0N
	10AT / 10MT	0.3kgf, 0.5kgf, 1kgf, 3kgf, 5kgf, 10kgf 2.94N, 4.90N, 9.80N, 29.4N, 49N, 98N
	30AT / 30MT	1.0Kgf, 3.0Kgf, 5.0Kgf, 10Kgf, 20Kgf, 30Kgf 9.8N, 29.4N, 49.0N, 98.0N, 196N, 294N
	50AT / 50MT	1.0Kgf, 5.0Kgf, 10Kgf, 20Kgf, 30Kgf, 50Kgf 9.8N, 49.0N, 98.0N, 196N, 294N, 490N
Hardness conversion		HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Hardness range		8-2900HV
Force loading		Automatic loading - dwell - unloading
Magnification		Standard: 100X, 200X
Dwell time		0-99S
Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2

Close Loop Load Cell type Touch Screen Digital Macro Vickers Hardness Tester

DV-5ALT/ DV-10ALT / 30ALT / 50ALT / 100ALT



- Sturdy structure, modular design and stable working performance
- Close loop, high accuracy load cell structure, installation & operation much more easier
- 8'' touch screen with hardness conversion function
- Dual optical paths: eyepiece path & camera path
- Automatic calculate eyepiece equipped with inbuilt encoder
- Easy hardness value & force calibration function
- Both 10X & 20X lens can do measure work
- Support camera built-in or external

Specification:

Test Force	DV-5ALT	0.3Kgf (2.94N), 0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 2.5Kgf(24.5N), 3.0Kgf(29.4N), 5.0Kgf(49.0N)
	DV-10ALT	0.3Kgf (2.94N), 0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N)
	DV -30ALT	0.5Kgf (4.90N), 1.0 Kgf (9.8N), 2.0Kgf(19.6N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N)
	DV-50ALT	1.0 (9.8N), 2.0Kgf(19.6N), 3.0Kgf(29.4N), 5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N), 50.0Kgf(490N)
	DV-100ALT	5.0Kgf(49.0N), 10.0Kgf(98.0N), 20.0Kgf(196N), 30.0Kgf(294N), 50.0Kgf(490N), 100.0Kgf(980N)
Hardness conversion	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Hardness range	8-2900HV	
Force loading	Automatic loading - dwell - unloading	
Turret	Automatic	
Magnification	Standard: 100X (measurement), 200X (measurement)	
Dwell time	0-99S (1 second per step)	
Data output	Test data display on LCD screen, can save to U-flash in Excel format	
Test space	180*160MM (H*D)	
Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2	

Digital Macro Vickers Hardness Tester

eVick-5AT / eVick-5MT / eVick-10AT / eVick-10MT / eVick-30AT / eVick-30MT / eVick-50AT / eVick-50MT



Specification:

eVick-5AT / eVick-5MT	HV0.3, HV0.5, HV1, HV2, HV3, HV5
	0.3kg(2.94N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N)
eVick-10AT / eVick-10MT	HV0.3, HV0.5, HV1, HV3, HV5, HV10
	0.3kg(2.94N), 0.5kg (4.9N), 1kg (9.8N), 3kg (29.4N), 5kg (49N), 10kg (98N)
eVick-30AT / eVick-30MT	HV1, HV3, HV5, HV10, HV20, HV30
	1kg(9.8N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N)
eVick-50AT / eVick-50MT	HV1, HV5, HV10, HV20, HV30, HV50
	1kg(9.8N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N)
Hardness Value Range	5-3000HV, 8-4500HK
Hardness Value of Reading	Digital LCD Screen
Objective lens	10X (observe); 20X (measurement)
Eyepiece	Digital eyepiece with encoder 10X
Total Magnification	100X (For Observation), 200X (For Measurement)
Loading Method	Fully Automatically (Load, dwell and unload)

Macro Vickers Hardness Tester

eVick-5A / eVick-5M / eVick-10A / eVick-10M / eVick-30A / eVick-30M / eVick-50A / eVick-50M

- Automatic loading - dwell - unloading
- Precise manual eyepiece 10X
- Reserved CCD camera path, can work with camera
- High resolution optical system, indentation image very clear
- One time casting shell with car painting
- Traditional keypad operation panel, long and stable working service time
- LED light source, service time more longer



Specification:

eVick-5A / eVick-5M	HV0.2, HV0.5, HV1, HV2, HV3, HV5
	0.2kg(1.96N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N)
eVick-10A / eVick-10M	HV0.5, HV1, HV2, HV3, HV5, HV10
	0.5kg (4.9N), 1kg (9.8N), 2kg (19.6N), 3kg (29.4N), 5kg (49N), 10kg (98N)
eVick-30A / eVick-30M	HV1, HV2, HV3, HV5, HV10, HV20, HV30
	1kg(9.8N),2kg(19.6N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N)
eVick-50A / eVick-50M	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
	1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N)
Hardness Value Range	5-3000HV, 8-4500HK
Hardness Value of Reading	Digital LCD Screen
Total Magnification	100X (For Observation), 200X (For Measurement)
Loading Method	Fully Automatically (Load, dwell and unload)

Digital Macro Vickers Hardness Tester

eVick-5DA / eVick-5DM / eVick-10DA / eVick-10DM / eVick-30DA / eVick-30DM / eVick-50DA / eVick-50DM



- Automatic loading - dwell - unloading
- Precise electronic eyepiece with encoder 10X
- Reserved CCD camera path, can work with camera and hardness software system
- High resolution optical system, indentation image very clear
- One time casting shell with car painting
- Traditional keypad operation panel, long and stable working service time
- LED light source, service time more longer

Specification:

eVick-5DA / eVick-5DM	HV0.2, HV0.5, HV1, HV2, HV3, HV5
	0.2kg(1.96N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N)
eVick-10DA / eVick-10DM	HV0.5, HV1, HV2, HV3, HV5, HV10
	0.5kg (4.9N), 1kg (9.8N), 2kg (19.6N), 3kg (29.4N), 5kg (49N), 10kg (98N)
eVick-30DA / eVick-30DM	HV1, HV2, HV3, HV5, HV10, HV20, HV30
	1kg(9.8N),2kg(19.6N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N)
eVick-50DA / eVick-50DM	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
	1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N)
Hardness Value Range	5-3000HV, 8-4500HK
Data Display	Digital LCD Screen
Eyepiece	10X digital eyepiece with encoder
Total Magnification	100X (For Observation), 200X (For Measurement)
Loading Method	Fully Automatically (Load, dwell and unload)

Digital Macro Vickers Hardness Tester

eVick-5BA / eVick-5BM / eVick-10BA / eVick-10BM / eVick-30BA / eVick-30BM / eVick-50BA / eVick-50BM

- Automatic loading - dwell - unloading
- Precise electronic eyepiece with encoder 10X
- Reserved CCD camera path, can work with camera and hardness software system
- High resolution optical system, indentation image very clear
- One time casting shell with car painting
- Traditional keypad operation panel, long and stable working service time
- LED light source, service time more longer



Specification:

eVick-5BA / eVick-5BM	HV0.2, HV0.5, HV1, HV2, HV3, HV5
	0.2kg(1.96N), 0.5kg(4.9N), 1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg (49N)
eVick-10BA / eVick-10BM	HV0.5, HV1, HV2, HV3, HV5, HV10
	0.5kg (4.9N), 1kg (9.8N), 2kg (19.6N), 3kg (29.4N), 5kg (49N), 10kg (98N)
eVick-30BA / eVick-30BM	HV1, HV2, HV3, HV5, HV10, HV20, HV30
	1kg(9.8N),2kg(19.6N),3kg(29.4N),5kg(49N),10kg(98N),20kg(196N), 30kg(294N)
eVick-50BA / eVick-50BM	HV1, HV2, HV3, HV5, HV10, HV20, HV30, HV50
	1kg(9.8N), 2kg(19.6N), 3kg(29.4N), 5kg(49N), 10kg(98N), 20kg(196N), 30kg(294N), 50kg(490N)
Hardness Value Range	5-3000HV, 8-4500HK
Data Display	Digital LCD Screen
Eyepiece	10X digital eyepiece with encoder
Total Magnification	100X (For Observation), 200X (For Measurement)
Loading Method	Fully Automatically (Load, dwell and unload)

Macro Vickers Hardness Testing System

eVick-5/10/30/50ATS / eVick-5/10/30/50MTS / eVick-5/10/30/50BAS / eVick-5/10/30/50BMS
eVick-5/10/30/50DAS / eVick-5/10/30/50DMS / eVick-5/10/30/50AS / eVick-5/10/30/50MS
DVS-5/10/30/50AT-8P / DVS-5/10/30/50MT-8P / DVS-5/10/30/50AT-8 / DVS-5/10/30/50MT-8
DVS-10ALT / DVS-30ALT / DVS-50ALT



Intelligent Digital Vickers Hardness Tester

DVS-5AT / 10AT / 30AT / 50AT

- Sturdy structure, modular design and stable working performance
- Integrated computer, software and machine in one unit
- XY work table with high precision digital meter head
- Inbuilt camera design, avoid camera dirty and more safe
- Touch screen panel, menu structure, easy operate
- Generate test report in word / Excel automatically
- With hardness conversion function
- Hardness value automatic judgement function

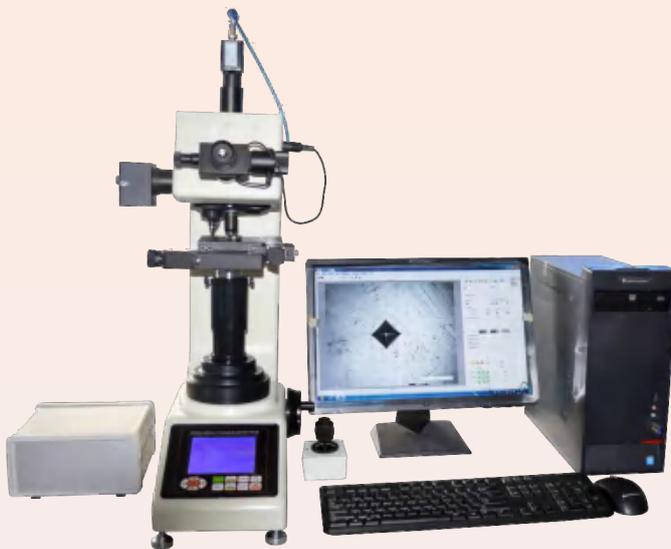


Specification:

Test Force	DVS-5AT	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf 1.96N, 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N
	DVS-10AT	0.2kgf, 0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf 1.96N, 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N
	DVS-30AT	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf 2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N
	DVS-50AT	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N
Test Range	1HV - 2967HV	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Turret	Automatic Shifting	
Computer	CPU: Intel I5, Memory: 2G, SSD: 64G	
CCD Pixel	1.30 Million	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBW	
Hardness Reading	Indentation Displaying and Automatic Measuring on Touch Screen	
Data Output	WORD or EXCEL Report with Curve Chart	
Objective	10X, 20X, 40X	
Min. Measuring Unit	0.1μm, 0.05μm, 0.025μm	
Dwell Time	0 - 60s	
Light Source	Halogen Lamp	
Digital X-Y Test Table	Size: 120×120mm; Travel: 25×25mm; Resolution: 0.003mm	
Test space	185x130mm (Max. Height x Throat Depth)	
Execute Standard	ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2	

Advanced Automatic Digital Vickers Hardness Tester

DVS-5/10/30/50XY DVS-5/10/30/50XYZ



- XY model: Manual focus; XYZ model motorized (automatic) focus
- Motorized XY table
- Multifunctional software system can do all kinds of HV - HK hardness testing
- Generate test report in word / Excel format including indentation image and hardness curve

Specification:

Test Force	DVS-5XY	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf
	DVS-5XYZ-S	2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N
	DVS-10XY	0.3kgf, 0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf
	DVS-10XYZ-S	2.94N, 4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N
Test Force	DVS-30XY	0.5kgf, 1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf
	DVS-30XYZ-S	4.90N, 9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N
Test Force	DVS-50XY	1kgf, 2kgf, 2.5kgf, 3kgf, 5kgf, 10kgf, 20kgf, 30kgf, 50kgf
	DVS-50XYZ-S	9.80N, 19.6N, 24.5N, 29.4N, 49N, 98N, 196N, 294N, 490N
Eyepiece		10X digital eyepiece with built-in encoder
Test Range		1HV - 2967HV
Loading Method		Automatic (Loading/Dwell/Unloading)
Force & test load control		Close loop, load cell
Turret		Automatic Shifting
Conversion Scale		HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HB
Data Output		Built-in Printer; WORD or EXCEL Report with Curve Chart
Hardness Reading		Indentation Displaying and Automatic Measuring on PC
Light Source		Halogen Lamp
Motorized X-Y Test Table		Size: 110×110mm; Travel: 50×50mm; Resolution: 0.002mm
Test space		Height: 170mm; Depth: 130mm
Execute Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2

Manual Rockwell Hardness Tester

R-150M

- Sturdy structure, modular design and stable working performance
- Scale: HRA - HRB - HRC; Load: 60 - 100 - 150kgf
- Test process by manual, no need electric power, easy operate
- Test value read from dial directly
- Application: Hardened steel, quenched and tempered steel, annealing steel, bearing steel, strip steel, hardened steel sheet, hard alloy, etc.



Specification:

Model	R-150M
Rockwell scale	HRA,HRB,HRC,HRD,HRE,HRF,HRG,HRH, HRK,HRL,HRM,HRR
Conversion scale	Check Conversion table
Preliminary test force	10Kg(98N)
Total test force	60Kg (588N), 100Kg (980N), 150Kg (1471N)
Resolution	0.5HR
Hardness value range	HRA:20 - 88 HRB:20 - 100 HRC:20 - 70
Hardness data read	Dial
Loading method	Manual
Dwell time	Manual
Test space	Maximum height :170mm; Maximum throat depth:135mm
Size / weight	Instrument size: 466*238*630mm (L×W×H) /Net Weight: 65kg
Executive standard	GB/T230.2 , BSEN 6508, ASTM E18 , ISO 6508 , JIG112

Touch Screen Digital Rockwell Hardness Tester

eRock-45T / eRock-150T / eRock-150TP



- Scale: HRA - HRB - HRC; Load: 60 - 100 - 150kgf
- Digital independent LCD screen
- Auto load - dwell - unload
- LCD dial with data output interface

Specification:

Model	eRock-45T	eRock-150T	eRock-150TP
Hardness scale	Superficial Rockwell: HR15N,HR30N, HR45N,HR15T, HR30T, HR45T	Rockwell scale: HRA,HRB,HRC,HRD, HRE,HRF,HRG,HRH, HRK	Plastic Rockwell: HRE, HRL, HRM, HRR
Initial Force	3Kgf(29.42N)	10kgf(98.07N)	
Total test force	15Kgf(147.1N); 30Kgf(294.2N); 45Kgf(441.3N)	60Kg (588N), 100Kg (980N),150Kg (1471N)	
Resolution	0.1HR		
Data Display	LCD touch screen		
Loading method	Automatic (Load, Dwell, Unload)		
Dwell time	1-99S		
Test space	Maximum height :195mm; Maximum throat depth:140mm		

Touch Screen Digital Rockwell Hardness Tester

R-45T / R-150T / R-150TP



- Sturdy structure, modular design and stable working performance
- 8" touch screen control, menu structure, easy operate
- Quality judgement function, over range automatic alarm / tips
- With hardness convert function and easy calibration function
- Automatic loading - Dwell - Unloading
- Equipped with inbuilt printer, test data can print out directly
- Optional purchase Rockwell hardness measurement software

Specification:

Model	R-45T	R-150T	R-150TP
Type	Superficial Rockwell	Rockwell	Plastic Rockwell
Initial load	3Kgf(29.42N)	10kgf (98.07N)	
Total load	15Kgf(147.1N); 30Kgf(294.2N); 45Kgf(441.3N)	60kgf (588N), 100kgf(980N), 150kgf(1471N)	
Hardness Scale	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV	
Conversion Scale	HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HV, HBW		
Loading	Automatic loading - dwell - unloading		
Dwell time	0-99s		
Resolution	0.1HR		
Load value error	<0.5%		
Screen	8 inches high quality industrial use touch screen		
Test space	Height: 200mm, Depth: 160mm		

Advanced Touch Screen Digital Rockwell Hardness Tester

R-150DT

- Close loop, high accuracy load cell control, easy installation & operate
- 8" touch screen control, menu structure, easy operate
- Quality judgement function, over range automatic alarm / tips
- With hardness convert function and easy calibration function
- Indenter with protect device, avoid indenter damage by samples
- Automatic loading - Dwell - Unloading
- Equipped with USB port, test data auto save to U-flash in Excel format



Specification:

Model	R-150DT
Initial Test force	10kgf (98N)
Main Test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
Indenter	Diamond Rockwell Indenter, ϕ 1.588mmBall Indenter
Hardness scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV
Conversion scale	HRA, HRB, HRC, HRD, HRE, HRF, HV, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Dwell time	0-99s
Load value error	<0.5%
Resolution	0.1HR
Test space	220*200mm (H*D)
Hardness reading	LCD display
Data output	USB flash disk in Excel format
Executive standard	BSEN 6508, ISO 6508, ASTM E18, GB/T230

Fully Automatic Rockwell Hardness Tester

R-150AT



- Fully automatic test process, press one key machine auto testing work
- R-150Z: Weights structure, LCD keypad type; R-150AT: load cell, touch screen type
- Modular design, easy operate

Specification:

Model	R-150AT
Initial Test force	10kgf (98N)
Main Test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
Dwell time	1-99s
Resolution	0.1HR
Hardness reading	LCD display
Indenter	Diamond Rockwell Indenter, ϕ 1.588mmBall Indenter
Data output	USB interface
Test space	250x200mm (HxD)
Power supply	AC220 \pm 5%, 50-60Hz
Standards	BSEN 6508, ISO 6508, ASTM E18, GB/T230, JJG112

400mm Test Space Rockwell Hardness Tester

R-150MH / R-150EH / R-150TH



Specification:

Model	R-150MH	R-150EH	R-150TH
Initial Test force	10kgf (98N)		
Main Test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)		
Indenter	Diamond Rockwell Indenter, ϕ 1.588mm Ball Indenter		
Hardness scale	HRA, HRB, HRC		HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV
Loading	Manual	Automatic (Loading/Dwell/Unloading)	
Dwell time	Manual	1-99S	
Resolution	0.5HR		0.1HR
Test space	400x140mm (height x throat depth)		400x160mm (HxD)
Hardness reading	Analog dial		Digital LCD screen
Power supply	No	220V/50-60HZ	
Standards	BSEN 6508, ISO 6508, ASTM E18, GB/T230		

Dial Display Plastic Rockwell Hardness Tester**R-150EP**

- Sturdy structure, modular design and stable working performance
- Read hardness value from dial

Specification:

Model	R-150EP
Initial Test force	10kgf (98N)
Main Test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)
Hardness scale	HRE, HRL, HRM, HRR
Conversion scale	No
Dwell time	2-60 seconds
Resolution	0.5HR
Test space	195*140mm (H*D)
Hardness reading	Analog Dial
Data output	No
Test force change	By change weights
Executive standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2

Dial Display Superficial Rockwell Hardness Tester

R-45M / R-45E



Specification:

Model	R-45M	R-45E
Initial Test Force	3kgf (29.42N)	
Total Test Force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N)	
Hardness scale	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T	
Indenter	Diamond Rockwell Indenter, ϕ 1.588mm Ball Indenter	
Loading Method	Manual	Automatic (Loading/Dwell/Unloading)
Dwell Time	Manual control	2-60S
Power Supply	NO	AC220V, 50Hz
Hardness Reading	Analog Dial	
Resolution	0.5HR	
Max. Height of Specimen	195mm	
Throat	140mm	
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2	

Twin Rockwell Hardness Tester (Rockwell & Superficial Rockwell)

RSR-45/150M ; RSR-45/150E ; RSR-45/150DT



Specification:

Model	RSR-45/150M	RSR-45/150E	RSR-45/150DT
Initial Test Force	3kgf (29.42N), 10kgf (98.07N)		
Total Test Force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N)		
Indenter	Diamond Rockwell Indenter, ϕ 1.588mm Ball Indenter		
Loading Method	Manual	Automatic (Loading/Dwell/Unloading)	
Hardness Reading	Analog Dial		LCD screen
Resolution	0.5HR		0.1HR
Dwell Time	Manual control	2-60S	1-99S
Max. Height of Specimen	175mm		220
Throat	165mm		200
Power Supply	NO	AC220V, 50Hz	
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2		

Portable Rockwell Hardness Tester

R-150P / PR-150M / PR-150D



Specification:

Model	R-150P	PR-150M	PR-150D
Data Display	Analog Dial		Digital LCD screen
Initial test force	10kgf		
Main test force	60kgf, 100kgf, 150kgf		
Indenter	120° diamond Rockwell indenter, ϕ 1.588mm hard alloy ball indenter		
Indication error	Complying with ISO6508 and ASTM E18		
Repeatability error	Complying with ISO6508 and ASTM E18		

Rockwell Hardness Tester Data Transfer Software

DataPro

This software can transfer test data to PC in word format (test report), including hardness value, hardness scale, hardness chart, time, etc. Easy for long time keep test data.

