

# iBrin-3000CL-V Brinell Hardness Tester



## Contact us

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## Features and Applications

The iBrin-3000CL-V Brinell hardness tester is precise and efficient, with a wide measurement range of 8-650HBW, suitable for various metal materials. Equipped with high-precision sensors and stepper motors, it automatically loads and unloads, making the operation convenient. It is equipped with professional measurement software, which can automatically calculate hardness values, convert units, and save data. The body design is reasonable and the stability is strong, suitable for metallurgy, chemical industry, mechanical manufacturing, and research and teaching fields. With a complete after-sales service and global distribution network, it provides you with reliable guarantees and is an excellent choice for metal hardness testing.

### Product Features

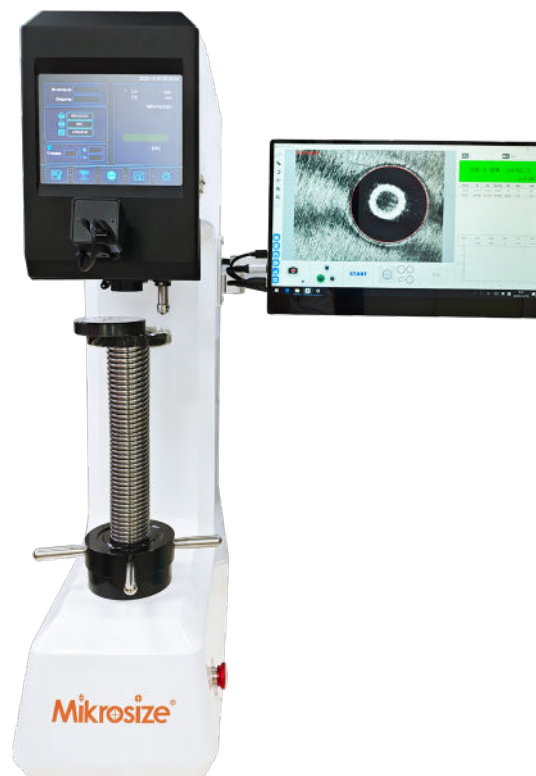
- The measurement range is wide and precise. It covers various metal materials from 8 to 650HBW. Combined with high-precision sensors, the data error is small, meeting the needs of multiple hardness tests.
- The automation level is high. The stepper motor is used for automatic loading and unloading. Combined with professional measurement software, it can automatically calculate and convert the hardness values, making the operation efficient and convenient.
- The configuration is rich and practical, including various specifications of carbide tips, worktable and standard blocks. It supports the selection of accessories and is suitable for different testing scenarios and workpiece types.
- High adaptability, compatible with AC110V/220V voltages.
- The body design is reasonable, with a maximum specimen height of 280mm. Suitable for multiple fields such as metallurgy and chemical industry.
- The software is fully functional, supporting data saving, report printing, image calibration, multi-language switching, traceable test data, and enhancing the efficiency of testing management.
- The quality is reliable and the after-sales service is guaranteed. The factory parameters have been optimized.
- There is a global distribution network covering all regions. Professional maintenance support is provided. It is stable and convenient for long-term use.



## Features and Applications

### Product Application

- Suitable for the metal metallurgy field, it can precisely measure the hardness of various steels and alloy materials, providing reliable data support for material quality control.
- Serving the chemical industry, it conducts hardness tests on metal components used in chemical equipment to ensure the stability of the metal structure during equipment operation.
- Help with mechanical manufacturing, test the hardness of castings, forgings and other workpieces, ensure that the products meet production standards, and improve the qualification rate of finished products;
- Supporting scientific research and teaching, providing precise hardness testing for metal material research in universities and research institutions, and meeting various experimental requirements;
- Suitable for the processing industry of non-ferrous metals, it can conduct hardness tests on non-ferrous metal materials such as copper and aluminum, meeting the quality inspection requirements of the industry.
- Serving the heat treatment industry, we test the hardness of workpieces after normalizing and annealing processes, verify the effectiveness of the heat treatment procedures, and optimize the production process.



