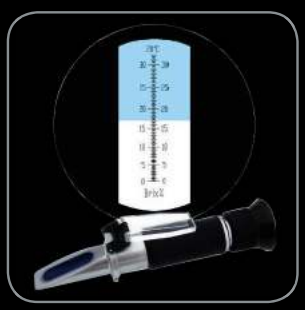
2026/27

PRIDE










HARDNESS TESTERS | METALLOGRAPHIC EQUPMENTS | FORCE AND TORQUE GAUGES | NDT TESTING INSTRUMENTS | MATERIAL TESTING MACHINES | OPTICAL INSTRUMENTS | ELECTRICAL INSTRUMENTS | PAINTING EQUIPMENTS

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WELCOME TO SHENZHEN PRIDE INSTRUMENT INC.

SHENZHEN PRIDE INSTRUMENT INC.,Founded in 2001, our company specializes in development,manufacturing,marketing and sales of measurement instruments and equipments.

We have been operating on the four management concepts: **Quality, Speed, Innovation and Responsibility.**

SHENZHEN PRIDE INSTURUMENT INC. has been devoted to innovations and R&D unceasingly and has accumulated years of experiences in design and manufacturing. Our products sold all over the world,our friends are all over the world. Our company introduced the ISO9001 International quality assurance operation system,our products approved by CE,ROHS.

OUR PRODUCTLINES:

HARDNESS TESTERS

METALLOGRAPHIC EQUIPMENTS

FORCE & TORQUE GAGES

NDT INSTRUMENTS

MATERIAL TESTERS

OPTICAL INSTRUMENTS

ELECTRICAL INSTRUMENTS

PAINT EQUIPMENTS



QUALITY MANAGEMENT SYSTEM CERTIFICATE

Certificate No.: CIEC-21Q0328R0S

We hereby certify that the organization:

SHENZHEN PRIDE INSTRUMENT INC

Unified social credit code: 91440300791734783 4

Is in conformity with Envionmental Management System Standard:

GB/T19001-2016 idt ISO9001:2015

The certificate is valid to the following product(s)/service:

Design, Sales and Calibration of Calipers, Micrometers, Gages, Hardness testers, Coating Gauges, Ultrasonic Gauges, Force Gauges, Torque Gauges, Opticals, Metallographic etc

Registration/Business/Office Address: Block B 4TH Floor Building B Haoye Logistics Zone Shugang Tongdao Xixiang Jiedao Bao An District SHENZHEN GUANGDONG CHINA

Date of Issue : 30-06-2021

Date of Expiry: 29-06-2024

The Effectiveness of the Certificate is Subject to QR Code in the Left. Meanwhile,You Can Search the CNCA Website : www.cnca.gov.cn or Website of Certification Body : www.cieclj.com

CIEC (Beijing) Certification & Inspection Co.,Ltd.

Address: 802, Floor8, Building4, No19, Beiyuan East Road, Chaoyang District, Beijing (100012)



ATC

CERTIFICATE

of Conformity

EC Council Directive 2014/30/EU

Electromagnetic Compatibility

Registration No.: ATE20180264

Page 1 of 2

Applicant: SHENZHEN PRIDE INSTRUMENT INC. BLOCK B, 4TH FLOOR BUILDING B, HAOYE LOGISTICS ZONE, SHUGANG TONGDAO, XIXIANG JIEDAO, BAO AN DISTRICT, SHENZHEN, CHINA

Product: DIGITAL CALIPER

Identification: Model No. : P1006-150 (Additional models please refer to model list)
Trade Mark : n.a.
Rating : DC 1.5V

Standards: EN 61000-6-3: 2007 + A1: 2011
EN 61000-6-1: 2007

The certificate of conformity is base on an evaluation of a sample of the above-mentioned product. Technical report and documentation are at the applicant's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU, referred to as the EMC Directive. This certificate does not imply assessment of the production and does not permit the use of ATC's logo. The applicant of the certificate is authorized to use this certificate in connection with the EU declaration of conformity according to Annex IV of the Directive.

Certified by

Mar. 1, 2018
Date

Sean Liu

The CE Marking may only be used if all relevant and effective EC Directives are complied with.

Shenzhen Accurate Technology Co., Ltd. - 1/F, Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China

Tel: +86-755-26502090 Fax: +86-755-26503396 E-mail: webmaster@atc-lab.com Http://www.atc-lab.com

SHENZHEN PRIDE INSTRUMENT INC

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Web:www.prideinstrument.com E-mail：sales@prideinstrument.com

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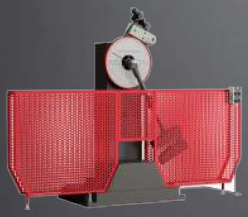


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QUALITY ASSURED FIRM
ISO 9001

PRIDE

PRIDE®

LEEB HARDNESS TESTER
ULTRASONIC HARDNESS TESTER
SHORE DUROMETER
DUROMETER TEST BLOCK KIT
DUROMETER TEST STAND
WEBSTER HARDNESS TESTER
BARBER HARDNESS TESTER
PORTABLE ROCKWELL HARDNESS TESTER
PORTABLE BRINELL HARDNESS TESTER
HAMMER HITTING BRINELL HARDNESS
READOUT MICROSCOPE
FRUIT HARDNESS TESTER
SAND HARDNESS TESTER
BENCH ROCKWELL HARDNESS TESTER
BRINELL HARDNESS TESTER
MICRO-VICKERS HARDNESS TESTER
VICKERS HARDNESS TESTER
UNIVERSAL HARDNESS TESTER
HARDNESS TESTER ACCESSORIES
INDENTERS
TEST BLOCKS
HARDNESS TESTER STAND





PORTABLE LEEB HARDNESS TESTER HARDY P150

The Hardy P150 measures the hardness of a large number of materials in various hardness units. Seven types of impact devices make this possible. It is equipped with a USB/RS232-cable for PC transfer

FEATURES:

- Wide measuring range with Leeb hardness testing principle
- 6 hardness units
- Large memory capacity with information about number of group, date, average value, impact device, impact times,material for every measured value
- Upper and lower limit can be preset. It will alarm automatically when the measured value exceeds the limit.
- Test at any angle, even upside down
- User calibration function
- 7 types of impact devices for specific applications optional
- Automatic identification by connection
- Large LCD-display: all functions and parameters are displayed + backlight
- PC-transfer with cable (both USB and RS232 interface) and software
- Battery capacity display - 100 hours operating time (without backlight)
- Auto power off (after 5 minutes) to save energy
- Measurements on steel, cast steel, cold work tool steel,stainless steel, gray cast iron, nodular cast iron, cast aluminium alloys, brass, bronze and wrought copper alloys Measurements on large and small hollows, bearings, heavy parts, permanently assembled parts
- Defect analysis of pressure vessels, steam generators, etc.
- Material identification of metal warehouses



TECHNICAL SPECIFICATIONS

Hardness units:	HL (Leeb), HB (Brinell), HRB (Rockwell B), HRC (Rockwell C), HV (Vickers), HS (Shore D)
Measuring range:	170 - 960 HLD
Measuring direction:	360°
Standard impact device:	D
Memory size:	48-600 groups (relative to number of impact impact times 1-32)
Statistics:	Number of group, date, average value, impact device, impact times, material, measured values
Setting of limits:	Acoustic signal by overstepping preset min. und max. limits
Minimum weight of sample:	> 5kg solid material; 2-5kg on stable surface; < 2kg with coupling paste on stable surface
Memory function:	Manually or automatically
Data transfer:	Cable (both USB and RS232-connection) und software
Languages device and manual:	English
Display:	128 × 64 Dot-Matrix-LCD
Backlight :	ON / OFF key
Battery capacity:	100 hours (without backlight)
Auto Power Off :	After 5 minutes
Power supply :	2 x 1,5 Volt-AA-batteries
Relative humidity:	≤ 90%
Working temperature:	-10°C to +40°C
Weight :	380 g (with batteries)
Size :	125 x 67 x 30mm

PORTABLE LEEB HARDNESS TESTER HARDY P400

FEATURES

- Wide measuring range. Based on the principle of Leeb hardness testing theory. It can measure the Leeb hardness of all metallic materials.
- Large screen(128×64 dot matrix LCD), showing all functions and parameters.
- Test at any angle, even upside down.
- Direct display of hardness scales HRB, HRC, HV, HB, HS, HL.
- Seven impact devices are available for special application. Automatically identify the type of impact devices.
- Large capacity memory could store 500 groups (Relative to average times32 ~ 1) information including single measured value, mean value, testing date, impact direction, impact times, material and hardness scale etc.
- Upper and lower limit can be preset. It will alarm automatically when the result value exceeding the limit.
- Battery information indicates the rest capacity of the battery and the charge status.
- User calibration function.
- Software to connect with PC via USB port.
- With EL background light.
- Thermal printer integrated, convenient for in field printing.
- NI-MH rechargeable battery as the power source. Charge circuit integrated inside the instrument. Continuous working period of no less than 150 hours (EL off and no printing)
- Auto power off to save energy.
- Outline dimensions : 212mm×80mm×32mm



APPLICATION

- Die cavity of molds
- Bearings and other parts
- Failure analysis of pressure vessel, steam generator and other equipment
- Heavy work piece
- The installed machinery and permanently assembled parts
- Testing surface of a small hollow space
- Material identification in the warehouse of metallic materials
- Rapid testing in large range and multi-measuring areas for large-scale work piece

STANDARD DELIVERY

No.	Item	Quantity	Remarks
1	Main Unit	1	
2	D type impact device	1	With cable
3	Standard test block	1	
4	Cleaning brush (I)	1	
5	Small support ring	1	
6	Battery Charger	1	9V 500mA
7	Paper for printing	1	
8	Manual	1	
9	Instrument case	1	

OPTIONAL ACCESSORY

No.	Item	Quantity	Remarks
1	Cleaning brush (II)	1	For use with G type impact device
2	Other type of impact devices and support rings		Refer to Table 3 and Table 4 in the appendix.
3	DataPro software	1	
4	Communication cable	1	

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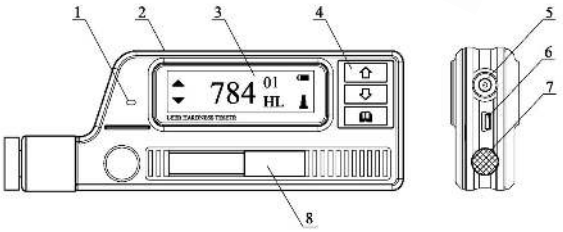
PORTABLE LEEB HARDNESS TESTER HARDY P300

FEATURES

- OLED display of 128x32 matrix
- Converts to all common hardness scales(HV ,HB,HRC,HRB,HRA,HS).
- Easy to use Menu driven system
- With mini USB interface, multiple communication modes are adopted to meet customized requirements of various users
- Max 600 groups of data can be stored in memory
- Upper and lower limit of hardness can be preset,with alarm
- Test values software calibration function
- Working voltage: 3.7V Rechargeable Li-Ion battery
- Continuous working period: approx. 50 h
- Bluetooth included, can be connected with printer through Bluetooth
- Can be used with Impact device Type C、DC、G、D+15、DL、E
- Smart and skid proof design
- Charging indicator



STRUCTURE



1：Charging indicator 2：Socket of Impact Device
3：OLED Screen 4：Function Key 5：Power Key
6：MiniUSB Port 7：Release Button 8：Loading sheath

APPLICATION

- The assembled machinery and permanently installed parts
- Die cavity of molds
- Heavy work piece
- Failure analysis of pressure vessel, steam turbo-generator set and other large equipment
- Testing of parts in confined areas or on gear teeth
- Bearings and other parts
- Material identification of the metal material warehouse

TESTING RANGE

- Testing range table

Material	Hardness Scale					
	HRC	HRB	HRA	HB	HV	HS
Steel and cast steel	19.8 ~ 68.5	59.6 ~ 99.6	59.1~85.8	80 ~ 651	83 ~ 976	32.2 ~ 115
Hammered steel				143~650		
Cold work tool steel	20.4 ~ 67.1				80 ~ 898	
Stainless steel		46.5 ~ 101.7		85 ~ 655	85 ~ 802	
Gray cast iron				93 ~ 334		
Nodular cast iron				131 ~ 387		
Cast aluminum alloys		23.8 ~ 84.6		19 ~ 164		
Brass(copper-zinc alloys)		13.5 ~ 95.3		40 ~ 173		
Bronze (copper-aluminum/ copper-tin alloys)				60 ~ 290		
Wrought copper alloys				45 ~ 315		

STANDARD DELIVERY

No.	Appellation	Quantity
1	Main unit with D probe	1
2	Small supporting ring	1
3	Nylon brush	1
4	High value Leeb test block	1
5	USB Communication cable	1
6	USB battery charger	1
7	DataView Software	1
8	Instruction Manual	1
9	Plastic toolbox	1

OPTIONAL ACCESSORY

1	Special support ring
2	Bluetooth printer
3	Wireless data transmission module
4	DC/D+15/G/C/E/DL Impact device

OPTIONAL IMPACT DEVICES

Part Name	Model No.
Impact device D	P-D1
Impact device DC	P-DC
Impact device C	P-C1
Impact device D+15	P-D15
Impact device DL	P-DL
Impact device E	P-E1
Impact device G	P-G1
Hardness test block D	P-DB
Hardness test block G	P-GB



hardness test block D



hardness test block G optional



DC (optional) | C (optional) | D (standard) | D+15 (optional) | DL (optional) | E (optional) | G (optional)

TECHNICAL SPECIFICATIONS

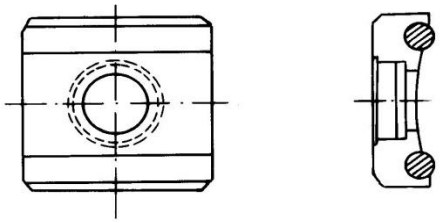
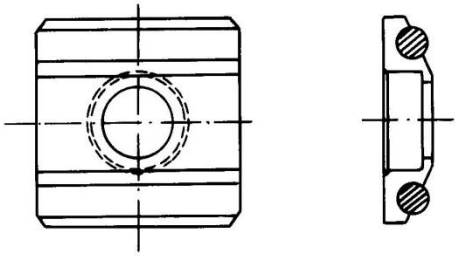
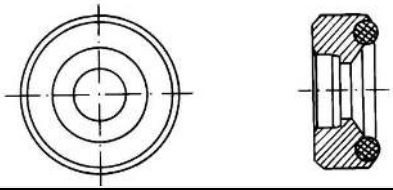
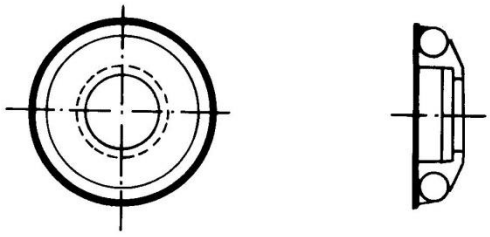
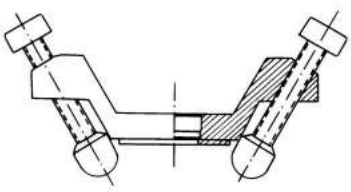
Impact Device		D	DC	DL	C	D+15	E	G
Impacting energy		11mJ	11mJ	11mJ	2.7mJ	11mJ	11mJ	90mJ
Mass of impact body		5.5g	5.5g	7.2g	7.8g	3.0g	5.5g	20g
Test tip hardness		1600HV	1600HV	1600HV	1600HV	1600HV	1600HV	1600HV
Dia. Test tip		3mm	3mm	3mm	3mm	3mm	3mm	3mm
Material of test tip		Tungsten carbide						
Impact Body								
Diameter		20mm	20mm	20mm	20mm	20mm	20mm	30mm
Length		147mm	86mm	75mm	141mm	162mm	155mm	254mm
Weight		50g	50g	50g	75g	80g	80g	250g
Max. hardness of sample		940HV	940HV	940HV	1000HV	940HV	1200HV	650HB
Average roughness Ra		1.6μm	1.6μm	1.6μm	0.4μm	1.6μm	1.6μm	6.3μm
Min. weight of sample								
Measure directly		>5kg	>5kg	>5kg	>1.5kg	>5kg	>5kg	>15kg
Need support firmly		2~5kg	2~5kg	0.5~1.5kg	2~5kg	2~5kg	2~5kg	5~15kg
Need coupling tightly		0.05~2kg	0.05~2kg	0.02~0.5kg	0.05~2kg	0.05~2kg	0.05~2kg	0.5~5kg
Min. thickness of sample								
Coupling tightly		5mm	5mm	5mm	1mm	5mm	5mm	10mm
hardening layers		≥0.8mm	≥0.8mm	≥0.8mm	≥0.2mm	≥0.8mm	≥0.8mm	≥1.2mm
Indentation of test tip								
Hardness 300HV	Diameter	0.54mm	0.54mm	0.54mm	0.38mm	0.54mm	0.54mm	1.03mm
	Depth	24μm	24μm	24μm	12μm	24μm	24μm	53μm
Hardness 600HV	Diameter	0.45mm	0.45mm	0.45mm	0.32mm	0.45mm	0.45mm	0.90mm
	Depth	17μm	17μm	17μm	8μm	17μm	17μm	41μm
Hardness 800HV	Diameter	0.35mm	0.35mm	0.35mm	0.30mm	0.35mm	0.35mm	
	Depth	10μm	10μm	10μm	7μm	10μm	10μm	
Error and repeatability of displayed value								
Hardness value		760±30HLD 530±40HLD	760±30HLDC 530±40HLDC	878±30HLDL 736±40HLDL	822±30HLC 590±40HLC	766±30HLD+15 544±40HLD+15	725±30HLE 508±40HLE	590±40HLG 500±40HLG
Error of value		±6/±10 HLD	±6/±10 HLDC	±12 HLDL	±12HLC	±12 HLD+15	±12HLE	±12 HLG
Repeatability		6/10 HLD	6/10 HLDC	12 HLDL	12HLC	12 HLD+15	12HLE	12 HLG

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OPTIONAL SUPPORTING RINGS



Model No.
PS-12A

No.	Type	Sketch of non-conventional Supporting ring	Remarks
1	Z10-15		For testing cylindrical outside surface R10 ~ R15
2	Z14.5-30		For testing cylindrical outside surface R14.5 ~ R30
3			For testing cylindrical outside surface R25 ~ R50
4	HZ11-13		For testing cylindrical inside surface R11 ~ R13
5	HZ12.5-17		For testing cylindrical inside surface R12.5 ~ R17
6	HZ16.5-30		For testing cylindrical inside surface R16.5 ~ R30
7	K10-15		For testing spherical outside surface SR10 ~ SR15
8	K14.5-30		For testing spherical outside surface SR14.5 ~ SR30
9	HK11-13		For testing spherical inside surface SR11 ~ SR13
10	HK12.5-17		For testing spherical inside surface SR12.5 ~ SR17
11	HK16.5-30		For testing spherical inside surface SR16.5 ~ SR30
12	UN		For testing cylindrical outside surface, radius adjustable R10 ~ ∞

ULTRASONIC HARDNESS TESTER UCI-20



INTRODUCTION

The Ultrasonic Hardness Tester UCI-20 is ideal for measuring metals and alloys with a minimum thickness of 3 mm across a diverse range of applications.

