

HBS-3000AT

Touch Screen Digital Brinell Hardness Tester



Product introduction

Brinell hardness tester is mainly used to measure casting or forgings with crystalline structure, which can not be measured by Rockwell and Vickers. Therefore, the Brinell test is mainly used for large materials. By using different test forces and replacing different indenters, the Brinell test can be basically applied to all metal materials.

Brinell test is widely used in product acceptance and other industrial aspects. However, if a Brinell test is performed only on a part of a large material, the measured value does not represent the overall properties of the whole material or the final product.

Brinell hardness tester. It is suitable for measuring Brinell hardness of ferrous and non-ferrous metals. The machine adopts electronic automatic loading, computer software programming, high-power optical measurement, photoelectric sensor and other systems. It is fed back by high-precision pressure sensor, controlled by CPU, and can automatically compensate the test force lost in the test. The hardness value can be calculated automatically and displayed on the LCD screen. The reading is accurate and the operation is convenient.

- Force Sensor, Force Feedback, Closed Loop System

- Force range: 62.5 kgf-3000 KGF
- Data of operation process and test results can be displayed on screen.
- The experimental data can be output by printer.
- High-precision micrometer eyepiece, more accurate measurement, high efficiency
- Video-screen measuring device and CCD image automatic measuring system can be configured according to the special needs of users.
- It is mainly used to determine the hardness of cast iron, steel, non-ferrous metals and soft alloys. It can also be used to determine the hardness of hard plastics, bakelite and other non-metallic materials.

Technical parameter

Model	MHBS-3000AT
Brinell scale	HBW2.5/62.5、HBW2.5/187.5、HBW5/125、HBW5/250 HBW5/750、HBW10/100、HBW10/1500、HBW10/3000、HBW10/250 HBW10/500、HBW10/1000
Test force	62.5kgf (612.9N), 100kgf (980.7N), 125kgf (1226N), 187.5kgf (1839N)、250kgf (2452N)、500kgf (4903N)、750kgf (7355N)、1000kgf (8907N)、1500kgf (14710N)、3000kgf (29420N)
Scale conversion	HRA, HRB, HRC, HRD, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Conversion between lens and indenter	automatic
Minimum unit of measurement	0.1 μm
Test force duration time	0-60s(It can also be determined according to need.)
Hardness test range	8-650HBW
Total magnification	20X
Executive standard	JJG150-2005, GB/T231, ASTM D-785
Indication of Hardness Value	5 inch touch screen LCD display
Communication interface	RS232/ Parallel interface
Date output	Built-in printer, printable output - maximum, minimum, average, variance
Power Supply	AC220±5%, 50-60Hz
Distance from the center of the indenter to the body	135mm
Maximum height of specimen	230mm
Shape size	610*260*840mm
machine net weight	About 148kg

Standard configuration

Name	Quantity	Name	Quantity
20X micrometer eyepiece	1	Φ2.5、5、10mm sintered carbide ball indenter	Each one
Standard hardness block	3	Large, medium and V-shaped test-bed	Each one
Fuse 2A	3	Printer paper	1
Power cord	1	Product Qualification Certificate	1

Manual	1		
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Optional accessories

Brinell measurement system	HB-CCD
Computer, Printer	
Brinell hardness block	
sintered carbide ball indenter	Φ2.5、5、10mm
Printer paper	