



# MHB-3000C

## Chain Hydraulic Brinell Hardness Tester



Video



### Contact us

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## Features and Applications

### Product Features

- The loading method is stable and reliable, with a hydraulic loading system that can provide uniform and stable test force.
- Adopting a chain transmission mechanism, which has the advantages of large force transmission and stable operation, and can maintain precise displacement control under high loads.
- On-site testing without sampling. It can test large, assembled, inconveniently moved and non-cuttable workpieces of various materials, sizes and shapes, and can test in any direction, including upper, lower, side, and even inverted testing can get accurate results.
- The instrument uses 1000kg force and 10mm ball.
- The permanent indentation left after testing can be re-inspected at any time, and the existence of the indentation indicates that the workpiece has been tested for hardness.
- The calibration accuracy of the test force reaches  $\pm 1\%$  of the rated load, and the hardness test accuracy is the same as that of the desktop machine.
- Multiple test forces and multiple ball indenters can be used. It has a wide test range, reaching 16~650HBW.
- The test conditions and accuracy comply with the standards: GB/T231.1, ISO6506, ASTM E10.



### Product Applications

- Heavy machinery and engineering machinery manufacturing.
- Automobile and rail transit industry.
- Metallurgy and raw material processing.
- Mould and heavy tool manufacturing.

## Product Details

### Detail Display



- The pressure gauge is used to indicate the test force, featuring a mechanical structure that is simple and robust.
- It is only for indicating the test force and cannot control it.
- Avoid subjecting the pressure gauge to impact and do not disassemble it.



- The lead screw lifting system provides support for the instrument and the 1000kg test force.
- The lead screw enables the probe to lift and lower smoothly, allowing the probe to press tightly against the workpiece under test.

# Instrument Appearance



**1. Lifting Handwheel  
5. Pressure Gauge**

**2. Chain Bracket  
6. Locking Screw**

**3. Lead Screw  
7. Locking Nut**

**4. Lifting Nut  
8. Chain**



**1. Hook**

**2. Adjusting Screw**

**3. Rear Support Block**

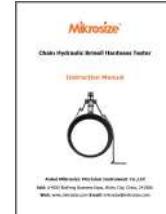
# Technical Specification

<b>Name</b>	Chain Hydraulic Brinell Hardness Tester
<b>Model</b>	MHB-3000C
<b>Test Force</b>	1000kg (3000kg, 750kg, 500kg optional)
<b>Hardness Scales</b>	10/1000HBW、10/500HBW(10/3000HBW、5/750HBW are optional; the indenter of the corresponding size must be selected)
<b>Indenter</b>	10mm cemented carbide ball (5mm ball optional)
<b>Measuring Method</b>	20X illuminated reading microscope
<b>Loading Method</b>	Hydraulic drive
<b>Measuring Range</b>	16~650HBW
<b>Test Workpiece Diameter</b>	≥300mm
<b>Indication Error</b>	≤±3%, in line with GB/T231.2
<b>Indication Repeatability</b>	The deviation of multiple measurements of the same workpiece is ≤±2%, in line with GB/T231.2
<b>Weight</b>	15kg

# Standard Delivery

Name	Qty	Photo
<b>Main Machine</b>	1 set	
<b>Force Application Rod</b>	1 piece	
<b>High-Value Standard Brinell Hardness Block</b>	1 piece	
<b>Low-Value Standard Brinell Hardness Block</b>	1 piece	
<b>20x Illuminated Reading Microscope</b>	1 piece	
<b>Spare Cemented Carbide Ball</b>	2 pieces	

# Standard Delivery

Name	Qty	Photo
<b>Small Hexagon Socket Wrench</b>	1 piece	
<b>1.5m Chain</b>	2 piece	
<b>Ratchet Wrench</b>	1 piece	
<b>Instruction Manual</b>	1 copy	
<b>Certificate Of Conformity</b>	1 copy	
<b>Warranty Card</b>	1 copy	
<b>Calibration Certificate</b>	1 copy	

## Optional Delivery

### Optional

Standard Brinell hardness block (high value)

Standard Brinell hardness block (low value)

10mm cemented carbide ball

5mm cemented carbide ball

Indenter sleeve

Rechargeable angle grinder

Brinell hardness automatic indentation reader

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