APPLICATIONS

Hardness test of flange edge and gear root stamping parts, mold, thin plate, face-hardened gear tooth, gear groove and taper part
Hardness test of axle and thin-wall pipes and vessels
Hardness test of wheels and turbine rotors
Hardness test of bit edge
Hardness test of welding parts
Measure the depth of deep hole with certain aperture, concave and convex mark with large radians, and irregular plane
Hardness test of most ferrous and nonferrous metals and their alloys in industrial production

FEATURES

■**Nondestructive Testing:** Perfect for testing the hardness of hardened layers and thin without damaging the
■**Display:** Features a 3.5-inch color LCD screen that shows detailed measurement data and status.
■**Hardness Scale Conversion:** Converts common hardness scales such as HV, HB, facilitating diverse application
■**Memory and Calibration:** Equipped with a built-in 8G SD card for ample storage and hardness value calibration using a standard test
■**Material Compatibility:** Suitable for steel, cast steel, alloy tool steel, special cast non-ferrous metals, ensuring versatility across
■**Advanced Measurement Features:** Offers features such as the display of maximum, average values, standard deviation, and measurement count. It also includes upper/lower limit setting with an alarm for out-of-limit values.
■**Power Supply:** Powered by a rechargeable lithium-ion battery, providing over 30 continuous
■**Enhanced Portability:** Includes a portable stand to enhance measurement accuracy applications
■**Tiny test indentation** - smaller than a Leeb hardness tester and requires a high-power microscope to see.
■**High test speed** -- output test results within 2S.
■**Easy to test on assembly line** -- compare with Leeb hardness tester.
■**50 sets of data storage** -- the data includes time information.
■**360° test without correction.**

TECHNICAL SPECIFICATION

Standards	DIN50159-1-2008; ASTM-A1038-2005;							
Range	HV50-1599, HRC20-76, HB76-618, HRB41-100, HRB41-100, HRA61-85.6, Mpa255-2180							
Test Error	HRC: ± 2HRC; HB: ± 3%HB; HV: ± 3%HV							
Maximum allowable relative error	Hardness of standard test block	Maximum allowable relative error of hardness tester %						
		HV10	HV5	HV2	HV1	HV0.8	HV0.3	HV0.1
	<250HV	4	4	4	4	4	5	5
	250HV-500HV	4	4	4	4	4	6	6
	>500HV-800HV	4	4	5	5	5	7	7
	>800HV	4	4	6	6	6	8	8
Probe test force	2kgf(optional 0.5kgf, 1kgf, 5kgf, 10kgf)							
Working temperature	-20℃~50℃							
Working humidity	<=85%							

Probe parameters:

Probe	0.5kgf manual probe	1kgf manual probe	2kgf manual probe	5kgf manual probe	10kgf manual probe
Accessory	Optional accessory	Optional accessory	Standard accessory	Optional accessory	Optional accessory
Test force	5N	10N	20N	50N	98N
Diameter	22mm	22mm	22mm	22mm	22mm
Length	150mm	150mm	150mm	150mm	150mm
Resonant rod diameter	2.4mm	2.4mm	2.4mm	2.4mm	2.4mm
Maximum roughness of test surface	Ra<3.2um	Ra<3.2um	Ra<5um	Ra<10um	Ra<15um
Minimum workpiece weight	0.3kg	0.3kg	0.3kg	0.3kg	0.3kg
Minimum workpiece thickness	2mm	2mm	2mm	2mm	2mm

STANDARD DELIVERY: Hardness tester UCI-20, Probe (2kgf), Probe cable, 5V ac power adapter, carrying case, Standard test block

OPTIONAL ACCESSORIES: Probe (optional 0.5kgf, 1kgf, 5kgf, 10kgf)

ANALOG DUROMETERS

- A reliable instrument for measuring the impression hardness of soft materials such as coatings, plastics and rubber. Equipped with a drag indicator, which holds the highest measured result. Delivery includes metal test block
- Optional accessoires: standard rubber test blocks Operation test stand



AD-500 AD-510 AD-520

Model No : AD-500

FEATURES :

- Durometer type A for materials such as elastomers, vinyl, rubber, leather, pvc, silicone-rubber, teflon, neopreen, etc..
- Meet or exceed: ISO 868,ISO 7619,ASTM D2240,DIN 53505,JIS K 6253
- Range: 0 -100 points
- Accuracy: 1 point

Model No : AD-510

FEATURES :

- Durometer type C for materials such as soft rubber,foamed elastomers,wound threads etc
- Meet or exceed: ISO 7619,ASTM D 2240,DIN 53505,JIS K 7215
- Range: 0 -100 points
- Accuracy: 1 point

Model No : AD-520

FEATURES :

- Durometer type D for materials such as polyester, ABS, nylon, polyurethane, kevlar, acryl, wood, polystyrene etc
- Meet or exceed: ISO 868,ISO 7619,ASTM D 2240,DIN 53505,JIS K 6253
- Range: 0 -100 points
- Accuracy: 1 point

DIGITAL DUROMETERS



PDT-809A



PDT-809D

TECHNICAL SPECIFICATIONS

Unit: mm

Model NAo.	PDT-809A	PDT-809D	PDT-809C
Test scale	Durometer type A	Durometer type D	Durometer type C
Usage	For materials such as elastomers, vinyl, rubber, leather, pvc, silicone-rubber, etc	For materials such as polyester, ABS, nylon, polystyrene etc.	For materials such as soft rubber,foamed elastomers etc.
Parameter display	Hardness result,Average value,Max.Value		
Internationa l standards	Meet or exceed: ISO 868,ISO 7619,ASTM D 2240,DIN 53505,JIS K 6253		
Measurement range	0-100HA	0-100HD	0-100HC
Measurement deviation	≤±1% HA	≤±1% HD	≤±1% HC
Resolution	0.5HA	0.5HD	0.5HC
Operating conditions	0℃ to 40℃		
Power supply	1.5V cell(SR44/LR44) battery		
Battery indicator	low battery indicator		

DIGITAL DUROMETER



PDT-808A



PDT-808D

TECHNICAL SPECIFICATIONS

Model No.	PDT-808A	PDT-808D
Test scale	Durometer type A	Durometer type D
Usage	For materials such as elastomers, vinyl, rubber,leather,pvc, silicone-rubber, etc	For materials such as polyester, ABS, nylon, polystyrene etc.
Parameter display	Hardness result,Average value,Max.Value	
International standards	Meet or exceed: ISO 868,ISO 7619,ASTM D 2240,DIN 53505,JIS K 6253	
Measurement range	0-100HA	0-100HD
Measurement deviation	≤±1% HA	≤±1% HD
Resolution	0.5HA	0.5HD
Operating conditions	0℃ to 40℃	
Power supply	1.5V cell(SR44/LR44) battery	
Battery indicator	low battery indicator	

DIGITAL DUROMETER Hardy D400



TECHNICAL SPECIFICATIONS

Model No.	Indenter	Typical Examples of Materials Tested	Hardness values
Shore A Hardy D400	0.79Truncated (frustum)cone	Soft vulcanized rubber, natural rubber, nitriles, thermoplastic elastomers, flexible polyacrylics and thermosets, wax Wax, felt, and leathers.	20~90A
Shore B Hardy D410	R0.1Cone	Moderately hard rubber, thermoplastic elastomers, paper products, and fibrous materials.	Above 90A Below 20D
Shore C Hardy D420	0.79Truncated (frustum)cone	Medium-hard rubber, thermoplastic elastomers, medium-	Above 90B Below 20D
Shore D Hardy D430	R0.1Cone	Hard Rubber, thermoplastic elastomers, harder plastics, and very dense textile windings.	Above 90 A
Shore DO Hardy D440	R1.2Spherical radius	Moderately hard rubber, thermoplastic elastomers, and very dense textile windings.	Above 90 C Below 20 D
Shore O Hardy D450	R1.2Spherical radius	Soft rubber,thermoplastic elastomers,very soft plastics and thermoplastics,medium-density textile windings.	Below 20DO
Shore E Hardy D460	R2.5Spherical radius	Hard sponge, EVA	Above 90DO Below 20 A
Shore OO Hardy D470	R1.2Spherical radius	Extremely soft rubber, thermoplastic elastomers, sponge, extremely soft plastics and thermoplastics, foams, low-density textile windings.	Below 20 O

DUROMETER TEST BLOCK KIT

■ Durometer testblock kit with different values of hardness. As a reference check it will indicate if a durometer is operating within tolerances. The indivual test blocks are provided with serial numbers to guarentee incontestable identification

PDT-813A 7-PIECE-SHORE A MASTER TEST BLOCK KIT

FEATURES:

■ The kit consists of color coded test blocks:
Purple 32 Claret 39 Green 52 Orange 61
Red 71 Yellow 80 Gray 88

■ Note: The side with "HA" mark is the standard detected side.The indicated readings are derived from an average of 6 readings taken with our standard durometer calibrated regularly. For periodic verification of calibration accuracy, take an avarage of 3 readings in different spots on each test block. The result should be approximate to those shown.



PDT-813A

PDT-813D 3-PIECE-SHORE D MASTER TEST BLOCK KIT

FEATURES:

■ The kit consists of 3 color coded test blocks:
Orange 13 Gray 30 Black 90

■ Note: The indicated readings are derived from an average of 6 readings taken with our standard durometer calibrated regularly. For periodic verification of calibration accuracy, take an avarage of 3 readings in different spots on each test block. The result should be approximate to those shown. Results comparasions may vary between durometers with non-similar configurations.



PDT-813D

DUROMETER TEST STAND

■ The Durometer test stand is suitable for durometer type A,C and D only. The test stand construction includes operating handle, adjustable glass stage, (height) adjustable Durometer fixture. With this test stand hardness tests of rubber or plastics with a Durometer can be performed more accurately and reproducibly.

PDT-800A(use for durometer type A,C)

FEATURES:

■ Dimensions: 160 x 116 X 340 mm
■ Weight: 1 kg
■ Scope of supply: Test stand with weight.



PDT-800A

PDT-800D (use for durometer type D)

FEATURES:

■ Dimensions: 160 x 116 X 430 mm
■ Weight: 5 kg
■ Scope of supply: Test stand with weight.



PDT-800D

WH WEBSTER HARDNESS TESTER

WH Webster hardness tester is a portable instrument which can on-site test soft metals quickly. The Webster Hardness Tester is used to inspect the result of heat treatment,to sort the materials in the warehouse, and to test the long workpieces inconvenient taken to the lab. The Webster hardness tester is very suitable for quality inspection of batch products one by one in the production field. The hardness value can be read directly on the indicator dial.



A test can be completed by one press

- Models for testing brass, copper and mild steel respectively
- Modification models for testing thick pieces or slim tubings
- Tests sheets, extrusions, pipes
- Very fast, very simple and very portable
- Small indentation
- Conforms to ASTM B647

MODEL No.	Dimension of specimen	NET WEIGHT	APPLICATIONS
WH-20	0.4 - 6mm	0.5KG	regular type for aluminum alloy profile, pipe and sheet
WH-20A	0.4 - 13mm	0.5KG	thick wall aluminum alloy material
WH-20B	Min Dia: 6	0.5KG	aluminum alloy pipe of small diameter and aluminum alloy
WH-B75	Thickness:0.4-6mm	0.5KG	Extra-hard aluminum, brass
WH-B75B	Min Dia : 6mm	0.5KG	Slim extra-hard aluminum or brass pipe
WH-B92	0.4 – 6mm	0.5KG	Soft steel materials not exceeding 230 HV, such as cold rolled sheet, hot rolled sheet and galvanized sheet etc.
WH-BB75	0.4 – 6mm	0.5KG	Copper and soft copper alloys such as annealed brass
WH-BB75B	Min Dia : 6mm	0.5KG	Copper or annealed brass pipe

WH WEBSTER HARDNESS TESTER

APPLICATION

- To determine whether the workpiece has been heat treated, to check the effect of heat treatment
- To determine whether the workpiece has an improper alloy processing
- To test the workpiece which is inconvenience to the laboratory(too long, overweight workpiece or assembly parts)
- Used for production inspection, acceptance inspection and quality supervision and inspection
- Mainly used for measuring aluminum alloy (1100~7075 Series) hardness



TECHNICAL SPECIFICATION

- Hardness Measuring range: 0 ~ 20HW (aluminum and aluminum alloy 20 ~ 110HRE)(Copper Alloy 60 ~ 90 HRF)
- Measuring accuracy:±0.5HW
- Display resolution:0.1HW

MODEL SELECTION

Model No.	Sample Size/Diameter(mm)
DW-20	Thickness≤6 (Plate);Inner diameter≥10(Pipe)
DW-20a	Thickness≤13(Plate);Inner diameter≥10(Pipe)
DW-20b	Thickness≤8 (Plate);Inner diameter≥6(Pipe)

STANDARD DELIVERY

Part name	Qty	Part name	Qty
Host	1	Standard hardness block	2
Charger	1	Adjustment nut special spanner	1
Li battery	1	Manual	1

OPERATION PRINCIPLE

Digital display Webster hardness tester is a kind of indentation hardness tester. Under certain pressure, the pressure needle into the sample surface, the pressure is inversely proportional to the depth and material hardness.

Webster's hardness with symbol HW said.

For range of samples, after strength numerical still shows 20.0; For the low range of sample, numerical display strength after 00.0.

BARBER HARDNESS TESTER BHT

INTRODUCTION

■ A portable indentation hardness tester.
Single hand operation; no operating experience required, can test any workpiece which is reachable in any site.
Wide valid testing range equivalent to Brinell hardness 25-150 HBW.
Used to test the hardness of all kinds of aluminum, from very soft aluminum to very hard aluminum alloys. Extended applicatio n. Model BHT is applied to test the hardness of aluminum, aluminum alloys, copper, copper alloys, fiber reinforced plastics and rigid plastics etc. The improved model of it is avail able to test very soft metals such as lead and tin and other soft materials such as soft plastics, rubber, felt and leather etc.
High sensitivity. Featured with 100 scales, much more sensitive than Webster hardness testers applied in aluminum alloys industry. No supporting required. Can test from only one side of th e workpiece. No need to move or support the workpiece. Used to test super large and thick worpieces and assembly parts.
Easy conversion. The test results can be converted to HB, HR, HV and HW easily through conversion table.
Comply to standard ASTM B648-2000.



BARBER HARDNESS TESTER BHT

APPLICATION

■ Barcol Impressor is mainly applied to test aluminum and aluminum alloys. Webster is used to test aluminum alloy extrusions, sheet and tubings. Barcol Impressor is suitable to test pure aluminum, soft aluminum alloys, super thick aluminum alloys, aluminum alloys bars and assembled aluminum alloys parts (e.g. al-alloy door &window, scaling ladder etc.) Relevant Standard: ASTM B648 (Test Method for Indentation Hardness of Aluminum Alloys by Means of a Barcol Impressor)

■ Barcol Impressor is also used to test fiber reinforced plastics and rigid plastics etc.
Relevant Standard: ASTM D2583-07(Test Method for Indentation Hardness of Rigid Plastics by Means of a Barcol Impressor)

■ The improved models of Barcol Impressor are available to test softer plastics, very soft metals, rubber and leather etc.

TECHNICAL SPECIFICATIONS

Model No.	BHT
Indenter	26° panhead cone, head face diameter 0.176mm
Testing Range	0~100HBa, equivalent to 25~150HBW
Resolution Indicati on error	0.5HBa hardness range 42~52HBa, ±2HBa hardness range 84~88HBa ±1HBa
Repeatability error	hardness range 42~52HBa, ±2HBa hardness range 84~88HBa ±1HBa
Net weight	0.5kg



STANDARD DELIVERY

	Quantity	Standard Delivery	Quantity	Standard Delivery	Quantity
Main unit	1	Calibration wrench	1	Accessories Box	1
High value hardness block	1	Low value hardness block	1	Spare indenters	1

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DIGITAL BARBER HARDNESS TESTER BH-110

FEATURES:



- It is mainly used in aluminum processing industry, testing pure aluminum, soft aluminum, thick aluminum alloy, aluminum strip, aluminum rod, aluminum castings, aluminum forgings and aluminum alloy products. Also, it can be used for glass steel industry.
- It is characterized in that provided with a balance positioning, a digital display of hardness value, and a non disassembly calibration and adjusting.
- It is with good stability, convenient calibration, and high accuracy of detection.
- Small in size, portable. Single hand operation, easy to use. Can be used in any occasion as long as the hand can reach.
- Wide test range, can test from very soft pure aluminum to a particularly hard aluminum alloy. effective test range equivalent to the Brinell Hardness of 25~150HB.
- No need to be supported. Just test on one side of the sample with the hardness tester, no need to be supported. It is suitable for the test of large and extra thick workpiece.
- With the maximum hold function, recording the maximum hardness value during measurements.
- Can be used for measuring Barcol Hardness, other hardness value can be calculated out by the experimental curve. Such as Brinell Hardness (HB), Vickers Hardness (HV), Webster Hardness (HW), Rockwell Hardness (HRB/HRE/HRF/HRH).
- Provide Bluetooth data output choice.

TECHNICAL SPECIFICATION

Range	0~100Hba, Amount to 25~135HBW
Resolution	0.1HBa
Indication Error	81~88HBa ±1HBa
	42~48HBa ±2Hba
Repeatability Error	81~88HBa ±1.5HBa
	42~48HBa ±2.5HBa
Maximum Hold	√
Operating Condition	Temperature: 0~50°C
	Humidity: <80%RH
Power Supply	2 x 1.5 V AAA (UM-4) Battery
Weight	390g (Not Including Batteries)

STANDARD DELIVERY

- Main Unit
- 2 Pins
- 2 Standard Blocks
- Pin Length Calibration Block
- Screw Driver
- Spanner
- Carrying Case
- Operation Manual

OPTIONAL ACCESSORY

- Bluetooth data out put with software

DIGITAL BARBER HARDNESS TESTER BH-120

FEATURES

- It is mainly used in aluminum processing industry, testing pure aluminum, soft aluminum, thick aluminum alloy, aluminum strip, aluminum rod, aluminum castings, aluminum forgings and aluminum alloy products. Also, it can be used for glass steel industry
- It is characterized in that provided with a balance positioning, a digital display of hardness value, and a non disassembly calibration and adjusting
- It is with good stability, convenient calibration, and high accuracy of detection
- Small in size, portable. Single hand operation, easy to use. Can be used in any occasion as long as the hand can reach
- Wide test range, can test from very soft pure aluminum to a particularly hard aluminum alloy. effective test range equivalent to the Brinell Hardness of 25~150HB
- No need to be supported. Just test on one side of the sample with the hardness tester, no need to be supported. It is suitable for the test of large and extra thick workpiece
- With the maximum hold function, recording the maximum hardness value during measurements
- Can be used for measuring not only Barcol Hardness, but also Brinell Hardness (HB), Vickers Hardness (HV), Webster Hardness (HW), Rockwell Hardness (HRB/HRE/HRF/HRH)
- With the function of calculating the average value, can calculate the average value of the 29 sets of data at most
- Provide Bluetooth data output choice



SPECIFICATION

Range	0~100Hba, Amount to 25~135HBW
Resolution	0.1HBa
Indication Error	81~88HBa ±1HBa
	42~48HBa ±2Hba
Repeatability Error	81~88HBa ±1.5HBa
	42~48HBa ±2.5HBa
Brinell Hardness	√
Vickers Hardness	√
Webster Hardness	√
Rockwell hardness	√
Maximum Hold	√
Average Calculation	√
Operating Condition	Temperature: 0~50°C
	Humidity: <80%RH
Power Supply	2 x 1.5 V AAA (UM-4) Battery
Weight	390g (Not Including Batteries)

STANDARD DELIVERY

- Main Unit
- 2 Pins
- 2 Standard Blocks
- Pin Length Calibration Block
- Screw Driver
- Spanner
- Carrying Case
- Operation Manual

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DIGITAL MAGNETIC ROCKWELL HARDNESS TESTER HR-200



FEATURES

- Portable digital hardness tester for the measurement of Rockwell hardness according to standards EN ISO 6508 & ASTM E18
- Fixation of the test head on the surface of iron and steel parts by applying a magnetic force
- Test of pieces of big sizes or when the clamping is not possible or too complicate
- As simple to use as a micrometer: the operator applies the preload using the crank with help of the LCD display indicating the true load, increases the load and returns to preload. The LCD display directly the hardness

TECHNICAL SPECIFICATION

Preload: 10 kg
Main charges: 60/100/150 kg
Testing range:20~88HRA, 20~100HRB, and 20~70HRC
Digital measurement of the force with a high precision / stability load cell, test force error: ≤±1%
Digital measurement of the depth, resolution: 0.1 HR
Surface of contact:
- flat, min: 60x195 mm, thickness ≥ 5 mm
- cylindrical, min. ØxL: 60x200 mm , thickness ≥ 8 mm
Operating temperature: 0~50°C
Weight
- hardness tester: 5.3 kg
- complete with carrying case: 10.0 kg
Dimensions carrying case: 480x390x210 mm
Accuracy & repeatability: EN ISO 6508 & ASTM E18 standards

STANDARD DELIVERY

Hardness tester
Cone 120 ° diamond Indenter
Penetrator ball 1/16 "
3 blocks to calibration
Base for test block
Adapter for cylindrical surfaces
Battery pack
Recharger
Carrying case

MAGNETIC ROCKWELL HARDNESS TESTER HR-100



TECHNICAL SPECIFICATION

Preload: 10 kg
Main charges: 60/100/150 kg
Resolution: 0.5 HR
Surface of contact:
- flat, min: 60x180 mm, thickness ≥ 5 mm
- cylindrical, min. ØxL: 60x200 mm , thickness ≥ 8 mm
Weight
- hardness tester: 4.7 kg
- complete with carrying case: 10.0 kg
Dimensions carrying case: 480x390x210 mm
Accuracy & repeatability: EN ISO 6508 & ASTM E18 standards

STANDARD DELIVERY

Hardness tester
Cone 120 ° diamond Indenter
Penetrator ball 1/16 "
3 blocks to calibration
Base for test block
Adapter for cylindrical surfaces
Carrying case

ROCKWELL HARDNESS TESTER HR-1/2



FEATURES

- Small and light. Min weight 0.8Kg
- Operation as simple as micrometer.
- Convenient , Used on table or take off.
- Reliable. Designed by Rockwell hardness test method.
- As accurate as desk testers. Complying with ISO 6508 and ASTM E18. Traceable standard block.
- Traceable test force.

