

**3R Hardness Tester
with automatic dial selection**



This hardness tester is used for determining Rockwell hardness of hard alloys, quenched and unquenched steels. It can be applied in the laboratories of factories, scientific research institutes and colleges. It conforms to IS: 3804-1966 and BS: 891-1962 part I and Part II for Rockwell test.

Specifications:

Maximum Load	330lbs
Load Range	132lbs, 220lbs, 330lbs
Initial Range Load	22lbs
Maximum Test Load	4-1/4"
Depth of Throat	5-1/4"
Max. Depth of Spindle Below Base	2"
Base Size	7"x18"
Height	"1/2-24
Approx. Weight	150lbs

Standard Accessories

- 5-3/4" testing table.
- 2-3/16" testing table.
- 2-3/16" testing table with "V" groove.
- 120i Diamond penetrator.
- 1/16" Steel ball penetrator.
- Rockwell A test block (1pcs)
- Rockwell B test block (1pcs)
- Rockwell C test block (1pcs)
- Screwdriver (2pcs)
- Complete instruction manual
- Dust proof plastic cover.

Order No. 950-1000

Rockwell Hardness Tester



This tester is designed for use in measuring the Rockwell hardness of hard alloys, quenched and unquenched steels. As its frame is higher than that of conventional type so that it is a desired instrument for determining the hardness of large sized workpieces in the factories and repair workshops.

Specifications

- Measuring range: 20-88HRA, 20-100HRB, 20-70HRC
- Test force: 588.4, 980.7, 1471N (60,100,150kgf)
- Max. height of test piece: 400mm
- Depth of throat: 160mm
- Dimensions: 548 x 326 x 1025mm
- Weight: approx. 140kg

Main accessories

- Large flat anvil: 1 pc.
- Small flat anvil: 1 pc.
- V-notch anvil: 1 pc.
- Diamond cone penetrator: 1 pc.
- 1/16" steel ball penetrator: 1 pc.
- Rockwell standardized block: 5 pcs.

Order No. 950-1002

Motor-Driven Plastic Rockwell Hardness Tester



This tester can be used to determine the hardness of plastic, composite materials and all kinds of friction materials, soft materials, nonmetal soft materials. A specific automatic zeroing dial gauge, an automatic loading and unloading mechanism are adopted in it, so that the measuring accuracy is high and the performance is reliable.

Specifications

- Measuring range: 70-100HRE, 50-115HRL, 50-115HRM, 50-115HRR
- Test force: 588.4, 980.7, 1471N (60, 100, 150kgf)
- Max. height of test piece: 150mm
- Depth of throat: 135mm
- Min. scale value: 0.5HR
- Power supply: 220V or 110V AC, 50/60Hz
- Dimensions: 505 x 240 x 700mm
- Weight: approx. 70kg

Main accessories

- Large flat anvil: 1 pc.
- Small flat anvil: 1 pc.
- V-notch anvil: 1 pc.
- Steel ball penetrator: 1/8", 1/4", 1/2" 1 pc. each
- Plastic Rockwell standardized block: 4 pcs.

Order No. 950-1005

Hammer Hitting Type Brinell Hardness Tester



This tester can measure the Brinell hardness of ferrous and non-ferrous metals and tensile strength of steel. It is widely applied in workshops and material store houses.

Specifications

- Measuring range: <450 HBS
- Diameter of steel ball: Dia. 10mm
- Dimensions: Dia. 25mm x 110mm
- Weight: approx. 0.5kg

Main accessories

- Brinell standardized block(special size): 2 pcs.
- 20X Readout microscope: 1 pc.

Order No. 950-1107

Motor-Driven Rockwell Hardness Tester

This tester is a necessary instrument widely used in the fields of machine building, metallurgy and measurement department, for determining the Rockwell hardness of ferrous, non-ferrous metals, non-metal materials and their finished parts.

Features

- * A frictionless loading shaft mechanism is adopted in the instrument instead of conventional type. As a result, the accuracy of preliminary test force has been greatly increased.
- * A unique automatic zeroing dial gauge is incorporated in this instrument for measuring the depth of indentation so as to eliminate the human error in the procedure of zero setting.
- * A series of operations involving applying, holding and releasing of total test force is performed automatically. That thoroughly eliminates human error in those operations.

Specifications

Measuring range: 20-88HRA, 20-100HRB, 20-70HRC
 Test force: 588.4, 980.7, 1471N (60,100,150kgf)
 Max. height of test piece: 170mm
 Depth of throat: 130mm
 Min. scale value: 0.5HR
 Power supply: 220V AC or 110V AC, 50/60Hz
 Dimensions: 500 x 250 x 700mm
 Weight: approx. 75kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 Large V-notch anvil: 1 pc.
 Diamond cone penetrator: 1 pc.
 1/16" steel ball penetrator: 1 pc.
 Rockwell standardized block: 5 pcs.

Order NO. 950-1003

Digital Display Rockwell Hardness Tester

This tester is one type of practical semiautomatic hardness measuring instrument. It can be widely applied in the factories, scientific research institutes and laboratories of colleges, for determining the Rockwell hardness of ferrous, non-ferrous metals, non-metal materials and their finished parts.

Features

- * A frictionless loading shaft mechanism is adopted in this instrument instead of conventional type and the application of preliminary test force is controlled by a magnetic clutch, so that the accuracy of preliminary test force is greatly increased.
- * A series of operations including applying, holding and releasing of total test force is performed automatically. That completely eliminates human error in those operations.
- * Reading error by operators can be avoided thoroughly as the measured hardness values are digitally displayed.
- * The measured hardness value and data processing result concerned can be recorded automatically by the recorder.

Specifications

Measuring range: 20-88HRA, 20-100HRB, 20-70HRC
 Test force: 588.4, 980.7, 1471N (60, 100, 150kgf)
 Max. height of test piece: 170mm
 Depth of throat: 130mm
 Unit for display: 0.1HR
 Power supply: 220V AC or 110V AC, 50/60Hz
 Dimensions: 500 x 250 x 700mm
 Weight: approx. 75kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 Large V-notch anvil: 1 pc.
 Diamond cone penetrator: 1 pc.
 1/16" steel ball penetrator: 1 pc.
 Rockwell standardized block: 5 pcs.
 Printer: 1 pc.

Order NO. 950-1004

Portable Brinell Hardness Tester

This tester can be used for determining the Brinell hardness value of ferrous metals whose elasticity moduli approximate to 2.

Specifications

Measuring range: 100-400HBS
 Impact capacity: 4.9J
 Dimensions: $\Phi 55 \times 370$ mm
 Weight: approx. 3.3kg

Main accessories

Brinell standardized block: 1 pc.
 20X Readout microscope: 1 pc.

Order NO. 950-1106

Digital Superficial Rockwell Hardness Tester

This tester can be used to determine the superficial Rockwell hardness value of steel, alloy steel, hard alloy, plated coating, carburized, nitrided and cyanided layers. The hardness value measured can be read off the show window. Features

Features:

- * A frictionless loading shaft mechanism is adopted in this instrument instead of conventional type and the application of preliminary test force is controlled by a magnetic clutch, so that the accuracy of preliminary test force is increased.
- * A series of operations including applying, holding and releasing of total test force is performed automatically. That completely eliminates human error in those operations.
- * Reading error by operators can be avoided thoroughly as the measured hardness values are digitally displayed.
- * The measured hardness value and data processing result concerned can be recorded automatically by the recorder.

