

Polish and Grinding Machine

MODEL MP-2B



Technical specifications

- Diameter of sand paper: Φ 230mm
- Grinding disk: Φ 220mm
- Abrasive wheel speed: 100-1500r/min(stepless)
- Motor: BY802-4variable frequency motor 0.75KW, three phase 220V 0~70Hz
- Outer Dimension: 730x650x300mm
- Net Weight: 55Kg

Structure:

MP-2B type is stepless speed change polishing and grinding machine; the power source is acted by frequency changer and BY802-4 frequency conversion motor that is transmitted to the subpanel by the O shape triangle belt, making the disc rotate. Power switch and frequency conversion button installed on the side of the body and board, there is connecting to the power and press the frequency conversion button, there can choose the various speeds, which is the abrasive wheel speed and indicated on the frequency conversion, double of polishing as the grinding disc speed.

Application :

In the process of metallographic specimen, it is very important for polish and grind, as usual, it is adopted to metallographic pre-grinding machine and polish machine. Our company designs a new type stepless polish-grinding machine MP-2B, it is can finish different rough, fine, dry, wet grinding and processes of polish. The polish-grinding discs are larger than of the same kind machine of domestic, it is increased the effective 20%-30% working surface, adapted to different kinds of material make

Low speed Precise Specimen Cutting Machine

MODEL DTQ-5

Model DTQ-5 Low speed precise specimen cutting machine is suitable for the precise cutting of various hard materials. It is especially suitable for the precise cutting of all kinds of small metal, non-metal pieces and various electronic components. This machine can be equipped with diamond saw blade and other resin blade so as to meet the demands of cutting of various specimens. Many specimen clamping grippers are equipped with this machine and it can realize the positioning cutting at best angle for the workpieces. It can also realize workpiece processing without being watched. The main shaft features high running speed and the horizontal feeding position of the workpiece being processed can be adjusted precisely. It is the ideal metallography specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



Technical specifications

- Movable stand travel: 25mm
- Positioning accuracy: 0.01mm
- Rotating speed of main shaft: 0-700 rpm.
- Diameter of blade: Φ 100mm - Φ 150mm
- Power supply: 220V/110V, 50Hz
- Dimensions: 35 x 35 x 20 cm
- Weight: 18.5 Kg

Precision Cutting Machine

MODEL GTQ-5000



Technical specifications

- Feed speed: 0 ~ 30mm/min (adjusted step length 0.1mm)
- Grinding wheel speed: 300 ~ 5000rpm
- Maximum cutting diameter: ϕ 60mm
- The largest travel: X-axis 220mm; Y-axis 25mm
- Cutting blade size: 200mm(diamond)
- Cutting power: 1500W
- Power supply: 220V 50HZ
- Dimensions: 800mm $\times$ 720mm $\times$ 600mm
- Weight: 135kg

It is suitable for metal, electronic components, ceramic materials, crystals, carbide, rock samples, ore samples, concrete, organic materials, biological materials (teeth, bone) and other materials for precise cutting without distortion .

The device can be a continuous sheet cutting; positioning accuracy is high; speed range large; cutting ability; built-in cooling system; can be pre-set feed speed; menu-driven control; liquid crystal display; There are two locations you can clamp; nine kinds of Fixed cutting method, the user can freely define one kinds of cutting methods; enclosed cutting chamber with safety switch. Is the industrial and mining enterprises, research institutes, high-quality sample preparation is one of the ideal equipment.

Precision Cutting Machine

MODEL GTQ-5000B

This machine is suitable for metal, electronic components, crystal, hard alloy, rock, ore, concrete, organic material, biological material(tooth,bone) and other materials, so, it's an ideal equipment for the industrial and mining enterprises and the scientific research institute.

