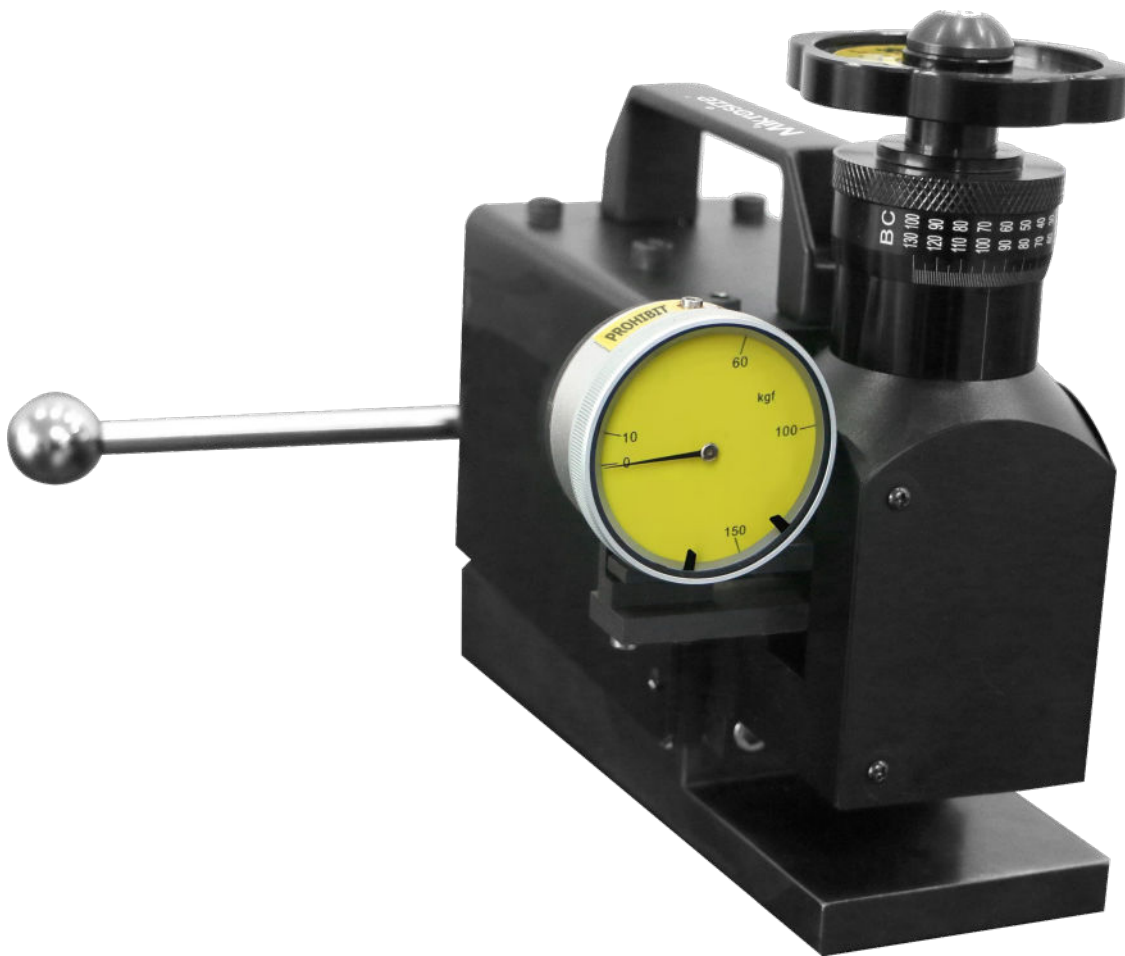


imagR-150/imagB-187.5/ imagBR-187.5 Magnetic Hardness Tester



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Features and Applications

Product Features

- The dial has a large testing distance, reducing manual operation errors. The hardness reading wheel has clear values for easy reading.
- One-way magnetizing switch, no need for two-hand operation, convenient and fast.
- The contact surface between the indenter and the workpiece can be observed from multiple angles; it can measure thin and light workpieces of any length (within the allowable thickness for hardness values).
- Two replaceable indenters: equipped with a diamond cone indenter and a 1.588mm indenter, which can measure different hardnesses; supports custom-made bracket tooling according to the workpiece.