EXPORT DETAILS CLEAR LIST Tester: HIDE CHART ABOUT

HR Details

NO	HARDNESS	HARDNESS TYPE
1	70.1	HRC
2	71.2	HRC
3	71.0	HRC
4	62.1	HR30TW
5	64.1	HR30TW
6	68.1	HR30TW
7	74.1	HRC
8	72.1	HRC
9	72.8	HRC

Chart

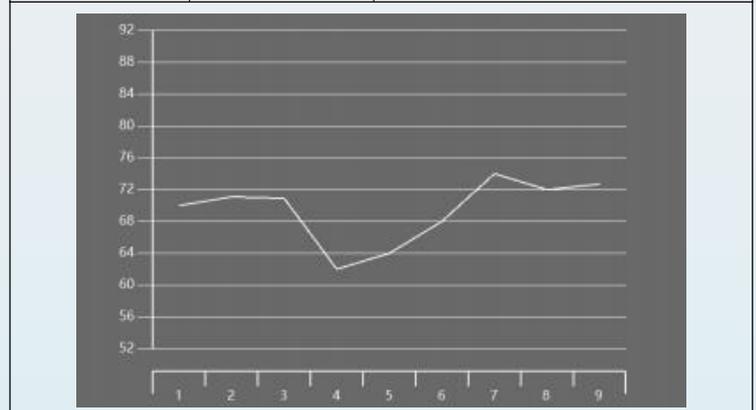
Hardness Test Report

Tester		Date	2019/09/05
Part Name		Part #	
Part Size		Test Standard	
Quality UL		Quality LL	

Test Result

#	Hardness	Hardness Type
1	70.1	HRC
2	71.2	HRC
3	71.0	HRC
4	62.1	HR30TW
5	64.1	HR30TW
6	68.1	HR30TW
7	74.1	HRC
8	72.1	HRC
9	72.8	HRC

- Generate test report in word format, easy edit. Company name, contact information, operator, test date, sample name, etc all can display on the report



Brinell Hardness Tester

B-3000E / B-3000D / B-3000MT / M-3000AT



B-3000E: after measure indentation diameter length, then check hardness table to get Brinell value

B-3000D: input the indentation diameter length to screen, machine will auto calculate and display Brinell value on screen

B-3000MT & B-3000AT: digital eyepiece with inbuilt encoder, automatic calculate indentation diameter length and display Brinell value directly

Specification:

Model	B-3000E	B-3000D	B-3000MT	B-3000AT
Turret	No		Manual	Automatic
Data read	Check hardness table	LCD screen	LCD screen	LCD screen
Dwell time	5-99S	1-60S	5-60S	5-60S
Test space	240x130mm	230x155mm	200x135mm	
Microscope	20X Brinell Indentation manual measuring microscope		20X digital eyepiece with inbuilt encoder, auto calculate	
Test Range	8-650HBW			
Test force (kgf / N)	62.5 (612.9), 100 (980.7), 125 (1226), 187.5 (1839), 250 (2452), 500 (4903), 750 (7355), 1000 (8907), 1500 (14710), 3000 (29420)			
Power supply	AC220 ±5%, 50-60Hz			
Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231			

Brinell Hardness Tester

eBRI-3000 / eBRI-3000MT



eBRI-3000: input the indentation diameter length to screen, machine will auto calculate and display Brinell value on screen

eBRI-3000MT: digital eyepiece with inbuilt encoder, automatic calculate indentation diameter length and display Brinell value directly

Specification:

Model	eBRI-3000	eBRI-3000MT
Turret	/	Manual Turret
Indentation Measurement	20X portable Brinell Indentation Microscope	20X Digital Eyepiece
Test Force	62.5kgf(612.9N), 100kgf(980.7N), 125kgf(1226N), 187.5kgf(1839N), 250kgf(2452N), 500kgf(4903N), 750kgf(7355N), 1000kgf(8907N), 1500kgf(14710N), 3000kgf(29420N)	
Hardness Scale	HBW2.5/62.5 HBW10/100 HBW2.5/187.5 HBW5/125 HBW10/250 HBW10/500 HBW5/750 HBW10/1000 HBW10/1500 HBW10/3000	
Structure	High precision close loop load cell	
Test range	8-650HBW	
Data Display	Touch Screen	
Power supply	AC220+5%,50~60Hz	
Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231	

Automatic Brinell Hardness Tester

B-3000Z / B-3000TZ / B-3000AT-5



Press one key machine will automatic rise work table - loading - dwell - unloading

Specification:

Model	B-3000Z	B-3000TZ	B-3000AT-5
Test range	8-650HBW	3.18-653HBW	3.18-653HBW
Hardness Reading	Digital LCD screen	LCD touch screen	Indentation Displaying and Automatic Measuring on Touch Screen
Turret	Auto (single indenter)	Auto (single indenter)	Auto (5 position turret)
Test space	225x130mm (HxD)	350x250mm	260x150mm
Brinell scale	HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125, HBW5/250, HBW5/750 HBW10/100, HBW10/250, HBW10/500, HBW10/1000, HBW10/1500, HBW10/3000		
Total Test Force	62.5 / 100 / 125 / 187.5 / 250 / 500 / 750 / 1000 / 1500 / 3000kgf 612.9 / 980.7 / 1226 / 1839 / 2452 / 4903 / 7355 / 9807 / 14710 / 29420N		
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBS, HBW		
Loading Method	Automatic (Loading/Dwell/Unloading)		
Standards	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2		

Low Load Brinell Hardness Tester

B-62.5M / B-62.5A / B-62.5AT



Digital eyepiece with inbuilt encoder, automatic calculate, high accuracy & easy operate.

Specification:

Model	B-62.5M	B-62.5A	B-62.5AT
Turret	Manual	Automatic	Automatic
Test range	4-650HBW	4-650HBW	3.18-653HBW
Ball Diameter	5mm, 2.5mm, 1mm		
Loading Method	Automatic (Loading/Dwell/Unloading)		
Resolution	0.1HBW		
Eyepiece	10X (with automatic digital encoder)		
Objective lens	5X (observe); 10X (measure)		5X & 10X (both can do observe & measure)
Data read	Small digital LCD screen		8" LCD touch screen
Test space	220x160mm (HxD)		180x160mm (HxD)
Machine size / N.W	560x190x700mm, 38kg		590x200x680mm, 50kg
Power	AC220V+5%, 50-60Hz		
Standard	ISO 6506-2, ASTM E10, GB/T231.2		

Hydraulic Brinell Hardness Tester

B-3000P



Standard parts come with 20X reading Microscope; With LED light, indentation image more clear and easier to measure
Greatly improved working efficiency and test accuracy



APPLICATION:

1. On-site test of steel products, nonferrous metal, castings, forgings, and semi-finished heat treatment parts.
2. Applied to too large parts for desk testers to test. Replace Leeb testers which are in low accuracy and reliability.
3. Indentation could be read by Brinell indentation measurement system and hardness values displayed directly.

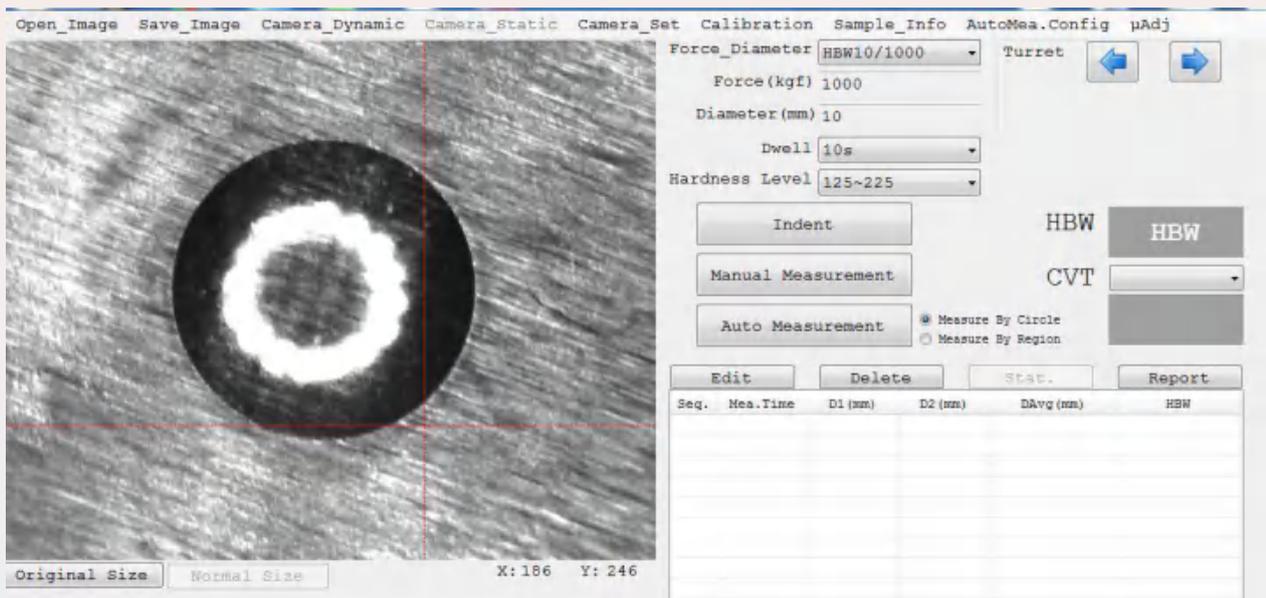
Specification:

Test Force	3000 kgf (1000 kgf, 750 kgf, 500 kgf optional)
Test Ball	10mm Carbide alloy ball (5mm optional)
Test Range	32~650 HBW
Opening Dimension	350 mm (Height) x 100 mm (Throat depth)
Indicator Error	complies with ISO 6506, and ASTM E10
Repeatability Error	complies with ISO 6506, and ASTM E10
Test Force Error	complies with ISO 6506, and ASTM E10
Weight	13.8 kg

Brinell Indentation Measuring & Analysis Software System

THBS-A

- Support Auto measurement & Manual measurement mode
- Can control machine turret and lightness
- With hardness conversion function
- Generate test report in word format with indentation image and hardness curve

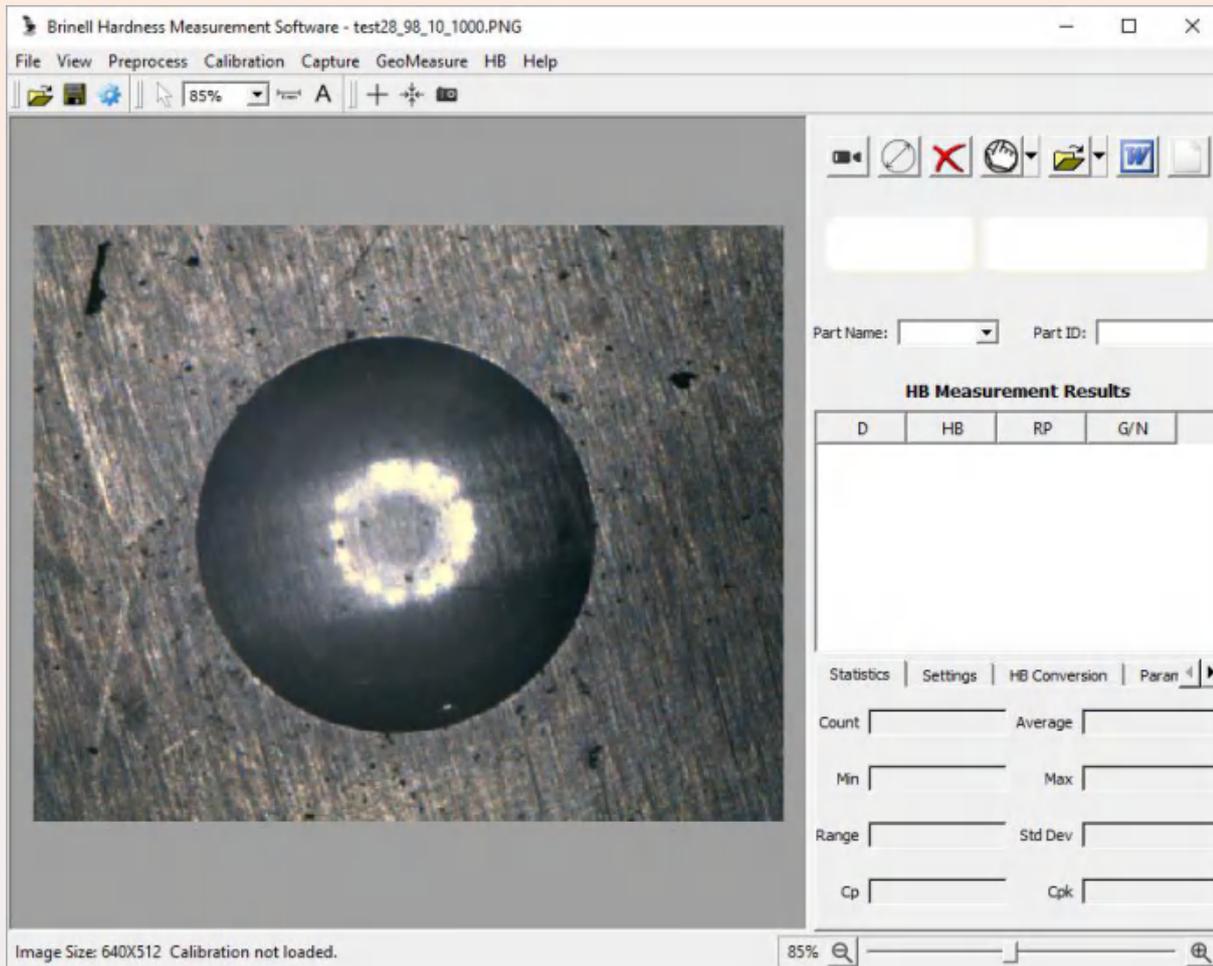


Technical specification:

Model	THBS-A
Brinell scale	HBW2.5/62.5 HBW2.5/187.5 HBW5/62.5 HBW5/125 HBW5/250 HBW5/750 HBW10/100 HBW10/250 HBW10/500 HBW10/1000 HBW10/1500 HBW10/3000
Carried standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231
Measurement range	15.9-650HBW (ASTM E10Recommended effective hardness value)
Resolution	0.0001mm
Hardness resolution	0.1HBW
Digital imaging	1300000 industrial digital camera
Measurement mode	Manual measure / automatic measure
Calibrate method	Standard test block / Optical length scale
Language	English / Chinese
Power	USB

Brinell Indentation Measuring & Analysis Software System

HBS-A



Main Functions:

- 1) Basic Functions: Includes the basic functions of imaging system, such as image capture, camera calibration, image processing, geometric measurement, document labeling, album management, and printing with specified magnifications;
- 2) Automatic measurement: Automatically or manually measures the indentation diameter and calculates the hardness HB value;
- 3) HB2 (DIN 1605 standard) automatic measurement: Automatically or manually measures the indentation diameters on the calibration sample and the test sample, and automatically interpolates the HB value of the test sample;
- 4) Conversion and validation: Converts HB to other hardness scales; Validates the test results with sample dimensions;
- 5) Statistics: Automatically updates the statistical values such as average, min and max, standard deviation, Cp and Cpk;
- 6) Auto-alarm: Automatically marks the out of spec measurements;
- 7) Test report: Automatically generates customizable WORD or EXCEL report.

Portable Brinell Hardness Indentation Auto-measurement System

THBS-P / HBS-P



Main Functions:

- 1) Basic Functions: Includes the basic functions of imaging system, such as image capture, camera calibration, image processing, geometric measurement, document labeling, album management, and printing with specified magnifications;
- 2) Automatic measurement: Automatically or manually measures the indentation diameter and calculates the hardness HB value;
- 3) HB2 (DIN 1605 standard) automatic measurement: Automatically or manually measures the indentation diameters on the calibration sample and the test sample, and automatically interpolates the HB value of the test sample;
- 4) Conversion and validation: Converts HB to other hardness scales; Validates the test results with sample dimensions;
- 5) Statistics: Automatically updates the statistical values such as average, min and max, standard deviation, Cp and Cpk;
- 6) Auto-alarm: Automatically marks the out of spec measurements;
- 7) Test report: Automatically generates customizable WORD or EXCEL report.