Technical specifications

- Feed speed: 0-30mm/min (adjust 0.1mm)
- Wheel speed: 300-5000rpm
- Max. cutting diameter: $\Phi 60$ mm
- Max. stroke: Y 200mm
- Cutting blade diameters: 100mm,150mm,200mm
- Cutting power:1100W
- Power supply: 220V, 50HZ
- Dimension: 700 x 720 x 410mm (L x D x H)
- Weight: approx. 170kg

Features:

- Set high precision location and have large speed range
- Cutting ability is strong
- Built-in recirculating cooling System
- Preset feed speed and menu control with touch screen
- There are 9 kinds of fixed cutting methods and 1 kind of cutting method defined by user freely
- Closed cutting room with safety switch



Metallographic Specimen Cutting Machine

MODEL METACUT-100

Technical specifications

- Max. cutting diameter: $\Phi 100$ mm
- Rotating speed of main shaft: 2300 rpm
- Sand wheel specification: 350 x 2.5 x 32mm
- Automatic feeding speed: 0-180mm/min
- Cutting disc upward and downward moving distance: 0-50mm
- Forward and backward moving distance: 0-340mm
- Working table size: 430 x 400 mm
- Motor power: 3 KW
- Power supply: 380V, 50Hz (three phases)
- Dimensions: 970 x 940 x 650mm
- Weight: approx. 307kg.

Features:

- Quick clamping vice.
- LED lighting system
- Main shaft of cutting disc is movable upward and downward
- Two working modes of Intermittent cutting and continuous cutting
- 60L water cooling system



Model METACUT-100 Metallographic specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallographic or lithofacies structure. It is a kind of Manual/Automatic cutting machine and can be switched between Manual and Automatic modes at will. Under automatic working mode, the cutting can be finished without human operation. The machine has large work table and long cutting length which make it possible to cut large samples. The main shaft of cutting disc can also move upward or downward which can prolong the using life of cutting disc greatly. The machine has cooling system so as to clear up the heat produced during cutting and avoid to burn the metallographic or lithofacies structure of specimen because of superheat. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Metallographic specimen grinding & polishing machine

MODEL MP-2



Technical specifications

- Diameter of grinding disc: $\Phi 230$ mm, rotating speed 450 rpm (or customized)
- Diameter of polishing disc: $\Phi 200$ mm, rotating speed 600 rpm (or customized)
- Motor power: 370W
- Power supply: Single phase, 220V, 50Hz
- Dimensions: 70 x 60 x 28 cm
- Net weight: 40Kg

Model MP-2 Metallographic specimen grinding & polishing machine is equipped with double discs, and it can finish grinding or polishing with two different speeds. The rotating speed of left disc (pre-grinding disc) is 450 rpm and right disc (polishing disc) is 600 rpm. With double disc and different grinding and polishing materials, it can realize the process of rough grinding, fine grinding, rough polishing and finishing polishing. This machine features easy operation and economical applying. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Metallographic Specimen Grinding & Polishing Machine

MODEL MP-2B



Technical specifications

- Digital display of rotating speeds of grinding and polishing discs
- Diameter of grinding disc: Ø230mm, rotating speed 50-1000 rpm
- Diameter of polishing disc: Ø200mm, rotating speed 50-1000 rpm
- Diameter of sand paper: Ø200mm
- Motor: 550W
- Power supply: Single phase, 220V, 50Hz
- Dimensions: 70 × 60 × 28 cm
- Net weight: 45 Kg



Model MP-2B Metallographic specimen grinding & polishing machine is equipped with double discs and features stepless speed changing grinding and polishing. It can finish the whole process of rough grinding, fine grinding, rough polishing and finishing polishing for specimen preparing. By adjusting the transducer, it can realize the rotating speed of grinding and polishing disc adjustable from 50 to 1000 rpm. This brings this machine with much more extensive applying and makes it become the necessary metallographic specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Specimen Mounting Press (Timer)

MODEL XQ-2B METALLOGRAPHY

Model XQ-2B Metallography specimen mounting press is suitable for the thermohardening plastic pressing of the small metallography specimen which is not idiomorphic or hard to take. After forming, it will be very easy to process the grinding, polishing of the specimen and it is also convenient to process measuring of metallographic structure under metallographic microscope. The machine may work stably under the following working condition:

1. The temperature of surrounding medium can not be less than 10 °C and more than 40 °C;
2. The relative humidity of air should be no more than 85% (20 °C);
3. There should be no obvious vibration source around;
4. There should be no current conducting dust, explosive and corrosive air.