Specifications

Measuring range: 70-94HR15N, 42-86HR30N, 20-77HR45N, 67-93HR15T, 29-82HR30T, 10-72HR45T
 Test force: 147.1, 294.2, 441.3N (15,30,45kgf)
 Max. height of test piece: 150mm
 Depth of throat: 120mm
 Power supply: 220V AC or 110V AC,50/60Hz
 Dimensions: 500 x 240 x 700mm
 Weight: approx. 68kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Diamond cone penetrator: 1 pc.
 1/16"steel ball penetrator: 1 pc.
 Superficial Rockwell standardized block: 4 pcs.
 Printer: 1 pc.

Order NO. 950-1007



Motor-Driven Superficial Rockwell Hardness Tester

This tester is a necessary instrument widely used in the fields of machine building, metallurgy and measurement and measurement department, for determining the superficial Rockwell hardness value of steel, alloy steel, hard alloy, plated coating, carburized and nitrided layers.

Features

- * A frictionless loading shaft mechanism is adopted in the instrument instead of conventional type. As a result, the accuracy of preliminary test force has been greatly increased.
- * A series of operations involving applying, holding and releasing of total test force is performed automatically. That thoroughly eliminates human error in those operations.

Specifications

Measuring range: 70-94HR15N, 42-86HR30N, 20-77HR45N, 67-93HR15T, 29-82HR30T, 10-72HR45T
 Test force: 147.1, 294.2, 441.3N (15, 30, 45kgf)
 Max. height of test piece: 150mm
 Depth of throat: 120mm
 Min. scale value: 0.5HRN(T)
 Power supply: 220V AC or 110V AC, 50/60Hz
 Depth of throat: 120mm
 Min. scale value: 0.5HRN(T)
 Power supply: 220V AC or 110V AC, 50/60Hz
 Dimensions: 500 x 250 x 700mm
 Weight: approx. 75kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 1/16"steel ball penetrator: 1 pc.
 Diamond cone penetrator: 1 pc.
 Superficial Rockwell standardized block: 4 pcs.

Order NO. 950-1008



Digital and Superficial Rockwell Hardness Tester

This tester features high measuring accuracy, reliable performance and applicable to wide fields. It is used for hardness testing of all kinds of Rockwell and Superficial Rockwell. It serves to measure the hardness of hard metals, carburized steels, quenched steels, mild steels, hard cast irons, Al, Cu and malleable irons.

This tester has big screen to display. It has a lot of functions such as scale selection, match hint of indenter, contrast for Brinell, Rockwell and Vickers hardness value, keeping the increase and decrease of time, data dispose, storage, pick up, print, adjustment of illuminating brightness, and RS-232 computer output as well.

Suitable range: HRA.B.C.D.E.F.G.H.K and HR15N.T; 30N.T; 45N.T (scale)

Main Specifications

Preliminary test force: 29.4, 98.07N(3, 10Kg)

Total test force: 147.1, 294.2, 441.3, 588.4, 980.7, 1471N (15, 30, 45, 60, 100, 150kgf)

Test force holding time: 0-60 seconds

Test force holding and releasing method: Automatic

Display method: Back light LCD screen

Data dispose: CPU

Others: HR, HB, HV, HK etc. hardness number for contrast

Automatic print

RS232 computer output

Sample Max size: Working table to indenter 180.00mm

The center of the indenter to the arm of the machine: 160.00mm

Dimension (L x W x H): 550 x 260 x 800mm

Net weight: Approx. 67Kg

Power supply: AC 220V, 50/60Hz

Main Accessory

Diamond indenter: 1pc.

Ball indenter: 1pc.

Working tables: 3 pcs.

Hardness blocks: 5 pcs.

(HRC higher 1 pc.)

(HRC lower 1 pc.)

(HRB 1 pc.)

(HRN 1 pc.)

(HRT 1 pc.)

Order NO. 950-1006**Digital Display Low Load Brinell Hardness Tester**

This tester is one new type of Brinell hardness testing instrument which integrates mechanical, optical, electronic and computer's techniques together. It is mainly used for determining the Brinell hardness of cast iron, steel, non-ferrous metals and soft metals, etc. It is especially an ideal testing instrument for hardness measurement of safety parts of plane, automobile and so on.

Features:

* The Graphical User Interface is adopted and the operating system can be changed between Chinese and English. The system adopts quick and convenient menu operation.

* The parameters of every measurement can be autosaved and the testing procedure can be performed automatically.

* The testing data can be processed automatically and the hardness value's converting can also be performed automatically.

* An advanced frictionless loading shaft mechanism is adopted. It can ensure the accurate and reliable test.

Specifications

Measuring range: 4-450HBS, 4-650HBW

Test force: 9.807, 49.03, 98.07, 153.2, 294.2,

612.9N (1, 5, 10, 15.625, 30, 62.5kgf)

Max. height of test piece: 180mm

Depth of throat: 125mm

Magnifications of the optical micrometer: 125X, 50X

Min. value of the optical micrometer: 1 μ m, 2.5 μ m

Power supply: 220/110V AC, 50/60Hz

Dimensions: 580 x 260 x 730mm

Weight: Approx. 90kg

Main accessories:

Large flat anvil: 1 pc.

Small flat anvil: 1 pc.

V-notch anvil: 1 pc.

Steel ball penetrator: Dia.1, Dia.2,

Dia.2.5mm, 1 pc. each

Brinell standardized block: 3 pcs.

Order NO. 950-1101

Electronic Brinell Hardness Tester



This tester is one new type of Brinell hardness tester which integrates mechanical and electronic techniques together, it would be the renewing product of Brinell hardness tester. It can be used for determining the Brinell hardness of unquenched steels, cast iron, non-ferrous metals and soft bearing alloys, etc.

Features:

- * The system will acquiesce all the parameters of last measurement after starting up.
- * Automatic protections are realized when over loading and position exceeding.
- * The operating functions are quick and convenient. The operating system can be changed between Chinese and English.
- * There are no weights in this tester and the test force is applied by electric power.

Specifications

Measuring range: 4-450HBS, 4-650HBW
 Test force: 612.9,980.7,1225.9,1838.8,2451.8,4903.5,7355.3,9807,14710.5,29421N
 (62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000kgf)
 Max. height of test piece: 240mm
 Depth of throat: 180mm
 Power supply: 220V AC, 50Hz
 Dimensions: 630 x 250 x 1000mm
 Weight: Approx. 250kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Steel ball penetrator: Dia. 2.5, Dia. 5, Dia. 10mm, 1 pc. each
 Brinell standardized block: 2 pcs.
 20X Readout microscope: 1 pc.

Order NO. 950-1100

Brinell Hardness Tester



This Brinell Hardness Tester is equipped with an electrical changeover switch. It can be used for determining the Brinell hardness of unquenched steels, cast iron, non-ferrous metals and soft bearing alloys, etc.

