



Physical Test Solutions

Innovative Solutions in Material Test Equipment

Hardness Testing Instrument



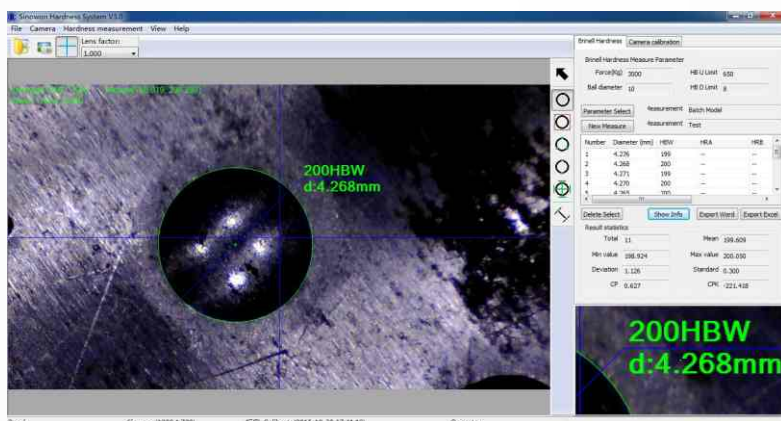
Brinell Hardness Tester

SHB-3000B

+ Features

- Solid construction, good rigidity, precise, reliable, durable, high efficiency.
- High precision reading microscope measurement system.
- Widely used in quality control, strong adaptability to working environment.
- In line with GB/T231.2, ISO 6506-2, ASTM E10.

+ Optional Brinell Measurement Software



Weight Loading



+ Specifications

Product Name	Brinell Hardness Tester		
Model	SHB-3000B		
Code#	831-101		
Test Force	187.5Kgf, 250Kgf, 750Kgf, 1000Kgf, 3000Kgf		
	1839N, 2452N, 7355N, 9800N, 29400N		
Measuring Range	(8-450) HBS, (8-650) HBW		
Hardness Display	Check the table of Brinell Hardness scale		
Magnification of Microscope	Analogue 20X Microscope		
Max Height of Specimen	230mm		
Instrument Throat	120mm		
Power Supply	AC220V/50Hz; 110V/60Hz		
Dimension	700x268x842mm		
Gross/Net Weight	210Kg/240Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW ≤ 125	≤ ±3.5%	≤ 3.5%
	125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
	HBW > 225	≤ ± 2.0%	≤ 2.5%

Electronic Brinell Hardness Tester

SHB-3000E

+ Introduction

SHB-3000E is an affordable electronic Brinell testing machine with high accuracy, reliability and durability, it is applied at the workshops and measurement departments for determining the Brinell hardness of the material of ferrous and non-ferrous metals.

+ Features

- SHB-3000E adopts the load cell to replace the traditional weight, this innovative 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.
- SHB-3000E uses 20X Brinell measuring microscope to measure the diameter of indentation, then the operator traces the Brinell hardness table to get the testing result.



Analogue 20X Microscope
(831-211)



+ Specifications

Product Name	Electronic Brinell Hardness Tester		
Model	SHB-3000E		
Code#	831-111		
Test Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf 612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Display	Check the Table of Brinell Hardness Scale		
Magnification of Microscope	Analogue 20X Microscope		
Max Height of Specimen	225mm		
Instrument Throat	135mm		
Power Supply	AC220V/50Hz; 110V/60Hz		
Dimension	530x220x790mm		
Gross/Net Weight	160Kg/130Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW ≤ 125	± 3.5%	≤ 3.5%
	125 < HBW ≤ 225	± 2.5%	≤ 3.0%
	HBW > 225	± 2.0%	≤ 2.5%

Color Touch Screen Digital Brinell Hardness Tester

Vexus SHB-3000T**+ Features**

- Vexus SHB-3000T differs from like products is the close loop loading system, key panel and touch screen double input methods, blue tooth transferring technology and digital measurement indentation technology;
- High accuracy close loop loading sensor replace traditional weights loading method, to realize automatic loading, dwell and unloading, makes easier installation and better measurement accuracy;
- Equips with 5.2" color touch screen with innovative interface design, makes force selection, dwell time setting, scale conversion and data reading, transferring, printing more convenient and fast;
- One touch operation of indentation measurement by high resolution objective, largely eliminate human error and avoid annoyance to check indentation comparison table;
- Auto hardness conversion from Brinell scale HBW to HK, HV, HRA, HRB, HRC, superficial rockwell scales, etc;
- Equips with Bluetooth Device, optional Bluetooth printer and computer acceptor is available to realize wireless printing and data transferring.