Technical specifications

- Diameter of specimen: Ø22×15mm, Ø30×15mm, Ø45×18mm
- Heater: 650W, 220V
- Temperature adjusting range: 100-180 °C
- Control power supply: 220V 50Hz. The voltage fluctuation should be no more than 15%.
- Dimensions: 34 × 27 × 40 cm
- Net weight: 33Kg



Metallographic Specimen Cutting Machine

MODEL Q-100B MANUAL / AUTOMATIC



Model Q-100B manual / automatic metallographic specimen cutting machine is equipped with big cutting room and movable T-shape work table. Therefore this machine has the ability of cutting rectangle and large specimens. Also the equipped separate type vice is very convenient for operator to clamp various heterotypic work pieces.

Technical specifications

- Various cutting data can be displayed on high definition backlight type LCD screen.
- Cutting diameter: Ø5-100mm
- Cutting volume: Ø100mm x 200mm
- Manual cutting and automatic cutting means can be switched at will
- Large cutting chamber, tempered glass observing window
- Equipped with 60L cooling liquid water tank.
- Non-burning loss swing type cutting means that improved the cutting quality
- Automatic withdraw function after cutting is finished
- Bidirectional feeding means increase the length of deep cutting
- Cutting speed: 2.25, 3, 4, 5, 7, 9, 12, 15mm/min.
- Sand wheel rotating speed: 2100rpm
- Sand wheel specification: 350 x 2.5 x 32mm
- Display: LCD with high resolution backlit dot matrix
- Power: three phases with four cables, 380V, 50Hz.
- Dimensions: 930 x 700 x 610mm
- Net weight: 220 KG

Metallographic Specimen Cutting Machine MODEL SQ-80



Technical specifications

- Power supply: 380V, 50Hz (three phases)
- Rotating speed of main shaft: 2800 rpm
- Max. cutting diameter: Ø80mm
- Sand wheel specification: 250 x 1.2 x 32mm
- Motor: Y2-1001-2, 3.0 KW



Model SQ-80 Metallography specimen cutting machine can be used to cut various metal and non-metal materials so as to get specimen and observe the metallography or lithofacies structure. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography or lithofacies structure deforming of specimen because of heating fluence. This machine features easy operation and reliable safety. It is the necessary specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

Automatic Metallography & Lithofacies Specimen Mounting Press MODEL ZXQ-1

Model ZXQ-1 Automatic mounting press is used to inlay small specimens, specimens in irregular shapes, or specimens which are not easy to hold. It is the prevenient process before grinding and polishing metallurgical or rock specimens. 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 metallurgical microscope.

This machine is heated, and intensified with pressure automatically. After the formation of the specimen under pressure, it stops the operation and discharges the pressure also in an automatic way. With another press of the knob, the machine automatically turns up the specimen, which may be taken away. Note: It is only for the hot solid materials (such as urea-formaldehyde moulding powder and bakelite powder) with the temperature automatically regulated and contolled.



Technical specifications

- Diameter of specimen: Ø22mm or Ø30mm or Ø45mm
- Power supply: 220V, 50Hz
- Heater: 650W
- Transducer: 300W
- Max. power consumption: 1000W
- Dimensions: 38 × 35 × 42 cm
- Net weight: 50Kg

Automatic Metallography & Lithofacies Specimen Mounting Press MODEL ZXQ-1

Model ZXQ-5 automatic metallography specimen mounting press is a kind of full automatic mounting press, equipped with in-out water cooling system. It is suitable for the heat mounting (thermohardening & thermoplastic) for all kinds of materials. After the parameters such as heating temperature, heat preserving time and applied force etc. are set up, put the specimen and mounting material into the machine, close the cover and press the start button, then the machine will finish the job automatically. It is not necessary for the operator to be on duty. According to different requirements of the material, there are four kinds of moulds that can be chosen to meet the demands at will. Also it is available to prepare two pieces of specimens at the same time, the capacity is doubled.