Technical specification:

Model	THBS-A	HBS-A
Brinell scale	HBW2.5/62.5 HBW2.5/187.5 HBW5/62.5 HBW5/125 HBW5/250 HBW5/750 HBW10/100 HBW10/250 HBW10/500 HBW10/1000 HBW10/1500 HBW10/3000	
Carried standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231	
Measurement range	15.9-650HBW	8-650HBW
Resolution	0.0001mm	
Hardness resolution	0.1HBW	
Digital imaging	1300000 industrial digital camera	
Measurement mode	Manual measure / automatic measure	
Calibrate method	Standard test block / Optical length scale	
Language	English / Chinese	
Power	USB	

Universal Hardness Tester (Brinell & Rockwell & Vickers)

BRV-187.5M / BRV-187.5E / BRV-187.5T / BRV-250T



Specification:

Model	BRV-187.5M	BRV-187.5E	BRV-187.5T	BRV-250T
Dwell time	Manual	1-99S		
Test force	30 - 187.5kgf		5 - 187.5kgf	5-250kgf
Hardness scale	HRA, HRB, HRC, HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW10/100, HBW2.5/187.5, HV30, HV60, HV100		BRV-187.5T: HBW1/5, HBW2.5/6.25, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/100, HBW5/125, HBW2.5/187.5, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV120 BRV-250T: HBW1/: 5, 10, 30kgf HBW2.5/: 6.25, 15.625, 31.25, 62.5, 187.5kgf HBW5/: 25, 62.5, 125, 250kgf; HBW10/: 100, 250kgf	
Data read	Analog Dial		Digital LCD screen	
Data Output	No		USB interface	
Magnification	Eyepiece: 15X; Objective lens: 2.5X (for Brinell), 5X (for Vickers) Total magnification: 37.5X, 75X			
Indenter	Diamond Rockwell indenter: 120° Rockwell ball indenter: 1/16", Diamond Vickers indenter: 136° Brinell ball indenter: 2.5mm, 5mm		Diamond Rockwell indenter: 120° Rockwell ball indenter: 1/16", Diamond Vickers indenter: 136° Brinell ball indenter: 1mm,	
Power supply	AC220V, 50-60Hz			

400mm Test Space Universal Hardness Tester (Brinell & Rockwell & Vickers)

BRV-187.5EH / BRV-187.5DH

- With Rockwell - Brinell - Vickers test function
- Allowed maximum height of sample is **400mm**
- BRV-187.5EH is analog display type;
BRV-187.5DH is Large LCD screen display



Specification:

Model	BRV-187.5EH	BRV-187.5DH
Dwell time	1-99S	1-60S
Data display	Analog dial	LCD screen
Test Scale	HRA, HRB, HRC, HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW10/100, HBW2.5/187.5, HV30, HV60, HV100	HRA, HRB, HRC, HRD, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW10/100, HV30, HV100
Throat depth	140mm	165mm
Test force	30 - 187.5kgf	
Magnification	Brinell: 37.5X, Vickers: 75X	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2 ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2 ISO 6507, ASTM E92, JIS Z2244, GB/T 4340.2	

Universal Hardness Testing System

BRV-187.5S / BRV-250S

- With Rockwell - Brinell - Vickers test function
- Closed loop load cell structure, no need install dead weights, easy installation & operate
- Software system support auto measurement & manual measurement, and can generate test report in word format with indentation image and hardness curve
- Machine with USB interface, test data can save to USB flash directly in Excel format



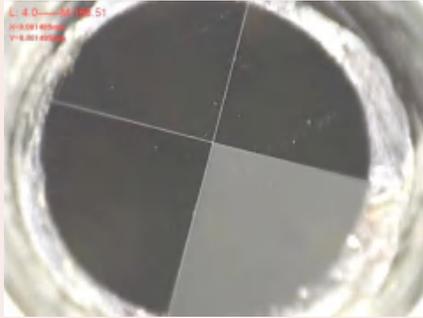
Specification:

Model	BRV-187.5S	BRV-250S
Test force	5-187.5kgf	5-250kgf
Hardness scale	HBW1/5, HBW2.5/6.25, HBW1/10, HBW2.5/15.625, HBW1/30, HBW2.5/31.25, HBW2.5/62.5, HBW10/100, HBW5/125, HBW2.5/187.5, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HV5, HV10, HV20, HV30, HV40, HV50, HV60, HV80, HV120	HBW1/: 5, 10, 30kgf HBW2.5/: 6.25, 15.625, 31.25, 62.5, 187.5kgf HBW5/: 25, 62.5, 125, 250kgf; HBW10/: 100, 250kgf HR: A, B, C, D, E, F, G, H, K, L, M, P, R, S, V HV5, HV10, HV20, HV30, HV50, HV100, HV120
Dwell time	1-99S	
Minimum measuring unit	0.1um	
Magnification	Eyepiece: 15X; Objective lens: 2.5X (for Brinell), 5X (for Vickers) Total magnification: 37.5X, 75X	
Hardness read	Touchable LCD display, USB Flash Disk	
Power supply	AC220V, 50-60Hz	

Portable Ultrasonic Hardness Tester

UCI-1

- Standard 136° Vickers Diamond Indenter
- Manual prob: 10N, 20N, 49N, 98N
- Motorized prob: 3N, 5N, 8N, 10N



Specification:

Model	UCI-1
Loading Force	20N Manual Probe (or 10N / 49N / 98N)
Indenter	136°Vickers Diamond Indenter
Measuring Range	HB: 85-650; HV 80-1599; HRC 20-70; HRB: 41-100; HRA: 61-85.6 HS: 34.2-97.3; MPa: 255-2180N/mm
Measuring Accuracy	HV:±3%HV; HRC:±1.5HRC; HB:±3%HB; HLD:±5HLD;
Measuring Direction	Support 360°
Data Storage	To save 1000-groups of measuring data and 20-groups of calibration data
Hardness Scale	HV, HB, HRC, HLD
Data Display	Loading force, Testing-times, Testing result, Average, Maximum, Minimum, Deviation and Conversion scale
Hardness Indication	LCD display
Operating Environment	Temperature:-10°C~50°C; Humidity: 30%~80%R.H
Operating Voltage	DC 6V
Instrument Dimensions	160x80x31mm
Net Weight	Approximate 500g (Without probe)

- Please optional purchase our Data Statistics Software if want to save by PC or generate test report



Portable Leeb Hardness Tester

L-1

- Hardness scales (HV, HB, HRC, HRB, HRA, HS)
- Material of “cast steel” is added HB values can be read out directly when D/DC impact device is used to measure “cast steel” workpiece.
- Can work with D, DC, D+15, G, C, DL prob



Specification:

Hardness scale	HL, HB, HRB, HRC, HRA, HV, HS
Memory	Data memory: 48~600 groups (impact times: 32~1)
Measuring range	HLD (170~960) HLD
Standard Impact Device	D
Optional Impact Devices	DC, D+15, G, C, DL
Power	2*1.5V
Continuous Working time	Approx. 100 h (without back light on)
Display LCD	128×64 matrix LCD
Operating temperature	-10℃~40℃
Humidity	≤90%
Dimensions	152×76×33mm (main unit)
Weight approx.	0.6kg (main unit)

Portable Leeb Hardness Tester

L-1S / L-2S

- L-1S: Plastic shell body
- L-2S: Metal shell body



Technical Specifications:

Model	L-1S	L-2S
Measuring range	(170-960)HLD, (17-68.5)HRC, (19-651)HB, (80-976)HV, (30-100)HS, (59-85)HRA, (13-100)HRB	
Measuring direction	360° (↓ ↙ ↘ ↗ ↖ ↕)	
Accuracy	±6HLD	
Hardness Scale	HL, HB, HRB, HRC, HRA, HV, HS	
Display	segment LCD	
Data memory	max. 100 groups (relative to impact times 32-1)	
Working voltage	3V (2 AA size alkaline battery)	
Continuous working period	about 100 hours (With backlight off)	
Communication interface	USB	
Software	Transfer test data to PC	

Portable Leeb Hardness Tester

L-4 / L-4S

- L-4: Plastic machine body
- L-4S: Metal machine body

Both model with color screen, menu structure



Technical Specifications:

Model	L-4	L-4S
Measuring range	(170-960)HLD, (17-68.5)HRC, (19-651)HB, (80-976)HV, (30-100)HS, (59-85)HRA, (13-100)HRB	
Measuring direction	360° (↓ ↙ ↘ ↗ ↖ ↕)	
Accuracy	±6HLD	
Hardness Scale	HL, HB, HRB, HRC, HRA, HV, HS	
Display	320x240 true color TFT screen	
Data memory	max. 600 groups (relative to impact times 1-32)	
Working voltage	Rechargeable li-battery	
Working Temperature	-20°C~55°C	
Communication interface	USB	
Software	Transfer test data to PC	

Portable Leeb Hardness Tester

L-3 / L-5

- L-3: Single scale display
- L-5: Dual scale display
- Both models with inbuilt printer



Specifications:

Model	L-3	L-5
Display	dot matrix LCD, 128x64 dots	240*320 TFT display (Color screen)
Memory	500 groups	600 groups
Full charge work time	200 hours	150 hours
Measuring Range	HLD (170-960), HRC (17.9-69.5), HB (19-683), HV (80-1042), HS (30.6-102.6), HRA(59.1-88), HRB (13.5-101.7)	
Impact device	D prob (optional: DC, D+15, G, C, DL)	
Impact Directions	Up, down, horizontal, slanting up, slanting down	
Measuring Materials	Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloys (brass), an alloy of copper and tin, copper (bronze), forged steel	
Standards	ASTM A956, DIN50156-1, GB/T17394-1998	
Hardness Scales	HL, HB, HRB, HRC, HRA, HV, HS.	
Tensile Strength	374 to 2652 N/m ²	
Work Voltage	9V/500mA.	
Interface Port	USB2.0	
Software	Transfer test data to PC	
Dimensions	210 x 85 x 45mm (host).	
Weight	0.6kg (host).	

Pen Type Leeb Hardness Tester

L-5S / L-5Pro / L-5Plus



Model	Keys Menu	Data Store	Probe	Testing Block	Hardness Scale	Applicable materials	Impact Direction
L-5S	X	270	D	Optional	HL, HRC	Steel and cast steel	Up, Down, Horizontal
L-5 Pro	√	270	D	Optional	HL, HV, HRA, HRC, HRB, HB, HV, HS	Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy	360°
L-5 Plus	√	270	DL	Optional	HL, HV, HRA, HRC, HRB, HB, HV, HS	Steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy	360°

Support rings for Shaped Materials: Optional Purchase



Portable Shore Durometer

SH-A / SH-C / SH-D



Specification:

Model	SH-A	SH-C	SH-D
Measuring range	0-100HA	0-100HC	0-100HD
Recommend measuring range	10-90HA	10-90HC	20-90HD
End pressure of Pressure head	Φ0.79mm	SR2.5mm	SR0.1mm
Net weight	0.13kg	0.15kg	0.16kg
Pressure needle range	2.5mm		



IRHD Hardness Testers - International Rubber Hardness Degrees

IRHD-T



International Rubber Hardness Degrees (IRHD) test method provides a highly repeatable measurement on rubber parts of various shapes and sizes. It is especially important in determining the hardness of rubber O-rings. The IRHD method employs an initial test load that is applied to the specimen via an indenter. The test is zeroed at this indentation position, then the test force is applied. The distance between the two applied forces is measured and covered to an IRHD hardness value. Preload force is 0.3N for regular scales. Total test force is 5.7N for regular scales.

Specification:

Model	IRHD-T
IRHD Type	N
Initial load	0.30±0.02N (31 ± 2g)
Main load	5.40±0.01N (551 ± 1gf)
Total Load	5.70±0.03N (581 ± 3g)
Indenter device load	8.3±01.5N (847 ± 153gf)
Indenter	round indenter Ø 2.5 mm
Test range	28 – 100 IRHD
Minimum thickness of specimen	4mm (recommend test material thickness≥6mm, allow 2 pcs of 2mm thickness specimen overlay)
Standards	DIN ISO 48, ISO 48, ASTM D 1415, GB6031, HG/2117
Power	220V 50Hz
Machine size	155x190x440mm
Package size & G/W	200x250x500mm, 20kg

IRHD Hardness Testers - International Rubber Hardness Degrees

IRHD-NHL



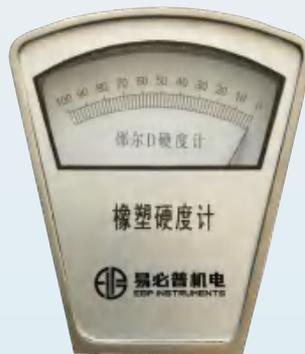
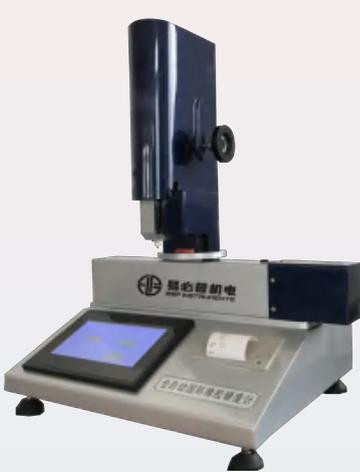
This instrument is used to measure the hardness of rubber and similar rubber materials, especially suitable for measuring the hardness of rubber rollers, hoses, cables and rubber products with curved structures. This hardness tester has simple structure, convenient operation, accurate measurement, intuitive reading, and can directly calibrate the international standard rubber hardness value (IRHD) of the sample.

Specification:

Test	Diameters mm	Force on Ball			Force on Foot N	Test Range (IRHD)
		Contact N	Indenting N	Total N		
Method N (Normal Test)	Ball: 2.5±0.01 Foot: 20±1 Hole: 6±1	0.30±0.02	5.40±0.01	5.70±0.03	8.3±1.5	30-85
Method H (high-hardness test)	Ball: 1.0±0.01 Foot: 20±1 Hole: 6±1	0.30±0.02	5.40±0.01	5.70±0.03	8.3±1.5	85-100
Method L (low-hardness test)	Ball: 5.0±0.01 Foot: 20±1 Hole: 6±1	0.30±0.02	5.40±0.01	5.70±0.03	8.3±1.5	10-35

IRHD Hardness Testers - International Rubber Hardness Degrees

Supply all kinds of IRHD Hardness testing machine



Portable Barcol Hardness Tester (Impressor)

BP-100



The typical Barcol hardness values of common aluminum alloy materials:

Aluminum Alloy	1100-0	3003-0	3003-H14	2024-0	5052-0	5062-H14	6061-T6	2024-T3
Barcol Hardness value	35	42	56	60	62	75	80	85

Specification:

Model	BP-100
Test Range	0-100HBa
Effective Range	35-90 HBa (equivalent to 25-150 HBW)
Resolution	0.5 HBa
Indication Error	2-52 HBa \pm 2 HBa 84-88 HBa \pm 1 HBa
Repeatability Error	2-52 HBa \pm 2 HBa 84-88 HBa \pm 1 HBa
Sample thickness Requirements	>0.8 mm
Weight	0.5 kg

Webster Hardness Tester

W-20A / W-20B / W-B75 / W-BB75 / W-B92



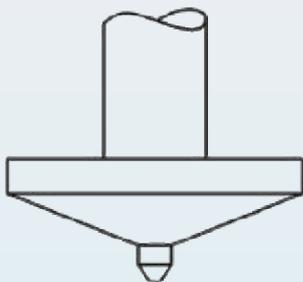
Webster hardness testers also known as Webster hardness pliers; they can be used to test the hardness value of aluminum alloy quickly at the scene of the production. They are the preferred instruments for testing the force of aluminum alloy.

Using Scope:

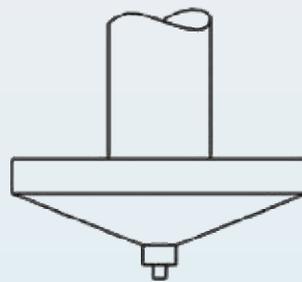
Especially suitable in production site, sales site or construction site for quickly testing on bulk products with non-destructive quality inspection piece by piece.

Besides aluminum alloy material, it is also suitable to test red copper, brass, soft copper etc.

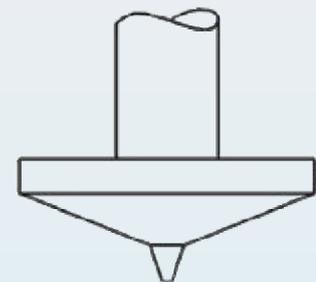
- **W-20A:** Suitable for aluminum materials with thickness $\leq 13\text{mm}$;
- **W-20B:** Suitable for aluminum tube with inner dia. $\geq 6\text{mm}$;
- **W-B75:** Suitable for brass tube, brass strip;
- **W-BB75:** Suitable for red copper tube, red copper strip;
- **W-B92:** Suitable for soft stainless steel, cold-rolled strip.



a. W-20



b. W-B75, W-BB75



c. W-B92

Indenter Shapes

Metallographic Sample Cutting Machine

CM-1



- Manual operate, for cut metal material sample
- With water cooling system, protect sample

Specifications:

Model	CM-1	
Max. Cutting section	35*35mm	50*50mm
Cutting Disc Size	250*2*32mm	Φ300×2×Φ32mm
Rotating Speed	2800r/min	
Motor	3 phase 2.2kw, 380V, 50Hz	
Machine size	395x415x360mm	500x480x410mm
Net weight	52kg	70kg
Package Size	570x470x460mm	600x530x500mm
Gross Weight	60kg	80kg

Metallographic Sample Cutting Machine

CM-300T



- Manual operate, for cut metal material sample
- Close structure + large observe window + emergency stop button = safe operation
- With water cooling system, protect sample
- Quick clamping mechanism, easy to clamp sample
- With a flush nozzle, easy to clean cutting table
- Main components such as jaw and work surface adopts stainless material, long service life

Specifications:

Maximum cutting section	Φ85mm
Cutting Disc	300 x 2 x 32mm
Speed	2800r/min
Power	2.2kW, 380V, 50Hz
Dimension	680 x 670 x 640mm
Weight	160kg

Standard Accessories:

Item	Quantity	Item	Quantity
CM-300T	1	Water inlet Φ19	1
Cooling water box	1	Drain-pipe Φ50	1
Wrench 36	1	Cutting wheel 300*2.0*32	1
Wrench 22-24	1	Cutting lubricant	2 (1000ml)
Handle 14-17	1	Horse clamp 14-27	2
Hexagonal M4	1	Horse clamp 40-63	1
Hexagonal M6	1		

Metallographic Sample Cutting Machine

CM-350



- Manual operate, for cut metal material sample
- Close structure + large observe window + emergency stop button = safe operation
- With water cooling system, protect sample
- Quick clamping mechanism, easy to clamp sample
- With a flush nozzle, easy to clean cutting table
- Main components such as jaw and work surface adopts stainless material, long service life

Specifications:

Model	CM-350
Maximum cutting section	Φ100mm
Cutting disc	350*2.5*32mm
Speed	2800/min
Power	3KW, 380V 50Hz
Dimension	800*750*1360mm
Weight	230kg

Metallographic Sample Cutting Machine

CM-3

- Support Manual & Auto operate, for cut metal material sample
- With water cooling system, protect sample
- Big cutting room and movable T-shape work table



Specifications:

Model	CM-3	
Max. Cutting Diameter	Ø5-80mm	Ø5-100mm
Cutting Volume	Ø100mm x 200mm	
Cutting Speed	2.25, 3, 4, 5, 7, 9, 12, 15mm/min	
Cutting Disc Rotating Speed	2100 rpm	
Cutting Disc Specification	350 x 2.5 x 32mm	
Display	LCD With High Resolution Backlit Dot Matrix	
Power Supply	3 Phases With Four Cables, 380V, 50Hz	
Dimensions	870 x 843 x 600mm	935 x 843 x 600mm
Net weight	210 KG	220 KG



Metallographic Sample Cutting Machine

CM-150



Specification:

Item	CM-150
Cutting wheel	150x12.7x0.43mm (6inch)
Cutting position accuracy	0.01mm
Cooling device	Automatic cycle cooling of cutting fluid (the cutting wheel drives the circulation of the water in the tank to cool down)
Brushless DC motor	Power: 200W speed: 0-1500r/min
Display	LED display
Emergency brake	Emergency stop switch
Power supply	AC220V 50HZ
Size	520 x 430 x 390 mm
Weight	33kg

Metallographic Sample Cutting Machine

CM-200XP



Specification:

Model	CM-200XP
Cutting wheel	φ200xφ32x0.9mm
Speed	500-5000r/min
Feeding speed	0.01-3mm/s
Manual feeding speed	0-15mm/s
Reverse speed	0-15mm/s
Impact cutting distance	0.1-2mm
Cutting stroke (Y axle)	200mm
Max cutting diameter	φ60mm
Max length of clamping table	150mm
Max width of clamping table	200mm
Motor	1.1kw
Data	Can save 12 different kinds
Power	AC220V 50HZ
Dimension / Weight	750×860×430mm; 126kg

Metallographic Sample Cutting Machine

CM-350Y / CM-400Y



- Floor Standing type
 - Sturdy Construction
 - Observe window allow for easy observation during use
 - With lighting system, bright independently controlled
 - Equipped water cooling system
 - Electronic brake system, with emergency stop button
 - T slot beds and sliding vises structure work table
 - Easy operate: 6 pieces Durable push buttons
- Power / Lighting / Water pump / start cutting / stop cutting
- / Emergency stop button