TECHNICAL SPECIFICATION

Preload: 10 kg
Main charges: 60/100/150 kg
Resolution: 0.5 HR
Swan neck openingsize: 25x25 mm
Weight
- hardness tester: 0.8 kg
- support: 1.5 kg
Dimensions: 330x255x150 mm

STANDARD DELIVERY

Hardness tester
Table stand
Cone 120 ° diamond Indenter
Penetrator ball 1/16 "
3 blocks to calibration
Flat anvil
V anvil
Extension
Carrying case

Model No.	Opening size W*D (mm)	Net weight (Kg)		Gross Weight (Kg)		Package dimensions (mm*mm*mm)	
		Tester	Bench stand	tester	Bench stand	Tester	Bench stand
HR-1	25*25	0.8	1.5	2.8	1.8	330*255*150	215*148*232
HR-2	50*50	1.2	1.5	3.7	1.8	390*280*160	215*148*232

SUPERFICIAL ROCKWELL HARDNESS TESTER



FEATURES

- Portable hardness tester for the measurement of Super Rockwell hardness according to standards EN ISO 6508 & ASTM E18
- Small and light, weight only 0.8 kg

TECHNICAL SPECIFICATION

Preload: 3 kg
Main charges: 15/30/45 kg
Resolution: 0.5 HR
Swan neck openingsize: 25x25 mm
Weight
- hardness tester: 0.8 kg
- support: 1.5 kg
Dimensions: 330x255x150 mm

STANDARD DELIVERY

Hardness tester
Table stand
Cone 120 ° diamond Indenter
Penetrator ball 1/16 "
3 blocks to calibration
Flat anvil
V anvil
Extension
Carrying case

Model No.	Opening size W*D (mm)	Net weight (Kg)		Gross Weight (Kg)		Package dimensions (mm*mm*mm)	
		Tester	Bench stand	Tester	Bench stand	Tester	Bench stand
HR-1S	25*25	0.8	1.5	2.6	1.8	330*255*150	215*148*232
HR-2S	50*50	1.1	1.5	3.6	1.8	390*280*160	215*148*232
HR-1ST	Dia>4.8	0.8	1.5	2.0	1.8	330*255*150	215*148*232

DIGITAL MAGNETIC BRINELL HARDNESST TESTER 187,5 KG HB-200



FEATURES

- With the magnetic chucks, fix the HB-200 Digital Brinell Hardness Tester on the specimen surface and finish testing. It is completely based on the Brinell test principle, and the test method complies with ASTM E10, ISO6506.
- Fixation of the test head on the surface of iron and steel parts by applying a magnetic force
- Being used together with the Brinell indentation measurement system, it can be applied to quick and precise test of specimen's Brinell hardness on site.
- Applied to steel parts that too large or too heavy for table tester to test.
- Applied to testing heat treatment parts such as steel plate, pipe, mould with available testing surface.
- Applied to testing the hardness of weld joint on boilers, pressure vessels and pressure pipes.
- As simple to use as a micrometer: the operator applies the preload using the crank with help of the LCD display indicating the true load, increases the load and returns to preload. He can then measure the indentation with a measuring microscope.
- the HB-200 tester could replace the Leeb hardness tester which is in low accuracy and reliability.

TECHNICAL SPECIFICATION

Test force: 187,5 kg
Indenter: Ø 2.5 mm carbide ball
Digital measurement of the force with a high precision / stability load cell, test force error: ≤ ±1%
Complies with ASTM E10, ISO6506
Surface of contact:
* flat, min: 60x195 mm, thickness ≥ 5 mm
* cylindrical, min. ØxL: 60x200 mm , thickness ≥ 8 mm
Lighting of the test area
Operating temperature: 5~45°C
Weight
* hardness tester: 5.1 kg
* complete with carrying case: 10.0 kg
Nominal dimension (LxDxH): 245×105×138mm
Dimensions carrying case: 480x390x210 mm
Accuracy & repeatability: EN ISO 6506 & ASTM E10 standards

STANDARD DELIVERY

Hardness tester
Ø 2.5 carbide ball indenter
2 blocks to calibration
40x measuring microscope
Base for test block
Battery pack
Recharger
Carrying case

MAGNETIC DIGITAL BRINELL ROCKWELL HARDNESS TESTER HBR-200



TECHNICAL SPECIFICATION

Initial test Force: 10kg
Total Test Force: 60kg, 100kg, 150kg,187.5kg
Testing Range: 20-88HRA, 20-100HRB, 20-70HRC, and 150-450HBWT
Testing Resolution: 0.1HR or 1HBW
Indication Error: complying with ISO,ASTM standards
Repeatability Error: complying with ISO,ASTM standards
Test Force Error: ≤1%
Operating Temperature: 5-45℃
Net Weight: 5.3kg
Test Piece Surface: Flat:
Area≥195mm×60mm, Thickness≥5mm
Cylinder:
Diameter≥60mm ,Length≥200mm ,Thickness≥8mm

STANDARD DELIVERY

Tester, 120° Diamond Indenter,1.588mm Carbide Alloy Ball Indenter,2.5mm Carbide Alloy Ball Indenter,Rockwell Hardness Block,Brinell Hardness Block,40X Reading Microscope,Seat Iron, Recharger,Battery Box, Carrying Case

BRINELL HARDNESS TESTER PBX-0.5



TECHNICAL SPECIFICATION

Measuring range: 100-400HBS
Impact capacity: 4.9J
Dimensions: Φ55 x 370mm
Weight: approx. 3.3kg

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

HAMMER HITTING BRINELL HARDNESS TESTER BH-PBC



TECHNICAL SPECIFICATION

Measuring range: < 450 HBS
Diameter of steel ball: Φ10mm
Dimensions: Φ25 x 110mm
Weight: approx. 0.5kg

Main accessories
Brinell standardized block: 2 pcs.
20X Readout microscope: 1 pc.

READOUT MICROSCOPE BH-20/40



APPLICATION

Designed for determining the diameter of indentation in Brinell hardness testing. They can also be used for measuring the width and length of scale mark, slit, key slot and dent, as well as checking metal case quality, density of fibre and field specimens, etc.

TECHNICAL SPECIFICATION

Model / Specifications	BH-20	BH-40
Magnification	20X	40X
Effective field number (mm)	6	3
Dimensions mm	70 x 50 x 155	70 x 50 x 187
Weight (kg)	0.5	0.6

CHAIN / HYDRAULIC BRINELL HARDNESS TESTER BH-3000C



CHAIN TYPE BH-3000P



HYDRAULIC TYPE BH-3000C

APPLICATION

On-site test of steel products, nonferrous metal, castings, forgings, and semi-finished heat treatment parts.

Applied to too large parts for desk testers to test. Replace Leeb testers which are in low accuracy and reli-ability.

Indentation could be read by indentation automatic measurement system and hardness valves displayed directly.

FEATURES

Test principle:

Apply hydraulic principle permiting loading 3,000Kgf manually.

On-site Testing:

It could be applied in workshop, simple operation, easy carrying, and testing body hardness of large parts piece by piece.

Permanent Indentation:

By 3,000Kgfand 10mm test ball, the indentation is permanent for re-inspecting.

High Reliability:

It follows Brinell hardness test method completely, the same as desk testers, reflecting the actual mechanical property of material or parts.

High Accuracy:

Indication error, repeatability error and test force accuracy comply with ISO, and ASTM standards, the same as desk testers.

Wide Application Range:

As long as clamped tothe parts, it could test parts in any shape and size.

Wide Test Range:

It could test various common metal materials by its combination of different test force and test head, that is, wide test range.

TECHNICAL SPECIFICATION

Test Force	3000kg (1000kg, 750kg, 500kg optional)
Test Ball	10mm Carbide alloy test ball (5mm optional)
Test Range	32-650HBW
Opening Dimension	350mm (Height) x 1OOmm(Throat depth)
Indicator Error	complies with ISO 6506, and ASTM E1 O.
Repeatability Error	complies with ISO 6506, and ASTM E1 O.
Test Force Error	complies with ISO 6506, and ASTM E10.
Weight	14 kg. Approx.

STANDARD DELIVERY

Hardness tester,load handle,brinell hamess block,20X reading microscope,10mm spare carbide alloy test ball,chain measuirng frame,1.3m chain

PORTABLE BRINELL HARDNESS TESTER



BH-150

TECHNICAL SPECIFICATION

Test force 1580 kgf
Indenter:
* 7.26mm steel ball indenter, test range 100~350 HBW
* 4mm carbide ball indenter, test range 350~650 HBW
Measurement error: ≤ 2~3% conforming to ISO, ASTM
Repeatability error: ≤ 2~3% conforming to ISO, ASTM
Opening dimension: 150mm (height) x 100mm (throat depth)
Net weight: 4.2 kg

STANDARD DELIVERY

Frame with clamping screw
Crank
Impact body with pin housing
Steel ball Ø 7.26 mm
Box of 250 pins
Pin ejector / cleaner
Flat anvil
V anvil
20x microscope
Transport case



BH-1

TECHNICAL SPECIFICATION

Test force 1580 kgf
Indenter:
* 7.26mm steel ball indenter, test range 100 ~ 350 HBW
* 4mm carbide ball indenter, test range 350 ~ 650 HBW
Measurement error: = 5% conforming to ISO, ASTM
Repeatability error: = 5% conforming to ISO, ASTM
Net weight: 0.8 kg

STANDARD DELIVERY

Impact body with pin
Grab handle
Steel ball Ø 7.26 mm
Box of 250 pins
Pin ejector / cleaner
20x microscope
Transport case

Model No	Opening Size (W×Dmm)	Net Weight (kg)	Gross Weight (kg)	Package Dimensions (mm×mm×mm)	Remarks (mm)
BH-150	150×100	4.2	11.6	705×375×205	Static& Hammer impact
BH-1	No limitation	0.8	3.8	510×375×177	Hammer impact

Set of 250 shear pins for BH-1/150



Model No.
BH-151



FRUIT HARDNESS TESTER GY-1/2/3

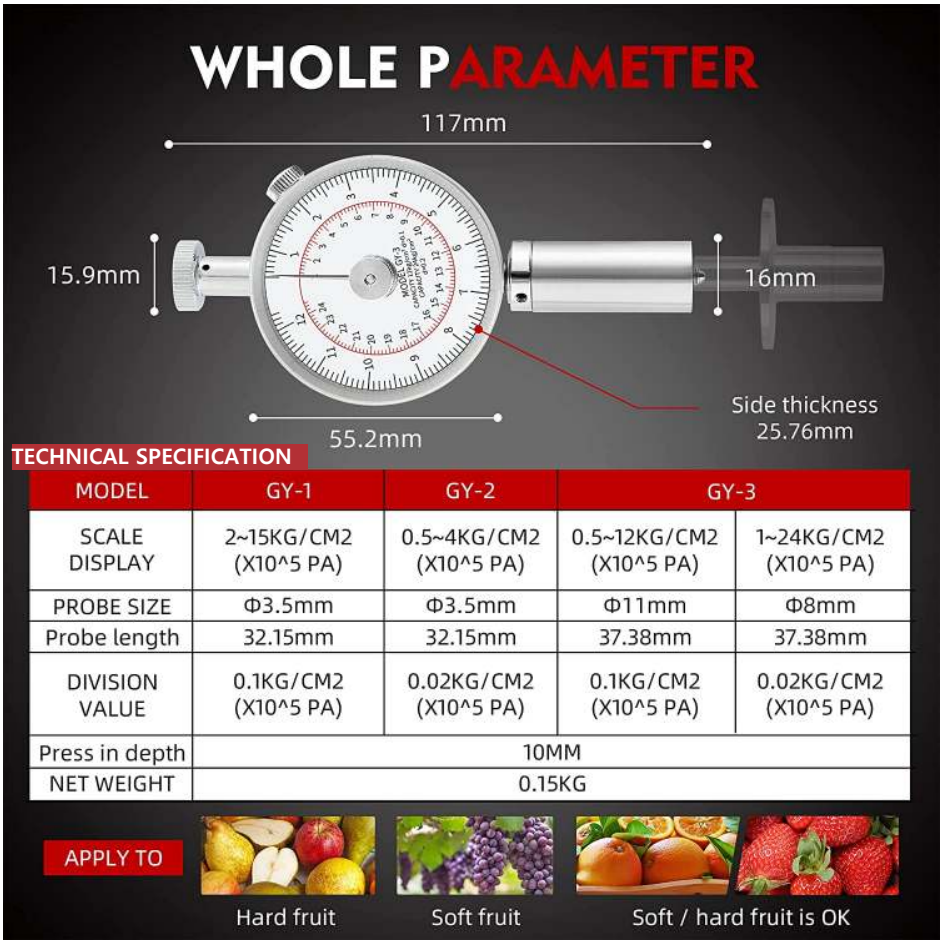






FEATURES

The hardness of fruit can express by the unit area(S) could undertake the pressure of dynamo-meter(N),their specific value is just as the hardness(P).
P = N / S
P—the hardness value of fruit 105Pa or (kg/cm2)
N— pressure of dynamo-meter (N) N or (kg)
S—the area of pressure m2 or (cm2)
GY-1 for hard fruit
GY-2 for soft fruit
GY-3 for hard ans soft fruit



MODEL	GY-1	GY-2	GY-3	
SCALE DISPLAY	2~15KG/CM2 (X10^5 PA)	0.5~4KG/CM2 (X10^5 PA)	0.5~12KG/CM2 (X10^5 PA)	1~24KG/CM2 (X10^5 PA)
PROBE SIZE	Φ3.5mm	Φ3.5mm	Φ11mm	Φ8mm
Probe length	32.15mm	32.15mm	37.38mm	37.38mm
DIVISION VALUE	0.1KG/CM2 (X10^5 PA)	0.02KG/CM2 (X10^5 PA)	0.1KG/CM2 (X10^5 PA)	0.02KG/CM2 (X10^5 PA)
Press in depth	10MM			
NET WEIGHT	0.15KG			

SAND HARDNESS TESTER SYS

TECHNICAL SPECIFICATION

Model:B type
Compression stroke:2.50mm
Maximum load:980G
Load under pressure:50g
Head shape and size:Ball R12.70
Accuracy:
When the pointer is at any value, the relative force of the pressure head is equal to + 5%
When the pointer goes back to the 0 bit, the tolerance is 1 degrees
Size:90 x 55 x 28mm



MANUAL ROCKWELL HARDNESS TESTER RH-120



FEATURES:

- RH-120 is an effective Rockwell testing machine with high accuracy, reliability and durability, and it is applied in the workshops and measurement departments for determining the Rockwell hardness of ferrous and non-ferrous metals.
- **Standards: ISO 6508-2, ASTM E18**

TECHNICAL SPECIFICATION

Rockwell Scales	HRA, HRB, HRC
Preliminary test force	10Kgf(98.07N)
All Testing Force	60Kgf (588N), 100Kgf (980N), 150Kgf (1471N)
Hardness Indication	Analogue
Hardness analogue resolution	0.5HR
Max.height of specimen	170mm
Max. depth of specimen	140mm
Dimension (L*W*H)	520*240*700MM
Gross/Net Weight	120/90Kg
Power Supply	110V/220V,60/50Hz
Remark: Optional protective indenter device	

STANDARD DELIVERY

Main unit	1SET	Ø1.588mm ball indenter	1PC	Ø55mm flat anvil	1PC
Hardness block (57-70) HRC	1PC	Ø1.588mm spare ball	5PCS	Ø150mm flat anvil	1PC
Hardness block (20-33) HRC	1PC	Cone diamond indenter	1PC	Operation Manual	1COPY
Hardness block (85-100) HRB	1PC	Ø55mm V-shape anvil	1PC	Accessories box	1PC

MANUAL ROCKWELL HARDNESS TESTER RH-100

Standards: ISO 6508-2, ASTM E18



TECHNICAL SPECIFICATION

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: 135mm
Dimensions: 466 x 238 x 630mm Weight: approx. 65kg

STANDARD DELIVERY

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: 3 pcs.

DIGITAL ROCKWELL HARDNESS TESTER RH-300



APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc.

TECHNICAL SPECIFICATION

Intial test Force	10kgf(98.07N)
Total test force	60kgf(588.4N) 100kgf(980.7N) 150kgf(1471N)
Loading method	Automatic (Loading/Dwell/Unloading)
Hardness reading	Touch Screen Display
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
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
Resolution	0.1HR
Dwell time	0~60s
Max. Height of Specimen	175mm
Throat	165mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	520×215×700 Packing Dimension: 650×370×950
Weight (kg)	Net Weight: 78 Gross Weight: 100

FEATURES:

RH-300 Digital Rockwell hardness tester adopts the high resolution color touch screen with high brightness display. It has a good reliability, excellent operation and easy watching, so it is a high-tech product combining the mechanic and electric features. It can show and set the present scale, test force, test indenter, dwell time and hardness conversion; the main function is as follows:

- ●Selection of all the Rockwell scales;
- ●Conversion scales of different kinds of hardness;
- ●Display backlight adjustable with energy saving mode;
- ●Real time data saving in the folder, totally six folders, the data can be arbitrary deleted and printed out;
- ●Test results can be saved in real time with automatic calculation of maximum, minimum and average value;
- ●The interface is visual and clear, very easy to operate;
- ●With RS232 interface for connecting to the computer.

STANDARD DELIVERY

●Main unit	1pc
●Diamond rockwell indenter	1pc
●ϕ1.588mm ball indenter	1pc
●Large,midlle plane test table, V-shaped test table	1pc(each) Total 3pcs
●Standard hardness test block	2 pcs
●Fuse 2A	1 pc
●Power cable	TOTAL 3 pcs
●Weight A, B, C	1 pc
●Level	4 pcs
●Horizontal regulating screw	1 pc
●Inner hexagon spanner	1 pc
●Spanner	1 pc
●Anti-dust cover	
●Usage instruction manual	

DIGITAL TWIN ROCKWELL HARDNESS TESTER RH-530



TECHNICAL SPECIFICATION

Intial 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)
Loading method	Automatic (Loading/Dwell/Unloading)
Hardness reading	LCD Screen Display
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
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
Resolution	0.1HR
Dwell time	0~60s
Max. Height of Specimen	175mm
Throat	165mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	520×215×740 Packing Dimension: 650×370×980
Weight (kg)	Net Weight: 80 Gross Weight: 100

FEATURES

RH-530 Digital double Rockwell hardness tester is equipped with a newly designed large displaying screen with good reliability, excellent operation and easy watching, thus it is a high-tech product combining the mechanic and electric features.

●It can show and set the present scale, test force, test indenter, dwell time and hardness conversion;

●the main function is as follows:

●Selection of all the Rockwell and superficial Rockwell scales;

●Conversion scales of different kinds of hardness;

●Test results can be saved and printed out, automatic calculation of maximum, minimum and average value;

●With RS232 interface for connecting to the computer.

APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

STANDARD DELIVERY

●Main unit	1 pc
●Diamond rockwell indenter	1 pc
●ϕ1.588mm ball indenter	1 pc
●Test table (large, middle, V-shaped)	TOTAL 3 pcs
●Weight1, 2, 3, 4, 5	TOTAL 5 pcs
●Standard rockwell hardness block	TOTAL 3 pcs
●Standard superficial rockwell hardness block	TOTAL 2 pcs
●Level	1 pc
●Horizontal regulating screw	4 pcs
●Inner hexagon spanner	1 pc
●Spanner	1 pc
●Power cable	1 pc
●Fuse 2A	2 pc
●Anti-dust cover	1 pc
●Usage instruction manual	1 pc

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DIGITAL TWIN ROCKWELL HARDNESS TESTER RH-510



FEATURES

●Twin tester--Regular Rockwell & Rockwell Superficial hardness for metal and plastic material; Horizontal Convex noise design, which is suitable for internal and external testing;
●Testing on surfaces difficult to reach. Testing internal surface of rings and tubes with diameters over 23mm;
●Testing force is set automatically according to testing scale;
●Provided with many features such as high measuring precision, wide measuring range with 30 Rockwell scales;
●Measuring results digitally displaying and can be printed, or transmitted to external computer automatically by USB or RS-232 data output port;
●Test value can be transformed to the value of HB, HV, HK and ↔b value;
●The tester meeting all the following standard such as ISO 6508, ASTM E18.

APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

TECHNICAL SPECIFICATION

Sns`ksdrs enqbd	15Kgf(147.1N), 30Kgf(294.3N), 45Kgf(441.3N); 60Kgf(588.4N), 100Kgf(980.7N),150Kgf(1471N)
Qnbj v dkk Rb`kd	HR-150N: HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,HRL, HRM, HRP, HRR, HRS, HRV
Rt odqehbh`k Qnbj v dkk Rb`kd	HR-45N: HR15N,HR30N,HR45N,HR15T, HR30T,HR45T
Sv hm Qnbj v dkk Rb`kdr	SHR-145N:HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK,HRL, HRM, HRP, HRR, HRS, HRV; 15T,30T,45T;15Y,30Y,45Y; 15N,30N,45N
Cv dkk Shl d	2-60s adjustable
G`qc mdrr Hmc hb`shmm	High definition backlight LCD
Qdrnkt shmm	0.1HR
C`s`, Nt sot s	RS-232
Bnmudqrhmm Rb`kd	HV啤HBS啤HBW啤HK
Kn`c hmf Bnmsqnk	Auto Loading/Dwell/Unloading
L`w- Gdlf gs ne Rodbhl dm	260mm
Sgqn`s	150mm
Onv dq Rt ookx	AC 220V/50Hz;AC110V/60Hz
Chl dmr hmm	710 x210 x830mm
O`bj hmf Chl dmr hmm	820x520x1000mm
Mds V dlf gs . F qnrr	125Kg/95Kg
Ss`mc`qc	EN-ISO 6508 , ASTM E-18

AUTOMATIC DOUBLE ROCKWELL HARDNESS TESTER RH-550



APPLICATION

Suitable for quenched steel, tempered steel, annealed steel, cold and hard casting, malleable cast iron, hard alloy steel, aluminum alloy, copper alloy, bearing steel etc. Also suitable for surface quenched steel, surface heat treating and chemical treating materials, sheet, zinc layers, chrome layers, tin layers etc.