Technical specifications

- Diameter of specimen: Ø25mm, Ø30mm, Ø40mm, Ø50mm
- Power supply: 220V, 50Hz
- Max. power consumption: 1800W
- Setting range of system pressure intensity: 0-2MPa (corresponding preparing pressure intensity: 0-72MPa)
- Temperature setting range: 0-300 °C
- Heat preserving time: 0-99m99s
- Dimensions: 615 × 510 × 500 cm
- Net weight: 110Kg
- Cooling method: water cooling

CCD Image Processing System

- The CCD image processing system can finish the process automatically: measurement of the diagonal length of indentation, hardness value display, testing data and image saving, etc.
- It is available to preset the upper and lower limit of hardness value, the testing result can be inspected whether it is qualified automatically.
- Proceed hardness testing on 20 test points at one time (preset the distance between test points at will), and save the testing results as one group.
- Converting between various hardness scales and tensile strength
- Inquire the saved data and image at any time
- Customer may adjust the accuracy of the measured hardness value at any time according to calibration of Hardness Tester



MicroHardness Tester

MODEL HV-1000A

Features:

- Automatic turret shifting between penetrator and object lens.
- Built-in printer
- RS232 interface
- High resolution and high brightness LCD display

Specifications:

- Hardness measuring range: 5-3000HV
- Test force: 0.09807, 0.2452, 0.4904, 0.9807, 1.961, 2.942, 4.904, 9.807N
(10, 25, 50, 100, 200, 300, 500, 1000 gf)
- Magnifications of the measuring system: 400X, 100X
- Measuring resolution: 0.25 μ m
- Depth of throat: 110 mm
- Dimensions: 470 x 320 x 500 mm
- Max. height of test piece: 75 mm
- Power supply: 220V/110V AC, 50Hz
- Weight: approx. 40 kg

Main accessories:

- Coordinate anvil: 1 pc.
- Thin plate anvil: 1 pc.
- Large V-notch anvil: 1 pc.
- Diamond pyramid penetrator: 1 pc.
- Thin shaft anvil: 1 pc.
- Flat nose pliers: 1 pc.
- Small V-notch anvil: 1 pc.
- Micro-Vickers standardized block: 2 pcs.



Digital Display MicroHardness Tester

MODEL HVS-1000A

Features:

- Automatic turret shifting between penetrator and object lens.
- Built-in printer
- RS232 interface
- High resolution and high brightness LCD display
- Inside light source color can be changed as per customer's demands

Specifications:

- Hardness measuring range: 5-3000HV
- Test force: 0.09807, 0.2452, 0.4904, 0.9807, 1.961, 2.942, 4.904, 9.807N
(10, 25, 50, 100, 200, 300, 500, 1000gf)
- Magnifications of the measuring system: 400X, 100X
- Measuring resolution: 0.025 μ m
- Depth of throat: 110 mm
- Dimensions: 470 x 320 x 500 mm
- Max. height of test piece: 75 mm
- Power supply: 220V/110V AC, 50Hz
- Weight: approx. 50 kg

Main accessories:

- Coordinate anvil: 1 pc.
- Thin plate anvil: 1 pc.
- Large V-notch anvil: 1 pc.
- Diamond pyramid penetrator: 1 pc.
- Thin shaft anvil: 1 pc.
- Flat nose pliers: 1 pc.
- Small V-notch anvil: 1 pc.
- Micro-Vickers standardized block: 2 pcs.



Video Measuring Apparatus

MODEL SP-5

Features:

- Direct indentation image display on LCD and direct hardness measurement through LCD.
- Double functions are optional for measuring microscope.
- SP-5 can be mounted onto our Vickers and micro-Vickers hardness testers (200HV-5, 200HVS-5, 310HVS-5, HV-1000A, HV-1000B, HVS-1000A and HVS-1000B etc.)

Specifications:

- SP-5 is equipped with digital microscope (with rotary encoder) and combined with 40X objective lens: Resolution: 0.01um
- SP-5 is equipped with manual microscope (without rotary encoder) and combined with 40X objective lens: Resolution: 0.125um
- SP-5 is equipped with digital microscope (with rotary encoder) and combined with 10X objective lens: Resolution: 0.04um
- SP-5 is equipped with manual microscope (without rotary encoder) and combined with 10X objective lens: Resolution: 0.5um
- Measuring range: Combined with 40X objective lens: 0.8 mm
- Combined with 10X objective lens: 1 mm
- Optical system: Total magnification: 400X (measurement)
100X (measurement)
- CCD system:
 - Horizontal definition: 570 lines
 - Display mode: Black and white
 - Input voltage: DC12V±10%
- LCD display system:
 - Screen size: 8"
 - Input voltage: DC12V±10%
- Voltage stabilizer input voltage: 220V, 50Hz
- Power consumption: ≤20W
- Dimensions: Ø47×170mm
- Weight: 1 kg