Specification:

Model	CM-350Y	CM-400Y
Max cutting area	Φ100mm	Φ120mm
Cutting wheel size	Φ350x2.5xΦ32mm	Φ400x3xΦ32mm
Motor	3KW, 380V, 50HZ	4KW, 380V, 50HZ
speed	2800r/min	
Emergency brake	Emergency stop switch	
Cutting room light	Low voltage dc lighting	
Cutting platform size	240x232mm	
Clamp device	Standard fast fixture (2 pcs)	
Cooling device	External circulating filter water tank 40L, 4 pieces of adjustable water spraying device and cleaning nozzle	
Cutting mode	Manually move the cut disc in the Y direction	
Viewing window	Explosion-proof transparent engineering plastics	
Dimension / Weight	768x780x1285mm; 250kg	

Metallographic Sample Cutting Machine

CM-350YAT

- Touch screen programmable control
- Support Manual work or Automatic work (automatic feed and return)
- Quick clamping mechanism, easy to load sample
- Observe window allow for easy observation during work
- With lighting system, bright independently controlled
- Equipped water cooling system
- With emergency stop button, safe operate

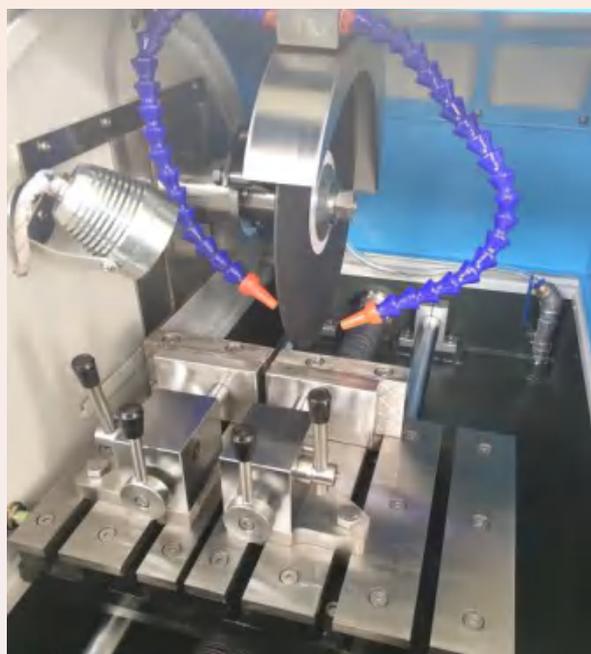


Specification:

Model	CM-350YAT
Cutting wheel	Standard $\phi 350 * \phi 32 * 2.5$
Speed of mainshaft	2800r/min
Feed speed	0.01-3mm/s adjustable
Cutting stroke	220mm
Theoretical maximum	$\phi 100$ mm round bar
Maximum clamping	128mm
Working table size	333mm*240mm
Cutting clamp	Fast push and pull type, height of jaw is 60mm
Key control	LCD touch screen, button
Light	Single LED
Cooling device	Four channels of cooling water and a cooling nozzle
Circulating water tank	External circulating filter tank 40L (Optional magnetic filter water tank)
Motor	Power: 4KW
Emergency brake	emergency stop switch
Power supply	AC380V 50HZ
Dimension	960*890*725mm, distance from the center of the footing 830*710mm
Net Weight	200KG
Packing size & G/W	1100*1050*960mm 280kg; 730*470*750mm 57KG

Metallographic Sample Cutting Machine

CM-65



Specification:

Model	CM-65
Operation Mode	Manual / Automatic, free to choose.
Feeding Speed	3mm/min, 5mm/min, 8mm/min (users may modify the set speed according to requirement)
Y axis Maximum Travel Distance	235mm
Z axis Maximum Travel Distance	35mm (cut style)
Maximum Cutting Diameter	Φ65mm
Cutting Disc Size	Φ300×2×Φ32mm
Capacity of the Cooling Water Tank	60L
Motor	2.2kw
Rotating Speed	500-3000r/min
Power Supply	Three-phase Five-wire 380V, 50Hz
Dimensions	800×760×1370mm
Weight	280kg

Metallographic Sample Cutting Machine

CM-350XP



Specification:

Model	CM-350XP
Cutting piece	φ350x32x2.5mm
Spindle speed	500-3000r/min
Feed rate	0.01-3mm/s
Cutting route (Y axis)	200mm
Cutting route (X axis)	45mm
Cutting method	Manual / Automatic
Maximum cutting capacity	Φ100mm round rod or With special fixture the largest can be cut: 200 x 240 x 80mm (L x W x H) rectangular
Maximum length can clamp	120mm
Working table size	282mm*240mm
Cutting fixture	Quick push-pull group, jaw height 60mm
Button control	LCD touch screen, buttons
Lighting	Dual LED lamp
Cooling system	Four cooling water and a cooling water gun
Magnetic filter circulating water tank	80L
servo motor	Power: 4KW
Emergency braking device	Emergency stop switch
power supply:	AC380V 50HZ
Outline dimension	1050*800*1471mm
weight	300KG

Metallographic Sample Cutting Machine

CM-4



Specification:

Model	CM-4		
Control Mode	Manual / Automatic, three axis linkage, 10 inch touch screen control, Can be switched to the operating handle wheel		
Feature	Automatic drain system, alarm system, double LED lighting, red laser positioning		
Feeding Speed	3mm/min, 5mm/min, 8mm/min, 12mm/min (users may modify the set speed according to requirement)		
Cutting Disc Size	Φ380×2.8×Φ32 mm	Φ400×3×Φ32 mm	Φ400×3×Φ32 mm
Work Table Dimension (X*Y)	450×350 mm	485×400 mm	530×630 mm
Y axis Maximum Travel Distance	250 mm	300 mm	420 mm
X axis Maximum Travel Distance	100 mm	100 mm	110 mm
Z axis Maximum Travel Distance	200 mm	230 mm	230 mm
Max. Cutting Section	120×120 mm	200×150 mm	300×150 mm
Fixture Caliber	120 mm	200mm	300 mm
Frequency Conversion Motor	5.5kw, Rotating speed: 500-2800 r/min	7.5kw, Rotating speed: 500-2800 r/min	7.5kw, Rotating speed: 500-2800 r/min
Feeding Motor	Servo motor	Servo motor	Servo motor
Volume of the Water Tank	120L	120L	120L
Dimensions	1450×1000×1850mm	1550×1100×1900mm	1650×1350×1900mm
Weight	1800kg	2200kg	2500kg

Metallographic Sample Mounting Press Machine**MP-1**

MP-1 metallographic sample mounting press is designed for mounting small or irregular shape and those difficult to hold samples, which is former procedure of grinding and polishing. The inlaying operation serves to facilitate the grinding and polishing operations of the specimens and the routine observation of the composition of the material under the metallographic microscope.

Working environment:

The relative humidity of air should be no more than 85% (20 °C).

The voltage fluctuation should be no more than 15%.

There should be no obvious vibration source around.

There should be no current conducting dust, explosive and corrosive air.

Specification:

Mold Diameters	φ30mm (φ22mm/φ40mm/φ45mm optional)
Heater power	φ22mm / φ30mm: 450W φ40mm / φ45mm: 650W
Mounting Temperature	0-200°C can be adjustment
Display	Setting value & Real value
Mounting time range	0-30min
Cooling type	Natural cooling in air
Load pressure type	By manual load
Power	AC220V 50HZ
Machine size	310*300*400mm
Machine Net weight	34kg
Package size	400*400*560mm
Gross weight	40kg

Automatic Metallographic Sample Mounting Press Machine (Motor control)

MP-2000

- Touch screen programmable control
- Support Manual work or Automatic work
- USB port can import or export heating program
- With water cooling system



Specification:

Model	MP-2000
Mold diameter	Standard Ø30mm (option:Ø22mm, Ø45mm)
Mosaic programming	Programmable database, can store 99 sets of Mosaic methods
Heater	560W
Mosaic temperature range	0 - 200°C adjustable
Mosaic time range	0 - 30min
Pressure Loading	Automatic loading pressure (by motor)
Cooling	Automatic water cooling
Mounting program	Can edit and save 99 segments mounting program
Communication port	USB
Operation and display mode	8 inch touch screen
Working mode	Automatic / manual
Power:	1000W
Power supply	AC220V 50HZ
Dimension	630 x 520 x 480mm
Weight	120Kg

Automatic Metallographic Sample Mounting Press Machine

MP-3000

- Touch screen programmable control
- Support Manual work or Automatic work
- USB port can import or export heating program
- With water cooling system



- 1) Different as traditional keypad type machine, MP-3000 everything you need is right on the front touch screen panel, easy to use; New employees can be trained quickly and efficiently (10-30 minutes can get all the operate skills);
- 2) Heat - cooling Program manual save function, next time can load and use directly, avoid mistake and greatly improved working efficiency.
- 3) Automatic water cooling system protecting the quality of your samples; Automatic design to avoid forget running water flow in and damage machine / sample.

Simplicity Eliminates Errors

- 4) See What You Need at a Glance

The top status bar and countdown timers give quick visual indications of the status of the press; Set temperature, real temperature, Press time, countdown time, Pressure etc all can displayed directly.

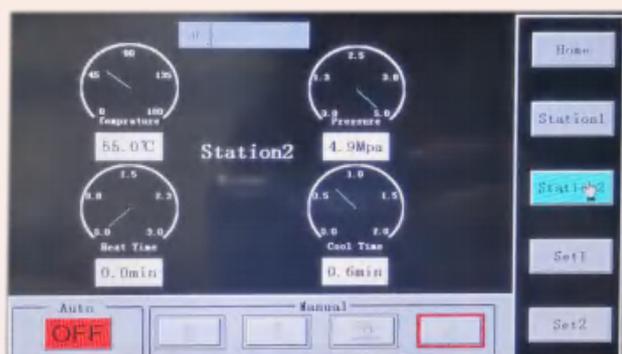
Specification:

Mold diameter	Standard Ø30mm (option:Ø25mm, Ø40mm, Ø50mm)
Mosaic programming	Programmable database, can store 99 sets of Mosaic methods
Maximum mounting sample quantity each time	2 pieces
Heater	2000W
Mosaic temperature range	0 - 200°C adjustable
Mosaic time range	0 - 30min
Pressure range	0-6Mp adjustable
Total mounting time	6 minutes (Ø30mm); 8 minutes (Ø50mm)
Pressure mode	Automatic (Electro-hydraulic system)
Cooling	Automatic water cooling
Operation and display mode	7 inch touch screen
Working mode	Automatic/manual
Power	2200W
Power supply	AC220V 50HZ
Dimension / weight	630 x 520 x 480mm; 120kg

Automatic Metallographic Sample Mounting Press Machine

MP-4000

- Two independent working position, support manual / Auto work mode
- USB port can import or export heating program
- With water cooling system



Specification:

Model	MP-4000
Work position (mold)	2
Maximum mounting sample quantity each time	4 pieces
Mold diameter	Standard Ø25, Ø30mm, Ø40mm, Ø50mm (select two)
Mosaic programming	Programmable database, can store 99 sets of Mosaic methods
Heater	4KW
Mosaic temperature range	0 - 200°C adjustable
Mosaic time range	0 - 30min
Pressure	0-6MPa adjustable
Pressure Loading	Automatic loading pressure (by motor)
Total mounting time	6 minutes (Ø30mm); 8 minutes (Ø50mm)
Cooling	Automatic water cooling
Mounting program	Can edit and save 99 segments mounting program
Communication port	USB
Operation and display mode	7 inch touch screen
Working mode	Automatic / manual
Power	4200W

Metallographic Sample Mounting Press Machine (Vacuum Mounting)

MP-3000V



Easy to operate:

- Place the sample mold in a vacuum container
- After the inlaid compound is mixed, put the stirring cup into the cup holder to put the vacuum container on the base
- Pour the inlaid compound into the mold, pour and hold for one minute, then turn to atmospheric pressure
- Repeat this cycle several times to open the cavity and allow it to solidify normally.

Specification:

Item	Specification	Remark
Mould size	φ30mm silicon mould	Optional 40, 50mm
Vacuum pump	Max vacuum degree: -0.1Mpa Pumping rate: 7.2 m ³ /h	
Input voltage and power	Single phase 220V, 50/60Hz 370w	
Dimension	Vacuum container: 300 x 300 x 300 mm Vacuum pump: 340 x 130 x 270 mm (L x W x H)	
Maximum Quantity of samples	> 10 pieces	φ30mm
Weight	Vacuum container: 1.15kg Vacuum pump: 11.5kg	

Standard accessories:

Item	Quantity	Item	Quantity
Vacuum pump (with vacuum meter)	1	100ml measuring glass	1
Vacuum container	1	CM4 cold mounting resin Resin 200ML + curing agent60ml	1
Connecting pipe	1	Manual	1
Mould (φ30mm silicon mould)	3	certificate	1

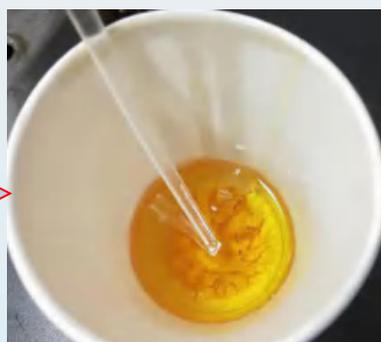
Metallographic Sample Mounting Press Machine (Cold Mounting)

MP-3000P



Specification:

Model	MP-3000P
Mounting type	Cold mounting
Mounting method	Mounting by pressure
Working pressure	0.2MPa
Safe pressure	0.22MPa
Max. air source pressure	0.6mbar
Inside work volume	5L
Dimension	300×400×300mm
Weight	8Kg



Metallographic Sample Grinding Polishing Machine

GP-1S

- Single plate, stepless speed 100-1000r/min & support set 2 step fixed speed between 100-1000r/min
- Support clockwise & anticlockwise direction rotate
- With water cooling system
- Can do rough grinding, fine grinding, rough polishing and fine polishing



Specification:

Model	GP-1S
Disc diameter	Standard ϕ 230mm (optional ϕ 200mm)
Stepless Speed + Two constant speed	100-1000r/min(can be customized) V1=300r/min V2=600r/min (operator can change it by needs)
Rotate direction	Support clockwise & anticlockwise direction rotate
Speed display	LED display
Motor	0.75kw
Power	AC220V 50HZ (120V 60Hz for optional)
Dimension	630x360x340mm
Weight	37kg

Standard Accessories:

Item	Quantity	Item	Quantity
Pressing ring	1 piece	Water outlet pipe	1 piece
Sandpaper	10 pieces	Manual	1 piece
Polishing cloth	1 piece	Certificate	1 piece
Water inlet pipe	1 piece		

Metallographic Sample Grinding Polishing Machine

GP-2S



- Double plates, stepless speed 100-1000r/min & support set 4 constant speed between 100-1000r/min
- Support clockwise & anticlockwise direction rotate
- With water cooling system
- Can do rough grinding, fine grinding, rough polishing and fine polishing

Specification:

Model	GP-2S
Disc diameter	Standard ϕ 230mm (optional ϕ 203mm)
Stepless Speed + Four constant speed	100-1000r/min(can be customized) V1=150r/min, V2=300r/min, V3=600r/min, V4=800r/min (operator can change it by needs at range 100-1000r/min)
Rotate direction	Support clockwise & anticlockwise direction rotate
Speed display	LED display
Motor	0.75kw
Power	AC220V 50HZ (120V 60Hz for optional)
Dimension / Weight	670x710x340mm; 46kg

Standard Accessories:

Item	Quantity	Item	Quantity
Pressing ring ϕ 230	1 piece	Water outlet pipe ϕ 32	1 piece
Sandpaper 230mm	8 pieces	Rubber washer with strainer	1 piece
Polishing cloth	2 piece	Raw strip	1 roll
Water inlet pipe ϕ 8	1 piece	Hose clamp 21-44	1 piece
Quick-connect coupling SNZ08-04	1 piece	Triangle valve 4	1 piece
Manual	1 piece	Certificate	1 piece

Metallographic Sample Grinding Polishing Machine

GP-1YB



- Single plate, Stepless speed: 50-1000 r/min
- Rotating wheel size ϕ 230mm
- With water cooling system
- Can do rough grinding, fine grinding, rough polishing and fine polishing

In the metallographic sample preparation, pre-grinding, polishing and grinding are the indispensable procedures. This machine can do coarse grinding, fine grinding, dry grinding, wet grinding, etc. In order to expand preparation demands of different samples, the size of the disc is larger than the same products in the market. There are more choices of different linear velocity on the working range, can increase 20-30% of effective working range, can improve the grinding and polishing quality of samples. This machine rotates steadily with low noise, and therefore it is the ideal equipment for metallographic sample preparation.

Specification:

Grinding Polishing Disc Diameter	ϕ 230mm
Rotate Speed	50-1000r/min (50-1500r/min for optional)
Machine Size (L*W*H)	440x790x310mm
Net Weight	29 KG
Power Supply	220V, 50Hz

Metallographic Sample Grinding Polishing Machine

GP-2

- Two constant speed: 500 / 1000 r/min
- Double plates with single controller
- With water cooling system
- Can do rough grinding, fine grinding, rough polishing and fine polishing



In the metallographic sample preparation, pre-grinding, polishing and grinding are the indispensable procedures. This machine can do coarse grinding, fine grinding, dry grinding, wet grinding, etc. In order to expand preparation demands of different samples, the size of the disc is larger than the same products in the market. There are more choices of different linear velocity on the working range, can increase 20-30% of effective working range, can improve the grinding and polishing quality of samples. This machine rotates steadily with low noise, and therefore it is the ideal equipment for metallographic sample preparation.