20X Mechanic Microscope
(831-211)

Key Panel/Touch
Screen Input

Close Loop
Loading System

Bluetooth
Transferring

**+ Specifications**

Product Name	Color Touch Screen Digital Brinell Hardness Tester		
Model	Vexus SHB-3000T		
Code#	831-140		
Test Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf		
	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Display	LCD Display		
Magnification of Microscope	20X Mechanic Microscope		
Conversion Standard	ASTM, DIN		
Languages	Chinese, English, German, Portuguese, Turkish, Czech, Korean		
Max Height of Specimen	225mm		
Instrument Throat	135mm		
Power Supply	AC220V/50Hz; 110V/60Hz		
Dimension	545x235x755mm		
Gross/Net Weight	160Kg/130Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW ≤ 125	≤ ± 3.5%	≤ 3.5%
	125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
	HBW > 225	≤ ± 2.0%	≤ 2.5%

Color Touch Screen Digital Brinell Hardness Tester

Vexus SHB-3000D

+ Features

- Vexus SHB-3000D differs from similar product which is the close loop loading system, key panel and touch screen double input methods, blue tooth transferring technology and digital measurement indentation technology.
- High accuracy close loop loading sensor replaces traditional weights loading method, to realize automatic loading, dwell and unloading, makes easier installation and better measurement accuracy.
- Equipped with 5.2" color touch screen with innovative interface design, makes force selection, dwell time setting, scale conversion and data reading, transferring, printing more convenient and fast.
- One touch operation of indentation measurement by high resolution objective, largely eliminate human error and avoid annoyance to check indentation comparison table.
- Auto hardness conversion from Brinell scale HBW to HK, HV, HRA, HRB, HRC, superficial rockwell scales, etc.
- Equipped with Bluetooth Device, optional Bluetooth printer and computer acceptor is available to realize wireless printing and data transferring.

Key Panel/Touch
Screen Input

Indentation Digital
Measurement

Close Loop
Loading System

Bluetooth
Transferring



+ Specifications

Product Name	Color Touch Screen Digital Brinell Hardness Tester		
Model	Vexus SHB-3000D		
Code#	831-120		
Test Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf		
	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Display	LCD Display		
Magnification of Microscope	20X Mechanic Microscope		
Conversion Standard	ASTM, DIN		
Languages	Chinese, English, German, Portuguese, Turkish, Czech, Korean		
Max Height of Specimen	225mm		
Instrument Throat	135mm		
Power Supply	AC220V/50Hz; 110V/60Hz		
Dimension	545x235x755mm		
Gross/Net Weight	160Kg/130Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW ≤ 125	≤ ± 3.5%	≤ 3.5%
	125 < HBW ≤ 225	≤ ± 2.5%	≤ 3.0%
	HBW > 225	≤ ± 2.0%	≤ 2.5%

Digital Brinell Hardness Tester

SHB-3000C

+ Features

- SHB-3000C is a half automatic and intelligent Brinell hardness testing machine, it adopts the load cell to replace the traditional quality weight, this innovative 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.
- SHB-3000C adopts digital Brinell microscopes with adjustable LED illuminator, it doesn't need the operator to read the detail length of indentation, it only needs operator to aim the D1, D2 diagonal of indentation and press the length key twice above the Microscope, then the built-in computer can computer the Brinell scale and display the final testing result on LCD display automatically.
- SHB-3000C supports the hardness conversion, it can use Brinell scale to get conversion scale of HRC, HRB, HRC, HV, etc.