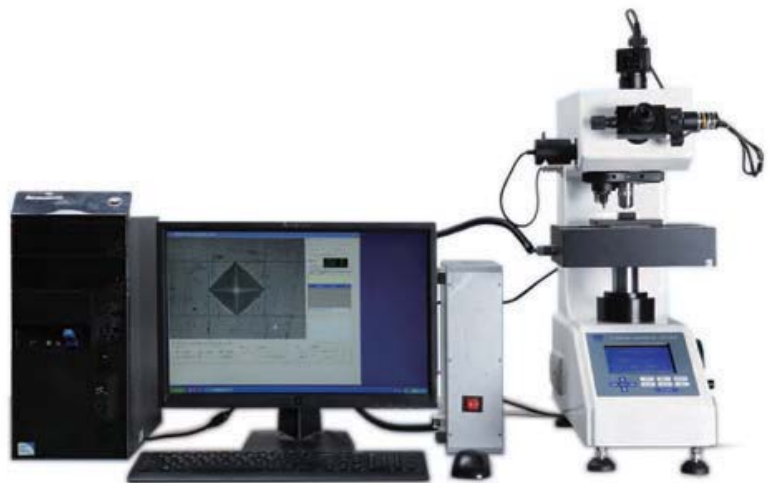


Semi-automatic/Automatic hardness tester

MODEL AHVD-1000XY/AHVD-1000XYZ

Features:

- Automatic control the hardness
- Automatic test, measure, save and output excel
- Program & save measure project
- Customizable interface and function
- Locklogin image and analysis
- Optional measure methods various output type
- Various control methods of large bottom plate



Model	AHVD-1000XY	Shift object lens to indenter	Automatic
Scale	HV0.01-HV0.2	Accuracy	≤1μm(distance of object lens to indentation)
Conversion Scale	free	Specimen size	Max length:85mm Max depth:120mm
Force	10g-1kg	Size&weight	490*185*515(L*W*H)mm , 45KG
Mini.unite	0.01μm	Light	LED cold light source (constant use ,1 million hours work service)
Test range	1-4000HV	Power	220V+5%, 50/60Hz
Total Magnification	1600X	Automatic bottom plate	200*200mm
Loading Method	Automatically	output	Word, excel, PDF
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	1 Pc : Diamond indenter, Flat Fixture; Small Parts Fixture; case; measure software;CCD sesor; objective stable;documents 2 Pc: Hardness block		

Multifunction digital micro hardness tester

MODEL MHVD-1000AP



Features:

- Convenient and fast test, outstanding accuracy and repeatability
- Imported elements, stable performance
- Smooth lifting shaft, less errors
- Show the hardness tester value of specimen directly on the screen
- 5.6 inch screen more information
- Coating adopted car paint technology with white color.
- Built-in printer



Model	MHVD-1000AP	Shift object lens to indenter	Automatic
Scale	HV0.01-HV2	Accuracy	≤1μm(distance of object lens to indentation)
Conversion Scale	free	Specimen size	Max length:85mm Max depth:120mm
Force	10g-1kg	Size&weight	490*185*515(L*W*H)mm , 45KG
Mini.unite	0.01μm	Light	LED cold light source (constant use ,1 million hours work service)
Test range	1-4000HV	Power	220V+5%, 50/60Hz
Total Magnification	100X, 400X	Automatic bottom plate	100*100mm
Loading Method	Automatically	output	Built-in printer.RS-232interface
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	1 piece: 10X Omron digital micro eyepiece; 10X&40X objective lens; Vickers indenter; X-Y Testing Table; Flat Fixture; Small Parts Fixture; Level bubble vail; Power Cable; Dust-proof cover; Instruction Book; Certificate of quality; Warranty Card; Accessory case software CD; 2 pieces: Standard block of hardness; 4 pieces: horizontal adjusting screw		
Optional purchase parts	Image Analysis Software; Metallographic Structure device; Knoop Indentor; Knoop Hardness Block; 15X micrometer eyepiece; 2.5X Objective lens; 20X Objective lens; 60X Objective lens		

Multifunction double indenters digital micro Knoop hardness tester

MODEL MHVKD-1000MP/MHVKD-1000AP

Features:

- Have Vickers and Knoop hardness tester
- Double indenters and object lens
- Imported elements ,stable performance
- Smooth lifting shaft ,less errors
- Show the hardness tester value of specimen directly on the screen
- 5.6 inch screen more information
- Coating adopted car paint technology with white color.
- Built-in printer



Model	MHVKD-1000AP	Shift object lens to indenter	Automatic
Scale	HV0.01-HV2/HK0.01-HK2	Accuracy	≤1μm(distance of object lens to indentation)
Conversion Scale	free	Specimen size	Max length:85mm Max depth:120mm
Force	10g-1kg	Size&weight	490*185*515(L*W*H)mm , 45KG
Mini.unite	0.01μm	Light	LED cold light source (constant use ,1 million hours work service)
Test range	1-4000HV(HK)	Power	220V+5%,50/60Hz
Total Magnification	100X, 400X	Automatic bottom plate	100*100mm
Loading Method	Automatically	output	Built-in printer.RS-232interface
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	1 piece: 10X Omron digital micro eyepiece; 10X and 40X objective lens; Vickers &Knoop indenter; X-Y Testing Table; Flat Fixture; Small Parts Fixture; Level bubble vail; Power Cable; Dust-proof cover; Instruction Book; Certificate of quality; Warranty Card; Accessory case software CD; 2 pieces: Standard block of hardness; 4 pieces: horizontal adjusting screw		
Optional purchase parts	Image Analysis Software; Metallographic Structure device; Knoop Indentor; Knoop Hardness Block; 15X micrometer eyepiece; 2.5X Objective lens; 20X Objective lens; 60X Objective lens		

Multifunction Digital Micro Vickers Hardness Tester

MODEL MHVD-10MP/30MP/50MP(MHVD-10AP/30AP/50AP)



Features:

- Precision Sensor, Accurate
- Wide scale of testing, More Experiment
- Imported elements, stable performance
- Show the hardness tester value of specimen directly on the screen
- Coating adopted car paint technology with white color.
- Built-in printer



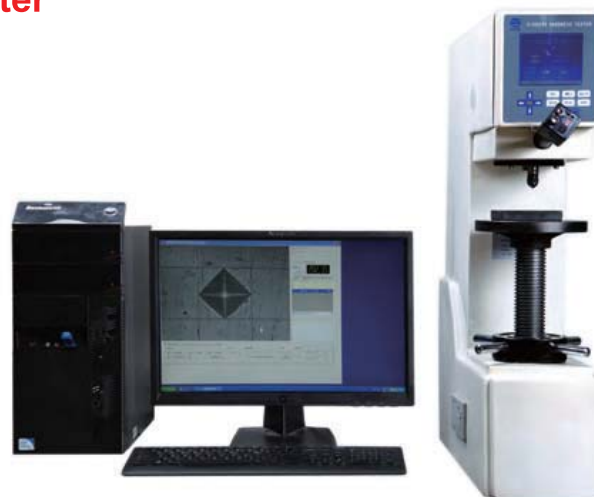
Model	MHVD-10AP	Shift object lens to indenter	Automatic
Scale	HV0.5-HV10	Accuracy	$\leq 1\mu\text{m}$ (distance of object lens to indentation)
Conversion Scale	free	Specimen size	Max Height:220mm Max depth:150mm
Force	500g-10kg	Size&weight	560*185*635(L*W*H)mm , 55KG
Mini.unite	0.02 μm	Light	LED cold light source (constant use, 1 million hours work service)
Test range	1-4000HV	Power	220V+5%, 50/60Hz
Total Magnification	100X, 400X	Sensor	Accuracy:0.005 Sensitivity:1.0mv/V
Loading Method	Automatically	output	Built-in printer.RS-232interface
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	1 piece: 10X Omron digital micro eyepiece; 10X and 40X objective lens; X-Y Testing Table; Flat Fixture; Small Parts Fixture; Level bubble vail; Power Cable; Dust-proof cover; Instruction Book; Certificate of quality; Warranty Card; Accessory case software CD; 2 pieces: Standard block of hardness;Hardness tester block; 4 pieces: horizontal adjusting screw		
Optional purchase parts	Image Analysis Software; Metallographic Structure device; Knoop Indentor; Knoop Hardness Block; 15X micrometer eyepiece; 2.5X Objective lens; 20X Objective lens; 60X Objective lens		