TECHNICAL SPECIFICATION

Intial 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)
Loading method	Automatic (Loading/Dwell/Unloading)
Automatic Test Table	Automatic Rising and Homing, One Key to Complete
Hardness reading	Touch Screen
Test scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HR15W, HR30W, HR45W, HR15X, HR30X, HR45X, HR15Y, HR30Y, HR45Y
Conversion scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HBW
Data output	Built-in Printer, RS232 Interface
Resolution	0.1HR
Dwell time	0~99s
Max. Height of Specimen	320mm
Throat	150mm
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2
Power source	AC220V, 50Hz
Dimension (mm)	535×330×890 Packing Dimension: 820×460×1170
Weight (kg)	Net Weight: 80 Gross Weight: 100

FEATURES

RH-550 Automatic double Rockwell hardness tester with a good aesthetic aspect, complete functions, easy operation, intuitive display and good reliability, is a high-tech product combining the mechanic and electric features, which is suitable for the Rockwell and superficial Rockwell hardness test.

- Support for all the Rockwell and superficial Rockwell scales;
- Conversion scales of different kinds of hardness;
- With arc correction function;
- Touch screen display and operation, dynamically display the working state of the lifting screw and the indenter;
- Press operation for the test table, fast rising or dropping;
- One key to complete the rising of the specimen, loading dwell and unloading of the indenter, displaying of the hardness value, homing of the test table;
- With data storage function, automatic calculation of the maximum, minimum, average of the hardness value, the test results can be printed for output, and with a RS232 interface users can connect it to the computer for output.

STANDARD DELIVERY

Main unit	1pc
Diamond rockwell indenter	1pc
φ1.588mm ball indenter	1pc
Large,midlle plane test table, V-shaped test table	1pc(each)
Standard hardness test block	Total 3 pcs
Standard superficial rockwell hardness block	Total 2 pcs
Fuse 2A	2 pcs
Power cable	1 pc
Anti-dust cover	1 pc
Usage instruction manual	1 pc

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DIGITAL ROCKWELL HARDNESS TESTER RH-200

FEATURES:

- Hardness scale: HRA, HRB, HRC
- Modification stepping 0.1 degree
- Test scope: hardness with 15 kinds of scales including HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRP, HRR, HRS, and HRV.
- Duration time: 1-99s
- Data save: 500 pieces, each piece can save 50 times of test results at most
- Data print mode: computer print, local print
- Test accuracy: 0.001mm
- Loading mode: Automatic loading (manually loading the preliminary test force)
- Test standards: ASTM E-18; ISO6508



TECHNICAL SPECIFICATION

Hardness scale	Rockwell
Preliminary test force	98.07N (10kgf)
Total test force	588.4N (60kgf), 980.7N (100kgf), 1471 N(150kgf)
Test force control	Automatic (loading/duration/unloading)
Test scope	HRA≤95, HRB: 20-100, HRC: 20-70
Print the data volume	Local print 50 pieces, computer print 30 pieces
Maximum height of the test piece	200mm
Depth of the center line	152mm
Operating temperature	10- 38℃ (50- 100℉)
Humidity	10%- 90% without condensation
Dimension	460mmx188mmx678mm
Weight	80kg/90kg
Power voltage	Single-phase, AC, 220V 2A 50 - 60Hz

TWIN ROCKWELL HARDNESS TESTER RH-100RS

FEATURES:

- Direct analog dial reading,rockwell and superficial rockwell
- Engineered to obtain highly sensitive and accurate reading
- Conforms to ASTM E-18



TECHNICAL SPECIFICATION

Hardness Scales	HRA B,C,D,E,F,G,H,K , L, M (superficial) HR15N, HR15T, HR30N, HR30T, HR45N, HR45T
Minor Load	3 Kgf, 10 Kgf
Major Load	15Kgf 60 Kgf 30 Kgf 100 Kgf 45 Kgf 150 Kgf
Test Force Application	Dead Weight
Test Force Control	Manual
Results Display	Dual Scale Dial
Vertical Capacity	150mm
Throat Depth	140mm
Height	660mm
Width	465mm
Depth	238mm
Shipping Weight	115KG

EXTRA HEIGHT DIGITAL ROCKWELL HARDNESS TESTER RH-300H

TECHNICAL SPECIFICATION

Initial Test Force	10kgf (98.07N)
Total Test Force	60kgf (588.4N), 100kgf (980.7N), 150kgf(1471N)
Indenter	Diamond Rockwell Indenter, Ø1.588mmBall Indenter
Loading Method	Automatic (Loading/Dwell/Unloading)
Hardness Reading	LCD Screen Display
Test Scale	HRA, HRD, HRC, HRF, HRB, HRG, HRH, HRE, HRK, HRL, HRM, HRP, HRR, HRS, HRV
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 Resolution	0.1HR
Dwell Time	0~60s
Max. Height of specimen	400mm
Throat	165mm
Power Supply	AC220V，50Hz
Standard	ISO 6508，ASTM E18，JIS Z2245
Dimension	500×200×880mm， Packing Dimension: 650×370×1140mm
Weight	Net Weight: 98kg，Gross Weight: 120kg



EXTRA HEIGHT ROCKWELL HARDNESS TESTER RH-120H

TECHNICAL SPECIFICATION

Minor Load	10Kgf
Major Load	60Kgf, 100Kgf, 150Kgf
Test Force Application	Dead Weight
Test Force Control	Hydraulic Dashpot System
Results Display	Analog Dial Gage
Vertical Capacity	15-3/4" in.
Throat Depth	140mm
Height	840mmm
Width	458mm
Depth	1780mm
G. Weight	100kg
Standard	ISO 6508，ASTM E18



ELECTRONIC BRINELL HARDNESS TESTER BH-3000A



TECHNICAL SPECIFICATION

Test Force	612.9N(62.5kgf)	4903N(500kgf)
	980.7N(100kgf)	7355N(750kgf)
	1226N(125kgf)	9807N(1000kgf)
	1839N(187.5kgf)	14710N(1500kgf)
	2452N(250kgf)	29420N(3000kgf)
Test Range	3.18~653HBW	
Hardness Reading	Check Hardness Table	
Microscope	20× Reading Microscope	
Minimum Division Value of Drum Wheel	5μm	
Dwell Time	0~60s	
Max. Height of Specimen	220mm	
Throat	135mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231.2	
Dimension	545×235×755mm Packing Dimension: 650×435×1025mm	
Weight	Net Weight: 130kg Gross Weight: 160kg	

FEATURES

BH-3000A Electronic Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5‰ accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The test force and dwell time can be directly set on the touch keyboard with reliable repeatability, precise reading and easy operation. It can be equipped with V1.0 Brinell image automatic measuring system.

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Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.

STANDARD DELIVERY

- ●Main unit 1pc
- ●φ2.5,φ5,φ10mm steel ball indenter 1pc(each)
- ●Large ,small plane test table, V-shaped test table 1pc(each)
- ●Standard hardness test block
  - HBW10/3000 (150~250) 1pc
  - HBW5/750 (150~250) 1pc
- ●Fuse 2A 2pcs
- ●Power cable 1pc
- ●Inner hexagon spanner 3mm 1pc
- ●20^{x} reading microscope 1pc
- ●Anti-dust cover 1pc
- ●Brinell hardness table 1pc
- ●Usage instruction manual 1copy

DIGITAL BRINELL HARDNESS TESTER BH-3000B



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Suitable for cast iron, steel products, nonferrous metals and soft alloys etc. Also suitable for some nonmetal materials such as rigid plastics and bakelite etc.

TECHNICAL SPECIFICATION

Test Force	612.9N(62.5kgf)	4903N(500kgf)
	980.7N(100kgf)	7355N(750kgf)
	1226N(125kgf)	9807N(1000kgf)
	1839N(187.5kgf)	14710N(1500kgf)
	2452N(250kgf)	29420N(3000kgf)
Test Range	3.18~653HBW	
Hardness Reading	LCD Display	
Conversion Scale	HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS	
Data Output	Built-in Printer, RS232 Interface	
Microscope	20× Digital Measuring Eyepiece	
Minimum Division Value of Drum Wheel	1.25μm	
Dwell Time	0~60s	
Max. Height of Specimen	225mm	
Throat	135mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6506, ASTM E10-12, JIS Z2243	
Dimension	545×235×790mm Packing Dimension: 650×435×1060mm	
Weight	Net Weight: 130kg Gross Weight: 160kg	

FEATURES

BH-3000B Digital Brinell hardness tester is a unified product combining the precise mechanical structure and the load cell control system. The instrument adopts the motorized test force application without weights, and uses 0.5‰ accuracy compression sensor to feedback and the CPU control system to automatically compensate the test force lost during the test. The indentation can be directly measured through the digital measuring eyepiece, and it can intuitively show the test force, indentation length, dwell time, test number, date and time on the large screen. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. According to the client's requirement, it can be equipped with video measuring device and CCD image automatic measuring system.

STANDARD DELIVERY

- ●Main unit 1pc
- ●φ2.5,φ5,φ10mm steel ball indenter 1pc(each)
- ●Large ,small plane test table, V-shaped test table 1pc(each)
- ●Standard hardness test block
  - HBW10/3000 (150~250) 1pc
  - HBW5/750 (150~250) 1pc
- ●Fuse 2A 2pcs
- ●Power cable 1pc
- ●Inner hexagon spanner 2.5mm 1pc
- ●20^{x} digital measuring eyepiece 1pc
- ●Anti-dust cover 1pc
- ●Usage instruction manual 1copy

FULLY AUTOMATIC BRINELL HARDNESS TESTER BHS-3000



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BHS-3000 fully automatic three indenters digital Brinell hardness tester adopts casting shell with strong rigidity and precise structure design, the load of test force is controlled by the sensor, which makes the whole structure compact and loading of test force stable and exact. The test process is controlled by CPU, using automatic switching between the objective and the indenter. The location of switching adopts mechanical and electronic double matching, makes the location precision more high. With built-in panel computer, it makes the parameter setting and results show directly with easy operation, it also avoids the stimulation and visual fatigue of the light source of the eyepiece, and reduces the measuring error. After select the scale, the instrument will automatically select the indenter and objective, the test table rises automatically and then back to the focusing position after loading the test force, it shows the clear image of the indentation and automatically measures, which realizes the fully automation of the Brinell test.

FEATURES

●This instrument has 10 level of test force, 13 Brinell hardness test scales, suitable for different kinds of metal materials;

●With three indenters and two objectives, no need to change the indenters when testing different samples; with rigorous optical structure and high magnification, it makes the indentation observed clearly;

●According to the selected scale, with automatic shifting the instrument will automatically select the corresponding indenter and objective for measurement;

●The automatic lifting test table adopts precise structure with high stability, it automatically rises when start measuring, and then back to the focusing position for measuring after loading the test force, which realizes the one key automation;

●It adopts the integrated design of hardness tester and panel computer; With Windows 7 operating system, it has all functions of computer;

●With CCD image measuring system, touch screen operating and displaying, it can preset the test force dwell time, adjust intensity of light source, show the indentation length, hardness value, test range and test number etc.;

●The software has the function of calibration, manual fine tuning and set up and down limit etc., which ensures the accuracy of measurement;

●Conversion scales of different kinds of hardness;

●Test result can be saved as WORD or EXCEL report and can be printed out;

●With USB port, VGA interface and network interface, it can connect to the internet and other devices for more optional functions.

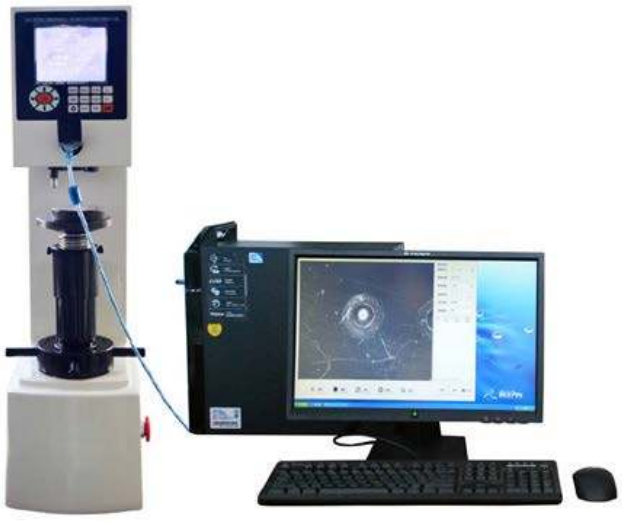
TECHNICAL SPECIFICATION

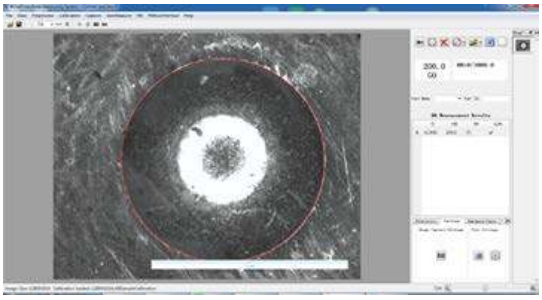
Model No.		BHS-3000
Test Force	kgf	62.5kgf, 100kgf, 125kgf, 187.5kgf, 250kgf, 500kgf, 750kgf, 1000kgf, 1500kgf, 3000kgf
	N	612.9N, 980.7N, 1226N, 1839N, 2452N, 4903N, 7355N, 9807N, 14710N, 29420N
Test Range		3.18 ~ 653HBW
Loading Method		Automatic (Loading/Dwell/Unloading)
Hardness Reading		Indentation Displaying and Automatic Measuring on Touch Screen
Computer		CPU: Intel I5 , Memory: 2G , SSD: 64G: Intel I5 , Memory: 2G , SSD: 64G
Camera		3 millions pixel
Data Out		USB,VGA,Internet Interface
Conversion Scale		HV, HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T, HS, HBS, HBW
Shifting between Objective and indenter		Automatic Recognition and Shifting (Three Indenters, Two Objectives)
Objective		$1^{\times}$, $2^{\times}$
Total Magnification		$20^{\times}$, $40^{\times}$

TECHNICAL SPECIFICATION

Resolution	1.5μm ，3μm
Dwell Time	0~95s
Max Test Height	290mm
Test Throat	150mm
Power Supply	AC220V,50Hz/ AC110V, 60HZ
Standard	ISO 6506 , ASTM E10-12 , JIS Z2243
Dimension	Machine :700×380×1000mm, Packing: 920×510×1280mm
Weight	Net Weight: 200kg , Gross Weight: 230kg

BRINELL CCD IMAGE AUTOMATIC MEASURING SYSTEM BH-3000S





STANDARD DELIVERY

- Computer (Hard disk: 500G, Memory: 2G, 19 inch LCD screen)
- Ink Jet Printer
- CCD Camera (1.30 Million Pixel)
- USB Softdog
- Measuring Software

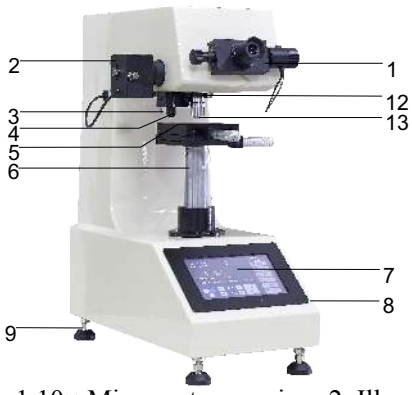
FEATURES

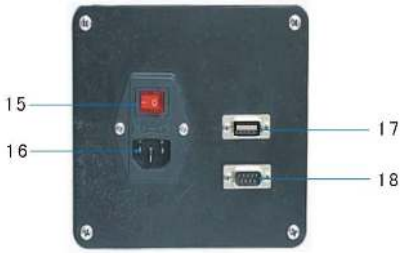
CCD Image automatic measuring system combines the computer software and the hardness tester, the whole test procedure is finished through the easy operation of keyboard and mouse click, which avoids the visual fatigue and man-made error and can test different kinds of hardness. It is equipped with a CCD camera easy to observe, and can directly observe and measure the indentation on the display. For test conditions of setting, the results can be clearly and conveniently operated and displayed. It can automatically carry out the calculation of infiltration depth, statistical calculations, conversion, display curve, judging whether qualified and save the result as WORD or EXCEL documents.

- Basic function: include all functions of image processing and measurement system, such as image capture, calibration, image processing, geometric measurement, annotation, photo album management and fixed times print etc;
- Automatic measurement: Automatically capture the indentation and measure the diameter and calculate the corresponding value of Brinell hardness;
- Hardness conversion: The system can convert the measured Brinell hardness value HB to other hardness value such as HV, HR etc;
- Data statistics: The system can automatically calculate the average value, variance and other statistical value of the hardness;
- Standard exceeding alarm: Automatic mark the abnormal value, when the hardness exceeds the specified value, it automatically alarms;
- Test report: Automatically generate the report of WORD or EXCEL format, the report templates can be modified by the user.
- Easy to use: Click on the interface button or press the camera button or press the run button to automatically complete all the work; if need manual measurement or modify the results, just drag the mouse;
- Strong noise resistance: The advanced and reliable image recognition technology can handle the indentation recognition on the surface of the complex sample, two kinds of automatic measurement mode to deal with the extreme situation;
- Automatic calibration: The system has provided a calibration function, convenient for the indentation size measurement and may calibrate at any time. With a calibration grid, the system can automatically implement full calibration for calibration grid intersection points to eliminate measurement error caused by lens distortion.

TOUCH SCREEN DIGITAL MICRO VICKERS HARDNESS TESTER 520MVT







1.10× Micrometer eyepiece 2. Illumination source 3. 10× objective lens
4. Indenter 5. XY test bench 6. Elevating axis
7. Touch display screen 8. Touch button 9. Horizontal adjustment screw
10. Test force change handwheel 11. Optical path switch knob 12. Turret
13.40× objective lens 14. Focusing handwheel 15. Power switch
16. Power socket 17. USB interface 18. RS232 interface

Model No.	520MVT
Hardness scale	Vickers and Knoop
Test force	10, 25, 50, 100, 200, 300, 500, 1000gf
Selection of test force	Manual
Control of test force	Automatic (load/hold/unload)
The standards met	EN-ISO 6507, ASTM E384&E92 and JIS standards
Load holding time	1 to 99 seconds
Turret	automatic
Eyepiece	10×
Objective lens	10 ×, 40 ×
Total magnification	100 x (observation, measurement), 400 x (observation, measurement)
Measurement range	200μm
Optical channel	Bidirectional switching is realized: eyepiece/CCD
Filter	Green, blue
Light source	Halogen lamp, adjustable
Display	Hardness value, test force, diagonal length, test times, etc.
Language	English
Maximum height of specimen	90mm
Depth of center line	120mm
Dimensions of XY test bench	100mm×100mm
Moving distance of XY test bench	25mm×25mm
Minimum displacement of XY test bench	0.01mm
Working temperature	10 to 38 ℃ (50 to 100℉)
Humidity	10% to 90%, no condensation
Size of machine body	Length: 433mm Width: 228mm Height: 523mm
Weight	36kg
Power supply	Single-phase, AC 220V 3A 50-60Hz



INTRODUCTION

■ The 520MVTA1 computerized micro Vickers hardness tester consists of a 520MVT micro Vickers hardness tester, a branded computer, and image measurement software.
■ The main unit is equipped with an LCD screen display, membrane buttons, automatic turret, precision optical system, and more, making the instrument precise and durable.
■ The hardness tester is linked with the image measurement system, allowing the computer to set various parameters of the micro Vickers hardness tester (loading time, brightness, hardness scale, etc.), and to complete the hardness measurement, loading, and imaging with one-click. It also enables manual or automatic indentation measurement on the computer.
■ The 520MVTA1 model can be used for both manual and automatic measurements.

FEATURES

■The system uses a 5-megapixel digital camera to capture images, effectively improving measurement accuracy.
■Manual and automatic indentation measurement enhances the efficiency and precision of hardness measurement.
■It supports true magnification image printing, with the ability to print a scale on the image and annotate image dimensions and other parameters.
■Measurement data can be analyzed in various modes, and all results can be imported into graphic reports. Report content and format can be flexibly set, automatically generating WORD and EXCEL documents.

TECHNICAL SPECIFICATION

Measurement Range	5-3000HV
Hardness Scale	HV0.01、HV0.025、HV0.05、HV0.1、HV0.2、HV0.3、HV0.5、HV1
Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf)

STANDARD DELIVERY

Electrically Controlled Coordinate Worktable	1	Rotating Worktable	1	Standard Micro Hardness Block	2
Flat Jaw Chuck	1	Micro Diamond Indenter	1	USB Flash Drive	1

DIGITAL MICRO VICKERS HARDNESS TESTER 532MVT/531MVT



FEATURES:

532MVT/531MVT Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electrics features, make the indentation image clearer, and get more precise measurements. It can directly show the test mode, test force, dwell time, test numbers, conversion scale on the screen, only need to input the diagonal of the indentation when operation, it can automatically get the hardness value and show on the screen. It can use optional Knoop indenter to measure Knoop hardness. And it can be equipped with CCD image automatic measuring system.