+ Applications

- Testing Brinell hardness of ferrous, non-ferrous metal and bearing alloy materials.
- Wide application range, especially used in precision measurement of parallel plane.
- What's more, measurement of curved surface is stable and reliable.

+ Specifications

Product Name	Digital Brinell Hardness Tester		
Model	SHB-3000C		
Code#	831-131		
Test Force	62.5Kg, 100Kg, 125Kg, 187.5Kg, 250Kg, 500Kg, 750Kg, 1000Kg, 1500Kg, 3000Kg 612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Display	LCD Display		
Magnification of Microscope	20X Digital Microscope		
Output Data	RS 232/Printer		
Conversion Standard	HR, HV, HK, etc		
Max Height of Specimen	225mm		
Instrument Throat	135mm		
Power Supply	AC220V/50Hz;110V/60Hz		
Dimension	530x220x790mm		
Gross/Net Weight	160Kg/130Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW ≤ 125	± 3.5%	≤ 3.5%
	125 < HBW ≤ 225	± 2.5%	≤ 3.0%
	HBW > 225	± 2.0%	≤ 2.5%

Load Cell

Close Loop

Large LCD display

Hardness Conversion

Digital Microscope

Digital Measurement



Full Auto Brinell Hardness Tester

AutoBrin AB-3000V

**One Touch
Operation**

BrinScan V3.0

**Auto
Measuring**

Auto Loading/
Dwell/Unloading

**High
Resolution**

0.1HBW



+ Features

- Equips with OS Win10, and already installed BrinScan V3.0 Auto Brinell Measurement software.
- Apply vision measurement technology, one key operation, realize auto loading, dwell, unloading and indentation measurement.
- AutoBrin AB-3000V can display data statistics, hardness conversion, limitation setting, graph, measurement mode setting, etc.
- Loading by high accuracy force sensor , and can compensate force loss during loading by micro central processing unit.



+ Applications

- Testing Brinell hardness of ferrous, non-ferrous metal and bearing alloy materials.
- Wide application range, especially used in precision measurement of parallel plane.
- What' s more, measurement of curved surface is stable and reliable.



+ Specifications

Product Name	Full Auto Brinell Hardness Tester		
Model	AutoBrin AB-3000V		
Code#	831-160		
Test Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf		
	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Resolution	0.1HBW		
Measurement	Automatically		
Objective	1X and 2X		
Software	Win 10 OS, MS Office		
	Brinell Measurement Software BrinScan V3.0		
Max Height of Specimen	260mm		
Instrument Throat	150mm		
Power Supply	AC 220V/110V±5%, 50~60Hz		
Dimension	622x313x992mm		
Gross/Net Weight	200Kg/170Kg		
Execution Standard	GB/T231.2, JJG150, EN-ISO 6506 ASTM E10-12 JIS Z2243		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW≤ 125	≤ ± 3.5%	≤ 3.5%
	125 < HBW≤225	≤ ± 2.5%	≤ 3.0%
	HBW > 225	≤ ± 2.0%	≤ 2.5%

Auto Turret Digital Brinell Hardness Tester

AutoBrin-3000A

+ Features

- AutoBrinell-3000A is the latest generation digital Brinell hardness tester, it equips with motorized turret to install 10mm, 5mm, 2.5mm tungsten carbide ball indenter, 1X and 2X objectives simultaneously, avoid operation error during switch indenter and objectives.
- Apply large LCD to display testing parameters and results, indentation can be measured by 10X digital eyepiece, also available to realize hardness conversion among 17 hardness scales.
- Loading control by load cell with accuracy at 0.5%, microchip can make force compensation automatically lost during loading.
- Indentation measurement system integrated by 10X digital eyepiece, 1X and 2X objectives, eliminates manually brinell table checking, to realize directly indentation measurement and display hardness result on LCD.
- AutoBrinell-3000A equips with built-in mini printer, and can transfer data to computer by RS232, to do further analysis by PC software.
- Optional accessory for AutoBrinell-3000A has Brinell Optical Measuring System BrinScan.

+ Applications

- Testing Brinell hardness of ferrous, non-ferrous metal and bearing alloy materials.
- Wide application range, especially used in precision measurement of parallel plane.
- What's more, measurement of curved surface is stable and reliable.

