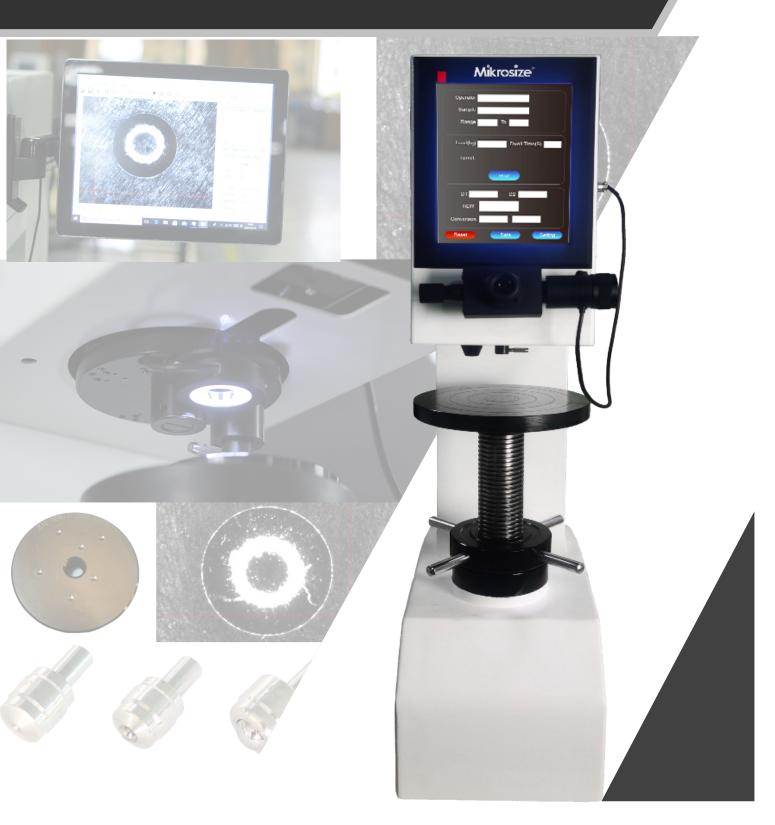
MIDLAND METROLOGY LIMITED **UBRINELL-3000M** Manual Digital Brinell Hardness Tester



Product Feature & Application

Product Features

uBrinell-3000M -M/uBrinell-3000M-A

Closed loop control system. High accuracy load cell. No need to install weights. Easy installation and calibration.

Automatically compensates for each test.

Auto loading and unloading. Large test force range: 62.5-3000Kgf.

Eyepice with digital encoder. D1 and D2 values displayed on LCD directly. Measuring indentation is automatic so no need to focus.

Hardness value displays on screen with hardness conversion function.

Touch screen interface, menu structure interface so more information is displayed.

Can save more samples and test information.

Offers support to set passwords for more protection.

Auto calibration according to the standard block or length scale. Automatic loading corrected ensuring much more accuracy.

Automatic test force calibration by standard dynamometer. Large test space 155 x 200mm (Depth x Height).

Vickers and rockwell hardness values can be converted with 12 kinds of measuring scale.

USB interface so all data can be saved as EXCEL format. Easy to edit and process.

Modular design with easy maintenance.

uBrinell-3000M-V

Based on uBrin-3000M-M/A. This machine has a dual optical path system and built in camera.

Eyepice and camera can be connected.

Indentation measurement can automatically be done by eyepiece or computer.

Industrial touch screen computer monitor.

Computerised control system for loading single sample tests, bath samples and hardness scale conversion. An alarm wll sound for an unknown test result.

Image process sytem, hardness measurement software system and industrial touch screen computer system in one. More concise instrument for easier operation.

Equipped with double touch screen and stable working performance. The front touch screen panel can test and measure independantly.



uBrin-3000M-M Manual Turret



uBrin-3000M-A Auto Turret



The side touch panel can automatically measure using software.