Specification:

Grinding Disc Diameter	φ230mm
Polishing Disc Diameter	φ230mm
Rotate Speed	500r/min, 1000r/min
Machine Size (L*W*H)	720×780×370mm
Net Weight	46 KG
Power Supply	380V 50Hz (220V, 50Hz for optional)

Metallographic Sample Grinding Polishing Machine

GP-1X

- PIC control, operation on touch screen, easy operate
- Support Auto work mode & Manual work mode

Manual mode: Four-level constant speed mode:

300/500/600/800r/min

Automatic mode: Eight sections programmable control

- With water cooling system
- Support Clockwise - Anticlockwise rotate direction
- Emergency stop button, safe operate



Specification:

Model	GP-1X
Working disc diameter	Standard $\phi 250\text{mm}$ (option: $\phi 203\text{mm}$, $\phi 230\text{mm}$)
Speed	Stepless: 100-1000r/min Constant speed: 300r/min, 500r/min, 600r/min, 800r/min (Constant speed can be set by clients based on the needs at anytime)
Rotate direction	Clockwise - Anticlockwise
Speed display	Touch screen
Working mode	Manual
Power supply	AC220V, 50/60Hz, 0.75KW
Dimension	670 x 710 x 340mm; 35kg

Standard accessories:

Item	Quantity	Item	Quantity
Pressing ring $\phi 250$	1 piece	Water outlet pipe $\phi 32$	1 piece
Abrasive paper	8 pieces	Rubber washer with strainer	1 piece
Polishing cloth	2 piece	Raw strip	1 roll
Water inlet pipe $\phi 8$ $\phi 32$	1 piece	Hose clamp 21-44	1 piece
Quick-connect coupling SNZ08-04	1 piece	Triangle valve 4	1 piece
Manual	1 piece	Certificate	1 piece

Metallographic Sample Grinding Polishing Machine

GP-2X



- Double work positions (Grinding - Polishing)
- PIC control, operation on touch screen, easy operate
- Support Auto work mode & Manual work mode
- With water cooling system
- Support Clockwise - Anticlockwise rotate direction
- Easily replace magnetic anti-sticking dish, easy replace abrasive paper and polishing cloth
- Emergency stop button, safe operate

Specification:

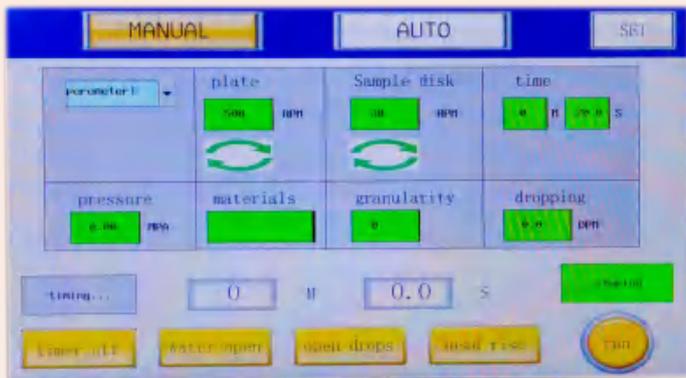
Model	GP-2X
Working disc diameter	Standard $\phi 250\text{mm}$ (option: $\phi 203\text{mm}$, $\phi 230\text{mm}$)
Speed	Stepless: 100-1000r/min Constant speed: 300r/min, 500r/min, 600r/min, 800r/min (Constant speed can be set by clients based on the needs at anytime)
Rotate direction	Clockwise - Anticlockwise
Speed display	Touch screen
Working mode	Manual
Power supply	AC220V, 50/60Hz, 0.75KW
Dimension	670 x 710 x 340mm; 50kg

Standard accessory:

Item	Quantity	Item	Quantity
Magnetic working disc	2	Polishing cloth	2
Abrasive paper	8 pcs	Water outlet pipe $\phi 32$	1 piece
Pressing ring	2 pieces	Rubber washer with strainer	1 piece
Raw strip	1 roll	Hose clamp 21-44	1 piece
Water inlet pipe $\phi 8$	1 piece	Triangle valve 4	1 piece
Quick-connect coupling SNZ08-04	1 piece	Certificate	1 piece
Manual	1 piece		

Automatic Metallographic Sample Grinding Polishing Machine

GP-1000



Specification:

Item	Specification
Working disc diameter	φ254mm (option:φ230mm, φ203mm) With magnetic disk system
Sample quantity	Standard 6 pieces of φ30 (or φ40 / φ50 three hole)
Grinding disc speed	100-1000 r/min; Support clockwise & anticlockwise rotate
Three level constant speed	V1=300r/min V2=500r/min V3=800r/min; can set by needs at anytime
Grinding head speed	30-200r/min
Sample holder	Standard φ30mm 6 pieces (Option: φ40-φ50mm 3 pieces, other size can be customized)
Automatic mode	Can be programmed eight speed, running time and grinding wheel steering switch
Working air source pressure range	≥0.8MPa
Sample pressure range	Suggestion:0.3-0.4MPa (recommend pressure >0.3MPa)
Power supply	AC220V, 50/60Hz
Motor power	0.75Kw
Dimension / Weight	700 x 730 x 350mm; 74kg

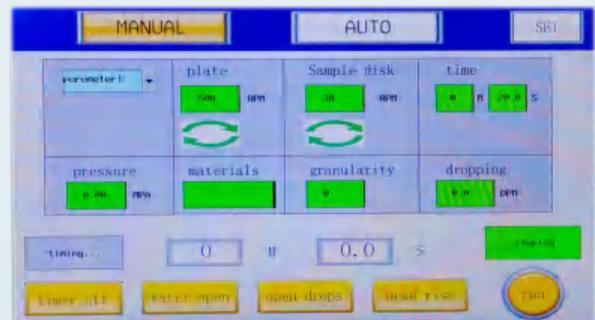
Automatic Metallographic Sample Grinding Polishing Machine

GP-2000A



- Double work positions (Grinding - Polishing)
- Automatic grinding head, 6 hole sample holder
- PIC control, operation on touch screen, easy operate
- Support Auto work mode & Manual work mode
- With water cooling system
- Support Clockwise - Anticlockwise rotate direction
- Easily replace magnetic anti-sticking dish, easy replace abrasive paper and polishing cloth
- Emergency stop button, safe operate

Item	Specification
Working disc	Standard $\phi 250\text{mm}$ with magnetic disc; (option: $\phi 230\text{mm}$, $\phi 203\text{mm}$)
Speed of working disc	100-1000 r/min; Support clockwise / anticlockwise direction rotating
Three level constant speeds	V1=300r/min, V2=500r/min, V3=800r/min
Grinding head speed	30-200r/min
Sample holder	Standard $\phi 30\text{mm}$ 6 pcs of samples (option: $\phi 40\text{-}\phi 50\text{mm}$ 3 pcs of samples, other size can be customized)
Automatic mode	Can be programmed eight speed, running time and grinding wheel steering switch
Working air source pressure range	Not less 0.8MPa
Samples pressure range	0.3-0.4MPa (not less than 0.3MPa)
Power supply	AC220V, 50/60Hz
Motor power	0.75Kw
Dimension / Weight	700 x 730 x 350mm; 120kg



Automatic Grinding Polishing Liquid Dropper

GPD-4A



Main features:

- Four channels are set separately and work at the same time
- With the polishing machine, according to the grinding parameters set by the polishing machine to drop
- Three working modes:
Manual; Linking; Fully automatic
- Each mode can be set independently: drop speed, drop time
- Automatically clean the dropper
- Larger or smaller droplet speed can be customized
- It can be easily expanded into 6 channels or 8 channels

Technical specification:

Model	GPD-4A
Intrusion rate	approx. 6 drops/min -280 drops/min
Maximum flow	18 ml/min
Speed adjustment	stepless speed regulation, from 6 drops/min to 280 drops/min
Power source	AC 220V, 10W

Automatic Grinding Polishing Liquid Dropper

DYQ-1



- Set the drip speed
- Set the drip time
- Match polishing machine, automatic drop liquid
- Automatic cleaning dropper
- Automatic input liquid

Product Feature:

DYQ-1 Automatic Polishing Liquid Drops available in a variety of grinding, polishing machine, automatic polishing liquid drops to the grinding disc. Use advanced micro-controller, has compact structure, reliable operation, strong anti-jamming capability, etc.

Main Technical Specification:

Drop speed: about 6 drops/minute - 280 drops/minute

Max flow: 18 ml/minute

Speed: ten grades, adjustable

Power: 220V

Accessory:

Power cord 1	Switch control cord 1
dropping pipette 1	USB flash disk (Instruction in it) 1
Production certificate 1	Packing list 1

Abrasive Belt Grinding Polishing Machine

BGP-3

- Easy to operate, use weak current, safe and convenient.
- Fully enclosed shell, easy to clean, motor isolation to prevent erosion by water and debris.
- There is a cooling device, which can prevent dust from harming the human body and workpiece burns during use.
- Stable operation, automatic correction of the belt, not easy to run away.



Technical specification:

Model	BGP-3
Roller center distance	310mm
Abrasive / Sand belt	Circumference: 920mm; Width: 100mm; Standard: 60#
Abrasive belt surface Grinding speed	790m/min
Motor	Power: 550W, Speed: 1400r/min
Cooling type	Tap-water cooling
Size	690x520x355mm
Weight	49kg

Accessory:

Item	Qty	Item	Qty
Sand Belt 60#, 80#, 100#	Each 1 pc	wrench	14-17#
Inlet pipe	1pc	Manual Book	1pc
Outlet pipe	1pc	Quality Certificate	1pc

Inverted Binocular Metallographic Microscope

E-100



- Binocular Inverted Metallurgical Microscope
- Magnification: 100X - 1250X
- With THREE hole turret

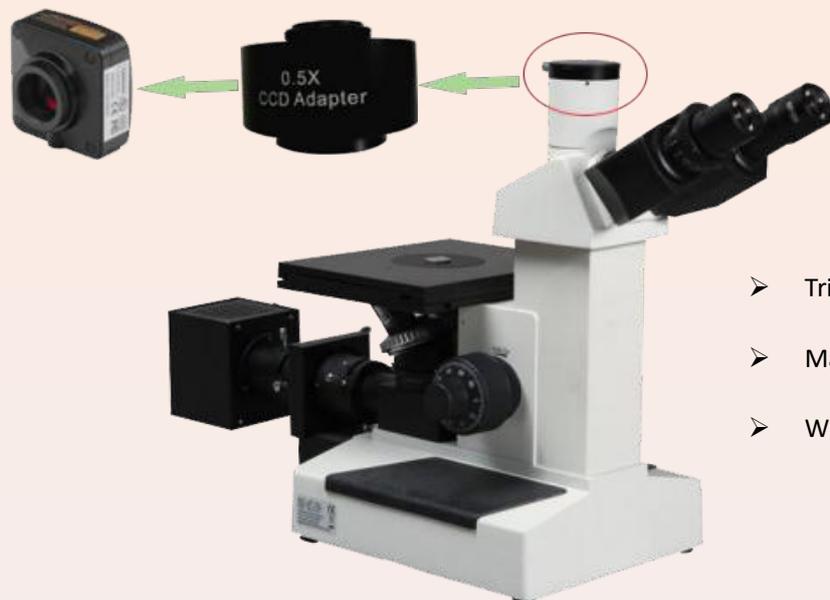
Specification:

Eyepiece and Support surface: Inclined 45° , Comfortable observation

Head	Hinge type 45 degree inclined binocular
Nosepiece / Turret	Three hole
Eyepiece	10X (Field of view diameter 18mm): 2 pcs 12.5X (Field of view diameter 15mm): 2 pcs
Objective lens	10X, 40X, 100X (oil)
Focus	Fine and coarse coaxial, with lock function, fine precision: 2um (0.002mm)
Stage	Size: 200*180mm, moving range: 70*50mm Ø10 & Ø20 metal stage
Illumination	Pupil distance: 55-75mm 6V20W halogen bulb, brightness is adjustment With aperture diaphragm and centering field diaphragm
Filter	Blue, green, yellow
Mechanical tube length	160mm
Dimension & N.W	180*250*330mm, 5.8kg
Package size & G.W	430*350*530mm, 7kg

Inverted Trinocular Metallographic Microscope

E-200A



- Trinocular Inverted Metallurgical Microscope
- Magnification: 100X - 1000X
- With FOUR hole turret

Specification:

Model	E-200A
Eyepiece	WF10X/Ø18mm plan eyepiece
Objective	10X/0.25, 20X/0.40, 40X/0.60, 100X/0.9 (oil) achromatic objective
Total magnification	100X, 200X, 400X, 1000X (oil)
Nosepiece / Turret	Four hole (inward ball positioning)
Focus	Fine and coarse coaxial, with lock function, fine precision: 2µm
Stage	Size: 200*152mm, moving range: 15*15mm Ø12 / Ø12metal stage
Illumination	Pupil distance: 53-75mm 6V20W halogen bulb, brightness is adjustment With aperture diaphragm and centering field diaphragm
Filter	Blue, green, yellow
Dimension & N.W	195x309x345mm, 10kg
Packing size & G.W	400x290x450mm; 11kg

Inverted Trinocular Metallographic Microscope

E-200

- Trinocular Inverted Metallurgical Microscope
- Magnification: 50X - 500X (1000X for optional)
- With FOUR hole turret (Five Hole turret for optional)



Specification:

Eyepiece	PL10X/18mm plan eyepiece
Objective	LWD professional plan objective: 5X, 10X, 20X, 50X (100X for optional purchase)
Head	Gemel trinocular head, 45 degree inclined, with 8:2 prismatic Interpupillary distance: 55-75mm
Nosepiece	Build-in quadruple nosepiece / 4 holes (Build-in quintuple nosepiece / 5 holes)
Focus	Fine and coarse coaxial, moving range: 33mm, fine precision: 0.001mm
Stage	Size: 180*155mm, moving range: 75*40mm Ø12 metal stage (Ø25 metal stage for optional purchase)
Illumination	Reflected Kohler illuminator with iris aperture diaphragm and centering field diaphragm. 100-240VAC power supply with 3W LED bulb (6V30W halogen bulb for optional); Brightness is adjustment
Polarizing set	Analyser can be rotatable and both polarizer and analyser can be move light path
Filter	Blue, green, yellow
Operation Environment	<ul style="list-style-type: none"> ● Indoor ● Altitude: 2000m Max. ● Temperature: 5°C-40°C (41°F-104°F) ● Humidity: 80% for 31°C (88°F); 70% for 34°C (93°F) 60% for 37°C (99°F); 50% for 40°C (104°F) ● Pollution: 2 (Refer to IEC664)

Inverted Trinocular Metallographic Microscope

E-500



- Trinocular Inverted Metallurgical Microscope
- Bright Field Objective Lens, Magnification: 100X - 1000X
- With FIVE hole turret (Five Hole turret for optional)

Specification:

<p>Eyeiece</p>	<p>10X wide field plan eyepiece and field of view number is $\Phi 22\text{mm}$, the eyepiece interface is $\Phi 30\text{mm}$</p>
<p>Bright Field Objective</p>	<p>PL L10X/0.25 working distance: 20.2 mm PL L20X/0.40 working distance: 8.80 mm PL L50X/0.70 working distance: 3.68 mm PL L100X/0.85 (dry) working distance: 0.40 mm</p>
<p>Nosepiece</p>	<p>Quintuple / Five hole (Backward ball bearing inner locating) 5X Objective lens for optional purchase</p>
<p>Eyeiece tube</p>	<p>Hinged binocular tube, with an observation angle of 45°, and a pupil distance of 53-75mm</p>
<p>Focusing system</p>	<p>Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine focusing is $2\mu\text{m}$</p>
<p>Stage</p>	<p>Mechanical stage overall size: 242mmX200mm and moving range : 30mmX30mm. Rotundity and rotatable stage size: maximal measurement is $\Phi 130\text{mm}$ and minimal clear aperture is less $\Phi 12\text{mm}$</p>
<p>Illumination</p>	<p>6V 30W halogen and brightness enable control. Integrated field diaphragm, aperture diaphragm and puller type polarizer. Equipped with frosted glass and filters</p>
<p>Polarizing set</p>	<p>Analyser can be rotatable and both polarizer and analyser can be move light path</p>
<p>Filter</p>	<p>Blue, green, yellow</p>

Inverted Trinocular Metallographic Microscope

E-600



- Trinocular Inverted Metallurgical Microscope
- Dark & Bright Field Objective Lens, 50X - 500X, 1000X for optional
- With FIVE hole turret (Five Hole turret for optional)

Specification:

<p>Eyepiece</p>	<p>10X wide field plan eyepiece and field of view number is $\Phi 22\text{mm}$, the eyepiece interface is $\Phi 30\text{mm}$</p>
<p>Dark & bright field objective</p>	<p>PL L5X/0.12 working distance: 9.70 mm PL L10X/0.25 working distance: 9.30 mm PL L20X/0.40 working distance: 7.23 mm PL L50X/0.70 working distance: 2.5 mm PL L100X/0.85 (dry) for optional purchase</p>
<p>Eyepiece tube</p>	<p>Hinged binocular tube, with an observation angle of 45°, and a pupil distance of 53-75mm</p>
<p>Focusing system</p>	<p>Coaxial coarse/fine focus, with tension adjustable and up stop minimum division of fine focusing is $2\mu\text{m}$</p>
<p>Nosepiece</p>	<p>Quintuple / Five hole (Backward ball bearing inner locating)</p>
<p>Stage</p>	<p>Mechanical stage overall size: 242mmX200mm and moving range : 30mmX30mm. Rotundity and rotatable stage size: maximal measurement is $\Phi 130\text{mm}$ and minimal clear aperture is less</p>
<p>Illumination</p>	<p>12V 50W halogen and brightness enable control. Integrated field diaphragm, aperture diaphragm and puller type polarizer. Equipped with frosted glass and filters</p>
<p>Polarizing set</p>	<p>Analyser can be rotatable and both polarizer and analyser can be move light path</p>
<p>Filter</p>	<p>Blue, green, yellow</p>

Inverted Trinocular Metallographic Microscope

E-800

- Trinocular Inverted Metallurgical Microscope
- Bright Field Objective Lens, Magnification: 100X - 1000X
- With FIVE hole turret (Five Hole turret for optional)



Specification:

Optical system	Infinity color corrected optical system
Viewing head	Gemel trinocular head 45° inclined, Interpupillary distance adjustable between: 54-75mm, diopter adjustment ±5, refract rate: binocular 100%, binocular: trinocular = 80% : 20%
Eyepiece	High eyepoint wide field plan eyepiece PL10X / 22mm
Objective	Infinity LWD plan achromatic metallurgical objective: LMPL5X /0.15 / WD10.8 ; LMPL10X/0.3 / WD10 LMPL20X/0.45 / WD4 ; LMPL50X/0.55 / WD7.8
Nosepiece	Reversed quintuple (five hole) nosepiece
focus	coaxial coarse and fine focusing mechanism, coarse range: 38mm per rotation, fine range: 0.2 mm per rotation, fine precision: 0.002mm, with coarse tension adjustment device
stage	Fixed stage, Size 160 X 250mm
plate	Metal plate (center hole Ø12) /Metal plate (center hole Ø25) / the stage extension plate
Movable	coaxial low hand position removable stage, moving range 120 x 78mm
Reflective illumination System	Reflection Koehler illuminator, with iris diaphragm and centerable filed diaphragm, wide voltage 90-240V, 12V/50W halogen bulb, center adjustable light intensity continuously adjustable
Polarizing kit	Polarizer slide
	Analyzer slide, 360° rotating
Filter	Ø32mm yellow/green/blue/neutral

Inverted Trinocular Metallographic Microscope

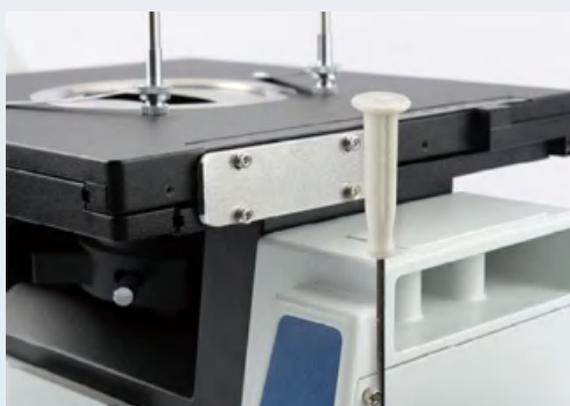
E-900



Specification:

Optical system	Infinity chromatic aberration correction optical system
Viewing head	Gemel trinocular head 45° inclined, Fixed eyepiece tube, Interpupillary distance adjustable between: 50-75mm, two types refract rate: binocular: trinocular = 100 : 0 or 0:100
Eyepiece	High eyepoint wide field plan eyepiece PL10X/22mm, diopter adjustable.
	High eyepoint wide field plan eyepiece PL10X/22mm, adjustable diopter, with micrometer (Optional purchase)
	High eyepoint wide field plan eyepiece PL15X/16mm, diopter adjustable (Optional purchase)
Objective	Infinite long distance bright and dark field objective lens: LMPL5X /0.15BD DIC WD9.0 LMPL10X/0.30BD DIC WD9.0 LMPL20X/0.45BD DIC WD3.4 LMPLFL50X/0.55BD WD7.5 LMPLFL100X/0.80BD WD2.1 (optional purchase)
Nosepiece	Internally positioned 5-hole bright and dark field converter (with DIC slot), built-in magnification sensor