+ Specifications

Product Name	Auto Turret Digital Brinell Hardness Tester		
Model	AutoBrin-3000A		
Code#	831-151		
Test Force	62.5Kgf, 100Kgf, 125Kgf, 187.5Kgf, 250Kgf, 500Kgf, 750Kgf, 1000Kgf, 1500Kgf, 3000Kgf		
	612.9N, 980N, 1226N, 1839N, 2452N, 4900N, 7355N, 9800N, 14700N, 29400N		
Measuring Range	(8~650) HBW		
Hardness Display	Display on LCD		
Magnification of Microscope	Magnification 10X/20X, eyepiece 10X and objective 1X, 2X		
Max Height of Specimen	260mm		
Instrument Throat	150mm		
Power Supply	AC 220V/110V±5%, 50~60Hz		
Dimension	535x260x890mm		
Gross/Net Weight	180Kg/150Kg		
Execution Standard	ISO 6506, ASTM E10-12, JIS Z2243, GB/T 231		
Accuracy of Brinell hardness testing	Hardness Range	Max Tolerance	Repetition
	HBW≤ 125	≤ ± 3.5%	≤ 3.5%
	125 < HBW≤225	≤ ± 2.5%	≤ 3.0%
	HBW > 225	≤ ± 2.0%	≤ 2.5%



Digital Twin Vickers/Brinell Hardness Tester

Vicky VB-62.5

+ Features

- Vicky VB-62.5 is equipped with Brinell and Vickers test methods, just replace indenter to do specific testing.
- Standard delivery comes with 5X and 10X objectives, all of them can do measurement, indenter and objective switches motorized.
- Available to preset dwell time, illumination brightness.
- Motorized turret, close loop loading system and touch screen/control panel input.
- Innovative design of color touch screen, shows force selection, dwell time, hardness conversion, etc.
- Hardness result can be converted to HK, HBW, HRA, HRC, HV and superficial rockwell scales.
- Equipped with blue tooth module, realize the wireless data transfer to computer and mini printer.
- In order to avoid operation error, optional measurement software MV-200S and MB is a good choice.

