



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
5. Lifting Rod

2. Indenter

6. Lifting Handwheel

3. Test Table

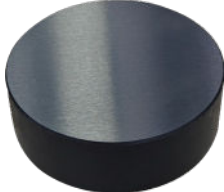
4. Load Adjusting Handwheel

7. Loading/Unloading Handle

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, Φ 1.588mm 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

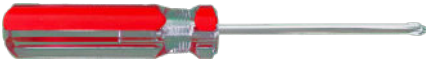
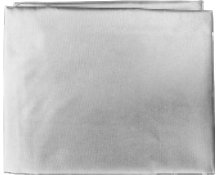
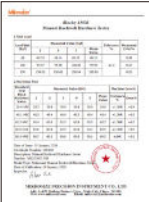
Standard Delivery

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	