Mikrosize®

iRock-150EM
Electric Rockwell Hardness Tester



Contact us

Mikrosize Precision Instrument Co.,Ltd
A-4035 RuiFeng Business Expo, Wuhu City, China , 241000.
Web:www.mikrosize.com
Email: mikrosize@mikrosize.com

Feature and Application

Product Feature

- Large dial with pointer direct reading, clear scale, resolution up to 0.5HR for intuitive and fast readings.
- High-precision spindle and suspended weight system for stable force transmission and accurate, reliable measurement results.
- Automatic test force loading & unloading mechanism adopted.
- Test force switching via load adjustment handwheel.
- Two indenters supplied as standard: Diamond Rockwell indenter and Φ1.588 mm steel ball indente.
- Detachable indenters for manual replacement.
- Lead screw lifting column for smooth vertical movement
- Supports HRA, HRB, HRC measurement scales.
- Compatible with multiple test tables to fit flat, curved and shaft-type workpieces.



Product Application

- Incoming inspection of metal materials.
- 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 Structure



1.Dial **2.Indenter** **3.Test Table** **4.Load Change Handwheel**
5.Lifting Column **6.Lifting Handwheel** **7.Emergency Stop Button**

Product Detail



- Large pointer dial with clear scale;
- Rotatable shell for zero setting;
- 0.5HR 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 Φ1.588mm steel ball indenter.





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

Product Detail

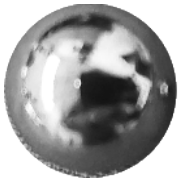


- Lead screw lifting rod, combined with handwheel to control the lifting of the test table with smooth rotation.

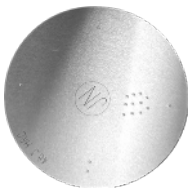
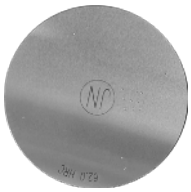
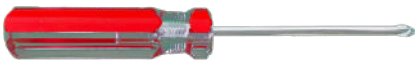
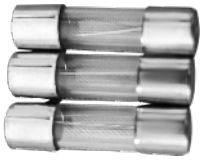
Technical Specification

Name	Electric Rockwell Hardness Tester
Model	iRock-150EM
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	Automatic (Loading/Dwell Holding/Unloading)
Hardness Reading	Hardness value obtained from dial
Indicator Scale	C:0~100　　B：30~130
Testing Scale	HRA、HRB、HRC
Resolution	0.5HR
Holding Time	2~60s
Maximum Distance from Indentation Center to Machine Wall	165mm
Maximum Workpiece Height	210mm
Power Supply	AC 220V，50Hz
Overall Dimensions	510*220*694mm
Net Weight	90kg

Standard Delivery

Name	Qty	Photo
Mainframe	1Set	
Φ150mm Test Table	1pc	
Φ58mm Test Table	1pc	
Φ58mm V-type Test Table	1pc	
Diamond Indenter	1pc	
Steel Ball Indenter	1pc	
HRB Steel Balls	5pcs	
20~30HRC Standard Rock-well Hardness Block	1pc	

Standard Delivery

Name	Qty	Photo
35~55HRC Standard Rockwell Hardness Block	1pc	
60~70HRC Standard Rockwell Hardness Block	1pc	
80~88HRA Standard Rockwell Hardness Block	1pc	
85~95HRB Standard Rockwell Hardness Block	each 1pc	
Weight A, B, C	1pc	
Screwdriver	1pc	
Fuse	1pc	
Power Cable	1pc	

Standard Delivery

Name	Qty	Photo
Leveling Adjustment Screws	1pc	
Spirit Level	1pc	
Dust Cover	1pc	
Accessory Case	1pc	
Calibration Certificate	1pc	
Instruction Manual	1copy	
Certificate of Conformity	1copy	
Warranty Card	1copy	

Optional Delivery

Optional	Diamond Rockwell Indenter
	Φ1.5875mm Steel Ball Indenter
	Φ3.175mm Steel Ball Indenter
	Standard Rockwell Hardness Test Block
	Standard Superficial Rockwell Hardness

Mikrosize Precision Instrument Co.,Ltd

Add: A-4035 RuiFeng Business Expo , Wuhu City, China , 241000.

Tel: 0553-2836939 Fax:0553-2836938 Web: www.mikrosize.com