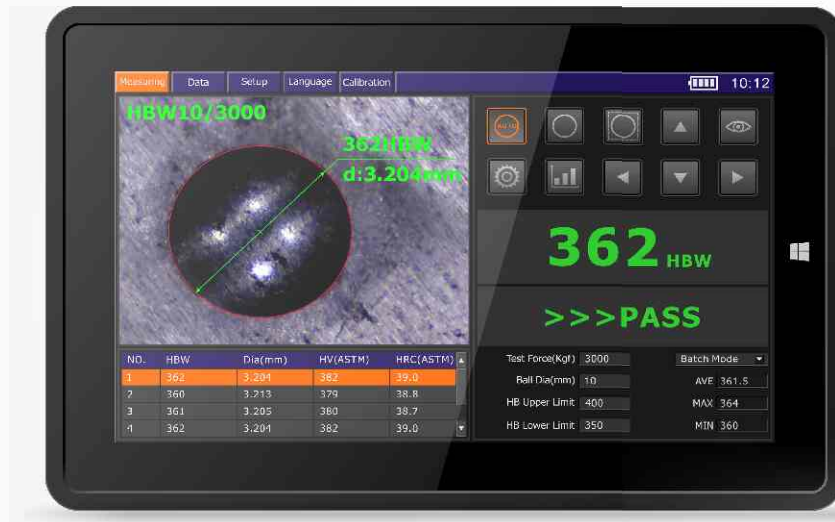


+ Specifications

Product Name		Digital Twin Vickers/Brinell Hardness Tester
Model		Vicky VB-62.5
Code#		821-300
Brinell Force	Kgf	5, 6.25, 10, 15.625, 30, 31.25, 62.5
	N	49.0, 61.3, 98.0, 153.2, 294.2, 306.5, 612.9
Brinell Force		HBW5/62.5, HBW2.5/62.5, HBW2.5/31.25, HBW2.5/15.625, HBW2.5/6.25, HBW1/30, HBW1/60, HBW1/5
Vickers Force	Kgf	1, 2, 2.5, 3, 5, 10, 20, 30, 50
	N	9.8, 19.6, 24.5, 29.4, 49.0, 98.0, 196, 294, 490
Brinell Hardness Range		(8-650) HBW
Vickers Hardness Range		8HV-2967HV
Loading Control		Automatic (Loading/Dwell/Unloading)
Turret Control		Motorized Switch
Data Output		Optional Blue Tooth Mini Printer
Magnification		Observation:5X/10X; Measurement:5X/10X
Eyepiece		Digital Eyepiece 10X
Dwell Time		1-60s
Hardness Conversion		HRC, HV, HBS, HBW, HK, HRA, HRD, HR15N, etc
LCD Screen		5.2" Color touch screen, Resolution:640*480
Language		Chinese, English, German, Portuguese, Turkish, Czech, Korean
Max Height of Specimen		170mm
Instrument Throat		130mm
Power Supply		AC220V/50Hz; AC110V/60Hz
Dimension/Packing dimension		535x190x585mm/610x450x770mm
Gross/Net Weight		47Kg/43Kg
Execution Standard		ISO 6507, ASTM E92, JIS Z2244, GB/T4340

Brinell Optical Measuring System

BrinScan



+ Introduction

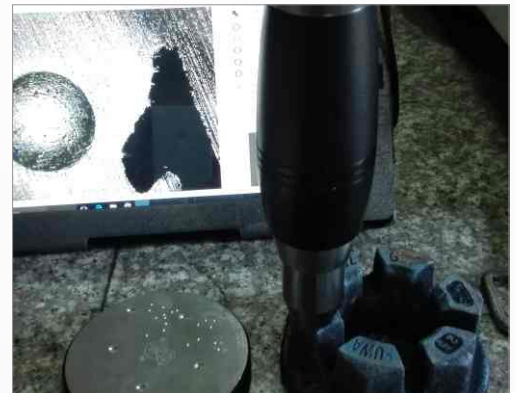
Brinell Hardness measurement System applies advanced machine vision technology with USB portable camera to take picture for Brinell indentation. It can accurately recognize the indentation image in complicated background, measure the hardness value precisely and display on software interface. It realizes fast and simple, and reliable test process and the measurement of indentation image will not be affected by operator, surface roughness and other factors.

+ Applications

BrinScan can be used in lab, and also can be used in connect with Windows tablet PC and laptop on site.

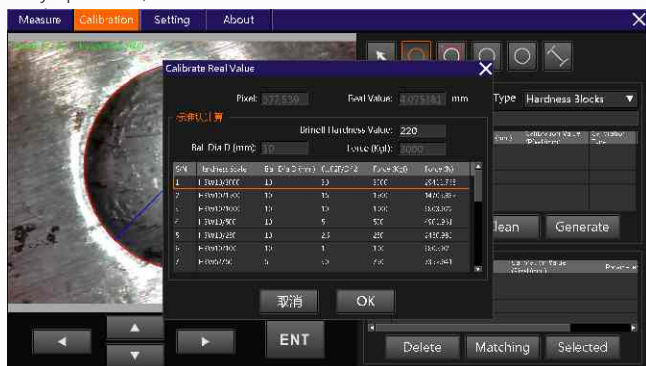
+ Features

- Stylish appearance, portable and high definition USB camera, optimized ergonomic design, comfortable hand feeling.
- Convenient operation, click auto-measuring button after finding the indentation, it will simultaneously display the indentation diameter and Brinell hardness value and do data record.
- Measurement accuracy of diameter can reach 0.001mm, totally conform ASTM E-10, GBT 231, ISO_6506 and other standards.
- Available to setup tolerance (upper limit & lower limit)
- Available to realize hardness conversion according to ASTM_E140, DIN 50150, GBT_1172, etc.
- Available to setup auto-save image and corresponding measuring result files, generating reports.
- Available to setup and auto-save date, hardness parameters, hardness value, and storage location of images.
- For image files and data files, opening, saving, printing, modification, invoking can be carried out.
- Real-time statistics measuring data, display Max, Min, Ave, deviation, CP, CK, etc.