Specifications

Measuring range: 8-450HBS, 8-650HBW
 Test force: 1.839, 2.452, 7.355, 9.807, 29.42KN (187.5, 250, 750, 1000, 3000kgf)
 Max. height of test piece: 230mm
 Depth of throat: 120mm
 Power supply: 220V AC or 110V AC, 50/60Hz
 Dimensions: 700 x 268 x 842mm
 Weight: approx. 210kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Steel ball penetrator: Dia.2.5mm, Dia.5mm, Dia.10mm 1 pc. each
 Brinell standardized block: 2 pcs.
 20X Readout microscope: 1 pc.

Order NO. 950-1102

Vickers Hardness Tester 50kg



This tester is widely used in the factories, scientific research institutes, laboratories of colleges and institutes, for determining the Vickers hardness of ferrous and non-ferrous metals, hard alloys, carburized and nitrided layers.

Specifications

Measuring range: 5-2900HV
 Test force: 9.807, 49.03, 98.07, 196.1, 294.2, 490.3N
 (1, 5, 10, 20, 30, 50kgf)
 Max. height of test piece: 180mm
 Depth of throat: 125mm
 Magnifications of the optical micrometer: 125X, 50X
 Min. scale value of the optical micrometer: 1micron
 Power supply: 220V or 110V AC, 50/60Hz
 Dimensions: 580 x 260 x 730mm
 Weight: approx. 90kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Diamond pyramid penetrator: 1 pc.
 Vickers standardized block: 3 pcs.

Order NO. 950-1204



Brinell Hardness Tester

This Brinell Hardness Tester adopts the mechanical changeover switch. It can be used for determining the Brinell hardness of unquenched steels, cast iron, non-ferrous metals and soft bearing alloys, etc.

Specifications

Measuring range: 8-450HBS, 8-650HBW
 Test force: 1.839, 2.452, 7.355, 9.807, 29.42KN (187.5, 250, 750, 1000, 3000kgf)
 Max. height of test piece: 230mm
 Depth of throat: 120mm
 Power supply: 380V AC
 Dimensions: 700 x 268 x 842mm
 Weight: approx. 210kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Steel ball penetrator: Dia.2.5mm, Dia.5mm, Dia.10mm 1 pc. each
 Brinell standardized block: 2 pcs.
 20X Readout microscope: 1 pc.

Order NO. 950-1102



Digital Vickers Microhardness Tester 1000gf

The microhardness Tester allows a quick and precise measurements with the integrated lenses. The digital display in front of the system gives directly hardness values and assures an accurate measurement.

Main Features:

- *Direct reading of micro hardness
- *Touch panel backlit LCD display for ease of use
- *Rigid construction minimizes compliance errors
- *Magnifications Up to 500X
- *automatically calculates hardness using a fast image processing software

Specifications:

Loading Mechanism Automatic load and release method
 Measuring Range 5-3000HV
 Test Force: 9.807, 24.52, 49.04, 98.07, 196.1, 294.2, 490.4, 980.7 mN
 (10, 25, 50, 100, 200, 300, 500, 1000 gf)
 Magnifications 500X, 125X
 Measuring Accuracy 0.025%Im
 Max. Specimen Height 75mm
 Max. Specimen Depth 100mm
 Power 220V 50HZ or 110V 60HZ
 Size 340x160x378mm
 Weight 40kg

Order NO. 950-1201



Low Load Vickers Hardness Tester

The Digital Vickers Hardness Testers incorporate mechanical, optical and electronic techniques and are extremely accurate, easy to use instruments for measuring Vickers Hardness of surfaces and materials with an automatic load and release system. They incorporate a frictionless force loading shaft for a high level of accuracy. Sample holders are available for thin films and cylindrical surfaces. The optical micrometers identify the size of the indents and the instruments then automatically calculate the Vickers hardness that are displayed on the LCD screens.

Specifications:

Measuring range: 5-3000HV
 Test force: 1.961, 2.942, 4.903, 9.807, 19.61, 24.52, 29.42, 49.03N
 (0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5kgf)
 Magnifications of the measuring microscope: 500X, 125X
 Min. scale value of the measuring microscope: 0.25micron
 Max. height of test piece: 130mm
 Depth of throat: 100mm
 Power supply: 220/110V AC, 50/60Hz
 Dimensions: 438 x 376 x 685mm
 Weight: Approx. 50kg

Main accessories:

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

Order NO. 950-1202

Digital Vickers Hardness Testers 5kg



The Digital Vickers Hardness Testers incorporate mechanical, optical and electronic techniques and are extremely accurate, easy to use instruments for measuring Vickers Hardness of surfaces and materials with an automatic load and release system. They incorporate a frictionless force loading shaft for a high level of accuracy. Sample holders are available for thin films and cylindrical surfaces. The optical micrometers identify the size of the indents and the instruments then automatically calculate the Vickers hardness that are displayed on the LCD screens.

Main Features:

Direct reading of Vickers Hardness
 Touch panel backlit LCD display for ease of use
 Rigid construction minimizes compliance errors
 Magnifications Up to 500X
 Video Camera Image Capture available
 Digital Display Capabilities Printing capabilities, test force, dwell time, magnification.

Specifications:

Loading mechanism Automatic load and release method
 Test Load: 1.961, 2.942, 4.903, 9.807, 19.61, 24.52, 29.42, 49.03 N
 or 0.2, 0.3, 0.5, 1, 2, 2.5, 3, 5kgf
 Magnification 500X and 125X
 Data Output RS232 standard
 Min measuring unit 1 μ m (500X), 2.5 μ m (125X)
 Min. scale value of the measuring microscope 0.025 micron
 Max specimen height 130 mm
 Max specimen depth 100 mm
 Dimensions W410 x D200 x H620mm
 Power 110 V / 220 V
 Weight 50 Kg

Order NO. 950-1203

Microhardness Tester



This tester is specially suitable for measuring the microhardness of carburized and nitrided layers of metal pieces, thin & small metal test pieces.

Specifications

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 optical micrometer: 500X, 125X
 Min. scale value of the optical micrometer: 0.125micron
 Max. height of test piece: 75mm
 Depth of throat: 100mm
 Power supply: 220 or 110V AC, 50/60Hz
 Dimensions: 340 x 160 x 375mm
 Weight: approx. 40kg

Main accessories

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

Order NO. 950-1207

Digital Vickers Hardness Testers 50kg

The Digital Vickers Hardness Testers incorporate mechanical, optical and electronic techniques and are extremely accurate, easy to use instruments for measuring Vickers Hardness of surfaces and materials with an automatic load and release system. They incorporate a frictionless force loading shaft for a high level of accuracy. Sample holders are available for thin films and cylindrical surfaces. The optical micrometers identify the size of the indents and the instruments then automatically calculate the Vickers hardness that are displayed on the LCD screens.

Main Features:

- * Direct reading of Vickers Hardness
- * Touch panel backlit LCD display for ease of use
- * Rigid construction minimizes compliance errors
- * Magnifications Up to 125X
- * Video Camera Image Capture available.
- * Digital Display Capabilities Printing capabilities, test force, dwell time, magnification. Standard deviation, date max., min. & average value display.