TECHNICAL SPECIFICATION

Model No.	532MVT	531MVT
Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf)	
Test Range	1HV~2967HV	
Test Mode	HV/HK	
Loading Method	Automatic (Loading/Dwell/Unloading)	
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRG, HRK, HR15n, HR30n, HR45n, HR15T , HR30T, HR45T, HBW	
Shifting between Objective and Indenter	Manual	Automatic
Total Magnificatio	100×, 400×	
Resolution	0.25μm	
Dwell Time	0~60s	
Light Source	Halogen Lamp	
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm	
Max. Height of Specimen	100mm	
Throat	98mm	
Power Supply	AC220V, 50Hz	
Execute Standard	ISO 6507, ASTM E384, jIS Z2244, GB/T 4340.2	
Dimension	480×325×545mm Packing Dimension: 600×360×800mm	
Weight (kg)	net Weight: 31 Gross Weight: 44	

STANDARD DELIVERY

●Main unit	1 pc
●Diamond Micro Vickers Indenter	1 pc
●10× Reading Microscope	1 pc
●10×, 40× Objective	1 pc
●Weights	6 pcs
●Weight Axis	1 pc
●Cross Test Table	1 pc
●Flat Clamping Test Table	1 pc
●Thin Specimen Test Table	1 pc
●Filament Clamping Test Table	1 pc
●Horizontal Regulating Screw	4 pcs
●Level	1 pc
●Fuse 1A	2 pcs
●Halogen Lamp 12V, 15~20W	1 pc
●Power Cable	1 pc
●Screw Driver	2 pcs
●Hardness Block 400~500 HV0.2	1 pc
●Hardness Block 700~800 HV1	1 pc
●Anti-dust Cover	1 pc
●Usage Instruction Manual	1 pc

DIGITAL MICRO VICKERS HARDNESS TESTER 730MVA



TECHNICAL SPECIFICATION

Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf)
Test Range	1HV~2967HV
Test Mode	HV/HK
Loading Method	Automatic (Loading/Dwell/Unloading)
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15n, HR30n, HR45n, HR15T, HR30T, HR45T, HS, HB
Data Output	Built-in Printer, RS232 Interface
Shifting between Objective and Indenter	Automatic
Total Magnificatio	100×, 400×
Resolution	0.0625μm
Dwell Time	0~60s
Light Source	Halogen Lamp
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height of Specimen	100mm
Throat	98mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, jIS Z2244
Dimension	480×325×545mm Packing Dimension: 600×360×800mm
Weight (kg)	net Weight: 31 Gross Weight: 44

FEATURES

730MVA Digital Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electrics features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.

APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

STANDARD DELIVERY

●Main unit	1	●Weights	6
●Diamond Micro Vickers Indenter	1	●Weight Axis	1
●10× Digital Measuring Eyepiece	1	●10×, 40× Objective	1
●Hardness Block 400~500 HV0.2	1	●Fuse 1A	2
●Hardness Block 700~800 HV1	1	●Power Cable	1
●Horizontal Regulating Screw	4	●Screw Driver	2
●Cross Test Table	1	●Level	1
●Flat Clamping Test Table	1	●Anti-dust Cover	1
●Thin Specimen Test Table	1	●Halogen Lamp	
●Filament Clamping Test Table	1	12V, 15~20W	1
●Usage Instruction Manual	1		

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DIGITAL MICRO VICKERS HARDNESS TESTER 750MVA



TECHNICAL SPECIFICATION

Test Force	0.098n(10gf), 0.246n(25gf), 0.49n(50gf), 0.98n(100gf), 1.96n(200gf), 2.94n(300gf), 4.90n(500gf), 9.80n(1000gf) ,19.60N(2000gf)
Test Range	1HV~2967HV
Test Mode	HV/HK
Loading Method	Automatic (Loading/Dwell/Unloading)
Conversion Scale	HK, HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRK, HR15n, HR30n, HR45n, HR15T, HR30T, HR45T, HS, HB
Data Output	Built-in Printer, RS232 Interface
Shifting between Objective and Indenter	Automatic
Total Magnificatio	100×, 400×
Resolution	0.0625μm
Dwell Time	0~60s
Light Source	Halogen Lamp
X-y Test Table	Size: 100×100mm; Travel: 25×25mm; Resolution: 0.01mm
Max. Height of Specimen	100mm
Throat	98mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6507, ASTM E384, jIS Z2244
Dimension	480×325×545mm Packing Dimension: 600×360×800mm
Weight (kg)	net Weight: 40 Gross Weight: 50

FEATURES

750MVA Digital Micro Vickers hardness tester adopts unique precision design of optics, mechanic and electrics features, make the indentation image clearer, and get more precise measurements. With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly shows the test mode, test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and show on the large screen. Test results can be saved for checking or be printed out by the built-in printer, and with RS232 interface for connecting to the computer. It can use optional Knoop indenter to measure Knoop hardness. Also it can be equipped with LCD video measuring device and CCD image automatic measuring system.

APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings, ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

STANDARD DELIVERY

●Main unit	1	●Weights	6
●Diamond Micro Vickers Indenter	1	●Weight Axis	1
●10× Digital Measuring Eyepiece	1	●10×, 40× Objective	1
●Hardness Block 400~500 HV0.2	1	●Fuse 1A	2
●Hardness Block 700~800 HV1	1	●Power Cable	1
●Horizontal Regulating Screw	4	●Screw Driver	2
●Cross Test Table	1	●Level	1
●Flat Clamping Test Table	1	●Anti-dust Cover	1
●Thin Specimen Test Table	1	●Halogen Lamp	
●Filament Clamping Test Table	1	12V, 15~20W	1
●Usage Instruction Manual	1		

DIGITAL VICKERS HARDNESS TESTER VH-5/10/30/50EM



APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings,ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

FEATURES

- It adopts the close- loop force sensor to replace the traditional quality weight, this innovate design makes the instrument more accurate.
- Selection of testing force and dwell time is controlled and monitored on the front panel, it is automatic during the process of loading, dwell and unloading.
- It adopts digital microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indention ,it only needs the operator to aim the D1,D2 diameter of indention and press the length key twice, then the built-in computer can compute the Vickers scale
- It doesn't need the operator to read the detail diameter of indention and check the Vickers testing table, it improves the speed and accuracy of hardness testing obviously.
- Hardness conversion among 17 hardness scales, and linking to PC in RS232 interface and cable.

TECHNICAL SPECIFICATION

Model No.	VH-5EM	VH-10EM	VH-30EM	VH-50EM
Test Load (N)	2.942/4.903 9.807/19.61/24. 52 29.42/49.03	4.903/9.807 19.61/24.52/29.42 49.03/98.07	4.903/9.807/19.61 24.52/29.42/49.03 98.07/196.1/294.2	9.807/19.61/24.52 29.42/49.03/98.07 196.1/294.2/490.3
Test Load (Kgf)	0.3 / 0.5 1 /2 / 2.5 /3 / 5	0.3 /0.5 /1 /2 2.5/ 3 / 5 / 10	0.5/ 1 / 2 / 2.5 3 / 5 /10 / 20 /30	1/ 2 / 2.5 / 3 5 / 10 / 20 /30 /50
Carriage control	Auto Automatic loading, holding-up and unloading			
Load holding time	0~60 second			
Magnification of microscope	100X(For Observation), 400X(For Measurement)		100X(For Observation), 200X(For Measurement)	
Measuring microscope Min. measuring unit	If 100X: 0.25 μm If 400X : 0.0625um		If 100X: 0.25 μm If 200X :0.125um	
Testing field	1HV~2967HV			
Magnification Objective of	10x and 40x		10x and 20x	
Magnification Eyepiece of	Magnification:10x; Resolution:0.03mm			
Hardness Indication	LCD display			
Dwell Time	0~60s			
AutoHardness Conversion	HRA, HRB, HRC,HV, HK ,HBW ,etc			
Lens/indenter switch	With manual Turret			
Mini printer	Mini printer build inside(Only for VH-5EM/10EM/30EM/50EM)			
Max. height of specimen	170mm			
Max. depth of specimen	130mm			
Accuracy	Conforms to EN-ISO 6507, ASTME10-08, ASTME-384			
Power	110V/220V,60/50Hz			
Objective	10X, 20X and 40X can be selected according to user's requirement			
Dimension	535mmX225mmX580mm			
Packing	630×460×710mm			
Weight	Gross weight:70KG; Net Weight: 50KG			

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ADVANCED DIGITAL VICKERS HARDNESS TESTER VH-5/10/30/50EA



APPLICATION

Suitable for ferrous metal, non-ferrous metals, IC thin sections, coatings,ply-metals; glass, ceramics, agate, precious stones, thin plastic sections etc.; hardness testing such as that on the depth and the trapezium of the carbonized layers and quench hardened layers.

FEATURES

- It adopts load cell control system, improves the precision of the test force and the repeatability and stability of the indicating value.
- It adopts the high resolution color touch screen which is visual and clear, easy to operate, display backlight adjustable with energy-saving mode.
- With digital measuring eyepiece, no need for checking the table or inputting the diagonal of the indentation, it can directly show the test force, indentation length, dwell time, test numbers, conversion scale, date and time. As long as press the eyepiece button after measuring the indentation length, it can automatically get the hardness value and shows on the screen. Test results can be saved in real time with automatic calculation of maximum, minimum and average value, the data can be arbitrary deleted and printed out, and with RS232 interface for connecting to the computer.
- It can be equipped with LCD video measuring device and CCD image automatic measuring system.

TECHNICAL SPECIFICATION

Model No.	VH-5EA	VH-10EA	VH-30EA	VH-50EA
Test Load (N)	2.942/4.903 9.807/19.61/2 4.52 29.42/49.03	4.903/9.807 19.61/24.52/29.4 2 49.03/98.07	4.903/9.807/19.61 24.52/29.42/49.03 98.07/196.1/294.2	9.807/19.61/24.52 29.42/49.03/98.07 196.1/294.2/490.3
Test Load (Kgf)	0.3 / 0.5 1 /2 / 2.5 /3 / 5	0.3 /0.5 /1 /2 2.5/ 3 / 5 / 10	0.5/ 1 / 2 / 2.5 3 / 5 /10 / 20 /30	1/ 2 / 2.5 / 3 5 / 10 / 20 /30 /50
Carriage control	Auto Automatic loading, holding-up and unloading			
Load holding time	0~60 second			
Magnification of microscope	100X(For Observation), 400X (For Measurement)		100X(For Observation), 200X (For Measurement)	
Measuring microscope Min. measuring unit	If 100X: 0.25 μm If 400X : 0.0625um		If 100X: 0.25 μm If 200X :0.125um	
Testing field	1HV~2967HV			
Magnification of Objective	10x and 40x		10x and 20x	
Magnification of Eyepiece	Magnification:10x; Resolution:0.03mm			
Hardness Indication	LCD display			
Dwell Time	0~60s			
Auto Hardness Conversion	HRA, HRB, HRC,HV, HK ,HBW ,etc			
Lens/indenter switch	With Auto Turret			
Mini printer	Mini printer build inside			
Max. height of specimen	170mm			
Max. depth of specimen	130mm			
Accuracy	Conforms to EN-ISO 6507, ASTME10-08, ASTME-384			
Power	110V/220V,60/50Hz			
Objective	10X, 20X and 40X can be selected according to user's requirement			
Dimension	535mmX225mmX580mm			
Packing Dimension	630×460×710mm			
Weight	Gross weight:70KG; Net Weight: 50KG			

DIGITAL UNIVERSAL HARDNESS TESTER UHT-900D



FEATURES

- UHT-900D is a universal hardness testing instrument for the measurement of Brinell, Rockwell and Vickers scale.
- Equip 7-testing-foce and 5-indenter, it is universal to measure a most of metal material.
- Dwell time from 2 to 60S can be setup by the ―time key" inside the LCD panel, it is much convenient than the setup on the manual hardness tester.
- Loading ,dwell and unloading is driven by electronic motor automatically , doesn't need the operator to handle it, it eliminates the human operating error maximum.
- Doesn't need the operator to read and check the hardness scale table ,it will compute and display the testing result once press the key of digital length sensor.

TECHNICAL SPECIFICATION

Model No	UHT-900D
Rockwell Scales	HRA, HRB, HRC
Rockwell Testing Force	60Kgf(588.4N)、100Kgf(980.7N)、150Kgf(1471N)
Brinell Scales	HBW1/30、HBW2.5/62.5、HBW10/100、HBW2.5/187.5
Brinell Testing Force	31.25Kgf(306.5N)、62.5Kgf(612.9N、187.5Kgf(1839N)
Vickers Scales	HV 30、HV100
Vickers Testing Force	30Kgf(294.2N)、100Kgf(980.7N)
Rockwell Hardness Indication	Digital LCD display
Rockwell Resolution	0.1HR
Loading Control	Automatic
Data Output	RS 232/Printer
Magnification of Microscope	Brinell:37.5x; Viceers:75x
Dwell Time	2~60s
Max. Height Of Specimen	Rockwell:170mm; Brinell, Vickers:140mm
Instrument Throat	165mm
Dimension(LxWxH)	520 x215 x700mm
Packing Dimension	630 x440 x960mm
Gross/Net Weight	120Kg/90Kg
Execution Standard	EN-ISO 6508 , ASTME-18

STANDARD DELIVERY

Unit: mm

Hardness Block (57-70)HRC	1SET	Ø5mm Brinell Ball Indenter	1PC	Mini-Printer	1PC
Hardness Block (20-33)HRC	1PC	Rockwell Cone Diamond Indenter	1PC	2.5x Brinell Objective	1PC
Hardness Block (85-100)HRB	1PC	Vickers Indenter	1PC	5x Vickers Objective	1PC
Vickers Hardness Block HV 30	1PC	Ø 150mm Flat Anvil	1PC	Power Cable	1PC
HBW2.5/187.5 Hardness Block	1PC	Ø 55mm V-shape Anvil	1PC	Accessories Box	1PC
Ø1.588mm Rockwell Ball Indenter	1PC	Ø 55mm Flat Anvil	1PC	Instrument Manual	1PC
Ø2.5mm Brinell Ball Indenter	1PC	15x analogue Eyepiece	1PC		

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DIGITAL UNIVERSAL HARDNESS TESTER UHT-900



TECHNICAL SPECIFICATION

Model No.	UHT-900
Rockwell Test Force	60kgf (558.4n), 100kgf (980.7n), 150kgf (1471n)
Brinell Test Force	30kgf (294.2n), 31.25kgf (306.5n), 62.5kgf (612.9n), 100kgf (980.7n), 187.5kgf (1839n)
Vickers Test Force	30kgf (294.2n), 100kgf (980.7n)
Hardness Reading	Rockwell: Dial, Brinell & Vickers: Check Hardness Table
Magnificatio	Brinell: 37.5×, Vickers: 75×
Resolution	Rockwell: 0.5HR, Brinell: 4μm, Vickers: 2μm
Dwell Time	2~60s
Max. Height of Specimen	Rockwell: 175mm, Brinell: 100mm, Vickers: 115mm
Throat	165mm
Power Supply	AC220V, 50Hz
Execute Standard	ISO 6508, ASTM E-18, JIS Z2245 ISO 6506, ASTM E10-12, JIS Z2243 ISO 6507, ASTM E92, JIS Z224
Dimension	520×240×700mm Packing Dimension: 650×370×950mm
Weight	net Weight: 80kg, Gross Weight: 105kg

FEATURES

UHT-900 Brinell Rockwell & Vickers hardness tester is a multi-functional hardness tester with Brinell, Rockwell &Vickers three test modes and 7 level of test forces, which can test several kinds of hardness. Test force loading, dwell, unload adopts automatic system, widely used and easy to operate, therefore it is the popular machine for industrial enterprises and scientific research institutes

APPLICATION

Suitable for hardened and surface hardened steel, hard alloy steel, casting parts, non-ferrous metals, various kinds of hardening and tempering steel and tempered steel, carburized steel sheet, soft metals, surface heat treating and chemical treating materials etc.

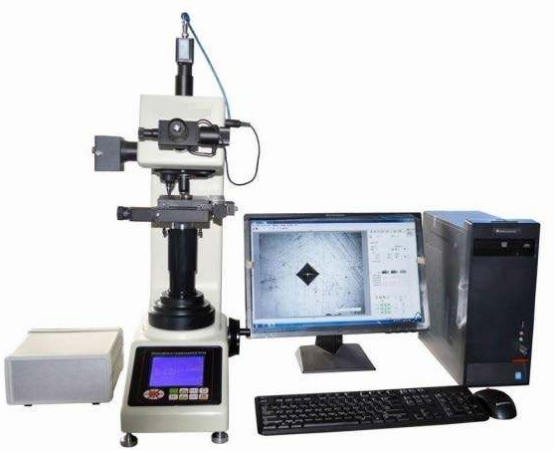
STANDARD DELIVERY

- ●Main unit 1
- ●Diamond Rockwell Indenter 1
- ●Diamond Vickers Indenter 1
- ●ϕ1.588mm, ϕ2.5mm, ϕ5mm Ball Indenter 3
- ●15× Digital Measuring Eyepiece 1
- ●Microscope System (include the inside light and outside light) 1
- ●Hardness Block 150~250 HBW 2.5/187.5 1
- ●Hardness Block 60~70 HRC 1
- ●Hardness Block 20~30 HRC 1
- ●Hardness Block 80~100 HRB 1
- ●Hardness Block 700~800 HV30 1
- ●Usage Instruction Manual 1
- ●Slipped Test Table 1
- ●Middle Test Table 1
- ●Large Test Table 1
- ●V-shaped Test Table 1
- ●2.5×, 5× Objective 2
- ●Weights 0, 1, 2, 3, 4 5
- ●Horizontal Regulating Screw 4
- ●Power Cable 1
- ●Fuse 2A 2
- ●Level 1
- ●Spanner 1
- ●Screw Driver 1
- ●Anti-dust Cover 1

AUTOMATIC VICKERS HARDNESS TESTER VHS-10/VHS-50

APPLICATION

VHS Automatic Vickers Hardness Tester is integrated with several new technologies such as optical imaging, mechanical displacement, electronic control, digital imaging, image analysis, computer processing and so on. It controls the Vickers hardness tester and automatic test table by the computer, and displays the indentation image on the computer screen. By means of automatic reading and manual reading, it accurately measures the HV hardness, hardening depth, film thickness, distance between two points of metals and some non-metallic materials and various films.It also can shoot metal surface morphology and taking fixed rate printing etc. This system breaks through the traditional test method, realize the hardness test of semi automatic, high precision, high repeatability, and it is the important equipment for materials analysis.



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AUTOMATIC MICRO-VICKERS HARDNESS TESTER VH-1000AS2

APPLICATION

VH-1000AS2 Automatic Micro Vickers Hardness Tester is integrated with several new technologies such as optical imaging, mechanical displacement, electronic control, digital imaging, image analysis, computer processing and so on. It controls the Micro Vickers hardness tester and automatic test table by the computer, and displays the indentation image on the computer screen. By means of automatic reading and manual reading, it accurately measures the HV hardness, hardening depth, film thickness, distance between two points of metals and some non-metallic materials and various films. It also can shoot metal surface morphology and taking fixed rate printing etc. This system breaks through the traditional test method, realize the hardness test of semi automatic, high precision, high repeatability, and it is the important equipment for materials analysis.



FOR MORE DETAILS,PLS CONTACT US OR OUR DISTRIBUTOR.