Frame	Reflected bright and dark field metallographic frame, adopts low-hand position coarse and fine adjustment coaxial, coarse adjustment stroke 9mm, focal plane up 6.5mm, down 2.5mm, fine adjustment accuracy 0.002mm, with elastic adjustment handwheel to prevent sliding
	With bright and dark field switching device, with variable field diaphragm, aperture diaphragm, the center is adjustable; with filter slot and polarizing device slot, with light source brightness indicator strip, with infrared sensor and objective lens magnification display function
stage	Three-layer mechanical mobile platform, platform size: 240 (W) × 250 (L), moving range 50 × 50mm, two-way linear rail drive, right-hand low-hand control
Illumination System	Use external wide voltage transformer, input 100-240V, output 15V13.4A, 12V100W halogen lamp, brightness continuously adjustable
Polarizing kit	Polarizer insert, fixed analyzer insert, 360°rotating analyzer insert
Filter	LBD
Differential interference	DIC differential interference module
Software System (Optional)	ES-2020 Metallographic Image Analysis Software System
Photography (Optional)	Camera: 3 Million pixel camera / 5 Million pixel camera
	Camera adapter: 0.5X / 0.65X / 1X
Micrometer (Optional)	High-precision micrometer: 100x0.01mm, 100x0.01cm, calibration point: d = 0.15mm, d = 0.07mm



Upright Trinocular Metallographic Microscope

E-7000



- Upright Trinocular Metallurgical Microscope
- Magnification: 50X - 600X
- With FOUR hole turret

Specification:

Eyepiece	Wide field WF10X (Φ18mm)
Objective	Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12
	Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25
	Plan achromatic objectives with long working distance (no cover glass) PL L40X/0.60
	Plan achromatic objectives with long working distance (no cover glass) PL L60X/0.75
Eyepieces tube	Trinocular, 30°inclined, (Built-in polarizer for switching)
Epi-illumination system	6V 20W, Halogen lamp, lightness adjustable
	Vertical illumination With field diaphragm, aperture diaphragm and polarizer, (Yellow, Blue, Green) filter and frosted filter
Focus system	Coaxial coarse / fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
Nosepiece	Quadruple (4 holes) Backward ball bearing inner locating
Stage	Double layer mechanical (Size: 185mm X 140mm, moving range: 75mm X 50mm)
Dimension	200 x 341 x 417mm

Upright Trinocular Metallographic Microscope

E-7500



Eyepiece	Wide field WF10X (Φ18mm)
Objective	Plan achromatic objectives with long working distance (no cover glass) PL 5X/0.12
	Plan achromatic objectives with long working distance (no cover glass) PL L10X/0.25
	Plan achromatic objectives with long working distance (no cover glass) PL L40X/0.60
	Plan achromatic objectives with long working distance (no cover glass) PL L60X/0.75 (spring)
Eyepieces tube	Trinocular, 30°inclined, (Built-in polarizer for switching)
Epi-illumination system	6V 20W, Halogen lamp, lightness adjustable
	Vertical illumination With field diaphragm, aperture diaphragm and polarizer, (Yellow, Blue, Green) filter and frosted filter
Focus system	Coaxial coarse / fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
Transmission lighting system	Abbe condenser NA.1.25 Rack & pinion adjustable
	Blue filter and frosted filter
	Light Collector for halogen lamp
	6V 20w halogen lamp, brightness adjustable
Nosepiece	Quadruple (4 holes) Backward ball bearing inner locating
Stage	Double layer mechanical (Size: 185mm X 140mm, moving range: 75mm X 50mm)
Dimension	200 x 341 x 417mm

Upright Trinocular Metallographic Microscope

E-8000

- Upright Trinocular Metallurgical Microscope
- Magnification: 50X - 600X
- With FIVE hole turret



Specification:

Eyepiece	Wide field WF10X (Φ22mm)
Infinity long-range flat field achromatic objective lens	PL 5X/0.12 (no cover glass) PL L10X/0.25 (no cover glass) PL L40X/0.60 spring (no cover glass) PL L60X/0.75 spring (no cover glass)
Eyepieces tube	Trinocular, 30°inclined, (Built-in polarizer for switching)
Epi-illumination system	12V 50W, Halogen lamp, lightness adjustable Vertical illumination With field diaphragm, aperture diaphragm and polarizer, (Yellow, Blue, Green) filter and frosted filter
Focus system	Coaxial coarse / fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.
Transmission lighting system	Abbe condenser NA.1.25 Rack & pinion adjustable Blue filter and frosted filter Light Collector for halogen lamp 12V 30w halogen lamp, brightness adjustable
Nosepiece	Quintuple (5 holes) Backward ball bearing inner locating; (PL L100X objective lens for optional purchase)
Stage	Double layer mechanical (Size: 185mm X 140mm, moving range: 75mm X 50mm)
Dimension, N.W	260 x 280 x 498mm, 11kg

Upright Trinocular Metallographic Microscope

E-4R



- Upright Trinocular Metallurgical Microscope
- Magnification: 50X - 500X
- With FIVE hole turret

Alternative method of observation	Bright field/Oblique illumination/polarizing/DIC /Transmission light
Optical system	Infinity color corrected optical system
Eyepiece	Hight eyepoint plan eyepiece PL10X/22
Viewing head	30°inclined gemel trinocular, reflect rate, binocular: trinocular=100: 0 or 50:50
objective	LMPL infinity LWD Metallurgical objective 5X, 10X, 20X, 50X
Nosepiece	Reversed quintuple (5 holes) nosepiece, with DIC slot
Stage	4" mechanical stage, moving range 105x 105mm, with glass plate, right hand position X, Y moving hand wheel, the platform with interface
Body	Coaxial coarse and fine focus system, Coarse adjustment range 33 mm; precision of fine adjustment: 0.001mm, with coarse adjustment stop and tightness adjustment. Built-in wide voltage 90V-240V, dual power supply output
Reflective illumination System	With iris diaphragm and aperture diaphragm, both centers adjustable, with filter slot and polarizing device slot, switch rod with oblique lighting. Single high-power 5W LED, white, light intensity continuously adjustable
	With iris diaphragm and aperture diaphragm, both centers adjustable, with filter slot and polarizing device slot, switch rod with oblique lighting. 12V 100W halogen bulb, light intensity continuously adjustable (when selecting this group of lighting devices, use E-6R-type microscope body)
Transmission illumination system	Single high-power 5W LED, white, light intensity continuously adjustable. N.A.0.5 condenser with iris aperture diaphragm

Upright Trinocular Metallographic Microscope

E-40M

- Bright field, oblique light and simple polarizing are all available with E-40M. Brightfield image with high brightness and high resolution shows original color of samples. And oblique light is used to show 3D relief image.
- Simple polarizing observation is available with pluggable polarizer kit. More ideal images are here with different filters.
- Reflected illuminator with field / aperture diaphragm and oblique light device, as well as slots for polarizing kit and filters, adopts LED Koehler illumination system.



Specification:

Nosepiece	Reversed quintuple nosepiece
Viewing head	30° inclined gemel trinocular head, interpupillary distance: 54mm - 75mm; splitting ratio R : T=100:0 or 50:50
Eyepiece	High eyepoint wide field plan eyepiece PL10X22mm
Objective	Flat field infinity long working distance achromatic metallographic objective 5X, 10X, 20X, 50X , 100X (optional)
Focus Adjustment	Transmitted & Reflected frame, coaxial focus system with tension adjustment and up-limited device, coarse range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down, 28mm high sample is available.
	Reflected frame, coaxial focus system with tension adjustment and up-limited device, coarse range: 28mm, fine precision: 0.002mm. Stage can be adjusted up and down, 78mm high sample is available.
Stage	Double layer mechanical stage with X/Y coaxial adjustment, size: 175mmX145mm, moving range: 76mmX42mm.
	Metal plate for transmitted frame; glass plate for transmitted & reflected frame.
Reflected illumination	Wide-range voltage 100V-240V_AC50/60Hz, reflected lamp-house with single 5W LED, warm color. Koehler illuminator with oblique light device, center adjustable field and aperture diaphragm
Transmitted illumination	Wide-range voltage 100V-240V_AC50/60Hz, transmitted lamp-house with single 5W LED, warm color.
Condenser	N.A.0.9 swing-out achromatic condenser for transmitted frame, with center adjustable aperture iris diaphragm.

Upright Trinocular Metallographic Microscope

E-50M



- Bright & Dark semi-apochromatic metallurgical objectives (5X/10X/20X/50X).
- Bright & Dark reflected illuminator with iris field diaphragm and aperture diaphragm, central adjustable. With filter slot and polarizing slot. With switch for bright and dark field
- Polarization system: The polarizer and analyzer in polarization system contribute to eliminate the stray light in semiconductor and PCB detection, image with clear detail is achievable.

Specification:

Optical system	Infinity color corrected optical system
Viewing head	Erect image, 30° inclined gemel trinocular head, interpupillary distance: 50mm - 76mm; splitting ratio R : T=100:0 or 0:100
Eyepiece	High eyepoint wide field plan eyepiece PL10X25mm, diopter adjustable
Objective	BD semi-apochromatic metallurgical objectives (5X/10X/20X/50X)
Nosepiece (with DIC slot)	BD quintuple nosepiece (5 holes)
Frame	Reflected/Transmitted body, low-position coaxial coarse and fine adjustment, coarse adjustment distance: 25mm; fine precision: 0.001mm. With coarse adjustment stop and tightness adjustment.
	Built-in 100-240V wide voltage transformer, double way power output; intensity adjustable by digital set and reset; switch for reflection and transmission; built-in transmitted filters LBD / ND6 / ND25).
Stage	4 inch three layers mechanical stage with glass plate, moving range: 102mm(Y)*105mm(X)
Condenser	Swing-out type achromatic condenser (N.A.0.9)
Reflected illuminator	BD reflected illuminator with iris field diaphragm and aperture diaphragm, central adjustable. With filter slot and polarizing slot. With switch for bright and dark field
lamp house	12V/100W halogen lamp house, center pre-set

Ultrasonic Thickness Gauge

UT-1

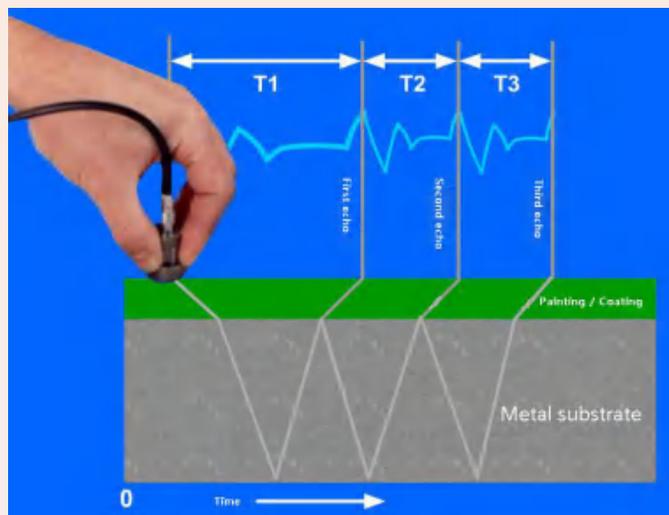


Specification:

Model	UT-1
Measuring range	0.75-600mm (Steel)
Velocity Range	1000-9999m/s
Resolution	0.01mm
Measuring accuracy	± (0.5%H+0.04mm); H is thickness value
Measurement cycle	Single point measurement 6 times/per
Display	128 x 64 LCD with LED backlight
Storage	40 values of saved data
Power Source	2pcs 1.5V AA battery
Working Time	more than 50 hours (LED backlight off)
Work environment Temperature	-20°C to 70°C
Humidity	5% to 90% (≤90%)
Storage Temperature	-30°C to +70°C
Dimensions & N/W	145mmx74mmx32 mm; 245g

Ultrasonic Thickness Gauge

UT-2



Specification:

Model	UT-2
Measuring range	0.75-600mm (Steel)
Velocity Range	1000-9999m/s
Resolution	0.01mm
Measuring accuracy	± (0.5%H+0.04mm); H is thickness value
Measurement cycle	Single point measurement 6 times/per
Display	128 x 64 LCD with LED backlight, color screen
Storage	3000 values of saved data
Communication Interface	USB
Power Source	2pcs 1.5V AA battery
Working Time	more than 50 hours (LED backlight off)
Work environment Temperature	-20°C to 70°C
Humidity	5% to 90% (≤90%)
Storage Temperature	-30°C to +70°C
Dimensions & N/W	145mmx74mmx32 mm; 245g

Ultrasonic Thickness Gauge

UT-3



- Capable of performing measurements on a wide range of material, including metals, plastic, ceramics, composites, epoxies, glass and other ultrasonic wave well-conductive materials.
- Can collocate variety different frequencies,wafer sizes of probes;
- Sound Velocity Calibration function as a known thickness;
- Coupling status indicator showing the coupling status;
- EL backlight, and convenience to use under dark environment;

Specification:

Model	UT-3
Measuring range	0.75-700mm (Steel)
Velocity Range	1000-9999m/s
Resolution	0.001mm
Measuring accuracy	± (0.5%H+0.04mm); H is thickness value
Measurement cycle	Single point measurement 6 times/per
Calibration Function	Zero calibration and two-point calibration
Alarm	Sound-light alarm function
Lower limit for steel pipes	5MHz probe: 20mm*3.0mm (0.8 0.12 inch) 7MHz probe: 15mm*2.0mm (0.6 0.08 inch)
Display	128 x 64 LCD with LED backlight, color screen
Storage	3000 values of saved data
Communication interface	USB
Language	English and Chinese
Power Source	2pcs 1.5V AA battery
Working Time	more than 50 hours (LED backlight off)
Work environment	-20℃ to 70℃; Humidity ≤90%
Storage Temperature	-30℃ to +70℃
Dimensions & N/W	145mmx74mmx32 mm; 245g

Coating Thickness Gauge

CT-1



Specification:

Model	CT-1
Measuring range	0-1250μm, depends on probes, MAX 10mm for the probe F10.
Working principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1μm
Display	128x64 LCD with backlight
Accuracy	±2%H+1um Note: H is thickness reading
Memory	5 files x 100 values
Unit switch	Metric (μm) Imperial (mil)
Working temperature	Operation Temp.: -10~50°C; Storage Temp. : -30~70°C
Power	AA battery 2pcs
Weight	340g
Size	115*67*31mm

Coating Thickness Gauge

CT-2



Specification:

Model	CT-2
Measuring range	0-1250μm, depends on probes, MAX 10mm for the probe F10.
Working principle	Magnetic & Eddy
Substrate	FE / NFE base
Resolution	0.1μm
Display	128x64 LCD with backlight
Accuracy	±2%H+1um Note: H is thickness reading
Memory	5 files x 100 values
Unit switch	Metric (μm) Imperial (mil)
Working temperature	Operation Temp. : -10~50°C Storage Temp. :-30~70°C
Power	AA battery 2pcs
Weight	340g
Size	115*67*31mm

Coating Thickness Gauge

CT-100



- FSTN LCD Display
- Built-in Black Light
- Integral Probe F&NF, Auto detecting attribute of substrates
- Zero Calibration and 50/100/250/500/1000um Calibration Points
- Nice shell design for easy reading
- Built-in Silicone Slip Strip
- Measurement Range: 0~1300um
- Accuracy: $\pm(2.5\%+1\mu\text{m})$

Specification:

Prob	F	N
Principle	Magnetic Induction	Eddy Current
Range	0~1300um 0~51.2mil	0~1300um 0~51.2mil
Accuracy	$\pm(2.5\%+1\mu\text{m})$ $\pm(2.5\%+0.04\text{mil})$	$\pm(2.5\%+1\mu\text{m})$ $\pm(2.5\%+0.04\text{mil})$
Resolution	0.1um/0.01mil	0.1um/0.01mil
Calibration	Points: ZERO/50/100/250/500/1000um	
Units	um, mil	
minimum curvature radius convex: 1.5mm		
minimum curvature radius concave: 25mm		
minimum measuring area: Diameter 6mm		
minimum thickness of substrate	0.5mm(0.02")	0.3mm(0.012")
Power	4 x AAA batteries	
Operation Environment	Temperature:0~40°C (32~104°F) Humidity:20%~90%RH	
Size	155mm x 62mm x 35mm (6.10" x 2.44" x 1.38")	
Weight	125g(4.41oz)	

Coating Thickness Gauge

CT-100B



Specification:

	Probe F	Probe N
Principle	Magnetic Induction	Eddy Current
Range	0~1300um 0~51.2mil	0~1300um 0~51.2mil
Accuracy	±(3%+2um) ±(3%+0.08mil)	±(3%+2um) ±(3%+0.08mil)
Resolution	0.1um/0.01mil	0.1um/0.01mil
Calibration	Points: ZERO/50/100/250/500/1000um	
Units	um, mil	
minimum curvature radius convex:	1.5mm	
minimum curvature radius concave:	25mm	
minimum measuring area:	Diameter 6mm	
minimum thickness of substrate	0.5mm(0.02")	0.3mm(0.012")
Power	One 9V battery	
Operation Environment	Temperature:0~40°C (32~104°F) Humidity:20%~90%RH	
Size	130mm x 62mm x 32mm (4.88" x 2.44" x 1.26")	
Weight	100g(3.53oz)	

High Precision Integrated Surface Roughness Tester

SR-100



- Integrated design & Sturdy Construction
- Large measuring range & Pocket size
- Small, light, USB port charging, easy to use
- Equipped high-speed DSP processor, data process much faster than traditional machine
- Safe & save energy, power auto shutdown design

Specification:

Model	SR-100
Testing parameters	Ra, Rz, Rq, Rt
Measuring range (um)	Ra, Rq: 0.05-15.0 Rz, Rt : 0.1-50.0
Sample length (mm)	0.25, 0.80, 2.50
Evaluation length(mm)	1.25, 4.0, 5.0
Stroke length (mm)	6
Indication accuracy	0.01
Indication error	±(7-10)%
Variability	<12%
Power	Rechargeable li-battery
Stylus static force:	≤ 0.016N
Force measuring rate of change	≤ 800N/m
Working temperature	-20℃ ~ 40℃
Relative humidity	<90%
Weight of Host	200g
Size	106mmx70mmx24mm



High Precision Surface Roughness Tester

SR-200



- ❖ Sturdy Split structure design
- ❖ Support Bluetooth APP, Can acquire, manage data by APP
- ❖ High resolution 0.001
- ❖ Large measuring range
- ❖ Comfortable to use, pocket size & USB port for charging
- ❖ Faster data process & accurate result; adopted high-speed DSP processor

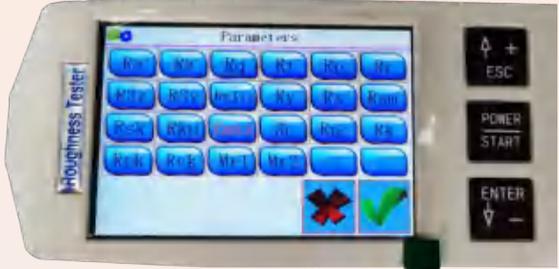


Model	SR-200
Testing parameters	Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx;
Measuring range (um)	Ra: 0.005-16.000 Rz: 0.02-160.00
Sample length (mm)	0.25, 0.80, 2.50
Evaluation length(mm)	(1-5)L
Maximum drive stroke	17.5mm/0.7inch
Indication accuracy	0.001
Indication error	±(7-10)%
Variability	<6%
Data Storage	100 groups
Power	Rechargeable li-battery
Working temperature	-20℃~40℃
Relative humidity	<90%
Size	158mmx63.5mmx46mm
Weight of Host	0.3kg