Product Applications

- On-site inspection of large workpieces
- For large components that cannot be moved or are inconvenient to transport, such as machine tool guide rails, rolls, pressure vessels, bridge steel structures, etc., there is no need to send the workpieces to the laboratory, and measurements can be taken directly at the installation or use site.
- Maintenance inspection of installed/in-service equipment.
- Perform non-destructive testing on operating equipment components (such as transmission shafts, bearing blocks, mold cavities) to determine whether the material has hardness changes (such as softening, hardening) due to long-term use, and evaluate the degree of wear or fatigue.
- Testing of curved or irregular surfaces.
For non-planar workpieces such as cylindrical (e.g., shaft parts), arc-shaped (e.g., outer walls of pipes), the magnetic design can closely fit the curved surface, reducing errors caused by poor contact.



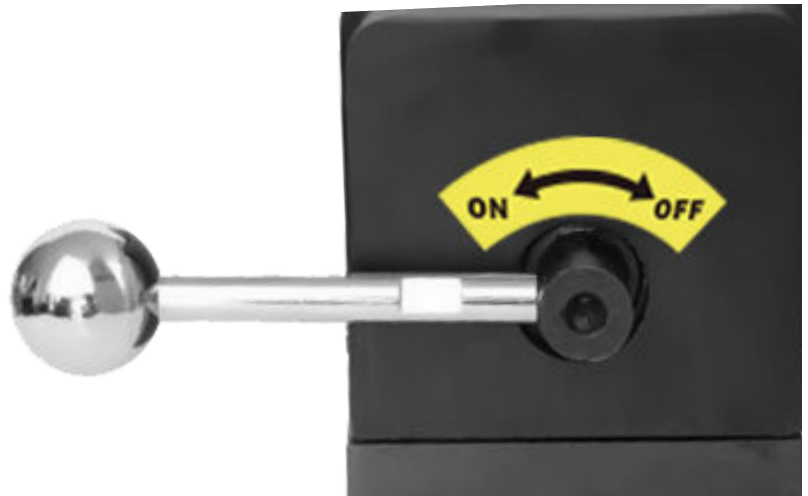
Product Details

Detail Display



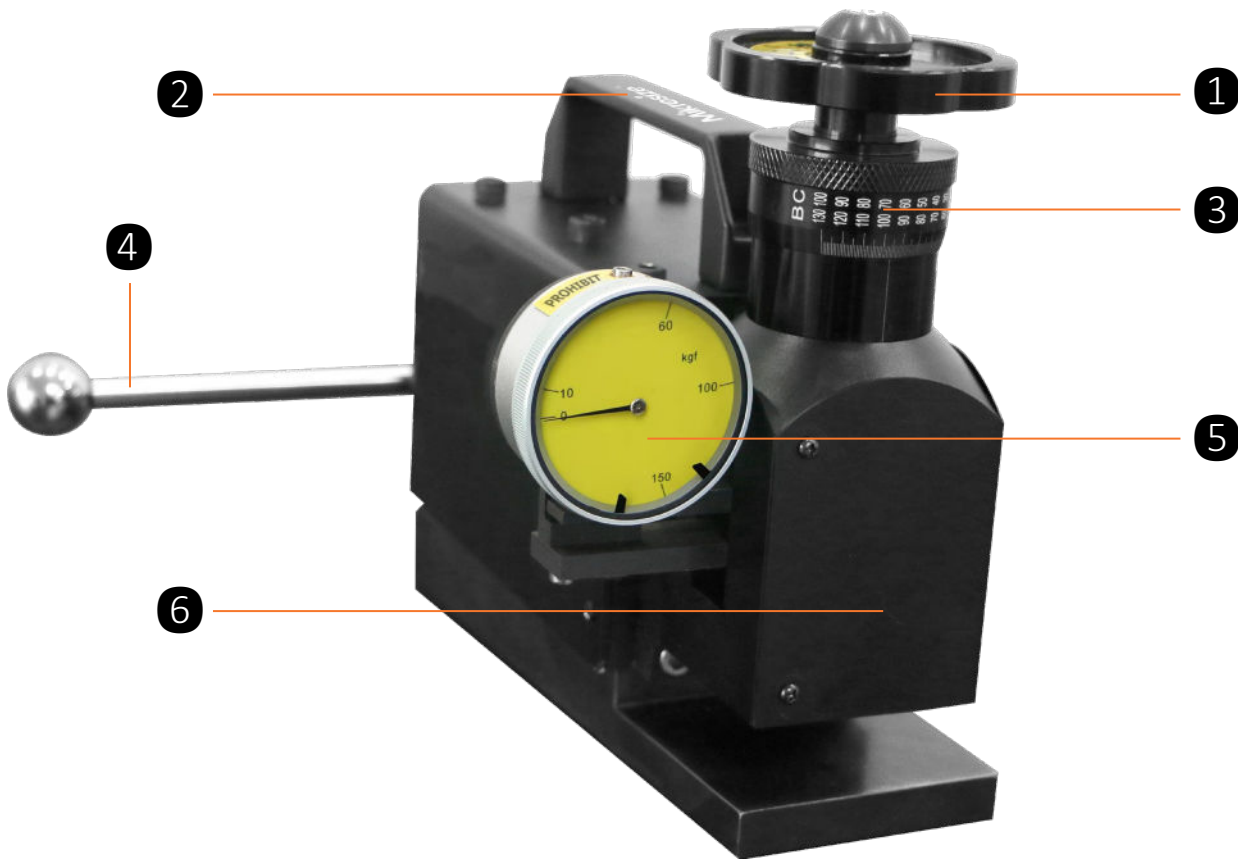
- The force value indicator dial adopts a mechanical structure, requiring no power supply. It can cope with harsh on-site environments, featuring a robust structure and simple maintenance.