One-key Measuring ▼

BrinScan has a simple and generous interface, operator can use without professional training. There is no need to do manual selection, just one key operation, the indentation diameter and hardness value will come

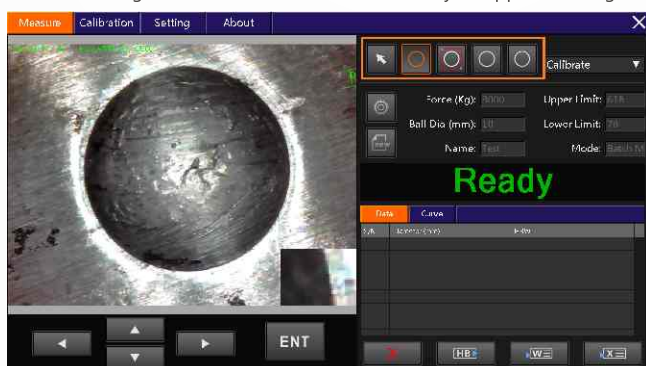


Auto-Identification ▼

BrinScan can identify indentation edge automatically, and measuring indentation circle automatically (above 200 points for one circle). It calculates diameter and gets Brinell hardness automatically. For large indentation, the whole indentation need't show up, more than 1/2 indentation appear on the interface can be measured.

HD Image ▼

Microscope applies LED cold light source, high definition optical system and CMOS digital camera. Indentation can clearly re-appear in image.



Strong Compatibility ▼

BrinScan can be used in connect with any kind of Brinell Hardness Tester, compatible with WIN7, WIN8, WIN10

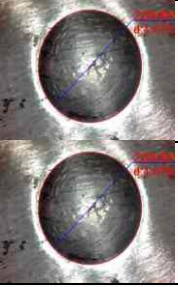
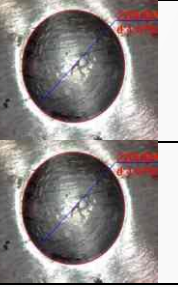
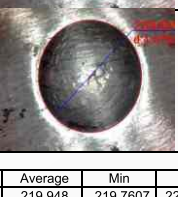
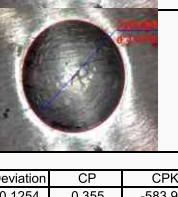
Magnetic Probe ▼

The contact surface of measuring microscope applies ring magnet, making it adsorbs vertically on the magnetic specimen without help of hands.



Report Output ▼

BrinScan displays indentation diameter, measuring value, Max, Min, conversion value (HRA, HRB, HRC, HV, HS, tensile strength, etc.). Auto saving indentation image, and department and operator can be user defined. Word, Excel can be generated automatically without manual record.

Brinell Hardness Report									
Department: DepartmentA				Date: 2016-06-23		Operator: OperatorA			
Specimen: Test				Quantity: 4		Sampling Rate: 100%			
Parameters: Force (Kgf)		Ball Dia (mm)	Lower Limit	Upper Limit	Dwell Time	K=0.102F/D2		Standard	
3000		10	76	618	0.5s			DIN18265	
S/N	Diameter (mm)	HBW	--	--	--	--	MPa	NG/Pass	
1	4.08	220						Pass	
2	4.08	220						Pass	
3	4.08	220						Pass	
4	4.08	220						Pass	
1				2					
3				4					
Total	Average	Min	Max	Error Range	Deviation	CP	CPK		
4	219.948	219.7607	220.0276	0.2669	0.1254	0.355	-583.984		