Specifications:

- * Loading mechanism Automatic load and release method
- * Test Load: 9.807, 49.03, 98.07, 196.1, 294.2, 490.3 N or 1 5 10, 20 30 50 kgf
- * Measuring range 5-2900HV
- * Magnification 125X and 50X
- * Data Output RS232 standard
- * Min measuring unit 125X, 50X
- * Max specimen height 180 mm
- * Max specimen depth 125 mm
- * Min. scale value of the optical micrometer 0.5micron
- * Dimensions W580 x D260 x H730mm
- * Power 110 V / 220 V
- * Weight 90 Kg

Order NO. 950-1205

Low Load Vickers Hardness Tester 10kgf

This tester is suitable for determining the Vickers hardness of thin sheet metals and various casehardened layers. It is widely applied in the factories, measurement departments, laboratories of colleges and institutes.

Specifications

- Measuring range: 30-3000HV
Test force: 4.903, 9.807, 19.61, 24.52, 29.42, 49.03, 98.07N
(0.5, 1, 2, 2.5, 3, 5, 10kgf)
Max. height of test piece: 130mm
Depth of throat: 100mm
Magnifications of the optical micrometer: 500X, 125X
Min. scale value of the optical micrometer: 0.25micron
Power supply: 220/110V AC, 50/60Hz
Dimensions: 438 x 382 x 708mm
Weight: approx. 70kg

Main accessories

- Large flat anvil: 1 pc.
- Small flat anvil: 1 pc.
- V-notch anvil: 1 pc.
- Diamond pyramid penetrator: 1 pc.
- Vickers standardized block: 4 pcs.
- Coordinate anvil: 1 pc.
- Electronic calculator: 1 pc.

Order NO. 950-1208

Brinell and Vickers Hardness Teser



This tester can be used for measuring the Brinell and Vickers hardness of ferrous and non-ferrous metals in the factories of machinery and metallurgy, laboratories of colleges and scientific research institutes. It is especially suitable for determining the hardness of thin and small-sized workpieces.

Specifications

Measuring range: 4-450HBS, 10-3000HV
 Test force: 9.807, 24.52, 49.03, 98.07, 196.1, 294.2N
 (1, 2.5, 5, 10, 20, 30kgf)
 Max. height of test piece: 130mm
 Depth of throat: 100mm
 Magnifications of the optical micrometer: 500X, 125X
 Min. scale value of the optical micrometer: 0.25micron
 Power supply: 220/110V AC, 50/60Hz
 Dimensions: 438 x 382 x 708mm
 Weight: approx. 88kg

Main accessories

Coordinate anvil: 1 pc.
 Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Steel ball penetrator: Dia.1mm, Dia.2mm 1 pc. each
 Diamond pyramid penetrator: 1 pc.
 Brinell standardized block: 2 pcs.
 Vickers standardized block: 2 pcs.
 Electronic calculator: 1 pc.

Order NO. 950-1403

Brinell, Rockwell,Vickers Hardness Tester



This tester is used for determining the Brinell, Rockwell and Vickers hardness of ferrous, non-ferrous metals and hard alloys. It can be applied in the factories, scientific research institutes, laboratories of institutes and colleges.

Specifications

Measuring range: 4-450HBS, 20-88HRA, 20-100HRB, 20-70HRC, 200-1000HV
 Test force: 294.2, 306.5, 588.4, 612.9, 980.7, 1471, 1839N
 (30, 31.25, 60, 62.5, 100, 150, 187.5kgf)
 Max. height of test piece: 200mm
 Depth of throat: 160mm
 Power supply: 220V or 110V AC, 50/60Hz
 Dimensions: 480 x 250 x 760mm
 Weight: approx. 120kg

Main accessories

Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Diamond cone penetrator: 1 pc.
 Diamond pyramid penetrator: 1 pc.
 Steel ball penetrator: Dia.1.588mm, Dia.2.5mm, Dia.5mm 1 pc. each
 Brinell standardized block: 1 pc.
 Rockwell standardized block: 5 pcs.
 Vickers standardized block: 1 pc.
 40X Readout microscope: 1 pc.

Order NO. 950-1402

Leeb Hardness Tester

This tester is suitable for the quick hardness test of metal materials. They feature high accuracy, reliable performance, easy operation and convenient taking. The measured Leeb hardness can be converted into the hardness of Brinell, Rockwell, Vickers and Shore according to different directions and can be converted and recorded automatically.

Specifications of display unit

Power supply: 6.0V DC
 Working temperature: 1-40degree centigrade.
 Dimensions: 268 x 86 x 47mm
 Weight: approx. 0.67kg

Main accessories

Small positioner: 1 pc.
 Binder: 1 bottle
 Leeb standardized block: 1 pc.
 Charger: 1 pc



Specifications:

Order No.	950-1050	950-1051	950-1052	950-1053
Probe Type	D	DC	D+15	G
Measuring range	330-890HL	330-890HL	346-890HL	300-650HLG
Impact capacity	11Nmm	11Nmm	11Nmm	90Nmm
Dimensions	Dia.20x150mm	Dia. 20x85mm	Dia.20x165mm	Dia.20x250mm
Testing direction	Arbitrary			
Weight	75g	50g	80g	250g
Mass of impact body	5.5g	5.5g	5.5g	20g
Diameter of tungsten carbide ball	3mm	3mm	3mm	5mm
ApplicationRange	Basic type, suitable for most of hardness tests.	Suitable for hardness measuring of inner holes and small space.	Suitable for determining hardness of tooth face and slots, etc.	Suitable for hardness measuring of steel, cast steel, gray cast iron, nodular cast iron and non-ferrous metals.

Digital Rockwell & Superficial Rockwell Hardness Tester

This tester is a popular type Rockwell hardness testing machine with its novel appearance and unique inside structure, features high measuring accuracy, reliable performance and applicable to wide fields, it is used to for harness testing all kinds of Rockwell and Superficial Rockwell.

This tester has big screen to display, Brinell, Rockwell and Vickers for contrasting. It has a lot of function such as keeping the increase and decrease of time, data dispose, storage, pick up, print and RS-232 computer output as well.

Suitable range: HRA.B.C.D.E.F.G.H.K and HR15N.T; 30N.T; 45N.T(scale).

All the technique index are accord with the technique condition standard of GB/T230.3-2002

Rockwell hardness tester and consult ISO6508-2:1999 international standard.

It serves to measure the hardness of carbide, carburizing steels, quenching steels, hardcast iron; mild steels, Al, Cu and malleable irons.

Main Technical Parameters:

Preliminary test force: 29.4M(3kg), 98.07N(10kg)

Total test force: 147.1N(15kg), 294.2N(30kg), 441.3N(45kg),
588.4N(60kg), 980.7N(100kg), 1471N(150kg)

Test force folding time: 0-60S(can adjust)

Test force loading and releasing method: Automatic

Display method: Back light LCD screen

data dispose: CPU

Others: HR,HB,HV,HK hardness member for contrast

Automatic print

RS-232 computer output

Max height of piece: 180mm

Throat depth: 160mm

Dimension (L*W*H): (551*260*800)mm

Net weight: approx 67Kg

Power supply: AC220V±5% 50-60Hz

Main attachments: One diamond indenter and one ball indenter; three working tables;

Five pieces of harness brocks: HRC higher and Lower, HRB, HRN, HRT.