## Product Structure



**1.Screen**

**2.Camera**

**3.Press Head**

**4.Objective Lens**

**5.Workbench**

**6.Revolving Wheel**

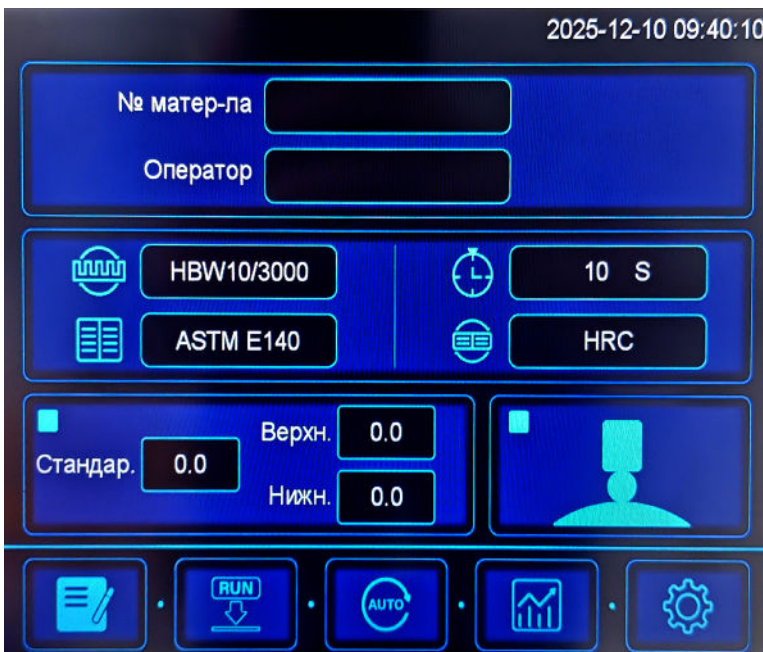
**7.Control The Computer**

**8.Scram Button**

## Product Details



- The automatic turret has 2 positions, allowing the installation of the pressure head and the objective lens simultaneously. After the test is completed, the turret will automatically switch to the lens to facilitate the user's observation of the indentation.



- Three different sized anvils are combined with various test forces, and there are 15 different test scales to choose from.
- HBW2.5/31.25、HBW2.5/62.5、HBW2.5/187.5、
- HBW5/31.25、HBW5/62.5、HBW5/125、HBW5/250、HBW5/750、
- HBW10/100、HBW10/125、HBW10/250、HBW10/500、HBW10/1000、HBW10/1500、
- HBW10/3000
- It can also be converted to the commonly used Rockwell and Vickers hardness scales.
- HRA、HRB、HRC、HRD、HS、HV、HK、HBW、HR15N、HR30N、HR45N

## Operation Interface

### Operation Interface



- The software has a wide range of functions:
- Automatic detection and calculation: After loading and unloading are completed, the software automatically captures the indentation image, precisely identifies the indentation size through visual algorithms, and simultaneously calculates the hardness value.
- Data management and output: Supports automatic storage of detection data in the database. Data can be retrieved by time, workpiece type, etc. Reports containing indentation images, hardness values, and test parameters can be generated. Direct printing or document export is supported for easy quality traceability.
- Parameter adaptation and calibration: Built-in multi-country standard hardness conversion standards (such as ASTM E140);
- Operation Assistance: The interface displays the current head specification, test force and other parameters. Before conducting the test, it is necessary to confirm that the parameters match.
- The software has a rich set of settings: you can set the scale, convert the scale, retention time, accuracy and hardness value range, and it supports multiple languages.

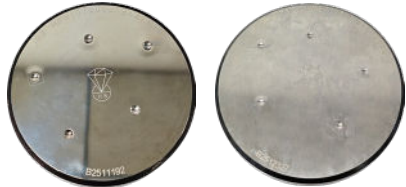
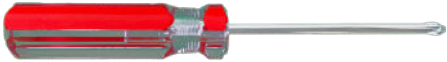


## Technical Specification

<b>Test Force Level</b>	0.613、 0.9807、 1.226、 1.839、 2.452、 4.903、 7.355、 9.807、 14.71、 29.42kN (62.5、 100、 125、 187.5、 250、 500、 750、 1000、 1500、 3000kg)
<b>Diameter Of Hard Alloy Balls</b>	Φ2.5mm、 Φ5mm、 Φ10mm
<b>Retention Time</b>	5-99s
<b>Maximum Height Of The Sample</b>	280mm
<b>The Distance From The Center Of The Press Head To The Instrument Wall</b>	175mm
<b>Power Supply</b>	AC110V/220V, 60/50Hz
<b>Instrument Size</b>	581*269*912mm
<b>Net Weight Approximately</b>	135kg

## Standard Delivery

Name	Qty	Photo
Brinell Hardness Tester	1 pc	
Large Workbench	1 pc	
Small Workbench	1 pc	
V-Shaped Workbench	1 pc	
Ø2.5mm Indenter Ø5mm Indenter Ø10mm Indenter	1 each	
Attachment Box	1 pc	

## Standard Delivery

Name	Qty	Photo
Hardness Block	2 pcs	
Screwdriver	1 pc	
Power Cord	1 pc	
Camera	1 pc	
Keyboard And Mouse	1 pc	
Calibration Certificate	1 pc	
Operation Manual	1 pc	