Advanced Color Touch Screen Surface Roughness Tester

SR-300

Specification:

Measurement Range	The Z axis (vertical)	±80µm/±160 µm (enhanced model)	
	The X axis (Transverse)	17.5mm	
Resolution	The Z axis (vertical)	0.01µm/±20µm	
		0.02µm/±40µm	
		0.04µm/±80µm	
		0.08µm/±160µm	
Measurement item	Parameter	Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, Rz(JIS), Rs, Rsk, Rsm, Rku, Rmr, Ry(JIS), Rmax, Rpc, Rk, Rpk, Rvk, Mr1, Mr2	
	Standard	ISO, ANSI, DIN, JIS	
	Graphic	Bearing area curve, Roughness profile, Primary profile	
Filter	RC, PC-RC, Gauss, D-P		
The sampling length(<i>lr</i>)	0.25, 0.8, 2.5mm		
Assessment length (<i>ln</i>)	$ln = lr \times n$ $n = 1 \sim 5$		
Sensor	Measuring method	skidded	
	Stylus tip	Diamond, 90 cone angle, 5µmR	
	Force	<4mN	
	Skid part	hard alloy, skid radius of curvature: 40mm	
	Traversing speed	<i>lr</i> =0.25, <i>Vt</i> =0.135mm/s	
<i>lr</i> =0.8, <i>Vt</i> =0.5mm/s			
<i>lr</i> =2.5, <i>Vt</i> =1mm/s			
Return <i>Vt</i> =1mm/s			
Accuracy	Less than ±10%		
Repeatability	Less than 6%		
Power supply	Built-in Lithium ion battery, Charger :DC5V,3200mA		
Outline dimension	Main unit: 52*55*158mm drive: 23*27*115mm		
Weight (main unit)	Around 400g		
working Environment	Temperature: - 20℃ ~ 40℃ Humidity: < 90% RH		
Store and Transportation	Temperature: - 40℃ ~ 60℃ Humidity: < 90% RH		

High Precision Digital Ultrasonic Flaw Detector

EFD-300



- Automated calibration, Automated gain
- DAC, AVG, TCG, B scan, AWS
- High-speed capture and very low noise
- Solid metal housing
- High contrast viewing of the waveform from bright
- Powerful pc software and reports can be export to excel

Specification:

Title	Parameter	Title	Parameter
Measuring Range(mm)	0 - 10000	Measurement Mode	Single, Dual, Thru
Vertical Linearity Error	≤3%	Reject	0-80%
Horizontal Linearity Error	≤0.1%	Pulse Displacement(μs)	-20 - +3400
Sensitivity Leavings	≥62dB	Zero(μs)	0.0 - 99.99
Dynamic range	≥34dB	Port Type	BNC(Q9)
Resolving Power	≥36dB	Operating Temperature (°C)	-20~50
Frequency Range(MHz)	0.5 - 20	H×W×D(mm)	240×156×50
Gain(dB)	0 - 120	Weight(kg)	1.0(with battery)
Material Velocity(m/s)	1000 - 15000		

Advanced High Precision Ultrasonic Flaw Detector

EFD-500

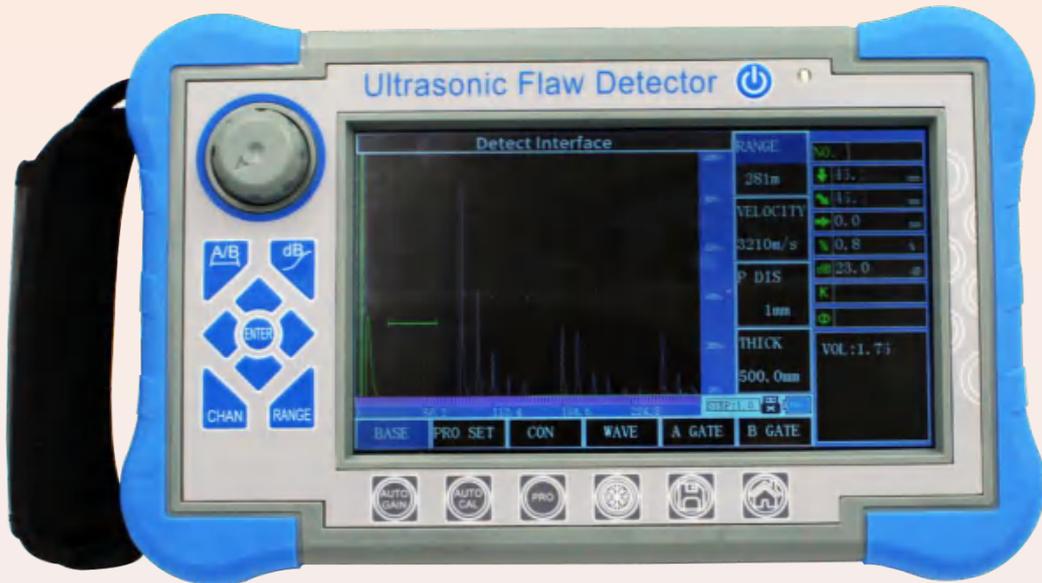
Probe zero point(μ s)	Probe zero point: 0.0~99.99 Adjust the step: 0.01
Frequency Range(MHz)	0.5~20
Flaw detection sensitivity margin	≥ 62 dB
Dynamic Range	≥ 32 dB
Alarm	Incoming wave alarm
Flaw detection channel	300
Data storage	500 A-Scan graphics
Communication interface	USB
Units of measurement	Mm
Working temperature ($^{\circ}$ C)	-10~50 $^{\circ}$ C
Working humidity (RH)	20%~90%
Interface Type	BNC



Scan range (mm)	Scan range (mm):0~10000 Grades: 2.5, 5, 10, 20, 30, 40, 50, 60, 70, 80, 90, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 2000, 3000, 4000, 5000, 6000, 7000, 8000, 9000, 10000. Adjusting step distance: 1mm
Pulse shift (μ s)	Pulse shift (μ s): -7 to +9984 Grades: -20, -10, 0.0, 10, 20, 50, 100, 150, 200, 250, 300, 350, 400, 450, 500, 600, 700, 800, 900, 1000, 1500, 2000, 2500, 3000, 3400. Adjustment step:1 (-7 μ s~9984 μ s)
Material sound speed(m/s)	Material sound speed:1000~15000 7 fixed sound speeds:2260, 2730, 3080, 3230, 4700, 5900, 6300 Adjust the step:1
Working methods	Single probe (receive and send) dual probes (one for receiving one for sending)
Gain adjustment(dB)	0~120 ; Adjust the step:0.2, 1, 2, 4, 6, 8, 10, 20, 50
Linear inhibition	Screen height 0% to 80%, step size: 1%
Vertical linearity error	Vertical linear error, not more than 3%
Horizontal linear error	Within the scan range, not more than 0.2%
Display screen	High-brightness color 5.7 in display
A-Scan display area	Full screen or local; A-Scan shows freeze and thaw A-Scan fills
Power Adapter	enter 100V~240V / 50Hz~60Hz; Output 9V/1.5A
Battery	Lithium (Li) Battery 5000mAh

Advanced Touch Screen Ultrasonic Flaw Detector

EFD-500T



Display	7 inch TFT color screen, 800*480 resolution	
Operation mode	Button, Rotary, Touch Screen	
Power supply	Lithium Ion Battery	
Battery capacity	5.0Ah	
Power voltage	12V	
Power quantity	1	
Working time	≥8 hours	
Adapter input	DC100~240V 50Hz/60Hz	
Adapter output	AC 12V	
Adapter power	36W	
Data storage	SD card(16G)	
Alarm	1	
Working Temperature	-10℃~45℃	
Storage Temperature	-20℃~60℃	
IP Grade	IP65	
Dimension	245*155*55mm	
Weight	1.18kg (included battery)	

Universal Testing Machine

1/2/3/5/10/20/30/50/100/200/300/600/1000/2000KN



Impact Testing Machine

25J / 50J / 150J / 250J / 300J / 500J



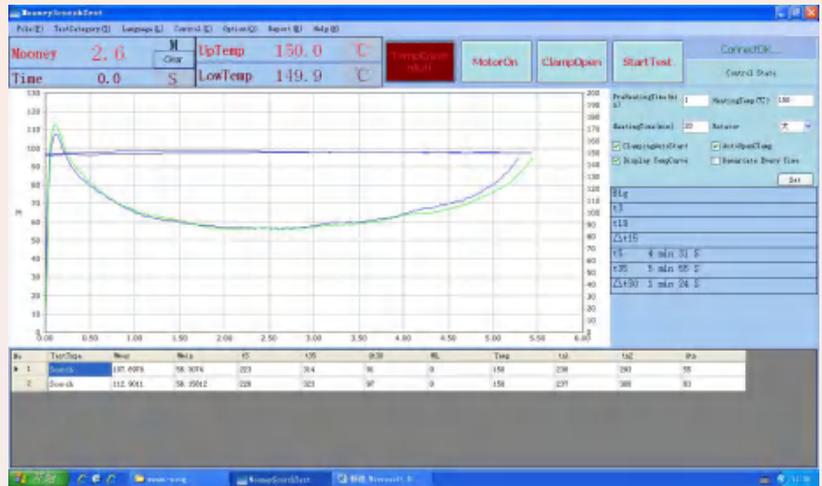
Impact Sample Notch Hydraulic Broaching Machine

NBM-UV



Rubber Mooney Viscometer

MV-800



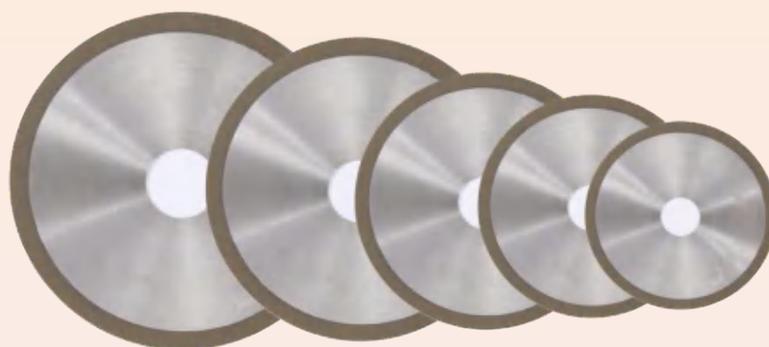
Specification:

Mooney	M
Control temperature range	Normal temperature to 200°C
Temperature display resolution	0.01°C
Temperature control accuracy	±0.3°C
Temperature rising time	<8 min
Clamping temperature recovery time	< 1 min
Environmental range	10~35°C, humidity<80%
Calibration accuracy	Mooney value ±0.5
Acquisition rate	200 SPS
Rotor speed	2 rotation/ min ±0.02rotation/ min
Torque range	Mooney value 0~200
Torque resolution	Mooney value 0.1 (1/50000)
Print content	Date, time, temperature, Mooney scorch curve and MV,T5,T35,T3,T18,@15,@30
Power	AC220V±10% 50HZ
Software interface	USB2.0



Abrasive Cutting Wheel (Disc)	
Model	Brief Introduction
HCD-125	1. Cutting disc, 10 pieces per box 2. Size: Ø125 x 0.5 x 12.7mm 3. Color: red Brown 4. Material: WA resin
HCD-152	1. Cutting disc, 10 pieces per box 2. Size: Ø152x 0.6 x 12.7mm 3. Color: red Brown 4. Material: WA resin
HCD-200	1. Cutting disc, 10 pieces per box 2. Size: Ø200x 1.0 x 32mm 3. Color: red Brown 4. Material: WA resin
HCD-230	1. Cutting disc, 10 pieces per box 2. Size: Ø230x 1.2 x 32mm 3. Color: red Brown 4. Material: WA resin 5. Suitable for high hardness steel (iron base metal HV250-800)
HCD-250	1. Cutting disc, 10 pieces per box 2. Color: red Brown 3. Material: WA resin 4. Size: Ø250x 1.5 x 32mm / Ø250x 2.0 x 32mm 5. Suitable for high hardness steel (iron base metal HV250-800)
HCD-300	1. Cutting disc, 10 pieces per box 2. Color: red Brown 3. Material: WA resin 4. Size: Ø300x 1.5 x 32mm / Ø300x 2.0 x 32mm 5. Suitable for high hardness steel (iron base metal HV250-800)
HCD-350	1. Cutting disc, 10 pieces per box 2. Size: Ø350x 2.5 x 32mm 3. Color: red Brown 4. Material: WA resin 5. Suitable for high hardness steel (iron base metal HV250-800)
HCD-400	1. Cutting disc, 10 pieces per box 2. Size: Ø400x 3.0 x 32mm 3. Color: red Brown 4. Material: WA resin 5. Suitable for high hardness steel (iron base metal HV250-800)
LCD-250	1. Cutting disc, 10 pieces per box 2. Size: Ø250x 1.5 x 32mm / Ø250x 2.0 x 32mm 3. Color: black 4. Hardness: soft 5. Suitable for iron-based materials, medium hardness steel (HRC35-50)

Abrasive Cutting Wheel (Disc)	
Model	Brief Introduction
LCD-300	1. Cutting disc, 10 pieces per box 2. Size: Ø300x 1.5 x 32mm / Ø300x 2.0 x 32mm 3. Color: black 4. Hardness: soft 5. Suitable for iron-based materials, medium hardness steel (HRC35-50)
LCD-350	1. Cutting disc, 10 pieces per box 2. Size: Ø350x 2.5 x 32mm 3. Color: black 4. Hardness: soft 5. Suitable for iron-based materials, medium hardness steel (HRC35-50)
LCD-400	1. Cutting disc, 10 pieces per box 2. Size: Ø400x 3.0 x 32mm 3. Color: black 4. Hardness: soft 5. Suitable for iron-based materials, medium hardness steel (HRC35-50)
MCD-250	1. Cutting disc, 10 pieces per box 2. Size: Ø250x 1.5 x 32mm / Ø250x 2.0 x 32mm 3. Color: black 4. Suitable for iron-based materials, low hardness steel, annealed steel and non-ferrous metal materials (copper, aluminum, etc.)
MCD-300	1. Cutting disc, 10 pieces per box 2. Size: Ø300x 1.5 x 32mm / Ø300x 2.0 x 32mm 3. Color: black 4. Suitable for iron-based materials, low hardness steel, annealed steel and non-ferrous metal materials (copper, aluminum, etc.)
MCD-350	1. Cutting disc, 10 pieces per box 2. Size: Ø350x 2.5 x 32mm 3. Color: black 4. Suitable for iron-based materials, low hardness steel, annealed steel and non-ferrous metal materials (copper, aluminum, etc.)
MCD-400	1. Cutting disc, 10 pieces per box 2. Size: Ø350x 2.5 x 32mm 3. Color: black 4. Suitable for iron-based materials, low hardness steel, annealed steel and non-ferrous metal materials (copper, aluminum, etc.)

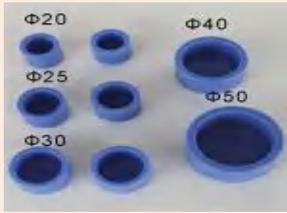


Diamond Cutting Wheel	
Model	Brief Introduction
DCD-100	1. Size: Ø100x 0.3 x 22/32mm 2. Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials.
DCD-125	1. Size: Ø125x 0.38 x 12.7mm 2. Suitable for non-ferrous materials, made in USA
DCD-150	1. Size: Ø152x 0.43 x 12.7mm 2. Suitable for non-ferrous materials, made in USA 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-175	1. Size: Ø178x 0.63 x 12.7mm 2. Suitable for non-ferrous materials, made in USA 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-200	1. Size: Ø203x 0.80 x 22mm 2. Suitable for non-ferrous materials, made in USA 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-100A	1. Size: Ø100x 0.3 x 12.7mm 2. Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials. 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-125A	1. Size: Ø125x 0.4 x 12.7mm 2. Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials. 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-150A	1. Size: Ø150x 0.5 x 12.7mm 2.Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials. 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-175A	1. Size: Ø175x 0.7 x 12.7mm 2.Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials. 3.The dis is made by edge sintering process, with high precision and long lifespan.
DCD-200A	1. Size: Ø200x 0.9 x 22/32mm 2.Used for cutting hard metals and hard alloys, non-metallic minerals, glass, ceramics, brittle, hard brittle materials. 3.The dis is made by edge sintering process, with high precision and long lifespan.

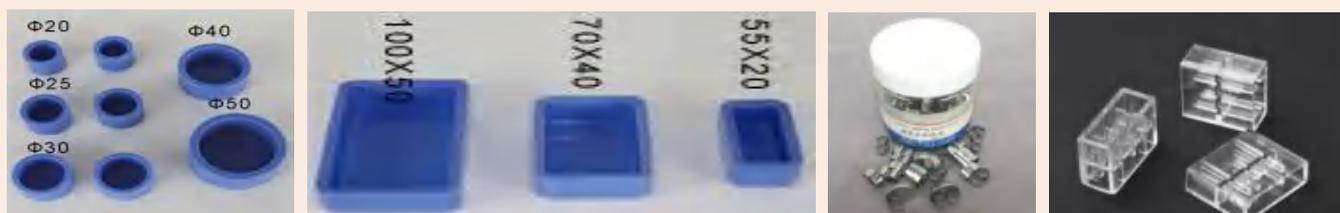


Mounting press powder

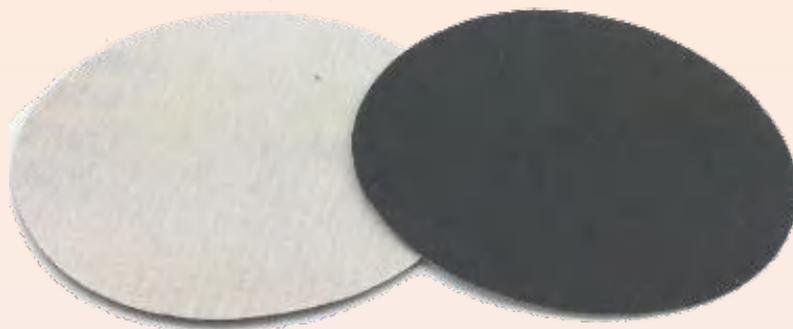
Model	Brief Introduction	
FHM-B	1. Used for hot mounting press, 500g/bottle	2. Widely used, black color
FHM-B	1. Used for hot mounting press, 2kg/bottle	2. Widely used, black color
FHM-B	1. Used for hot mounting press, 4kg/bottle	2. Widely used, black color
FHM-B	1. Used for hot mounting press, 18kg/bottle	2. Widely used, black color
FHM-R	1. Used for hot mounting press, 500g/bottle	2. Widely used, red color
FHM-R	1. Used for hot mounting press, 2kg/bottle	2. Widely used, red color
FHM-G	1. Used for hot mounting press, 2kg/bottle	2. Widely used, green color
HME-B	1. Used for hot mounting press, 500g/bottle	2. Conductive type , black color, suitable for conductive samples, such as electrolytic polishing
HMS-B	1. Used for hot mounting press, 500g/bottle	2. Protected edge type , black color, very low shrinkage, tightly combined with sample, high hardness, good abrasion resistance, suitable for samples with high edge requirements
HM-T	1. Used for hot mounting press, 500g/bottle	2. Without color, transparent
HM-W	1. Used for hot mounting press, 500g/bottle	2. Widely used, white color
HM-TS	1. Used for hot mounting press, 500g/bottle	2. Soluble type, Without color, transparent 3. Samples can be removed from the mosaic block without damage