Order No. 950-1501

Digital Rockwell Hardness Tester



This Model digital Rockwell hardness tester is an organic whole of mechanical and electrical hardness testing instrument, with its novel appearance, directly observed digital display device and micro-computer control lifting and lowering screwed and automatic feedback lock among rotary wheels, connecting outside to the printer, full realizes the automatic. That completely eliminates error in those operations and reading.

It can used to measure the Rockwell hardness of ferrous, non-ferrous metals and plastic materials.

Order No. 950-1502

Main Technical Parameters:

Preliminary test force: 98N

Total test force(N): 588, 980, 1471N

Total test force dwell time(s): 1-30

Hardness Indication: Digital

Power Supply: AC220V/50HZ

Max height of piece: 170mm

Throat depth: 165mm

Dimension (DXWXH): 490×212×750mm

Weight: 85kg

Hardness Range: HRA:20-88; HRB:20-100; HRC:20-70.

Superficial Rockwell Hardness Tester

It serves to measure the hardness of ferrous, non-ferrous metals, carbide, Carburized or nitride layers, and other chemical treating layers. It is also used to for the hardness test of thin pieces.



Order No. 950-1503

Main Technical Parameters:

Preliminary test force: 29.1N

Total test force: 147, 294, 441N

Max height of piece: 170mm

Throat depth: 165mm

Dimension (DXWXH): 490×212×750mm

Power Supply: AC220V/50HZ

Weight: 70kg

Hardness Range: HR15N:70-91; HR30N:42-80; HR45N:20-70;
HR15T: 73-93; HR30T:43-82; HR45T:12-72.



Rockwell Hardness Tester Order No. 950-1504

To measure the hardness of carbide, carburizing steels, quenching steels, hardcast irons, mild steels, Al-alloys, Cu-alloys and malleable irons.

Hardness range: HRA: 20-88; HRB: 20-100; HRC: 20-70.

Superficial Rockwell Hardness Tester

To determine the superficial Rockwell hardness of carbide, carburized, nitride layers, and other chemical treating layers; also to measure the hardness of thin pieces.

Hardness range: HR15N:70-91; HR30N:42-80; HR45N:20-70; HR15T:73-93; HR30T:43-82; HR45T:12-72.

Order No. 950-1505

Plastic Rockwell Hardness Tester

For the hardness test of plastics, hard rubbers, fricative materials, synthetic resins, Al-alloys, Sn-alloys hard papers.

Hardness range: HRE:70-94; HRL100-120; HRM85-110; HRR114-125.

Order No. 950-1506

Rockwell Hardness Tester Order No. 950-1507

This tester is a popular type Rockwell hardness testing machine, with its novel appearance and eased operate, can be applied in the workshop of factories and measurement department, for determining the Rockwell hardness of ferrous and non-ferrous metals.

Hardness range: HRA:20-88; HRB:20-100; HRC:20-70.

Main Tech Parameter	950-1504	950-1505	950-1506	950-1507
Preliminary test force	98N	29N	98N	98N
Total test force	588, 980, 1471N	147, 294, 441N	588, 980, 1471N	588, 980, 1471N
Total test force dwell time	0-30S	0-30S	0-30S	0-30S
Max height of piece	170mm	170mm	170mm	170mm
Throat depth	165mm	165mm	165mm	165mm
Dimension (mm)	510×212×750	510×212×750	510×212×750	510×230×750
Power supply	AC220V/50HZ	AC220V/50HZ	AC220V/50HZ	AC220V/50HZ
Weight	85kg	80kg	85kg	85kg



Brinell Rockwell & Vickers Optical Hardness Tester

It serves the purpose of measuring the hardness of ferrous, non-ferrous metals, carbide, carburized layers and chemical treating layers.

Order No. 950-1508

Specifications:

- Preliminary test force:98
- Total test force: 588,980,1471N
- Brinell hardness test: 306,613,1839N
- Vickers hardness test: 294,588,980N
- Magnification: 37.5, 75 times
- Max. height of piece:180mm
- Throat depth: 200mm
- Dimension: 560×260×760mm
- Power Supply: AC220V/50HZ
- Weight: 90kg

Superficial Rockwell & Vickers Optical Hardness Tester

It serves to measure the hardness of ferrous, non-ferrous metals, carbide, carburized or nitrided layers, and other chemical treating layers. It is also used to for the hardness test of thin pieces.

Specifications:

- Preliminary test force: 29.4N
- Total test force: 147,294,441N
- Magnification: 75, 150 times
- Max. height of piece:180mm
- Measure Superficial Rockwell hardness test: 200mm
- Measure Vickers hardness test: 100mm
- Throat depth: 200mm
- Dimension: 560×260×750mm
- Power Supply: AC220V/50HZ
- Weight: 85kg

Order No. 950-1509

Digital Micro Hardness Tester



950-1510

The models is to adopt computer software programming, high-power optical measuring system, and photoelectric sensor technique, etc, through soft keys input, it is able to regulate and measure the strength of light source, to select Vickers and Knoop test method, to maintain time, file No., storage, etc.; and to provide the conversion table of various hardness numbers for reference. In LCD large screen display, it can display testing method, testing force and measuring indentation length, hardness value, dwell time of testing force, measuring times, and can key in year, month & date, testing result and data processing, etc. to be outputted through printer. It can be equipped with camera device; it can take photos of tested indentation and material metallographic composition. The hardness tester is applicable to measure micro hardness of micro & thin specimen, etc., and determine micro hardness of fragile materials, such as glass, ceramic, agate, etc., being the ideal hardness testing instrument for scientific research institution, enterprise and quality inspection department to perform research and detection.



950-1512

Order No.	950-1510	950-1512
Preliminary test force	0.098,0.246,0.49,0.98,1.96,2.94,4.90,9.80N	
Force applied method	Automatic	
Magnification	100× (in observation) & 400× (in measurement)	
Pressure Holding Time	0-60s	5-60s (5 second increment)
Min. Measurable Unit	0.0625μm	
Max. Height of piece	75mm	65mm
Throat depth	95mm	85mm
Dimension	441×270×480mm	405×290×480mm
Power Supply	AC220V/50HZ	AC220V/50HZ
Weight	31kg	25kg

Micro Hardness Tester

Model 950-1511 micro hardness tester is a novel type micro Vicker's and Knoop's hardness testing apparatus which adopts precise mechanical technique and photoelectrical technique. The configuration of this tester which adopts micro-computer to control is novel, by means of adjusting the soft key, the tester is able to adjust and measure either strong or weak light source, and is capable to pressure holding time of the test load and is displayed by LED. This tester adopts peculiar indentation measuring, inverting and read mechanism through measuring once by the micrometer eyepiece. It is easy to use and high precision in measurement.

It can be equipped with camera device; it can take photos of tested indentation and material metallographic composition. The hardness tester is applicable to measure micro hardness of micro & thin specimen, etc., and determine micro hardness of fragile materials, such as glass, ceramic, agate, etc., being the ideal hardness testing instrument for scientific research institution, enterprise and quality inspection department to perform research and detection.