The machine will still run normally even if the screen has damage.

The side panel touch screen controls the machine turret. The test report can display the indentation image, hardness curve and value, conversion value, test force, dwell time, maximum and minimum data and average data.

uBrin-3000M-V Auto Turret

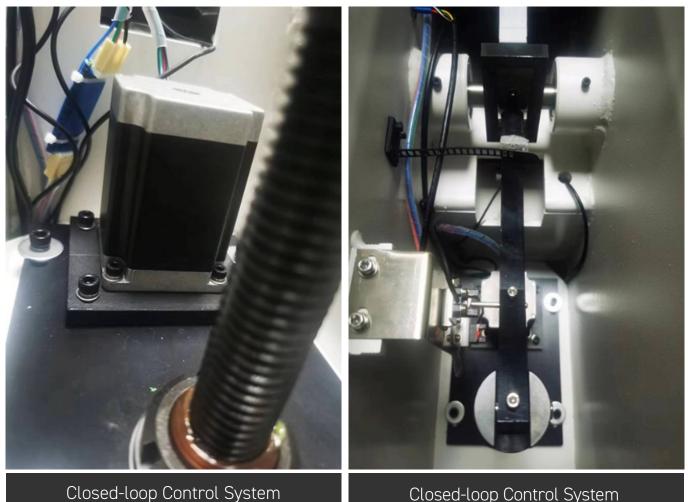
Product Application

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.

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User Friendly

High precision load cell with closed-loop control system, each test force automatically compensated.



Closed-loop Control System

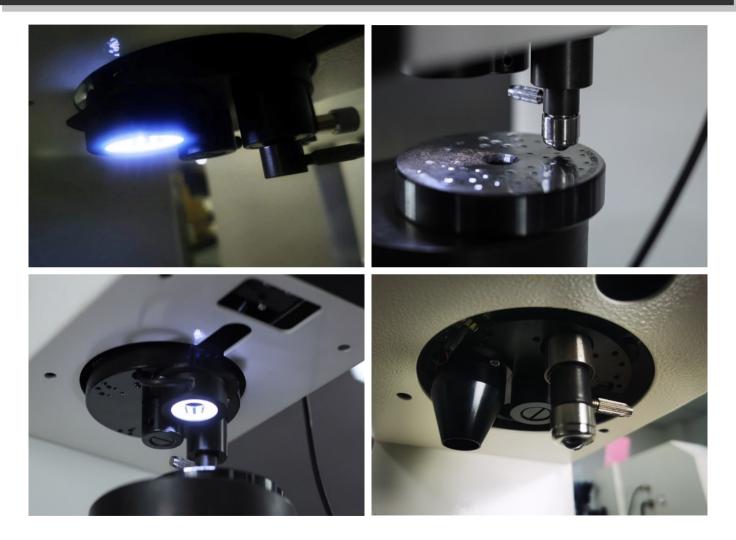
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Digital Eyepiece with Encoder

Eyepiece with digital encoder, just click the encoder button, indentation length will be input to machine automatically measuring D1 and D2 values, LCD directly displays D1 and D2 values and hardness value.