Mounting press Mold	
Model	Brief Introduction
CMM-20	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø20 x 18mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-25	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø25 x 18mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-30	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø30 x 18mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-40	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø40 x 21mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-50	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø50 x 24mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-55	<ol style="list-style-type: none"> 1. Used for cold mounting press, 6pcs/box 2. Size: 55(L) x 20(W) x 24mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-70	<ol style="list-style-type: none"> 1. Used for cold mounting press, 6pcs/box 2. Size: 70(L) x 40(W) x 22mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-100	<ol style="list-style-type: none"> 1. Used for cold mounting press, 6pcs/box 2. Size: 100(L) x 50(W) x 22mm (Inner height) 3. Silicone rubber, work with cold mounting powder, reusable
CMM-25P	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø25 x 20mm (Inner height), white color 3. POM material, with bottom lid, work with cold mounting powder, reusable



Mounting press Mold	
Model	Brief Introduction
CMM-30P	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø30 x 25mm (Inner height), white color 3. POM material, with bottom lid, work with cold mounting powder, reusable
CMM-32P	<ol style="list-style-type: none"> 1. Used for cold mounting press, 12pcs/box 2. Size: Ø32 x 27mm (Inner height), blue color 3. POM material, with bottom lid, work with cold mounting powder, reusable
CMM-24C	<ol style="list-style-type: none"> 1. One-time use rectangular crystal mold, 300pcs/bag 2. Size: 24 x 10 x 18mm (L*W*H) 3. Used to carry the slice when the PCB factory performs the metallographic slice analysis. High transparency, beautiful and practical, saving cold mosaic material
CMM-24C	<ol style="list-style-type: none"> 1. One-time use rectangular crystal mold, 100pcs/bag 2. Size: OD30mm, height 18mm 3. Used to carry the slice when the PCB factory performs the metallographic slice analysis. High transparency, beautiful and practical, saving cold mosaic material
CMF-P	<ol style="list-style-type: none"> 1. Plastic material, sandwiching thin specimens with two closely touching circle shape fixture 2. Each box 100pcs
CMF-3	<ol style="list-style-type: none"> 1. Plastic material, Ω shape, three rod support 2. Each box 100pcs
CMF-S	<ol style="list-style-type: none"> 1. Stainless steel material, sandwiching thin specimens with two closely touching circle shape fixture 2. Each box 100pcs



Abrasive Paper	
Model	Brief Introduction
PGP-230	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 3. Size: 230 x 280mm; 50pcs/bag 4. High water resistance, good quality latex paper
PGP-200	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø200mm; 100pcs/bag; No glue on back side 5. High water resistance, good quality latex paper
PGP-230	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø230mm; 100pcs/bag; No glue on back side 5. High water resistance, good quality latex paper
PGP-250	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø250mm; 100pcs/bag; No glue on back side 5. High water resistance, good quality latex paper
PGP-300	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø300mm; 100pcs/bag; No glue on back side 5. High water resistance, good quality latex paper

Abrasive Paper	
Model	Brief Introduction
PGP-200A	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø200mm; 100pcs/bag; back side with adhesive 5. High water resistance, good quality latex paper
PGP-230A	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø230mm; 100pcs/bag; back side with adhesive 5. High water resistance, good quality latex paper
PGP-250A	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø250mm; 100pcs/bag; back side with adhesive 5. High water resistance, good quality latex paper
PGP-300A	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation 2. Grinding material: Black silicon carbide (SiC) 3. Granular #: P80, P120, P180, P240, P320, P400, P500, P600, P800, P1000, P1200, P1500, P2000, P2500, P3000, P4000 4. Size: Ø300mm; 100pcs/bag; back side with adhesive 5. High water resistance, good quality latex paper
PGP-230DS	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation, dry grinding. 2. Grinding material: Alumina 3. Granular #: W50(1), W40(0), W28(01), W20(02), W14(03), W10(04), W7(05), W5(06), W3.5(07) 4. Size: 230 x 280mm; 100pcs/bag
PGP-200D	<ol style="list-style-type: none"> 1. Used for metallographic sample preparation, dry grinding. 2. Grinding material: Alumina 3. Granular #: W50(1), W40(0), W28(01), W20(02), W14(03), W10(04), W7(05), W5(06), W3.5(07) 4. Size: Ø200mm; 100pcs/bag

Aluminum Abrasive paper	
Model	Brief Introduction
PGP-230D	1.Used for metallographic sample preparation, dry grinding. 2. Grinding material: Alumina 3.Granular #:W50(1), W40(0), W28(01), W20(02), W14(03), W10(04), W7(05), W5(06), W3.5(07) 4.Size: Ø230mm; 100pcs/bag
PGP-200AD	1.Used for metallographic sample preparation, dry grinding. 2. Grinding material: Alumina 3.Granular #:W50(1), W40(0), W28(01), W20(02), W14(03), W10(04), W7(05), W5(06), W3.5(07) 4.Size: Ø200mm; 100pcs/bag, back side with adhesive
PGP-230AD	1.Used for metallographic sample preparation, dry grinding. 2. Grinding material: Alumina 3.Granular #:W50(1), W40(0), W28(01), W20(02), W14(03), W10(04), W7(05), W5(06), W3.5(07) 4.Size: Ø230mm; 100pcs/bag, back side with adhesive
PGP-230WS	1.Used for metallographic sample preparation, waterproof. 2. Grinding material: Alumina 3.Granular #:180#, 240#, 320#, 400#, 600#, 800#, 1000#, 1200# 4.Size: Size: 230 x 280mm; 100pcs/bag
PGP-200W	1.Used for metallographic sample preparation, waterproof. 2. Grinding material: Alumina 3.Granular #:180#, 240#, 320#, 400#, 600#, 800#, 1000#, 1200# 4.Size: Ø200mm; 100pcs/bag
PGP-230W	1.Used for metallographic sample preparation, waterproof. 2. Grinding material: Alumina 3.Granular #:180#, 240#, 320#, 400#, 600#, 800#, 1000#, 1200# 4.Size: Ø230mm; 100pcs/bag
PGP-200AW	1.Used for metallographic sample preparation, waterproof. 2. Grinding material: Alumina 3.Granular #:180#, 240#, 320#, 400#, 600#, 800#, 1000#, 1200# 4.Size: Ø200mm; 100pcs/bag, back side with adhesive
PGP-230AW	1.Used for metallographic sample preparation, waterproof. 2. Grinding material: Alumina 3.Granular #:180#, 240#, 320#, 400#, 600#, 800#, 1000#, 1200# 4.Size: Ø230mm; 100pcs/bag, back side with adhesive



Polishing cloth	
Model	Brief Introduction
PC-250	1. Size: Ø250mm, Velour (Long fluff) / Imported Velvet (Medium Short fluff) / Silk Cloth (No Fluff) 2. Normal type, back side no adhesive, 10 pcs/bag.
PC-250	1. Size: Ø250mm, Cloth (short fluff) / canvas (non-fluff) / nylon (non-fluff) 2. Normal type, back side no adhesive, 10 pcs/bag.
PC-200A	1. Size: Ø200mm, Velour (Long fluff) / Imported Velvet (Medium Short fluff) / Silk Cloth (No Fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.
PC-200A	1. Size: Ø200mm, Velvet (medium and short fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.
PC-230AS	1. Size: Ø230mm, Synthetic polymer material (non-fluff) 2. Normal type, back side with adhesive, 10 pcs/bag. 3. Used in combination with diamond, alumina, and silica suspensions for final polishing (especially mechanical/chemical simultaneous polishing) of many materials (especially very soft materials such as titanium, copper, silver, etc.)
PC-300	1. Size: Ø300mm, Velour (Long fluff) / Imported Velvet (Medium Short fluff) / Silk Cloth (No Fluff) 2. Normal type, back side no adhesive, 10 pcs/bag.
PC-300	1. Size: Ø300mm, Cloth (short fluff) / canvas (non-fluff) / nylon (non-fluff) 2. Normal type, back side no adhesive, 10 pcs/bag.
PC-250A	1. Size: Ø250mm, Velvet (Long fluff) / Cloth (Short fluff) / Silk (No Fluff) / Canvas (No Fluff) / Nylon (No Fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.
PC-250A	1. Size: Ø250mm, Imported Velvet (Medium Short fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.
PC-250AS	1. Size: Ø250mm, Synthetic polymer material (non-fluff) 2. Normal type, back side with adhesive, 10 pcs/bag. 3. Used in combination with diamond, alumina, and silica suspensions for final polishing (especially mechanical/chemical simultaneous polishing) of many materials (especially very soft materials such as titanium, copper, silver, etc.)
PC-300A	1. Size: Ø300mm, Velvet (Long fluff) / Cloth (Short fluff) / Silk (No Fluff) / Canvas (No Fluff) / Nylon (No Fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.

Polishing cloth	
Model	Brief Introduction
PC-300A	1.Size: Ø300mm, Imported Velvet (Medium Short fluff) 2. Normal type, back side with adhesive, 10 pcs/bag.
PC-300AS	1.Size: Ø300mm, Synthetic polymer material (non-fluff) 2. Normal type, back side with adhesive, 10 pcs/bag. 3. Used in combination with diamond, alumina, and silica suspensions for final polishing (especially mechanical/chemical simultaneous polishing) of many materials (especially very soft materials such as titanium, copper, silver, etc.)



Anti-stick Disk		
Name	Model	Brief Introduction
Anti-stick disk	ASD	1) Diameter: 203/220/230/250/300mm 2) 5pcs/box

Magnetic Disk		
Name	Model	Brief Introduction
Magnetic disk	GPMD	1) Upper surface: with magnetic, work with anti-stick disks. 2) Bottom surface: adhesive with aluminum plate or iron plate of grinding or polishing machine 3) Size: Ø203/220/230/250/300mm; 1pc/box



Micro Vickers Hardness Block	
Hardness Range	Size
200-750 HV0.01	25*5mm
200-750 HV0.015	25*5mm
200-750 HV0.02	25*5mm
200-750 HV0.025	25*5mm
200-750 HV0.05	25*5mm
200-750 HV0.1	25*5mm
200-750 HV0.2	25*5mm
200-750 HV0.3	25*5mm
200-750 HV0.5	25*5mm
200-750 HV1	25*5mm

Macro Vickers Hardness Block	
Hardness Range	Size
175-750 HV2	Ø60mm
175-750 HV3	Ø60mm
175-750 HV5	Ø60mm
175-750 HV10	Ø60mm
175-750 HV20	Ø60mm
175-750 HV30	Ø60mm
175-750 HV50	Ø60mm
175-750 HV100	Ø60mm

Knoop Hardness Block	
Hardness Range	Size
200-750 HK0.01	25*5mm
200-750 HK0.02	25*5mm
200-750 HK0.025	25*5mm
200-750 HK0.05	25*5mm
200-750 HK0.1	25*5mm
200-750 HK0.2	25*5mm
200-750 HK0.3	25*5mm
200-750 HK0.5	25*5mm
200-750 HK1	25*5mm
200-750 HK2	25*5mm

Brinell Hardness Block	
Hardness Range	Size
180-650 HBW10/3000	Φ90
180-650 HBW10/1500	Φ90
90-450 HBW10/1000	Φ90
90-450 HBW10/500	Φ90
90-125 HBW10/250	Φ60
90-125 HBW10/100	Φ60
180-650 HBW5/750	Φ60
90-450 HBW5/250	Φ60
90-450 HBW5/125	Φ60
90-450 HBW5/62.5	Φ60
50-450 HBW5/25	Φ60
180-650 HWB2.5/187.5	Φ60
90-450 HBW2.5/62.5	Φ60
25-125 HBW2.5/31.25	Φ60
25-35 HBW2.5/15.625	Φ60
75-125 HBW2.5/6.25	Φ60
150-250 HBW1/30	Φ40
25-125 HBW1/10	Φ40
15-70 HBW1/5	Φ40
10-35 HBW1/2.5	Φ40

Rockwell Hardness Block	
Hardness Range	Size
20-40 HRA	Φ60
45-75 HRA	Φ60
80-84 HRA	Φ60
20-30 HRC	Φ60
35-55 HRC	Φ60
60-70 HRC	Φ60
20-50 HRB	60x40
60-70 HRB	Φ60
88-100 HRB	Φ60
40-47 HRD	Φ60
55-63 HRD	Φ60
70-75 HRD	Φ60
58-69 HRE	60x40
70-95 HRE	60x40
95-100 HRE	Φ60
107-114 HRE	Φ60
60-86 HRF	60x40
86-98 HRF	Φ60
105-114 HRF	Φ60
1-32 HRG	Φ60
57-82 HRG	Φ60
80-94 HRG	Φ60
80-94 HRH	60x40
96-100 HRH	60x40
40-60 HRK	60x40
60-76 HRK	Φ60
91-100 HRK	Φ60
110-115 HRL	60x40
110-115 HRM	60x40
110-115 HRR	60x40

Superficial Rockwell Hardness Block	
Hardness Range	Size
70-77 HR15N	Φ60
78-88 HR15N	Φ60
89-91 HR15N	Φ60
42-54 HR30N	Φ60
55-73 HR30N	Φ60
74-80 HR30N	Φ60
20-31 HR45N	Φ60
32-61 HR45N	Φ60
63-70 HR45N	Φ60
77-80 HR15T	Φ60
80-83 HR15T	Φ60
88-93 HR15T	Φ60
49-56 HR30T	Φ60
57-63 HR30T	Φ60
73-82 HR30T	Φ60
23-33 HR45T	Φ60
34-43 HR45T	Φ60
58-72 HR45T	Φ60

Webster Hardness Block	
Hardness Range	Size
10HW	10*100*1.6mm
16HW	10*100*1.6mm

Barcol Hardness Block	
Hardness Range	Size
36-41 Ba	30*1.6mm
82-84 Ba	30*1.6mm

Hammer Brinell Hardness Block	
Hardness Range	Size
177-250 HBW5/750	12*12*150mm
250-650 HBW5/750	12*12*150mm

Portable Brinell Hardness Block	
Hardness Range	Size
150-6500 HBW10/3000	75*75*20mm
150-650 HBW5/750	75*75*20mm

Shore Hardness Block	
Hardness Range	Size
30HSD (for metal)	64*16mm
60HSD (for metal)	64*16mm
90HSD (for metal)	64*16mm
Shore A (7 pieces) (for rubber)	50*50*8mm
Shore D (3 pieces) (for rubber)	50*50*8mm
Shore A with certificate (6 pieces) (for rubber)	60*6mm

Leeb Hardness Block	
Hardness Range	Size
300-400 HLD	89*55mm
490-570 HLD	89*55mm
590-670 HLD	89*55mm
750-830 HLD	89*55mm
840-880 HLD	89*55mm
300-430 HLG	120*70mm
460-540 HLG	120*70mm
550-630 HLG	120*70mm
687-925 HLDL	89*55mm
481-850 HLD+15	89*55mm
525-905 HLC	89*55mm
450-813 HLE	89*55mm
490-830 HLDC	89*55mm



Hardness Indenter	
Type	Size
Rockwell hardness tester use	Ø1.588 ball indenter (B, F, G, J scale)
	Ø3.175mm ball indenter (E, H, K scale)
	Ø12.75mm ball indenter (R scale)
	120° Diamond indenter (A,C,D,N scale)
Brinell hardness tester use	Ø1mm ball indenter
	Ø2.5mm ball indenter
	Ø5mm ball indenter
	Ø10mm ball indenter
Vickers hardness tester use	136° Diamond indenter (Micro Vickers)
	136° Diamond indenter (Macro Vickers)
Knoop hardness tester use	172° 30' & 130° Diamond indenter
Steel Ball	Ø1mm
	Ø1.588mm
	Ø2.5mm
	Ø5mm
	Ø10mm
	Ø12.75mm

Parts of Leeb hardness tester		
Item Name	Type	Photo
Impact Device	D / DC	
	C	
	D+15	
	G	
	DL	
	DR (5-20mm)	
	SDC (Short type)	
	400°C	
	Loading-Unloading one time process type 	
Impact Body	D / DC	
	C	
	G	
	DL	
Ball head	3MM (for D;DC;C;DL;D+15)	
	5MM (for G)	
Impact device line	LHM	
Support ring	SR (12 pieces)	



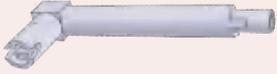
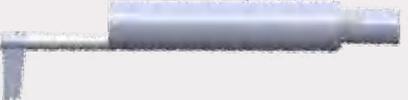
Ultrasonic Flaw Detector Probe Type	0.2MHz~10MH, 30°/45°/60°/70°/80°
Angle Beam Probe	6×6, 8×9, 10×10
Angle Beam Probe	13×13, 14×16, 18×18
Angle Beam Probe	20×20, 20×22
Angle Beam Probe	30×30
Straight Beam Probe (softfilm)	Φ6, Φ8, Φ10, Φ12
Straight Beam Probe (softfilm)	Φ14, Φ16, Φ20,Φ24
Straight Beam Probe (softfilm)	Φ25, Φ30
Dual Element Beam Probe (Softfilm)	Φ8, Φ10, Φ12
Dual Element Beam Probe (Softfilm)	Φ14, Φ20
Dual Element Beam Probe (Softfilm)	Φ25, Φ30
Immersion Probe	Φ10, Φ14
Immersion Probe	Φ20, Φ25
Water filled Probe	Φ20, Φ25
Small Angle Probe	Φ14, Φ20
Small Angle Probe	Φ25, 18×18
Dual Element Straight Beam Probe (Softfilm)	8×9, 10×12
Variable Angle Probe	10×10, 10×12
Plate Wave Probe	20×30
Small-diameter Probe	5×5, 5×7
Creeping Wave Probe	8×12, 6×6
Surface Wave Probe	10X12

Note: 1.The probe price mainly depends on the crystal size. And the frequency can be chosen by yourself in the range of 0.2MHz~10MHz. For other parameters like angle, we can provide the general angles such as 30° , 45° , 60° , 70° , 80° and so on. You can chose by yourself.

Test Block For Ultrasonic Flaw Detector

<p>V1 test block</p>	
<p>V2 test block</p>	

Parts of Surface Roughness Tester

	<p>SR55 - Extension rod. Used to extend length of sensor when testing deep hole (55mm)</p>
	<p>SR90 - Right angle measuring mechanism.</p>
	<p>SR100 - standard sensor, plane & shaft & inner surface of hole >6mm, depth <22mm</p>
	<p>SR120 -small hole sensor, cylindrical & plane & inner surface of hole >2 mm, depth <9mm</p>
	<p>SR110 -sensor for curved surface & plane, cylindrical, curvature radius >3 mm, work with platform SR620</p>
	<p>SR131 -sensor for deep groove, cylindrical & plane & groove width >3 mm, depth <10mm work with platform SR620</p>
	<p>Mini Pinter External printer</p>
	<p>Roughness comparison block High quality comparison block of surface roughness Strict anti-rust treatment process 30 comparison block/set</p>
	<p>SR520 -Metal working platform, elevating, convenient and stable for test process.</p>
	<p>SR620 -Marble substrate working platform, elevating, V groove, high accuracy to test tiny work piece.</p>

Our Certificates:



EBP --- Provide solutions for materials preparation, testing and analysis!

One of the leading suppliers in China

Our customers from over 40 countries all over the world. We promise all of our products will be calibrated carefully before delivery, ensure zero defect products delivering. It is efficiently improved our service, quality and avoid bring trouble to our partners / clients. EBP is your best choice and ideal partner!



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