Specifications

Testing Pressure:0.098,0.246,0.49,0.98,1.96,2.94,4.90,9.80N

Pressure Loading & Unloading : Automatic

Magnification: 100× (for observation) & 400× (for measuring)

Pressure Holding Time:5-60s (5 second as input increment)

Min. Measurable Unit: 0.5μm

Max. Height of piece: 65mm

Throat depth: 85mm

Weight: 25kg

Power Supply: AC220V/50HZ

Dimension: 405×290×480mm



Order No. 950-1511

Brinell Hardness Tester



950-1513

950-1513 serves to measure the Brinell hardness of ferrous metals, non-ferrous metals. It adopts electronic automatic load system and ten steps of test force. Test range is more extensive and precision is higher.

950-1514 can be applied to determine the Brinell hardness for ferrous metal and non-ferrous metal. The tester has an electronic auto loading, computer software programming, high power optical measurement photo sensor and other systems.

Order No.	950-1513	950-1514
Type	Electronic Type	Digital Type
Brinell hardness test force	612.5, 980, 1225, 1837.5, 2450, 4900, 7350, 9800, 14700, 29400N	
Measuring area	8-650 HBW(Carbide steel ball)	
Magnification	20X	
Max. Height of piece	200mm	220mm
Throat depth	135mm	135mm
Dimension	236×550×753mm	
Power Supply	AC220V 50/60Hz	
Weight	123kg	



950-1514

Vickers Hardness Tester



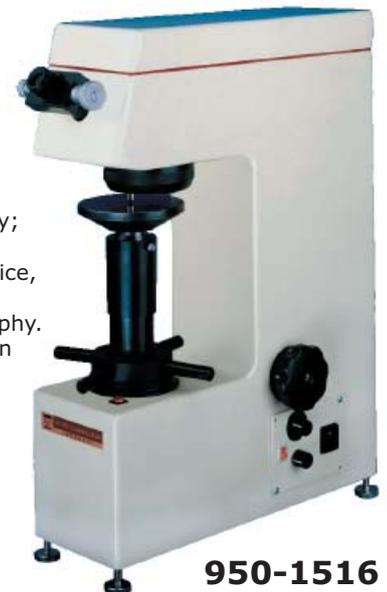
950-1515

950-1517

Micro computer control

Key features and functions:

- Adjustment of lighting source via soft keys;
 - Adjustment of pressure holding time and LED display;
 - Unique measurement conversion device and unique micro eyepiece one-time measurement readout device, ensuring easy use and high accuracy;
 - Camera for indentation photographing and metallography.
- The tester is specially designed for testing minute, thin samples or parts after surface coating.



950-1516

Order No.	950-1515	950-1517	950-1516
Testing Pressure	2.94N(0.35Kgf),4.9N(0.5Kgf), 9.80N(1Kgf),29.4N(3Kgf), 49.0N(5Kgf),98.0N(10Kgf)	9.8N(1Kgf),49N(5Kgf), 98N(10Kgf),196N(20Kgf), 294N(30Kgf),490N(50Kgf)	19.6N(2Kgf),29.4N(3Kgf), 49.0N(5Kgf),98.0N(10Kgf), 196N(20Kgf),294N(30Kgf)
Hardness Value Symbol	HV1,HV5,HV10,HV20,HV30,HV50		HV2,HV3,HV5,HV10,HV20 HV30
Error Range in Display	±3.0%		±3.0% ±2.0%
Measuring Range	8HV0.3-2500HV10	5HV1-2500HV10	10HV2-2500HV30
Magnification	100× & 200×	100×	100×
Pressure Holding Time	5-60s (5 second increment)		0-30s (5 second increment)
Min. Measurable Unit	0.5µm	1µm	1µm
Max. Height of piece	160mm		150mm
Throat depth	135mm		130mm
Dimension	540×220×650mm		452×200×620mm
Power Supply	AC220V/50HZ		AC220V/50HZ
Main Body Weight	40kg		38kg

Digital Low Load Vickers Hardness Tester

Low Load Vicker's Hardness Tester with Digital Display is a new hi-tech product integrating mechanical and photoelectrical technologies. As a substitute of traditional small-load Vicker's hardness tester, it features in easy operation and good reliability.

The following highlight some key features and functions:

- Integration of computer programming technology, high resolution optical measuring system and photoelectrical technique;
- Soft key input;
- Light source adjustment;
- Selectable testing model, conversion tables, pressure-holding time, file number input and data saving functions;
- Big LCD screen to display testing model, testing pressure, indentation length, hardness values, pressure holding time and numbers of tests;
- Date recording test results recording and data processing;
- Printing output function;
- RS232 interface for PC connection;
- Camera for indentation photographing and metallography

The tester is specially designed for testing minute, thin samples or parts after surface coating. For research institutes, factories labs and QC departments, this is an ideal hardness testing instrument for research or measuring purposes.



Order No.	950-1518	950-1519	
Testing Pressure	2.49N(0.3Kgf),4.9N(0.5Kgf),9.8N(1Kgf), 29.4(3Kgf),49.0N(5Kgf),98.0N(10Kgf)	9.8N(1Kgf),49N(5Kgf),98N(10Kgf), 196(20Kgf),294N(30Kgf),490N(50Kgf)	
Hardness Value Symbol	HV1,HV5,HV10	HV1,HV5,HV10,HV20	HV30,HV250
Error Range in Display	±3.0%	±3.0%	±2.0%
Measuring Range	8HV0.3-2500HV10	5HV-2500HV	
Magnification	100×	100×	
Pressure Holding Time	5-60s (5 second increment)	5-60s (5 second increment)	
Min. Measurable Unit	0.0625μm	0.25μm	
Max. Height of piece	160mm	160mm	
Throat depth	135mm	135mm	
Dimension	540×220×650mm	540×220×650mm	
Power Supply	AC220V/50HZ	AC220V/50HZ	
Main Body Weight	40kg	40kg	

Hammer Hitting Type Brinell Hardness Tester



Order No. 950-1520

Low Speed Precision Saw



Specifications:
Stroke of movable frame: 25mm
Positioning accuracy: 0.01mm
Rotate speed of main shaft: 0-700r/min
Diameter of saw disc:φ100~φ150mm
Power: 50w
Voltage: 110~220V
Overall dimension: 350x350x200mm
Weight: 18.5kg

Order No. 950-1420

Specimen Grinder



Technique Parameter

*Diameter of grinding plate: Dia.230mm
*Rotate speed of grinding plate: 450r/min
*Motor:370w 220v 50Hz
*Overall dimension:690*715*310mm
*Net weight:45kg

Main Accessories

one of 1.5-meter outlet water pipe
one of 2-meter endure-pressure inlet water pipe
two pieces of polishing fabric

Order No.950-1423

Specimen Cutter Machine



Description

*No.950-1421 manual cutting machine is a large standing cutting machine,designed and manufactured according as an introduced and advanced technique of cutting actions and thehealth and safety standard of EC by our company.
*No.950-1421includes cutting system, lighting system,cooling system and cleaning system.
*Scientific design of pull bar makes cutting action easy-to-use.
*Super cooling system can avoid specimen from burning while cutting.
*Imported gate style safety switch and explosion proof hood afford the safe guarantee for operators.
*It is the ideal option for colleges, car manufacturing, steel manufactories, material research institutes and so on.