Turret System



Real Photo at Factory



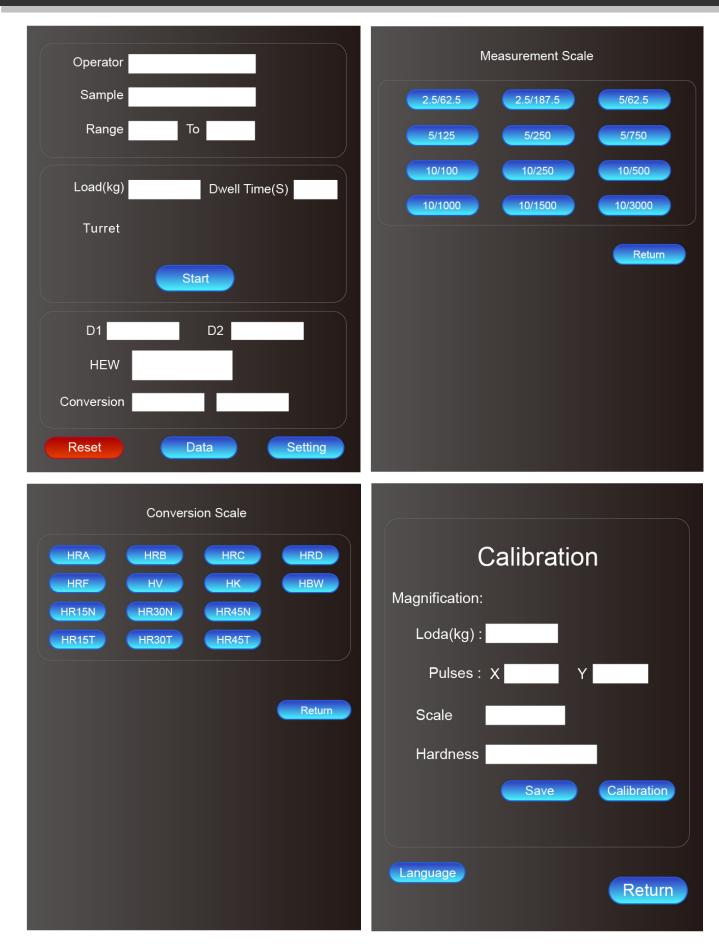


Data Output

With USB interface, test data can be saved to U-flash as EXCEL format, easy edit and pro-cess.



Operation Interface



Ordering Information

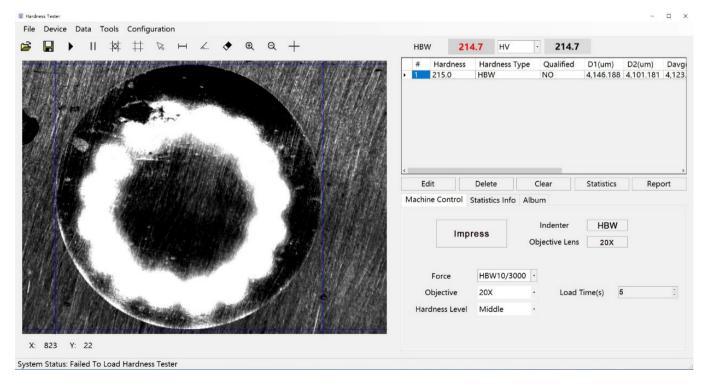


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uBrinell-3000M-V Brinell Software

• Wide range of application: laboratory, or industrial workshop; Accurate test results can be obtained under the condition of standard surface roughness, suitable for various loads of Brinell hardness tester.

- 5 million pixel industrial grade digital camera, clear image;
- Direct communication with hardness tester, software control hardness tester turret, load-ing and other whole test process;
- The brightness, contrast and lighting system can be adjusted, and the parameter values can be saved and imported for different sample surfaces.
- Precise image analysis: integrated shape, brightness and edge calculation to improve the accuracy of measurement results.
- Indentation automatic measurement, real-time calculation of accurate hardness value and indentation diameter, good repeatability, high accuracy, wide applicability, while sup
- Powerful software functions: single piece measurement, batch measurement, hardness conversion table, data and image storage, database query, unqualified value alarm.
- According to GB/ASTM standards, automatic Brinell Rockwell Vickers and other hardness conversion;
- It can be calibrated according to standard hardness blocks or length scales.
- Automatically record measurement data and output WORD report according to user customization; Automatic recording of measurement data, all data saved in EXCEL format.



uBrinell-3000M-V Brinell Software S

Technical Specification:

Model	uBrinell-3000M-V	
Brinell Scale	HBW2.5/62.5 HBW2.5/187.5 HBW5/62.5 HBW5/125 HBW5/	
	250 HBW5/750 HBW10/100 HBW10/250 HBW10/	
	500 HBW10/1000 HBW10/1500 HBW10/3000	
Meet Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231	
Measuring Range	15.9-650HBW (effective hardness value recommended by ASTM E10)	
Measurement Resolution	0.0001 mm	
Resolution of Hardness Value	e 0.1 HBW	
Digital Imaging	5 million industrial grade digital cameras	
Measuring Method	Manual and automatic measurement (for standard samples)	
Calibration Method	Standard Hardness block/length scale	
Support Language	Chinese/English (More Languages Customized)	

Standard Accessories:

ltem	Instructions	Quantity
Camera	5 million pixels	1 set
Interface	Connect the durometer to the camera	1 set
U disk	Includes software and instruction manual	1 set

Technical Specification

Model _	uBrinell-3000M-M	uBrin-3000M-A	uBrinell-3000M-V		
Turret _	Manual Auto Auto				
	HBW2.5/62.5, HBW2.5/187.5, HBW5/62.5, HBW5/125,				
Brinell Scale	HBW5/250、 HBW5/750, HBW10/100, HBW10/250,				
-	HBW10/500, HBW10/1000, HBW10/1500, HBW10/3000				
	62.5kgf(612.9N), 100kgf(980.7N), 125kgf(1226N),				
Test Force	187.5kgf(1839N), 250kgf(2452N), 500kgf(4903N), 750kgf(7355N),				
_	1000kgf(9807N), 1500kgf(14710N), 3000kgf(29420N)				
Test Force Accuracy	0.1%				
Test Force Precision	62.5~250kgf<1% 500~3000kgf<0.5%				
Test Range	8-650HBW				
Camera(uBrin-3000M-V)	Industrial 5 Millions Pixels				
Eyepiece	20X (Optional: 10X, 15X, 30X)				
Indention Measuring	Manual	Manual	Manual/Auto		
Data Output	LCD/USB	LCD/USB	LCD/USB/Computer		
Calibration Method	Standard Block/Length Scale				
Computer(uBrin-3000M-V)	nputer(uBrin-3000M-V) Industrial 15 "- resistance screen				
	Core i5 quad core/4G/64G/wifi win10				
– Measuring Device Resolution	on 0.1um	0.1um	0.1um		
– Hardness Resolution	0.1HBW	0.1HBW	0.1HBW		
– Dwell Time	0~99S				
– Data Storage	Results Saved in U disk as Excel Format				
 Test Height	200mm(Customized Optional)				
 Test Throat	155mm				
– Executive Standard	BSEN 6506, ISO 6506, ASTM E10, GB/T231, JIS Z2243				
– Machine Dimension	550×210×800mm				
– Weight	110kg				
Power Supply	AC220+5%,50~60Hz				

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Packing List

ltem	Quantity
20X Measuring Eyepiece	1рс
Diameter 2.5mm Hard Alloy Ball Indenter	1рс
Diameter 5mm Hard Alloy Ball Indenter	1 pc
Diameter 10mm Hard Alloy Ball Indenter	1 pc
U-flash Disk/Touch Pen	1 pc
Power Cord	1 pc
Φ200mm Test Anvil	1 pc
Φ 60mm Test Anvil	1 pc
Ф80mm V-shape Test Anvil	1 pc

ltem	Quantity
Standard Hardness Block HBW10/3000	Each 1
Standard Hardness Block HBW10/1000	1pc
Standard Hardness Block HBW2.5/187.5	1pc
Anti-dust Cover	1pc
Spare Fuse (2A)	2pcs
Instruction Manual	1 сору
Product Certificate	1 сору
Warranty Card	1 сору
Accessories Case	1pc



HBW10/1000 Brinell Block



HBW2.5/187.5 Brinell Block



HBW10/3000 Brinell Block



Φ200mm Test Anvil



Φ2.5mm/5mm/10mmBrinell Ball Indentors