HARDNESS TESTER ACCESSORIES

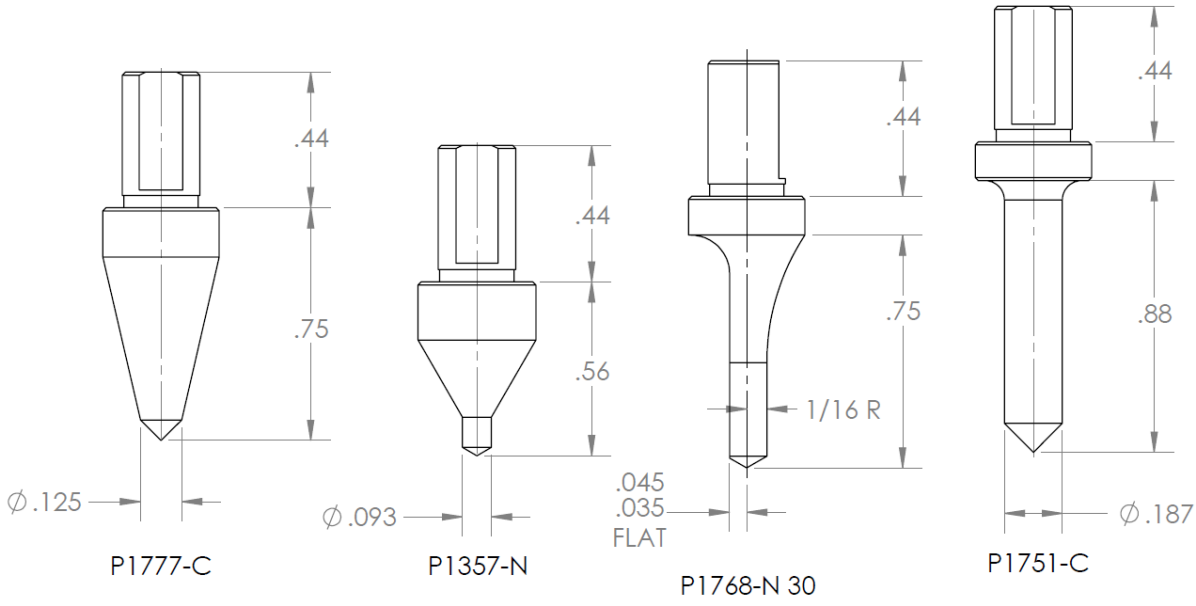
INDENTERS

We offer a wide range of indentors,also offer special adapters for indentors to enlarge the field of application.We also can customerize according to the drawing

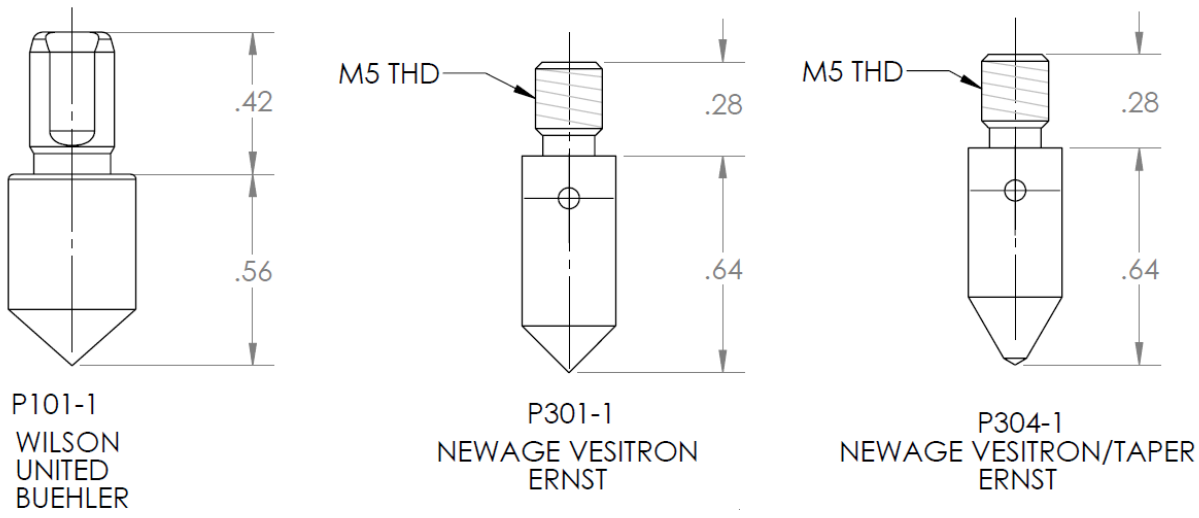


Rockwell Indenter	Model No.	Photo
Rockwell type 120° diamond cone	PRI-001	
Steel Rockwell ball indentor - 1/16”	PRI-002	
Steel Rockwell ball indentor - 1/8”	PRI-003	
Steel Rockwell ball indentor - 1/4”	PRI-004	
Steel Rockwell ball indentor - 1/2”	PRI-005	
Steel Rockwell ball indentor -1.588mm	PRI-006	
Steel Rockwell ball indentor -3.175mm	PRI-007	
Steel Rockwell ball indentor -6.35mm	PRI-008	
Steel Rockwell ball indentor -12.7mm	PRI-009	
Carbide Rockwell ball indentor - 1/16”	PRI-010	
Carbide Rockwell ball indentor - 1/8”	PRI-011	
Carbide Rockwell ball indentor - 1/4”	PRI-012	
Carbide Rockwell ball indentor - 1/2”	PRI-013	
Carbide Rockwell ball indentor-1.588mm	PRI-014	
Brinell Indenter	**Model No.**	**Photo**
Carbide ball indentor - Ø2.5mm	PBI-002	
Carbide ball indentor - Ø 5mm	PBI-003	
Carbide ball indentor - Ø 10mm	PBI-004	
Carbide ball- Ø 2.5mm	PBI-006	
Carbide ball- Ø 5mm	PBI-007	
Carbide ball- Ø 10mm	PBI-008	
Vickers diamond indentor 136°	PMI-001	
Knoop diamond indentor 172°	PMI-002	
Micro Vickers 136°indentor extra length 29mm	PMI-003	
Micro diamond indenter	PMI-004	

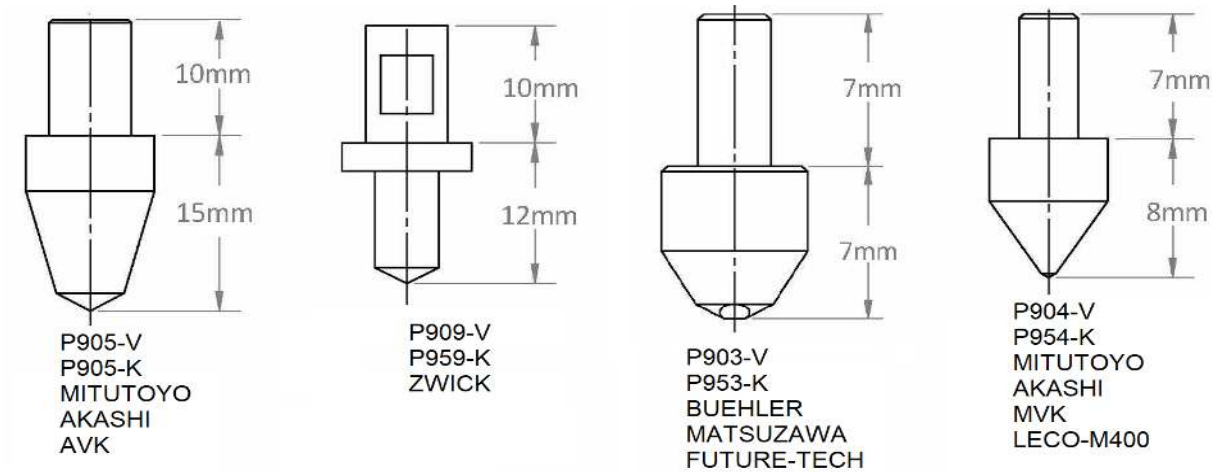
CUSTOMERIZED ROCKWELL INDENTERS



CUSTOMERIZED BRINELL INDENTERS



CUSTOMERIZED VICKERS AND KNOOP INDENTERS



Notes:we can produce all indenters according to your drawing

STANDARD HARDNESS BLOCKS

Standard Rockwell hardness blocks, standard Brinell hardness blocks, standard Vickers hardness blocks,standard Leebs hardness blocks and knoop hardness blocks meet the requirements of relevant ISO,ASTM,DIN standards.

Blocks	Scale	Dimension MM	Model No.
Rockwell hardness standard block	20-40 HRA 45-75 HRA 80-88 HRA 50-80 HRB(W) 85-100 HRB(W) 20-30 HRC 35-55 HRC 60-70 HRC 40-47 HRD 55-63 HRD 70-77 HRD	Φ60×10	 **RB-1T**
Plastic rockwel hardness block (Bronze)	70-94HRE 100-120HRL 85-100HRM 114-125HRM	Φ60×10	 **RB-2T**
Surface rockwell hardness standard block	88-92HR15N 74-82HR30N 45-55HR30N 45-55HR45N 85-91HR15T 70-80HR30T 54-72HR45T	Φ60×10	 **RB-3T**
Brinell hardness standard block	(100-600)HBW 10/3000 (100-600)HBW 5/750 (100-600)HBW 2.5/187.5 (75-125)HBW 10/1000 (75-125)HBW 5/250 (75-125)HBW 2.5/62.5 (100-350)HBW 10/1500 (100-250)HBW 10/500 (150-250)HBW 1/30	Φ90×16	 **BB-1T**
Vickers Hardness standard block	190-750 HV5 190-750 HV10 190-750 HV20 190-750 HV30	Φ60×10	 **VB-1TR**

Micro-hardness block	700-800 HV1 700-800HV0.5 700-800HV0.2 400-600HV0.2 400-600HV0.1 175-300 HV0.1 175-300 HV0.05	Φ25×5	 **MB-1TR**
Knoop hardness standard block	800-900 HK1 800-900 HK0.5 800-900 HK0.3 800-900 HK0.2 400-600 HK0.2 400-600 HK0.1 200-300 HK0.1 200-300 HK0.05	Φ25×5	 **KB-1T**
Barcol Hardness Test Block	36-41HBa 82-84HBa	Φ30x1.6mm	 **BB-1T**
Webster Hardness Test Block	10-20HW aluminum 6-10HW aluminum	100x10x1.6mm	 **WB-1T**
Leeb Hardness standard block	750-850HLD 590-670HLD 490-570HLD	Φ90×55	 **LB-1T**
	550-630HLG 460-540HLG	Φ120×70	

HARDNESS TESTER STAND



Model No.
PS-13

APPLICATION

Hardness tester stand is designed to fit all standard Rockwell hardness testers, Brinell hardness testers and Vickers hardness testers. 92MM diameter hole is machined to allow for spindle travel on Rockwell hardness testers

FEATURES

Depth: 700MM Width: 500MM Height: 776MM
GW:51KG

PRIDE®

ABRASIVE CUTTER
PRECISION CUTTER
MOUNTING PRESS
VACUUM MOUNTING PRESS
GRINDING POLISHING MACHINE
5-STATION HAND GRINDER
ABRASIVE BELT SURFACE GRINDER
METALLURGICAL MICROSCOPE
ELECTROLYTIC POLISHER
METALLOGRAPHIC CONSUMBLES
SPECIMEN LEVELING PRESS



ABRASIVE CUTTER METCUT M60

ABRASIVE CUTTER METCUT M60 can be widely used to cut various metal materials in metallography laboratories. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. Besides various metal materials, this machine can also be used to cut other non-metal material such as plastic, rubber hose etc.



TECHNICAL SPECIFICATION

- Max. cutting diameter: 30x30mm
- Sand wheel specification: 250 x 2 x 32mm
- Sand wheel rotating speed: 2800 rpm
- Motor: 1.1 KW
- Power supply:3 phase ,380V, 50Hz.
- Dimensions: 65 × 45 × 40 cm
- Net weight: 60 Kg

ABRASIVE CUTTER ECOCUT 50/35

FEATURES:

- Adopts high speed rotating thin grinding wheel to cut specimen, and it is equipped with cooling system to prevent the heat damage during cutting.
- The operation is easy and the maintenance is convenient.



Model No.	ECOCUT 50	ECOCUT 35
Max Cutting section	55 x 55 mm	35 x 35 mm
Cutting Disc Size(mm)	300×2×32	250×2×32
Rotation speed	2860r/min	
Power Supply	Y90L-2/ 2.6KW 380V/50Hz	Y802-2/ 1.2KW 380V/50Hz
Dimensions	740×465×390mm	650 ×400×350mm
Net Weight	70Kg	55Kg

ABRASIVE CUTTER METCUT M61

METCUT M61 can be used to cut various metal and non-metal materials to get the specimen and observe the metallographic or lithofacies structure. It has a 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 superheating. This machine has stainless machine body and worktable, and it features easy operation and reliable safety.



FEATURES:

- Abrasive Cutter adopts closed structure
- Large observation window safe viewing
- Equipped with lighting lamp Led lighting
- A quick clamping mechanism for easy to clamp samples.
- 50 Liter Cooling water tank, for circulating cooling liquid
- Flush nozzle, easy to clean cutting table
- Stainless machine body and worktable



TECHNICAL SPECIFICATION

Power supply: 220V, 60Hz
Rotating speed of the main shaft: 2800 rpm
Max. cutting diameter: Ø60mm
Cutting Wheel Diameter: 250 x 1.5 x 32mm Motor: 2.2KW
Dimensions: 750 x 620 x 450mm
Weight: approx. 82kg.

ABRASIVE CUTTER METCUT M80

ABRASIVE CUTTER METCUT M80 can be used for cutting of normal metallography and lithofacies materials. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. The cutting against rock and ceramics materials must be equipped with diamond sand wheel (diamond sand wheels need to be ordered specially). This machine features easy operation and reliable safety. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



TECHNICAL SPECIFICATION

- Max. cutting diameter: Ø80mm
- Sand wheel specification: 250 x 2 x 32mm
- Outside 60L water cooling system
- Quick clamping vice,LED lighting system
- T-slot working table, double-driving vise
- Sand wheel rotating speed: 2800 rpm
- Cutting table size 230x240mm
- Power:380V 50Hz Motor 2.2KW 3 phase
- Dimensions: 75 × 70 × 68 cm
- Net weight: 180Kg

ABRASIVE CUTTER METCUT M100

ABRASIVE CUTTER METCUT M80 can be used for cutting of normal metallography and lithofacies materials. The equipped cooling system can clear up the heat produced during cutting so that it will avoid the metallography structure deforming of specimen because of heating fluence. The cutting against rock and ceramics materials must be equipped with diamond sand wheel (diamond sand wheels need to be ordered specially). This machine features easy operation and reliable safety. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.



TECHNICAL SPECIFICATION

- Max. cutting diameter: Ø100mm
- Sand wheel specification: 350 x 2.5 x 32mm
- Outside 60L water cooling system
- Quick clamping vice,LED lighting system
- T-slot working table, double-driving vise
- Sand wheel rotating speed: 2800 rpm
- Cutting table size 230x240mm
- Power:380V 50Hz Motor 2.2KW 3 phase
- Dimensions: 80 × 79 × 69 cm
- Net weight: 195Kg

ABRASIVE CUTTER METCUT 250

METCUT 250 manual wheel feed abrasive saw has been designed for cutting and sectioning materials ranging from soft aluminum metals to hardened tool steels. It is ideal for the metallographic laboratory, as well as for small industrial or production applications.
MetCut 250 is very robust and durable with cast aluminum alloy and stainless steel construction. Featuring a corrosion-free stainless steel t-slot table, fabricated metal cover, a powerful 2.5KW 3-phase 3400 rpm motor, utilizing either 230mm or 250mm diameter abrasive blades, 32 mm (1.25-inch) arbor, 12 gallon recirculation tank and easy to use quick clamping cam lock vises.



Cut-off size	Max diameter 250 mm (10")
Cutting capacity	Max diameter 75 mm (3")
Wheel feed	Yes
Table feed	No
Table Dimensions	210 mm x 230 mm (8.3" x 8.9")
Operation	Manual
Cooling Unit	16 gallons (60 liters)
Motor power	3.5 hp
Electrical Specification	220 V or 380V 50/60 Hz (3 phase) -standard



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ABRASIVE CUTTER METCUT 270

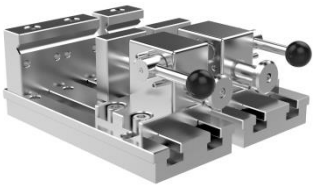
METCUT 270 is a manual wheel feed cutter. This allows for the samples to be positioned in the x,y and z-axis positions.
Applications: -Ferrous metals -Non-ferrous metals -Foundry castings -Power metallurgy -Heat treated parts -Specialty alloys -Wrought metals.
Wheel and Table Feed Cutters
• Highly reproducible • Easy to use • User friendly • Robust and durable design • Low cost • Easy to service • Support bench (optional) Benefits • Wheel feed controlled cutting • Cutting capacity up to 4 inches (100 mm) solid stock sample using a 300 mm (~12-inch) blade • Powerful 5.5 hp (4 KW) motor • Twin t-slotted stainless steel table • Electronic braking system
Clamping Devices Proper clamping or fixturing is required to prevent blade breakage and to optimize the cut. Vises range from a vertical clamping vise to fast cam locking devices.



TECHNICAL SPECIFICATION

Cut-off size	300x32x2.0mm
Cutting capacity	Max diameter 100 mm (4")
Wheel feed	Yes
Table feed	Yes
Table Dimensions	316 mm x 260 mm (12" x 9")
Operation	Manual
Cooling Unit	16 gallons (60 liters)
Motor power	5.5 hp (4 kW)
Motor speed	50 Hz 2880 rpm 60 Hz 3460 rpm
Dimensions (WxDxH)	900x860x650 mm (35.4 x 34 x 62-inch)
Weight	160 kg (350 lbs)
Electrical Specification	Standard 208Y 3-phase (380V or 480V 3-phase optional), 50/60 Hz

Clamping Systems



Fast Cam Locking Vise



ABRASIVE CUTTER(QUICK CLAMP) METCUT M63

ABRASIVE CUTTER METCUT M63 (rapid clamp) is used for cutting the metallographic specimens with irregular shapes such as cylinder, polygon etc., so as to observe the metallographic and lithofacies structure of the material. It adopts the fully-sealed structure with double shields, which can guarantee the safety of operator. The cooling system with good coolant can take away the heat of cutting so as to protect the structure of specimen from being burned. During cutting, the specimen can be adjusted in any angles, which helps to avoid the minor burning when the specimen is cut to fall. At the same time the cutting cross section is increased, thus the utilization ratio of cutting sand wheel is improved. This machine, featuring convenient operation and reliable safety, is the necessary equipment for specimen preparation in laboratories, college researching institutes and factories.



TECHNICAL SPECIFICATION

- Max. Cutting diameter: Ø65mm
- Quick clamp.If no quick clamp,**Model No. METCUT M62**
- Rotating speed: 2800 rpm
- Diameter of cutting sand wheel: 250 x 2 x 32 mm
- Power supply: 380V, 3-phase, 50Hz
- Motor: 1.5 KW
- Dimensions: 87 × 55 × 112 cm

ABRASIVE CUTTER ECOCUT 100/120

ABRASIVE CUTTER ECOCUT 100/120 is used to chiefly cut the specimen with cylinder-shaped, multi-angular and ordinary metallurgical specimens with convex space. With a double-cover fully-sealed structure and double clipping clamp structure, which can guarantee the absolute safety under the state of cutting.



TECHNICAL SPECIFICATION

Model No.	ECOCUT 100	ECOCUT 120
Max. cutting section	100 x 100 mm	120 x 120 mm
Cutting disc size	¢ 350×2.5× ¢ 32	¢ 400×3× ¢ 32
Rotate Speed	2800 r/min	2800 r/min
Cutting power	112M-2,4KW	112M-2,4KW
Cutting power	380V, 50Hz	380V, 50Hz
Machine Dimensions	800×660×1380mm	760×850×1400mm
Net Weight	315 Kg	380 Kg

AUTOMATIC ABRASIVE CUTTER METCUT A80/A100

AUTOMATIC ABRASIVE CUTTER METCUT A80/A100 is equipped with big cutting room and movable T-shape work table. Therefore this machine have the ability of cutting rectangle and large specimens. Also the equipped separate type vice is very convenient for operator to clamp various heterotypic workpieces.



FEATURES:

- Various cutting data can be displayed on high definition backlight type LCD screen.
- Manual and automatic cutting switchable
- Non-burning loss swing type cutting
- Bidirectional feeding means increase the length of deep cutting
- Total 7 levels cutting speed setting

TECHNICAL SPECIFICATION

Model No	GENCUT A80	GENCUT A100
Cutting Diameter	Φ80mm	Φ100mm
Cutting Speed	2.25, 3, 4, 5, 7, 9, 12, 15mm/min	2.25, 3, 4, 5, 7, 9, 12, 15mm/min
Max. cutting volume	Ø80mm x 200mm	Ø100mm x 200mm
Rotate Speed	2100rpm	2100rpm
Cutting Disc Size	350 x 2.5 x 32mm	350 x 2.5 x 32mm
Display	LCD with backlight	LCD with backlight
Power Supply	3Phase/380V/50Hz	3Phase/380V/50Hz
Machine Dimension	780 x 800 x 600mm	930 x 700 x 610mm

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AUTOMATIC ABRASIVE CUTTER GENCUT 200

is suitable for cutting precision various materials with strong ability, high reliability, easy operation. The machine consists of machine body, electrical control tank, super cutting room, and cooling system, supporting more economical and convenient cutting models. Meanwhile the user can define cutting models. Meanwhile the user can define cutting speed and track. At the same time, this machine have following features, such as self-test, security. Running tips in order to improve the quality of cutting sample. It is one necessary equipment in laboratory of colleges, research institutes and factories.



TECHNICAL SPECIFICATION

Input voltage	380v/50HZ
Feed speed	0.1-15mm/m
Spindle speed	2200RPM
Cut-off wheel	Φ350×2.5×32mm
Cutting capacity(Max)	Φ100mm
Max Table Moving Distance	145mm(Only Y axis for Auto&Manu)
Working table distance	300mm
Water combinet	60L
Working light	LED light
Input power	3.3kw
Cutting motor	3kw
Dimensions	960mm×855mm×735mm
Table Dimension	330mm×280mm
Net weight	285kg
optional	Cabinet / Transversal worktable (X axis)

AUTOMATIC ABRASIVE CUTTER GENCUT 220

is suitable for cutting precision various materials with strong ability, high reliability, easy operation. The machine consists of machine body, electrical control tank, super cutting room, and cooling system, supporting more economical and convenient cutting models. Meanwhile the user can define cutting models. Meanwhile the user can define cutting speed and track. At the same time, this machine have following features, such as self-test, security. Running tips in order to improve the quality of cutting sample. It is one necessary equipment in laboratory of colleges, research institutes and factories.



