Mikrosize®

iRocky-150M

Manual Rockwell Hardness Tester



Contact us

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Features and Applications

Product Features

- Pure mechanical structure, no external power supply required.
- Large dial with direct pointer reading, clear scale, resolution up to 0.5HR, intuitive and fast reading.
- Single-handle integrated operation. The preliminary test force, main test force loading and unloading are manually completed, featuring simple process and quick mastery.
- High-precision spindle and suspended weight system for stable force transmission and accurate, reliable measurement results.
- Supports multi-scales of HRA/HRB/HRC, covering testing of various materials such as quenched steel, cast iron and non-ferrous metals.
- Equipped with a variety of test tables, adaptable to flat, curved and shaft workpieces.
- Maximum allowable workpiece height: 170mm; Maximum distance from indentation center to machine wall: 130mm.
- Overall dimensions: 457*240*629mm, moderate volume for easy movement.
- Complies with the following standards: GB/T 230, JJG 112, ISO 6508, ASTM E18, etc.



Product Applications

- Used for hardness testing of raw materials such as steel, cast iron, non-ferrous metals and alloys to quickly determine whether the material meets production and procurement standards.
- Quality control of heat-treated workpieces
  Suitable for heat-treated parts such as quenched, tempered, annealed and normalized workpieces; online hardness monitoring to ensure the workpiece strength and wear resistance meet the standards.
- Finished product delivery and sampling inspection
- Conduct batch sampling inspection and delivery testing on finished products such as shafts, molds, gears, plates and hardware parts to ensure qualified and stable product performance.

Product Details



- Large pointer dial with clear scale
- Rotatable shell for zero setting
- Resolution of 0.5HR
- Inner scale for HRB reading, outer scale for HRA and
- HRC reading.

- Adopts detachable design for easy replacement.
- Comes standard with two indenters: diamond indenter and Φ 1.588mm steel ball indenter.





- Test force selected via the weight adjustment handwheel on the right, combined with the suspended weight system for easy adjustment.





- Lead screw lifting rod, combined with handwheel to control the lifting of the test table with smooth rotation.

- Integrated single-handle operation.
- Manual completion of initial test force application, main test force loading and unloading with a simple process.

Instrument Appearance



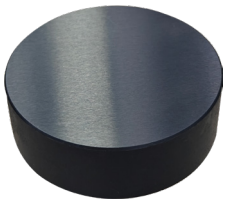
1. Dial Gauge **2. Indenter** **3. Test Table** **4. Iload Adjusting Handwhee**
5.Lifting Rod **6.Lifting Handwheel** **7.Loading/Unloading Handle**

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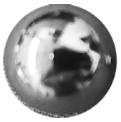
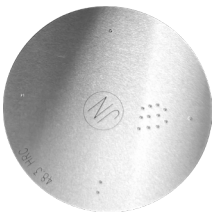
Technical Specification

Name	Manual Rockwell Hardness Tester
Model	iRocky-150M
Initial Test Force	98.07N（10kgf）
Total Test Force	588.4N（60kgf）、980.7N（100kgf）、1471N（150kgf）
Indenter Specification	Diamond Rockwell indenter, Φ1.588mm steel ball indenter
Test Force Application Method	Manual
Hardness Reading	Hardness value obtained from dial
Indicator Scale	C:0~100　　B：30~130
Testing Scale	HRA、HRB、HRC
Resolution	0.5HR
Maximum Distance from Indentation Center to Machine Wall	130mm
Maximum Workpiece Height	170mm
Overall Dimensions	457*240*629mm
Net Weight	75kg

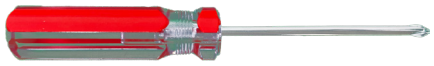
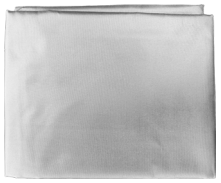
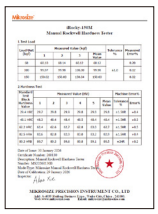
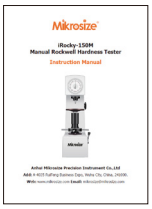
Standard Delivery

Name	Qty	Photo
Rockwell Hardness Tester	1 pc	
Φ150mm Test Table	1 pc	
Φ58mm Test Table	1 pc	
Φ58mm V-type Test Table	1 pc	
Diamond Indenter	1 pc	
Steel Ball Indenter	1 pc	

Standard Delivery

Name	Qty	Photo
HRB Steel Balls	5 pcs	
20~30HRC Standard Rockwell Hardness Block	1 pc	
35~55HRC Standard Rockwell Hardness Block	1 pc	
60~70HR Standard Rockwell Hardness Block	1 pc	
80~88HRA Standard Rockwell Hardness Block	1 pc	
85~95HRB Standard Rockwell Hardness Block	1 pc	

Standard Delivery

Name	Qty	Photo
Screwdriver	1 pc	
Dust Cover	1 pc	
Accessory Case	1 pc	
Calibration Certificate	1 copy	
Instruction Manual	1 copy	
Certificate of Conformity	1 copy	
Warranty Card	1 copy	