Specifications

*Motor power: 4kw/5.5kw
*Cutting capacity of the new abrasive wheel :Dia.110mm
*Wide T-solt Bed, special clamping for large samples
*Coolant tank with 80L capacity
*Water-jet type cleaning system
*Isolated lighting system
*Imported gate style safety switch
*Power supply: 380V 50Hz

Order No.950-1421



Specimen Cutter Machine

Features

*The cutting machine is suitable for cutting metallographic and petrographic materials. It is safe, less noises and easy-to-use. It is the ideal option for laboratories of college, industry and mining. For rocks, potteries and porcelains sectioning, it must be with diamond cutting disc, large and close cutting compartment. Dual drive vises, T worktable, it is convenient to clamp variable irregular shape work pieces. Inside cooling system with 60L capacity. Isolated lighting system. Non-corroding cutting compartment and coolant tank.

Specifications

Cutting power: 3.0KW
 Grinding disc capacity: 350*2*32mm
 Rotate speed: 2800r/minMax.
 cutting diameter: 100mm
 Power: 380v 50Hz
 Overall dimension: 600*650*1400mm

Main Accessories

2 pieces of grinding disc
 2 pieces of spanner

Order No.950-1422

Manual Specimen Cutter Machine

*The cutting machine is suitable for cutting all kinds of specimens including metallic materials and nonmetallic materials so as to observe metallographic structure and lithofacies structure. The built-in cooling circuit could help to prevent burning the sample tissue due to overheating during the cut-off process. The cutting machine is quiet convenient, safety and reliable. It is one of the specimen-making equipments necessary for metallographic test for factory, researching unit and college and university laboratory.

Specifications

*Power :3phases ,4cords (380V,50HZ)
 *Rotation rate of spindle :2800rpm
 *Max cut-off diameter :80mm
 *Motor :Y2-1001-2 3.0KW

Order No.950-1456



Automatic Specimen Cutter Machine



Specifications

*Power :3phases , 4wires
 *Rotate speed of abrasive disc:2100rpm
 *Specification of abrasive disc:350mmx2.5mmx32mm
 *Max. cutting diameter: Dia.80mm
 *Max .cutting capacity : 80mmx200mm
 *Motor:Y S90L-2 2.2KW
 *Dimensions of cutting table:310mmx280mm

Order No.950-1455

Automatic Specimen Grinder and Polisher

Features

- *Rotate speed display in Digital
- *Force and sampling time changeable
- *Polishing disk with two steps stationary speed and stepless speed control
- *Polishing principal axis with stepless speed changed with nice and utilitarian glass fiber crust and stainless steel current pieces, rustless forever
- *Quick change polishing disk design, variable specimen holder central force
- *Large volume abrasives automatically dispensing system
- *Preparing for 6 samples simultaneously with one-key restore program function

Specifications

- *Speed of polishing disc:0-600rpm(stepless speed change) or 150rpm/300rpm(two steps stationary speed)
- *Force arranges: 1-200N
- *Sampling time: 0-999S
- *Max. diameter of sample: Dia.30mm
- *Diameter of polishing disk: Dia.250mm
- *Voltage: 220v 50Hz
- *Dimension: 660*380*640mm
- *Net Weight: 45kg

Main Accessories

- both of inflow and outflow water pipes
- 2 pieces of quick change polishing disk
- 1 flattener



Order No.950-1424

Specimen Grinder and Polisher

Features

- *This grinder polisher is the most economical and applied machine for metallographic specimens.
- *Full series of styles can fit multiple specimen preparation.
- *Designed and manufactured according to international advanced methodology and qualification of metallographic specimens.
- *Equipped with beautiful and applied glass fiber crust pure stainless steel, rustless forever.
- *Both of style of single-disk and double-disk equipped with stepless speed change and multiple-step constant speed system.
- *E-style machine equipped with stepless speed change and dual step constant speed system simultaneously, and can be switched each other.
- *The turnaround of plates can be chose with one-key restore program function.

Specifications

- *Speed of polishing disc: 50-600rpm(stepless speed change) or 150rpm/300rpm (two steps stationary speed)
- *Diameter of polishing disk: Dia.250mm
- *Voltage: 220v 50Hz
- *Dimension: 380*660*300mm
- *Net Weight: 45kg

Main Accessories

- *both of inflow and outflow water pipes
- *2 pieces of quick change polishing disk

Order No:950-1425
Order No:950-1426



Specimen Grinder and Polisher

Features

- *This grinder polisher is the most economical and applied machine for metallographic specimens.
- *Full series of styles can fit multiple specimen preparation.
- *Designed and manufactured according to international advanced methodology and qualification of metallographic specimens.
- *Equipped with beautiful and applied glass fiber crust ,pure stainless steel, rustless forever.
- *E-style machine equipped with stepless speed change and dual step constant speed system simultaneously, and can be switched each other.
- *The turnaround of plates can be chose.
- *With one-key restore program function.

Specifications

- *Speed of polishing disc: 50-600rpm(stepless speed change) or 150rpm/300rpm (two steps stationary speed)
- *Diameter of polishing disk: Dia.200mm
- *Voltage: 220v 50Hz
- *Dimension: 630*630*300mm
- *Net Weight: 45kg

Main Accessories

- *both of inflow and outflow water pipes
- *2 pieces of quick change polishing disk

Order No.950-1429
Order No.950-1430



Specimen Grinder and Polisher

Features

- *This grinder polisher is the most economical and applied machine for metallographic specimens.
- *Full series of styles can fit multiple specimen preparation.
- *Designed and manufactured according to international advanced methodology and qualification of metallographic specimens.
- *Equipped with beautiful and applied glass fiber crust, pure stainless steel, rustless forever.
- *E-style machine equipped with stepless speed change and dual step constant speed system simultaneously, and can be switched each other.
- *The turnaround of plates can be chose.
- *With one-key restore program function.

Specifications

- *Speed of polishing disc: 50-600rpm(stepless speed change) or 150rpm 300rpm (two steps stationary speed)
- *Diameter of polishing disk: Dia.300mm
- *Voltage: 220v 50Hz
- *Dimension: 430*710*300mm
- *Net Weight: 55kg

Main Accessories

- *both of inflow and outflow water pipes
- *1 piece of quick change polishing disk

Order No.950-1437



Specimen Grinder and Polisher

Features

- *This grinder polisher is of single disc.
- *It is suitable for pregrinding, grinding and polishing metallographic specimens.
- *Since the machine is speed-adjusted by a transducer, it can run from 50rpm to 1000rpm, which favors the machine with wide applications.