TECHNICAL SPECIFICATION

Input voltage	380v/50HZ
Feed speed	0.1-15mm/m
Spindle speed	2200RPM
Cut-off wheel	Φ350×2.5×32mm
Cutting capacity(Max)	Φ100mm
Max Table Moving Distance	145mm(Only Y axis for Auto&Manu)
Working table distance	300mm
Spindle Z lifting range	50mm
Input power	3.3kw
Cutting motor	3kw
Water combinet	60L
Working light	LED light
Dimensions	960mm×855mm×735mm
Table Dimension	330mm×280mm
Net weight	285kg
optional	Cabinet / Transversal worktable (X axis)

AUTOMATIC ABRASIVE CUTTER PENTA 110

FEATURES

- PETA-110 series various cutting modes can satisfy different cutting requirements from the customers.
- PETA-110 can be loaded with the cutting discs maximum diameter 300mm and equipped with XYZ three-axis rockerand 7-inch touch screen. It can achieve table-feed cutting (Y axis), chop cutting (Z axis), and segment cutting (YZ axis). The flexible cutting method avoids the damage of the sample in cutting process.
  PETA-110 offers the following 3 optional models:
- **PETA-110 Pro Automatic Cutting Machine:** LCD Touch Screen, Three-Axis Rocker Control, X-Axis, Y-Axis, Z-Axisautomatic cutting system. Adjustable speed of cutting disc: 1000-3500rpm, the maximum cutting diameter 110 mm. The maximum cutting section: 80x200mm. Laser Positioning. Various cutting modes can realize automatic adjustment of cutting speed in Y and Z directions, pulse cutting and step cutting.
- **PETA-110 MY manual/automatic integrated semi-automatic cutting machine:** LCD Touch Screen. Single-axis Y-Axis rocker, only Y Axis can realize automatic feed and pulse cutting. Z-Axis manual hand-wheel control can realize Z-Axis manual cutting. Cutting disc speed is not adjustable: 2800rpm.
- **PETA-110M manual cutting machine:** No LCD touch screen, operate by control panel and button. Y-axis movement controlled by hand-wheel, it can realize Y-Axis manual feed cutting. Z-axis cutting disc is also controlled by manual. Cutting disc speed is not adjustable: 2800rpm.
- PETA-110 is equipped with a caster-movable circulating cooling water tank. Capacity 80L. There are 2 optional filtering type:
  1.100μm filter basket (standard)
  2.Magnetic filter (optional);
- **PETA-110 offers the following fixtures:**
  1.Quick fixture for both right and left side (standard matching);
  2.Vertical fixture;
  3.Vertical fixture with chain;
  4.Customized fixture;



Model No.		PETA-110 Pro	PETA-110AY	PETA-110MY	PETA-110M
Max. Wheel Diameter		Φ300mm	Φ300mm	Φ300mm	Φ300mm
Min. Wheel Diameter		Φ200mm	Φ200mm	Φ200mm	Φ200mm
Max. Cutting capacity. Φ		Φ110mm	Φ110mm	Φ110mm	Φ110mm
Max. Capacity. Cutting HxD		80x200mm	80x200	80x200	80x200
Z-Axis Travel mm		150	150	150	150
Y-Axis Travel mm		200	200	200	200
X-Axis Travel mm		80	-	-	-
T-table Dimensions , mm		280x536 (636)	280x636	280x636	280x636
T-Slot Dimension mm		12	12	12	12
Cutting motor power Kw		4	4	4	4
RPM Wheel Speed		800-3500	800-3500	2800	2800
Control Panel		7 inch Touch Screen	7 inch Touch Screen	7 inch Touch Screen	Buttons
Cutting method	Smart Cutting	Auto	Auto	Auto	Manual
	Chop Cutting , Z- Axis	Auto	Auto	Manual	Manual
	Table Feed Cutting ,Y- Axis	Auto	Auto	Auto	Manual
	Pulse Cutting	Y-Axis Z-Axis	Y-Axis	Y-Axis	-
	Segment Cutting	Yes	Z-YesA	-	-
Cutting Feed rate , mm/s		0.01-5.0	0.01-5.0	0.01-5.0	-
Laser Alignment		Yes	Option	Option	Option
Weight , Kg		370	370	370	370
Recirculation coolant		80	80	80	80

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PRECISION CUTTER METCUT 150

PRECISION CUTTER METCUT 150 with touch controls. Fits 3-inch (75 mm) up to 7-inch (175 mm) diameter blades. Features: Variable speed from 300-1500 rpm cutting with digital speed readout, precision micrometer, counterbalanced sliding load system, automatic cut-off switch, with coolant system (built-in coolant tank for 5-7 inch blades, external coolant tank for 75-100mm blades), magnetic safety switch for the hood, and emergency stop button. MetCut 150 has a built in transformer so it can be operated at either 110V or 220V by the flip of a switch.

TECHNICAL SPECIFICATION

Model No.	METCUT 150
Cutting capacity	Max diameter 50 mm (2")
Cut-off blade size	Min. diameter 75-100 mm (3"-4") Max. diameter 125-175 mm (5-7")
Arbor size	12.50mm
Variable Speed (rpm)	300–1500 rpm continuously adjustable with LED speed display
Cutting Load	0-1000 gram load
Micrometer feed distance	0-25 mm (0 to 1-inch)
Micrometer accuracy	2 microns
Motor power	85 W
Electrical Specification	110V/220V (50/60 Hz) (single phase)
Dimensions W x H x D	410x 410 x 330mm
Weight	40KG



STANDARD DELIVERY

- Included with the saw
- Double parallel vise
- Specimen adhering vise
- Specimen vise for irregular shaped specimens
- Treadrop holder for 18-41mm(0.7-1.6 inch) roundspecimens
- Specimen vise for fastener
- Dressing unit

PRECISION CUTTER METCUT 160

PRECISION CUTTER METCUT 160 can be used to cut material, electronic element, electronic element, crystals, hard alloy, rock sample, core sample, concrete, organic materials, biological materials (teeth, bones), etc. It applies precise cutting without deformation.
The device features high-power servo motor driving, high locating accuracy, large range of speed, high cutting power, internal circulation cooling system, preinstall feed speed, menu control and liquid crystal display, etc. The users are free to define the cutting method. It is an ideal precise cutting machine which can be used in industrial and mining enterprises, scientific research institutes to prepare high quality samples.

TECHNICAL SPECIFICATION

- Feeding speed: 0~30mm/min(increment 0.01mm)
- Speed: 300~5000rpm
- Max cutting section: φ60mm
- Maximum stroke: Y axis 200mm
- Cutting wheel: 200 x 1.0 x 32mm ;
- Cutting power: 1100W
- Power source: 220V 50HZ
- Overall Dimension:
- 700mm×720mm×410mm
- Weight: approx. 130 KG



STANDARD DELIVERY

Water tank
Drain-pipe and Water inlet pipe
Diamond cutting disc
Cutting lubricant
Instruction Manual



MOUTING PRESS METMOU 300



METMOU 300 is designed for purpose of the last process before polishing. It is setting up those small, difficult-to-hold or irregular specimens 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 materials only .The punching temperature of different thermosetting materials can be adjusted depending upon the features of materials .

TECHNICAL SPECIFICATION

Model No.	METMOU 300-22	METMOU 300-30	METMOU 300-45
Sample diameter	φ22mm	φ30mm	φ45mm
Heating Range	Max190℃		
Holding time range	0-30min		
Machine Power	≦800w		
Input voltage	220V/50HZ		
dimension	260mm×360mm×450mm		
Net weight	35kg		

AUTOMATIC MOUNTING PRESS METMOU 400



METMOU 400 is suitable for tiny or irregular metallorgraphic, lithofacies specimen to be mouted so that the sample will be cut or grinded and polished, and then metallography, spectral measurement or hardness testing. This, machine adopts 7''big LCD screen display, which has the function of real-time temperature, holding time, cooling temperature. The complete process which is heating, constant pressure, cooling and sample preparation is controlled bu the CPU. The equipment can automatically press, heat and set the temperature condition in a minute. It is easy for us to operate the equipment with the stop button. After the sample preparation, the equipment may show prompt alarm and automatic pressure relief, automatic cooling, which can achieve the idea effect. It is one necessary equipment in laboratory of colleges, research institutes and factories.

TECHNICAL SPECIFICATION

Model No.	METMOU 400-22	METMOU 400-30	METMOU 400-45
Sample diameter	φ22mm	φ30mm	φ45mm
Heating power	450~1000w		
Heating Range	100-200℃		
Cooling Range	20℃~90℃		
Holding time Range	0-999(s)		
Input Voltage	Single-phase 220V 50HZ		
Cooling mode	Water /slow Cooling		
Dimension	350mm×400mm×465mm		
Net Weight	48kg		

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AUTOMATIC MOUNTING PRESS METMOU 500

METMOU 500 AUTOMATIC MOUNTING PRESS is a 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 SPECIFICATION

- 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 ºC
- Heat preserving time: 0-99m99s
- Dimensions: 615 × 510 × 500 cm
- Net weight: 110Kg
- Cooling method: water cooling



AUTOMATIC MOUNTING PRESS METMOU 510

METMOU 510 AUTOMATIC MOUNTING PRESS is a kind of full automatic mounting press, equipped with double working positions and in-out water cooling system. It is suitable for the hot mounting (thermo-hardening & thermoplastic) for all kinds of materials. After the parameters such as heating temperature, heat preserving time 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. It is the ideal specimen preparing instrument for using in factories, scientific research institutes and laboratories of colleges.

TECHNICAL SPECIFICATION

- Mould diameter: Ø25mm, Ø30mm, Ø40mm, Ø50mm
- Double working positions which increase the sample preparing capacity
- Touch screen LCD operation, automatic mounting process
- Equipped with water cooling system
- Cooling method: water cooling
- Heater: 850W
- Total power consumption: 1000W
- Power supply: single phase, 220V, 50Hz
- Dimensions: 670 x 590 x 510mm
- Net weight: 140Kg



VACUUM MOUNTING PRESS METMOU 200

The machine consists of a vacuum chamber, an indexing assembly, a fuselage assembly, a feed assembly, and a vacuum pump. This model can realize multi-sample setting, which can be quickly converted between each station to improve work efficiency.

TECHNICAL SPECIFICATION

Vacuum Chamber Diameter	φ260mm
Transposition Speed	5r/min
Sample Diameter	φ25~50mm、
Voltage	220V or 110V



AUTO GRINDING POLISHING MACHINE AUTPOL 300/320



Automatic polishing machine AUTPOL 300/320 is one kind of double disc type machine,which is the new generationg of high precison, the sample preparation process of automated manufacturing using the international advanced technology according to international standards.This machine adopts the advanced microprocessor control system,which makes the grinding disc,grinding head speed atepless adjustable,sample preparation pressure,time setting.The machine is applied more widely with the function of low noise and aluminum base.The machine is applicable to rough grinding,fine grinding,coarse polishing and polishing process as well as it is an ideal equipment for enterprises,scientific research institutions and colleges laboratory.

Model No.	AUTPOL 310	AUTPOL 320
Wheel diameter	φ250mm(200mm,300mm optional)	φ250mm(200mm,300mm optional)
Wheel quantity	1	2
Rotational rotation	Clockwise or anticlockwise	Clockwise or anticlockwise
Rotational speed	50-1000r/min&150/300r/min	50-1000r/min&150/300r/min
Power head speed	5-150r/min	5-150r/min
Loading range	5-60N	5-60N
Sample preparation time	0-9999S	0-9999S
Sample diameter	φ30mm(Φ22mm , Φ25mm,Φ40mm , Φ45mm , Φ50mm optional)	φ30mm(Φ22mm , Φ25mm , Φ40mm , Φ45mm , Φ50mm optional)
Preparation sample qty	6 PCS	6 PCS
Air pressure	0.6-0.8MPa	0.6-0.8MPa
Lighting	LED	LED
Input Voltage	AC220V 50HZ	AC220V 50HZ
Input power	1.1kw	1.1kw
Dimension	790mm ×566mm ×677mm	730mm X710mm X635mm
Net weight	93kg	98kg

SEMI-AUTO GRINDING POLISHING MACHINE AUTPOL 220/240

Grinding/polishing head

- Power: 200V or 380V 50/60HZ
- Rotate speed: 50 rpm/min
- Sample force: 0-40N
- Sample capacity: 3pcs weight:15kg



Model No.	SEMI-AUTPOL 220	SEMI-AUTPOL 240
Working Disc	1	2
Wheel diameter	φ250mm (200mm,300mm optional)	φ250mm (200mm,300mm optional)
Rotational speed	0-1400r/min	0-1400r/min
Constant speed	150r/min 、300r/min、600r/min、 1000 r/min	150r/min 、300r/min、600r/min、 1000 r/min
Emergency stop	YES	YES
Rotational direction	Clockwise or anticlockwise	Clockwise or anticlockwise
Input voltage	AC220V 50Hz	AC220V 50Hz
Wheel quantity	1PC	2PC
Input power	0.75KW	0.75KW
Dimension	594mm x795mm x310mm	758mm x785mm x310mm
Net weight	50kg	45kg

Automatic Grinding Polishing Machine AUTPOL GP100/GP120

AutoPOL GP are automatic grinder and polisher for metallographic specimen preparation. The strong and variable speed drive allows application for all working steps. The adjustable individual piston polishing heads can polish 1 to 6 specimens independent of each other.



AUTPOL GP120

FEATURES

- Simple operation for grinding and polishing
- Variable speed. Preset three fast speed buttons
- Adjustable piston pressure polishing head for polishing 1-6 specimens independent of each other
- CCW and CW direction control
- The water hose with universal direction can be pulled out for cleaning the basin
- Plastic disposable bowl liner for ease of cleaning
- Hard anodized aluminum working wheel
- Durable composite construction, antirust
- Powder coated aluminum housing, durable and reliable

AUTPOL GP100









TECHNICAL SPECIFICATION

Model No.	AUTPOL GP100	AUTPOL GP120
Wheel (mm)	Φ250mm	
Speed(rpm)	100-1000rpm , can be customized	
Wheel	1	2
Motor	550W	
Mode	Automatic	
Speed of head(rpm)	50-200	
Holder(mm)	Φ30x6pcs , Other sizes customerized	
Pressure	Individual Piston	
Motor of Head	90W	
Power	220V	
Paper Ring	•	•
Splash guard	•	•
Cover	•	•
Grinding paper	•	•
Polishing Cloth	•	•

Grinding Polishing Machine METPOL PM-1

It is suitable for pre grinding, grinding and polishing metallographic specimens. The machine is equipped with cooling system that can cool down the specimen during pre-grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen



Wheel diameter	Φ203mm
Constant speed	450 r/min (left)
Emergency stop	YES
Rotational direction	anticlockwise
Input voltage	AC220V 50Hz
Wheel quantity	1PC
Input power	370W
Dimension	595mm x785mm x320mm
Net weight	42kg

Grinding Polishing Machine METPOL PM-2

It is suitable for pre grinding, grinding and polishing metallographic specimens. The machine is equipped with cooling system that can cool down the specimen during pre-grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen



Wheel diameter	Φ203mm
Constant speed	450 r/min (left)、600 r/min (right)
Emergency stop	YES
Rotational direction	anticlockwise
Input voltage	AC220V 50Hz
Wheel quantity	2PC
Input power	370W
Dimension	755mm x780mm x310mm
Net weight	56kg

Grinding Polishing Machine METPOL 400/401/402

It is suitable for pre grinding, grinding and polishing metallographic specimens. Since the machine is speed-adjusted by microprocessor, it can run at a revolution of 0 to 600rpm/1000rpm/1400rpm,which favors the machine with wide applications. The machine is equipped with cooling system that can cool down the specimen during pre grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen.



Model No.	METPOL 400	METPOL 401	METPOL 402
Wheel diameter	Φ203mm	Φ250mm	Φ300mm
Rotational speed	0-1400r/min	0-1000r/min	0-600r/min
Constant speed	150r/min 、300r/min、600r/min、1000 r/min		150r/min 、300r/min、450r/min、 600r/min
Emergency stop	YES		
Rotational direction	Clockwise or anticlockwise		
Input voltage	AC220V 50Hz		
Wheel quantity	1PC		
Input power	0.75KW		
Dimension	594mm x795mm x310mm		
Net weight	40kg		

www.prideinstrument.com sales@prideinstrument.com

Grinding Polishing Machine METPOL 420/421

This grinder polisher is double plate. It is suitable for pre grinding, grinding and polishing metallographic specimens. Since the machine is speed-adjusted by microprocessor, it can run at a revolution of 0 to 1000rpm/1400rpm, which favors the machine with wide applications. The machine is equipped with cooling system that can cool down the specimen during pre-grinding so as to prevent overheating and damage the metallographic structure. Featuring easy operation and reliable performance, it is an indispensable device for the factories, research institutions and college labs to prepare metallographic specimen.



Model No.	METPLO 420	METPLO 421
Wheel diameter	Φ203mm	Φ250mm
Rotational speed	0-1400r/min	0-1000r/min
Constant speed	150 r/min 、300 r/min、600 r/min、1000 r/min	
Emergency stop	YES	
Rotational direction	Clockwise or anticlockwise	
Input voltage	AC220V 50Hz	
Wheel quantity	2PC	
Input power	0.75KW	
Dimension	758mm x785mm x310mm	
Net weight	40kg	

Grinding Polishing Machine METPOL 007

ED@ST QDR

- This model is the economical & practical instrument designed for metallographic specimen preparing. It can meet the demands of specimen preparing from customers very well.
- This model is designed and manufactured as per international advanced specimen preparing technology.
- Equipped with beautiful appearance machine shell and stainless steel parts which never rust.
- Equipped with double motors & double working disks which features independent controlling. The working disk can be changed and replaced swiftly.



TECHNICAL SPECIFICATION

- Diameter of working disc: 1//l l '12/+14/l l nosmm`k(
- Rotating speed of working disc: two-level constant speed of 300 / 600rpm (or 150 / 300 rpm is optional)
- Power supply: three phases, 380V, 50Hz
- Motor 120W/250W*2
- Dimensions: 70 x 68 x 33 cm
- Net weight: 50 Kg

5-STATION HAND GRINDER METPOL 550

METPOL 550 5-station hand grinder offers the small lab the ability to prepare samples for macro viewing within minutes. This hand grinder offers 5 stations for coarse to fine grinding. With the addition of the 5th station a near polished specimen can be obtained using a 1200 (P4000) grit SiC paper. METPOL 550 has an easy to advance system for providing fresh abrasive for consistent and rapid grinding,it also has an adjustable flow valve for wet grinding as well.



FEATURES:

- 5-station hand grinder
- Wet or dry grinding
- Manual grinder
- Easy to change abrasive rolls
- Easy to use
- Robust and durable design
- Low cost
- Easy to service



Grinding stations	240 grit,360 grit,600 grit,800 grit,1200 grit
Construction	Aluminum casting
Cooling rinse system	Water control
Dimensions (W x L x H)	610 x 510 x 130mm

ABRASIVE BELT SURFACE GRINDER METBEL 300

METBEL 300 ABRASIVE BELT SURFACE GRINDER made according to the international standard and advanced process technique. It adopts sand belt to grind and polish the specimen. The different belts can be changed swiftly. This machine can be used to replace the disc grinder and manual type abrasive paper grinding. It only takes 1-2 minutes to for each belt to finish the operation. For the grinding of spectroscopy specimen, it is very economic to save time, labour and abrasive paper. This machine can be widely used in laboratories, researching institutes and factories.



TECHNICAL SPECIFICATION

- Distance between the centers of two rollers: 255mm
- Equipped with water cooling system
- Sand belt: 920mm x 100mm (L x W)
- Rotating speed: 1400 rpm
- Motor: 550W
- Power supply: 380V, 3-phase, 50Hz

ABRASIVE BELT SURFACE GRINDER METBEL 310

METBEL 310 ABRASIVE BELT SURFACE GRINDER made according to the international standard and advanced process technique. It adopts sand belt to grind and polish the specimen. The different belts can be changed swiftly. This machine can be used to replace the disc grinder and manual type abrasive paper grinding. It only takes 1-2 minutes to for each belt to finish the operation. For the grinding of spectroscopy specimen, it is very economic to save time, labour and abrasive paper. This machine can be widely used in laboratories, researching institutes and factories.



TECHNICAL SPECIFICATION

- Distance between the centers of two rollers: 255mm
- Equipped with water cooling system
- Sand belt: 920mm x 100mm (L x W)
- Rotating speed: 1400 rpm
- Surface speed: 768 rpm
- Motor: 550W
- Power supply: 380V, 3-phase, 50Hz
- Dimensions: 600 × 550 × 310 mm

XJP-17AT/17BT METALLURGICAL MICROSCOPE



XJP-17 metallurgical microscopes are used for identification and analysis of the structures in different metals and alloys. They are the important instruments for researching metallography in metal physics. The instruments can select special photography device to take euploid pictures of atlas metallograph. The instruments are suitable for scientific research,colleges and factory.

FEATURES

- With plan achromatic objectives with long working distance (no cover glass) and wide-field eyepieces, can get clear pictures and wide view field.
- Coaxial coarse/fine focus system, with tension adjustable and up stop, minimum division of fine focusing: 2μm.
- 6V 20W halogen lamp, brightness control.
- Trinocular is compensation, can switch to observe normally or to observe the Polarize, can send 100% of light to top photography port.

Observation System



- Binocular , single diopter adjustment,inclined 30° , comfortable & good- looking.Trinocular can be connected to the camera. 10X wide field plan eyepiece, field Ø18mm , can provide an expanse and smooth space for observation.

Mechanical Stage



- The circular chromeplate substage is located in the center of mechanical stage so that enable rotate the specimen in the polarization observation.

Illumination System



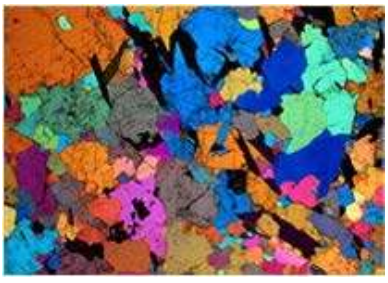
- Integrated illumination can make upthe difference of halogens by adjusting the spacial position. The illumination mode is" Kohler illumination" .and the adjustment of field and aperture diaphragm is achieved by turning the control plate,by adding the flashboard ploarizer can be rotated from 0°~90° . the adjustment mode is smooth and comfort.