- The hardness tester is equipped with a strong magnet. It should be kept in the "off" position when not in use. The switch can only be turned on when the instrument is placed on a stable sample; otherwise, it may cause damage to the equipment and personal injury.



- It is provided with two reading scales, corresponding to different test scales. The C scale is for the diamond indenter HRA and HRC scales, and the B scale is for the ball indenter HRB scale.

Instrument Appearance



1. Handwheel

2. Lifting Handle

3. Drum Wheel

4. Magnetic Switch

5. Force Gauge

6. Measuring Head



1. Indenter

Technical Specification

Name	Magnetic Hardness Tester		
Model	iMagR-150	iMagB-187.5	iMagBR-187.5
Maximum Magnetic Attraction Force	> 350kgf		
Force Application Method	Screw force application		
Rockwell Preliminary Test Force	10kgf	/	10kgf
Rockwell Total Test Force	60、 100、 150kgf (588.4、 980.7、 1471N)	/	60、 100、 150kgf (588.4、 980.7、 1471N)
Brinell Test Force	/	62.5、 187.5kg-f(612.9、 1839N)	62.5、 187.5kg-f(612.9、 1839N)
Test Scales	HRA、 HRC、 HRD、 HRB、 HRF、 HRG	HBW2.5/187.5, HBW2.5/62.5	HRA、 HRCHRD、 HRB、 HRF、 HRG HBW2.5/187.5, HBW2.5/62.5
Rockwell Measurement Range	20-95HRA, 10-100HRBW, 20-70HRC		

Technical Specification

Brinell Measurement Range	100-650 HB W
Indication Error	±1%, Conforms to GB/T230, GB/T231
Repeatability Error	Conforms to GB/T230, GB/T231
Rockwell Hardness Resolution	1HR
Brinell Test Force Error	≤±1%, conforms to GB/T231.2
Brinell Cemented Carbide Indenter	Φ2.5mm
Rockwell Indenter	120° diamond indenter, 1.588mm cemented carbide ball
Overall Dimensions	249x131x 171(mm)
Net Weight	13KG

Standard Delivery

Name	Qty	Photo
Main Unit	1 set	
Φ2.5mm Brinell Cemented Carbide Indenter	1 piece	
Diamond Rockwell Indenter	1 piece	
Φ1.588mm Rockwell Ball Indenter	1 piece	
40x Reading Microscope	1 piece	
Base	1 piece	
Standard Rockwell Hardness Blocks	5 pieces	

Standard Delivery

Name	Qty	Photo
Standard Brinell Hardness Blocks	2 pieces	
Accessory Box	1 piece	
Instruction Manual	1 copy	
Warranty Card	1 copy	
Calibration Certificate	1 copy	
Certificate Of Conformity	1 copy	

Optional Delivery

Optional

Brinell hardness indentation optical measurement system

Rockwell hardness blocks with various hardness values

Brinell hardness blocks with various hardness values

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