Multifunction Image Brinell Hardness Tester

MODEL MHBD-3000IS

Features:

- Customizable interface and function
- Optional measure methods various output type
- Precision Sensor, Accurate
- Operation by only a key ,more convenient and fast
- 5.6 inch screen more information
- Strong and Stable
- Imported elements, stable performance



Model	MHBD-3000IS	Scale	HBW2.5/62.5-HBW10/3000
Hardness value	8-650HBW	Specimen size	Max Height:220mm Max depth:130mm
Conversion Scale	free	Size&weight	550*210*750(L*W*H)mm , 120KG
Force	62.5-3000kg	Light	LED cold light source (constant use ,1 million hours work service)
Mini.unite	0.00125mm	Power	220V+5%,50/60Hz
Total Magnification	20X	Shift lens to indenter	Automatic
Loading Method	Automatically	output	Word ,excel, pdf.
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	1 piece: 10X Omron digital micro eyepiece; 10X and 40X objective lens; X-Y Testing Table; Flat Fixture; Small Parts Fixture; Level bubble vail; Power Cable; Dust-proof cover; Instruction Book; Certificate of quality; Warranty Card; Accessory case software CD 2 pieces: Standard block of hardness;Hardness tester block 4 pieces: horizontal adjusting screw		
Optional purchase parts	Image Analysis Software; Metallographic Structure device; Knoop Indentor; Knoop Hardness Block; 15X micrometer eyepiece; 2.5X Objective lens; 20X Objective lens; 60X Objective lens		

Digital universal hardness tester

MODEL HBRVD-187.5



Features:

- Brinell, Rockwell, Vickers
- Precision Sensor, Accurate
- Imported elements, stable performance
- 5.6 inch screen more information
- Built-in printer



Model	HBRVD-187.5	Scale	HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW2.5/187.5 HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HV30, HV100
Hardness value	8-650HBW	Specimen size	Max Height:170mm Max depth:140mm
Conversion Scale	free	Size&weight	465*180*655(L*W*H)mm , 95KG
Force	500g-10kg	Accuracy of sensor	0.001mmm
Total Magnification	37.5X, 75X	Power	220V+5%,50/60Hz
Loading Method	Automatically	output	Built-in printer:RS-232
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	Rockwell diamond indenter 1 piece, Vickers diamond indenter 1 piece, Φ 1.588mm, Φ 2.5mm, Φ 5mm, hard alloy ball indenter 1 piece, measuring microscope 1 set(install in the machine), large, medium, "V" shape, and slide test platform each 1 piece, hardness block 5 pieces, accessory box 1 set, dust-proof cover 1 set, power cable 1 piece, manual instruction, certificate of quality, warranty card each 1 piece.		
Optional purchase parts	Image Analysis Software; Metallographic Structure device; Hardness Block; 15X micrometer eyepiece; 2.5X Objective lens; 20X Objective lens; 60X Objective lens		

Digital Rockwell hardness tester

MODEL HRS-150D

Features:

- Automatic,Stable
- Precision Sensor, Accurate
- 5.6 inch screen more information
- Built-in printer
- Coating adopted car paint technology with white color



Model	HRS-150D	Scale	HRA,HRB,HRC,HRD,HRE,HRF,HRG,HRH,HRR,HRL,HRM
Hardness value	Standard	Specimen size	Max Height:170mm Max depth:140mm
Conversion Scale	free	Size&weight	465*180*655(L*W*H)mm , 85KG
Force	60kg-150kg	Accuracy of sensor	0.001mmm
Basal	10kg	Power	220V+5%,50/60Hz
Loading Method	Automatically	output	Built-in printer:RS-232
Dwell Time	1-99s	criterion	GB/T4340,ASTM E384&E92,EN-ISO 6507,JIS B-7734)
Normative parts	Diamond Rockwell Indenter one piece, 1.588mm diameter Hard Alloy Steel Ball Indenter 1 piece, 1.588 mm diameter steel ball 5 pieces, Large Testing Table 1 piece, Medium Testing Table 1 piece and V-shaped Testing Table 1 piece, Standard Hardness Blocks 3 pieces, accessory case 1 piece, dust-proof cover 1 piece, instruction 1 piece, certification 1 piece and warranty card 1 piece.		
Optional purchase parts	Indenter ,block		