Specifications

- *Working voltage: 220V 50HZ
- *Diameter of grinding disc: Dia.230mm
- *Rotate speed: 50-1000rpm
- *Diameter of polishing disc: Dia.200mm
- *Rotate speed: 50-1000rpm
- *Motor: YSS7124, 550W
- *Overall dimensions: 650*370*310mm
- *Weight: 30kg

Order No.950-1441
Order No.950-1442



Specimen Grinder and Polisher

Features

- *This grinder polisher is of double discs.
- *It is suitable for pregrinding, grinding and polishing metallographic specimens.
- *Since the machine is speed-adjusted by a transducer, it can run between 50 and 1000rpm, which favors the machine with wide applications.
- *The machine is equipped with cooling system which can cool down the specimen during primary grinding so as to prevent overheating and damage the metallographic structure.
- *The left disc is for primary grinding and normal grinding, right disc is for polishing.
- *Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen.

Specifications

- *Working voltage: 220V 50HZ
- *Diameter of polishing disc: Dia.200mm
- *Rotate Speed: 50-1000rpm
- *Diameter of grinding disc: Dia.230mm
- *Rotate Speed: 50-1000rpm
- *Diameter of sand paper: Dia.200mm
- *Motor: YSS7124, 550W
- *Overall dimensions: 700*700*300mm
- *Weight: 45kg

Order No.950-1443
Order No.950-1444



Specimen Grinder and Polisher

Specifications

- *Diameter of grinding plate: Dia.230mm
- *Diameter of polishing plate: Dia.200mm
- *Rotate speed of polishing plate: 450r/min
- *Motor: 370w 220v 50Hz
- *Overall dimension: 690*715*310mm
- *Net weight: 45kg

Main Accessories

- *1.5-meter outlet water pipe
- *2-meter endure-pressure inlet water pipe
- *two pieces of polishing fabric

Order No.950-1445
Order No.950-1446



Specimen Polisher



Specifications

- *Motor power: 180w
- *Diameter of polishing plate: 200mm
- *Rotate speed: 1400r/min
- *Power: 380v 50Hz
- *Overall dimension: 360*300*320mm

Main Accessories

- *1 piece of polishing cloth

Order No.950-1447

Specimen Polisher



Specifications

- *Motor power: 180w
- *Diameter of polishing plate: 200mm
- *Rotate speed: 1400r/min
- *Weight: 35kg With cooling system
- *Power: 380v 50Hz
- *Overall dimension: 730*405*308mm

Main Accessories

- *2 pieces of polishing cloth

Order No.950-1451

Specimen Polisher

Features

- *No.950-1450 possesses more advanced and pleasant cabinet design, which has more space for storage.
- *With cooling unit, the heat generated from polishing is able to be removed to avoid damaging the specimen.
- *The motor with different speed can be applied to various metals.
- *This equipment will be an ideal choice for colleges, industrial enterprises and research institutes.

Specifications

- *Diameter of polishing plate: Dia.200mm
- *Rotate speed: 1400rpm or 900rpm
- *Motor: 380v/50hz or 220v/50hz
- *Dimension: 900*560*1010mm

Order No.950-1450



Specimen Polisher

Specifications

- *Motor power: 180w
- *Diameter of polishing plate: 200mm
- *Power: 380v 50Hz or 220v 50Hz (that can be ordered)
- *Rotate speed: 1400r/min or 900r/min (that can be ordered)
- *Overall dimension: 900*500*915mm

Main Accessories

- *1 piece of polishing cloth
- *It can be turned to table -style by removing four stands

Order No.950-1449

Automatic Cutter



Specifications

- *Power :3phases, 4wires 380v,50Hz
- *Rotate speed of principal axis:2100rpm
- *Specification of abrasive disc:350mm*2.5mm*32mm
- *Max. cutting diameter:Dia.100mm
- *Max .cutting capacity :100mm*200mm
- *Motor:YS90L2-2 3KW
- *Dimensions of cutting table :310mm*280mm
- *Overall dimension: 930*700*610mm

Order No.950-1452

Specimen Cutter Machine



Features

- *The machine cuts metallographic specimen with thin grinding wheel of rotating speedily, which is fit for cutting harder metal materials.
- *The machine has cooling equipment that will take off the quantity of heat produced when cutting, which will prevent sample too heat from changing organizations metallographic sample.

Specifications

- *Max .cutting section: 30*30mm
- *Specifications of grinding wheel piece: 250*2*32mm
- *Rotation speed: 2800r/min
- *Motor: 1.1KW
- *Voltage: 380V 50HZ
- *Overall dimension:470*390*360mm
- *Net weight: 60kg

Order No.950-1453

Specimen Cutter Machine

Features

- *This cutting machine is suitable for cutting the specimens of metallic materials and assorted rocks, which facilitates the observation of metallographic or rock structure.
- *The machine is equipped with cooling system that can cool down the specimen during cutting so as to prevent overheating and damaging the metallurgical structure.
- *Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallurgical specimen.

Specifications

- *Max.Cutting Width: 60mm
- *Max.Cutting Height: 80mm
- *Max.Cutting Diameter:Dia.50mm
- *Specifications of Abrasive Wheel:250*2*32mm
- *Weight: 130kg

Order No.950-1454



Specimen Grinder and Polisher

Features

- *This grinder polisher is the most economical and applied machine for metallographic specimens.
- *Full series of styles can fit multiple specimen preparation.
- *Designed and manufactured according to international advanced methodology and qualification of metallographic specimens.
- *Equipped with beautiful and applied glass fiber crust, pure stainless steel, rustless forever.
- *Both of style of single-disk and double-disk equipped with stepless speed change and multiple-step constant speed system.
- *E-style machine equipped with stepless speed change and dual step constant speed system simultaneously, and can be switched each other.
- *The turnaround of plates can be chose.
- *Dual motors, with independence control system

Specifications

- *Speed of polishing disc: 50-600rpm(stepless speed change) or 150rpm/300rpm (two steps stationary speed)
- *Diameter of polishing disk: Dia.200mm/ Dia.250mm
- *Voltage: 220v 50Hz
- *Dimension:630*630*300mm
- *Net Weight: 75kg

Main Accessories

- *both of inflow and outflow water pipes
- *2 pieces of quick change polishing disk

Order No:950-1433

Order No:950-1434



MOUNTING PRESS

Features

- *This machine is designed for purpose of the last process before polishing.
- *It is setting up those small, difficult-to-hold or irregular specimen for metallographical test.
- *It can facilitate polishing and watch properly the ideal material structure and measure the hardness of the material by hardness tester.
- *The inserts for this machine are limited to thermosetting material only.
- *The punching temperature of different thermosetting material: be adjusted depending upon the features of materials .
- *Optional inserts are available.

Specifications

Specifications of heater:220V
 Overall dimensions:400*290*400mm
 Weight:33kg



Order No.	Thermosetting materials	Diameter of specimen	Volume of inserted powder	Heating temperature	Temperature holding time	Time for cooling
950-1457	Urea formal degdemoulding	22	10ml	130 °	10min	15min
	Insulatingmoulding powder (black)	22	10ml	135-150 °	8min	15min
950-1458	Urea formal degdemoulding powder	30	20ml	130°	10min	15min
	Insulatingmoulding powder (black)	30	20ml	135-150°	8min	15min
950-1459	Urea formal degdemoulding powder	45	35ml	130°	10min	15min
	Insulatingmoulding powder (black)	45	35ml	135-150°	8min	15min