+ Comparison of Brinell Hardness Testers

Model	SHB-3000B	SHB-3000E	AutoBrin-3000A	Vexus SHB-3000D	SHB-3000C	Vexus SHB-3000T	AutoBrin AB-3000V	Vicky VB-62.5
Code#	831-101	831-111	831-151	831-120	831-131	831-140	831-160	821-300
Hardness Range	(8-650)HBW							
Loading Force(Kgf)	62.5, 100, 125, 187.5, 250, 500, 750, 1000, 1500, 3000							5, 6.25, 10, 15, 62.5, 30, 31.25, 62.5
Loading Style	Weights	Closed loop sensor loading						
Max Height	230mm	225mm					260mm	150mm
Max Throat	120mm	135mm					150mm	125mm
Display Style	Manual-Check-Hardness-Table		LCD display	Large LCD display	Large LCD display	Large LCD display	Touch Screen	Large LCD display
Indentation Measuring	Manual		Digital	Digital	Digital	Digital	Digital	Digital
Brinell Microscope	Analogue		Digital	Digital	Digital	Analogue	Digital	Digital
Mini-Printer				Bluetooth Print	With	Bluetooth Print	Bluetooth Print	With
Hardness Conversion	Auto switch to HR, HV, HK							
Computer Connection	RS232							

High Accuracy Brinell Optic Measurement System

QB-500

High Efficiency

One Touch
Measuring

High Accuracy

$\pm 1\text{HB}$

Large Travel

100x50mm

+ Introduction

QB-500 high accuracy Brinell optic measurement system mainly used to test accuracy of hardness block for manufacturer and verification lab, also available for specimens Brinell indentation measurement.

+ Features

- Apply telecentric zoom lens, can measurement Brinell indentation accurately on mirror surface and rough surface.
- High accuracy microscope stage with travel 100 x 50mm, supportt specimen weight at max 15Kg.
- Non-touch optical measurement, with laser navigation, easily to find indentation.
- By BrinScan V2.0 software, realize auto measurement.

+ Specifications

Product Name	High Accuracy Brinell Optic Measurement System
Model	QB-500
Code#	838-390
Hardness Resolution	0.01HB
Repeatability	$\pm 1\text{HB}$
Specimen Weight	15KG
Stage Travel	100X50mm
Z Axis Travel	50mm
Z Axis Guiding	Dovetail groove and manual driven
Illumination	Adjustable LED cold light source, coaxial light source
Software	Brinscan V2.0
Operation OS	Win8, Win10, 32/64bit; Office
Working Environment	Temperature $20^{\circ}\text{C} \pm 1^{\circ}\text{C}$, Humidity 30~80%
Voltage	220V/50HZ
Dimension	440x410x700mm
Weight	20Kg



Portable Brinell Durometer

MHB-3000

+ Features

• On-site Testing

It is a portable instrument suitable to use in the plant. It is easy to operate and convenient to carry. So it can be used to easily test large work-pieces in any direction on site.

• Permanent Indentation

With 3000kg test force and 10mm ball indenter, the indentation can accurately reflect the true hardness of cast iron, cast steel, forged piece, and other materials with coarse grain. The permanent indentation can be reinspected at any time after testing.

• Real Result

MHB-3000 has the same principle as the bench type Brinell hardness tester. So the result is totally different from the lossy conversion value of other portable hardness testers (eg. Rebound type hardness tester).

• Wide Testing Range

MHB-3000 has various test forces and two different ball indenters in order to test.

+ Applications

MHB-3000 is a portable Brinell hardness tester. It has a hydraulic system and the test force is applied by means of a handle. MHB-3000 condition is applying 3000kg test force on a 10mm carbide indenter. It can result in permanent indentations for reinspection. The test condition meets the requirements of ISO 6506 and ASTM E110.

+ Specifications

Product Name	Portable Brinell Durometer
Model	MHB-3000
Code#	832-113
Test Force	3000kg (500kg, 750kg, 1000kg, 1500kg available)
Indenter	Φ10mm carbide ball indenter (Φ 5mm available)
Measuring Range	6~650HBW
Max Height of Specimen	320mm
Instrument Throat	100mm
Accuracy	Complied with ISO 6506
Repeatability	Complied with ISO 6506
Weight	13.8kg
Execution Standard	GB/T231.2, JJG150, EN-ISO6506



20X Measuring Microscope (With LED light)
(#832-213)



ISO9001:2008 Certified Manufacturer
National Authorized Hi-Tech Manufacturer

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