Photography Unit

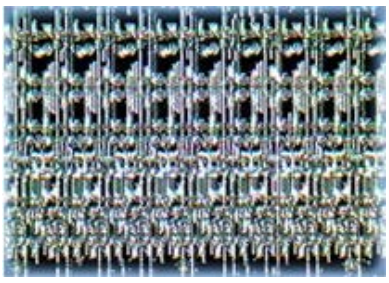


- By adding the appurtenance such as CCD adapter, digital camera adapter and single- reverse digital camera adapter and etc. It can achieve high clear observation mode of camera and vidicon

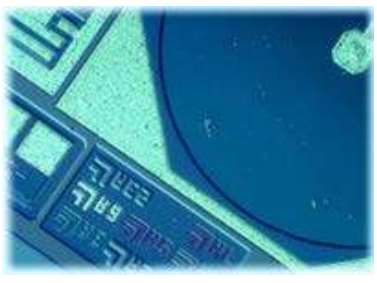
Digital camera photography:



Polarized observe



Bright type observe



Bright type observe

TECHNICAL SPECIFICATION

Model No.	XJP-17AT	XJP-17BT
Eyepiece	Wide field WF10X(Φ18mm)	
Objective	Plan achromatic objectives with long working distance (no cover glass) PL 10X/0.25 Plan achromatic objectives with long working distance (no cover glass) PL L20X/0.40 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 100X/1.25(Spring, oil)	Achromatic objectives(no cover glass) 10X/0.25 Achromatic objectives(no cover glass) 20X/0.40 Achromatic objectives(no cover glass) SP 40X/0.65 Achromatic objectives(no cover glass) 100X/1.25(Spring, oil)
Eyepieces tube	Trinocular, Inclination of 30˚	
Filter	Blue filter Green filter Yellow filter	
Focus system	Coaxial coarse/fine focus system, with tensional adjustable and up stop, minimum division of fine focusing: 2μm.	
Nosepiece	Quadruple(Ball bearing inner locating)	
Stage	Double layer mechanical (Size:180mmX150mm,moving range:15mmX15mm)	
Illumination	6V 20W halogen lamp, brightness control.	

INVERTED METALLURGICAL MICROSCOPE XJP-420



FEATURES:

■ XJP-420 Infinitive Optical System Providing Excellent Optical Functions. With the stable stand structure, advanced stage design and comfortable operation, it is widely used in institute and laboratory to observe and identify the structure of various metal and alloy.

TECHNICAL SPECIFICATION

Eyepiece	High-point , extra wide field eyepiece EW10×/ 20
Objectives	Inifitive Plan achromatic objective 4X/0.1 Inifitive Plan achromatic objective10X/0.25 Inifitive Plan achromatic objective20X/0.4(s) Inifitive Plan achromatic objective 40X/0.6
Viewing Head	Inclined 30°, interpupillary distance 48-75mm
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation
Mechanical Stage	Plain stage, stage layer Ø110mm, hole Ø10mm,Ø15mm,Ø25mm Moving range 120X78mm,loading plate 128X86mm
Nosepiece	Quintuple Nosepiece
Illuminator	6V/30W Halogen Lamp,Adjustable
Color Filter	Yellow, Blue , Green Color Filter, Ground Glass
Power Supply	AC220V/50Hz;110V/60Hz

OPTIONAL ACCESSORY

Product Name	Product Name
Infinite Plan Achormatic 5x/0.25	Infinite Plan Achormatic 80x/0.9
Infinite Plan Achormatic 100X/0.80	Mechanical 226x178mm
1xC-mount(Available for Digital Camera)	USB Camera USB-A1

XJP-410/410BD METALLURGICAL MICROSCOPE



XJP-410/410BD upriht metallurgical microscopes are suitable to observe surface of opaque object or transparent object. They are equipped with excellent UIS optical system and modularization function design so that provited excellent optical quilatity and operation performance, update system expediently and provided observation in reflected or transmitted and mixed illumination, polarizing observation, dark field observation. These instruments have beautiful sculpt, convenient control and clear image. They are the ideal instrument in research work in biology, metallography, mineralogy, precision engineering, electronics, ect.

FEATURES

Observation System



- Eyepieces tube: single diopter adjustment, inclined 30° , Trinocular can be connected to the camera.
- 10X wide field plan eyepiece: field φ 22mm , can provide an expanse and smooth space for observation.
- objective:infinity plan achromatic objective.

Transmitted illumination system



- Collector for halogen lamp illumination and integrated field diaphragm it can provide clear and bright image. Abbe condenser NA.1.25 Rack & pinion adjustable.

Epi-illumination





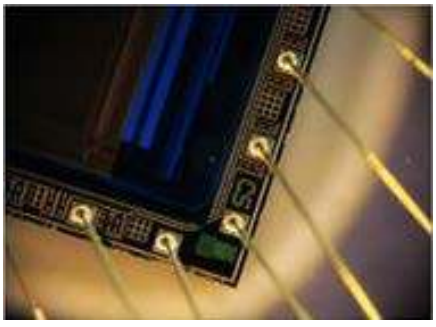
- Integrated filed diaphram,aperture diaphragm and filter switching device.Push-pull type analyzer and polarizer.
- XJP-410:6V 30W halogen lamp,adjustable brightness.
- XJP-410BD:12V 50W halogen lamp and adjustable brightness.
- XJP-410/410BD:Equipped with Y,B,G filters and frosted glass.

Dark field observation(for XJP-410BD)

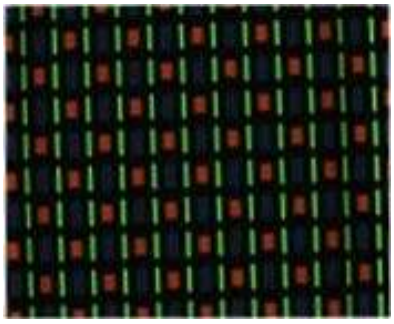


- Equipped high quality bright and dark field objectives and dark field illumination device.Avoid the stray light of illumination system and improve the image quality in the dark field.

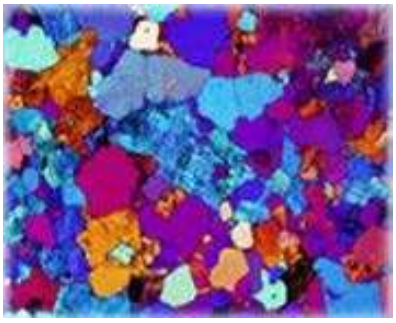
Digital camera photography:



Dark type observe



Bright type observe



Polarized observe

TECHNICAL SPECIFICATION

Eyepiece	10X wide field plan eyepiece and field of view number is Φ22mm, the eyepiece interface is Φ30mm		
Infinity plan achromatic objectives	**XJP-410 (Equipped bright field objective)**		PL L5X/0.12 working distance : 26.1 mm
			PL L10X/0.25 working distance : 20.2 mm
			PL L40X/0.60 working distance : 3.98 mm
			PL L60X/0.70 working distance : 2.08mm
	XJP-410BD (Equipped with dark / bright field objective)		PL L5X/0.12 BD working distance : 8.05 mm
			PL L10X/0.25BDworking distance : 7.86mm
			PL L20X/0.40 BD working distance : 7.2mm
			PL L40X/0.60BD working distance : 3.0 mm
Eyepiece tube	Trinocular inclined 30˚, pupil separation 53~75 mm.		
Focusing system	Coaxial coarse/fine focus system, with tension adjustable device, minimum division of fine focusing: 2.0μm.		
Nosepiece	Quintuple (Backward ball bearing inner locating)		
Stage	Mechanical stage , overall size : 210mmX140mm , moving range: 63mmX50mm		
Illumination system	**XJP-410**		6V30W halogen and brightness enable control.
	XJP-410BD		12V30W halogen and brightness enable control for transmission illumination. 12V50W halogen and brightness enable control for reflecting illumination.
	Integrated field diaphragm, aperture diaphragm and puller type polarizer.		
	Equipped withgroundglass and yellow ,green and blue filters		
Optional Accessory	Eyepiece		Dividing eyepiece(Φ22mm)
	Objective	**XJP-410**	Bright field objective 20X、50X、80X、100X(Dry)
		XJP-410BD	Bright&dark field objective 50X、60X、80X、100X
	CCD adapter		0.5X、1X、0.5X (with dividing)
	Camera		Usb output 1.3M、3.0M、5.0M、10Mpixel
	Digital camera adapter		Cannon (EF) nikon (F)

PORTABLE METALLURGICAL MICROSCOPE XJP-200, 10x & 50x Objectives

XJP-200 is a portable metallurgical microscope equipped with a rechargeable LED vertical illuminator. It can be used in the field to easily identify the structures of all types of metals and alloys. This portable metallurgical microscope can be widely used for identification of casting quality, inspection of raw material or metallurgical structures research and analysis of processed material in factories and laboratories also can be used in antique gem and surface observation.



TECHNICAL SPECIFICATION

Eyepiece	Plan eyepiece 10x/18mm
Objective	Long work distance plan objective: 10x and 50x
Total Magnification	100x and 500x
Mechanical Tube Length	160mm
Focusing Range	36mm
Illumination	Adjustable LED light. Rechargeable.
Dimension	23cm x 11cm x 7cm
Weight	0.75kg

PORTABLE METALLURGICAL MICROSCOPE XJP-300

The stable body ensures high-precision, sharp images, bright field of view and good observation. It also available connect digital camera, CCD camera, digits cam for images capture. XJP-300 is widely used in non-destructive testing in the field of material analisis of mechanical parts, metallurgy, roll, chemical industry and electrician etc. It is also used in factories and laboratories for casting quality identification, raw material inspection and to identify different metal and alloy organization structure. Applicable to operate inspection and analysis on the large pieces directly.



TECHNICAL SPECIFICATION

Plan Eyepiece	WF10X(Φ18mm) /12.5X
Long WD Plan Objective	10X/0.25、50X/0.65(Metallurgical Objective)
Total Mag.	100X-500X
Focusing Range	36mm
Mechanical Tube Length	160mm
Voltage	3.6V
Magnetic Base	90×70mm; Traveling Range: vertical 10mm; horizontal 10mm
Weight	Net: 0.75kg Gross: 0.9kg
Dimension	230×110×70(mm)
LED	Built-in rechargeable battery Adjustable brightness

STANDARD DELIVERY

A	Main Body
B	Eyepiece (10X)
C	Achromatic Objective (10X、40X)
D	Power cord
E	Magnetic Base
F	Suitcase
G	Warranty card
H	Certificate
I	Operation manual

OPTIONAL ACCESSORY

A	Achromatic Objective	4X、20X、60X、80X
B	Plan Metallographic Objective (Long Working Distance)	10X、20X、40X、60X、100X
C	CMOS Electronic Eyepiece	0.35MP、1.3MP、2MP、3.2MP、5MP、8MP、10MP ,many functions: single, timing, continuous image capture, display scale, measurement etc.
D	DSLR Digital Camera	Over 10 megapixel SLR camera(contains photo and video) such as Canon、 Nikon、 Leica etc.



Polarizer & Analysiser Slides (Optional)



Portable Aluminium Case



Photo Adapter For SLR Digital Camera (Optional)



Magnet Stand (Optional)









PORTABLE METALLURGICAL MICROSCOPE RMM-A3

FEATURES:

- The Roll Scope RMM-A3 is a very high quality, portable, upright metallurgical microscope
- Designed to be positioned directly over your sample for quick, efficient and easy observations.
- Dedicated Camera Port with C-mount camera adapter
- It is a fully equipped metallurgical microscope with built-in LED epi-illumination.
- You can use the microscope anywhere because it can be used with AA batteries.
- The microscope, as standard, is equipped with three top quality metallurgical objectives:
  M5X
  M10X
  M40X
- The objectives are mounted on a three position objective turret. Optionally you can add a M20X objective..
  Another option is the dial depth guage which is used for height and step measurements.
  The microscope can be turned into a top quality digital microscope by adding a camera, including battery powered cameras for the live transmission of the image to a Smartphoone, Smartpad, PC or direct to a PC or SD card via WiFi, USB or HDMI.
- Measurement software can also be supplied.

50X-800X Magnification (with options), Camera Option, Z Measurement option



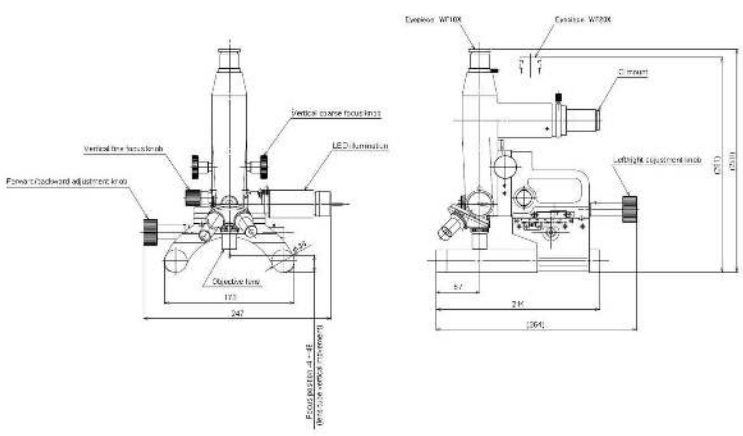
TECHNICAL SPECIFICATION

Microscope System	Monocular viewing head with dedicated camera port incl. C mount camera adapter (0.7X), three position objective turret
Objectives	Standard: M5X, M10X, M40X Optional: M20X
Eyepieces	Standard: WF10X Optional: WF20X
Movement Range	Front - Rear direction: 50mm Right - Left direction: 30mm
Focussing	Coarse movement range: 50mm Fine movement range: 2mm Separate coarse and fine focus knobs
Illumination	White LED reflected illumination
Power Supply	Dedicated AC adapter or 4X AA batteries
Filter	Yellow and Green (replaceable)
Weight	Main Unit 4.6Kg (plus AC adapter 0.3Kg or batteries)

Common Uses

- Aviation – to inspect structural integrity of parts and components
- Printing – measurement of Gravure cells and Anilox rolls
- Field metallography
- Ship hull and press vessel examination
- Rolled materials inspection
- On-site failure analysis

DIMENSION



PORTABLE METALLURGICAL MICROSCOPE XJP-500

XJP-500 is a self-contained portable metallurgical microscope ideally used for inspecting metallography of metals in laboratory or in-situ. With fully handheld design and unique magnetic stand, XJP-500 can be attracted directly against the surface of ferrous metal at any angles for non-destructive examination on flatness, curvature as well as other complicated surface. PH 500 also can be used with digital camera or CCD image process system to download metallurgical image on to PC for data transfer, analysis, storage and printout.



FEATURES

- Handheld design makes inspecting metallograph easy in-situ.
- Magnetic stand can be attracted against ferrous metals at any angles.
- X,Y slideway move makes inspection friendly
- More convenient for photography
- Non destructively examination

TECHNICAL SPECIFICATION

- Microscope main: 100-500x (extendable 1500x)
- Eyepiece (largeview): 10x,12.5x (extendable15x)
- Objective: 10x, 40x (extendable 100x)
- Photo Eyepiece: 15x
- Slideway: X-direction 15mm, Y-direction12mm
- Camera: 35mm
- Digital Camera
- Illuminator (halide): 6V 15W
- Power supply: 230Vac 50/60Hz
- Stand: On-off magnetic stand
- Size: 210x160x 95mm
- Weight: 2.5kg

STANDARD DELIVERY

10X,12.5X eyepiece
10X,40X objective
Main body
Illuminator
Power supply
Carrying case

ELECTROLYTIC POLISHER for Metallurgical Microscope E-P302

E-P302 Electrolytic Polisher is a kind of pretreatment apparatus for metallographic specimen of metal materials. It is applicable to the polishing and etching of large work pieces in site and laboratory. The unique current-limiting structure after modification makes its overall structure compact and small. It is a kind of supplementary specimen preparation method for mechanical polishing. This apparatus has good effects on some soft nonferrous metal materials and some metal materials which can easily generate deformation layer in polishing such as high manganese steel and martensitic stain less steel.

Compared with mechanical polishing, electrolytic polishing has some merits including: scratch is easily caused in mechanical polishing for the soft metal materials, therefore, in order to obtain good polishing surface, fine polishing method and skilled polishing technology are needed. However, a smooth rubbed surface with no scratch can be easily obtained in electrolytic polishing. Electrolytic polishing produces no additional surface deformation and can easily eliminate the deformation disturbed layer on surface. For some metal materials with high hardness, electrolytic polishing is rapider than mechanical polishing. The shortcomings of electrolytic polishing include: it is not appliance to micro segregation for materials with non-homogeneous chemical composition. Moreover, electrolytic polishing can not be used for materials with emerged inclusion.



TECHNICAL SPECIFICATION

Engine	Engine model	Kw/rpm	135.5/2150
	No. of cylinders	Kw/rpm	637/1800
	Net Power	L	6.494
Main performance parameters	Main performance parameters	km/h	5.9/4.0
	Travel speed (max. & min.)	°	<=35
	Max. Gradeability	rpm	11.3
Hydraulic system	Hydraulic system	KPa	50.1
	Main pump	KN	161
	Rate flow	KN	12

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METALLOGRAPHIC CONSUMABLES

CONSUMABLES FOR CUTTING

1.Cut off wheels
2.Diamond wafering blades
3.Cutting coolant

CONSUMABLES FOR MOUNTING

1.Hot mounting
2.Cold mounting
3.Mounting accessories

CONSUMABLES FOR POLISHING AND GRINDING

1.Abrasive paper
2.Diamond discs
3.Adapter plate
4.Polishing cloth
5.Polishing consumables

For more details,pls contact our local distributors or our sales: sales@prideinstrument.com / info@prideinstrument.com.



SPECIMEN LEVELING PRESS SLP-100

When viewing flat polished surfaces with an optical microscope, it is desirable that the image stays in focus as the specimen is traversed on the microscope stage.
When viewing flat polished surfaces with an optical microscope, it is desirable that the image stays in focus as the specimen is traversed on the microscope stage. To achieve this, the polished surface must be made parallel to the glass slide. The specimen levelling press is used to fix standard metallographic mounts or irregular shaped polished samples onto glass slides using Plasticine or mounting wax.

TECHNICAL SPECIFICATION

Metal body
Up pressing diameter Ø50mm
Lower table diameter Ø90mm
Working distance 45mm
Accuracy ≤0.5mm
Weight 1kg
Dimension W/D/H: 100x120x215mm



SPECIMEN LEVELING PRESS SLP-200

TECHNICAL SPECIFICATION

Metal body
Up pressing diameter Ø85mm
Lower table diameter Ø85mm
Accuracy ≤0.5mm
Weight 3kg
Dimension W/D/H: 120x153x310mm



PRIDE®

DIGITAL FORCE GAGE
ANALOG FORCE GAGE
MANUAL TEST SAND
MOTORIZED TEST STAND
DIGITAL TORQUE METER
DIGITAL CAP TORQUE METER
DIGITAL TORQUE WRENCH
WINDOW SCALE TORQUE WRENCH
MICROMETER TORQUE WRENCH
MECHANICAL TORQUE WRENCH
TORQUE SCREWDRIVER
DIAL TORQUE WRENCH
TORQUE MULTIPLIER
DIAL TENSION GAGE



FP DIGITAL FORCE GAUGE



FEATURES

- Four liquid crystal display
- The high accuracy ±0.2%
- Up to 2,000 times/sec sampling rate
- Automatic memory 100 measured values
- Set the measuring upper and lower
- Real-time display measured values and measured curve
- View each curve measured values
- Free setting the scan time
- The screen can flip display
- Set automatic shutdown of time
- Set up automatic peak measuring time
- Kgf / N / lbf conversion measurement
- Automatic charge control
- Battery consumption shows that elegant appearance
- Take RS-232 interfaces connected to the computer
- Quadratic programming

TECHNICAL SPECIFICATION

Model No.	Capacity	Graduation
FP-0.1B	100.0gf/1.000N/4.00ozf	0.1gf/0.001N/0.01ozf
FP-0.2B	200.0gf/2.000N/8.00ozf	0.1gf/0.001N/0.01ozf
FP-0.5B	500.0gf/5.000N/16.00ozf	0.1gf/0.001N/0.01ozf
FP-1B	1.000kgf/10.00N/2.000lbf	0.001kgf/0.01N/0.001lbf
FP-2B	2.000kgf/20.00N/5.000lbf	0.001kgf/0.01N/0.001lbf
FP-5B	5.000kgf/50.00N/10.00lbf	0.001kgf/0.01N/0.01lbf
FP-10B	10.00kgf/100.0N/20.00lbf	0.01kgf/0.1N/0.01lbf
FP-20B	20.00kgf/200.0N/50.00lbf	0.01kgf/0.1N/0.01lbf
FP-50B	50.00kgf/500.0N/100.0lbf	0.01kgf/0.1N/0.1lbf

- Battery: 7.2V Ni-MH rechargeable batteries
- Operating temperature range: 0℃ -50℃
- Size: 145mm × 75mm × 38mm
- Weight: Net weight: 0.28 kg Gross weight: 1 kg
- Charger: Input AC 220V/50Hz, Output DC 12V/200mA

STANDARD ACCESSORIES



DIMENSIONS

