

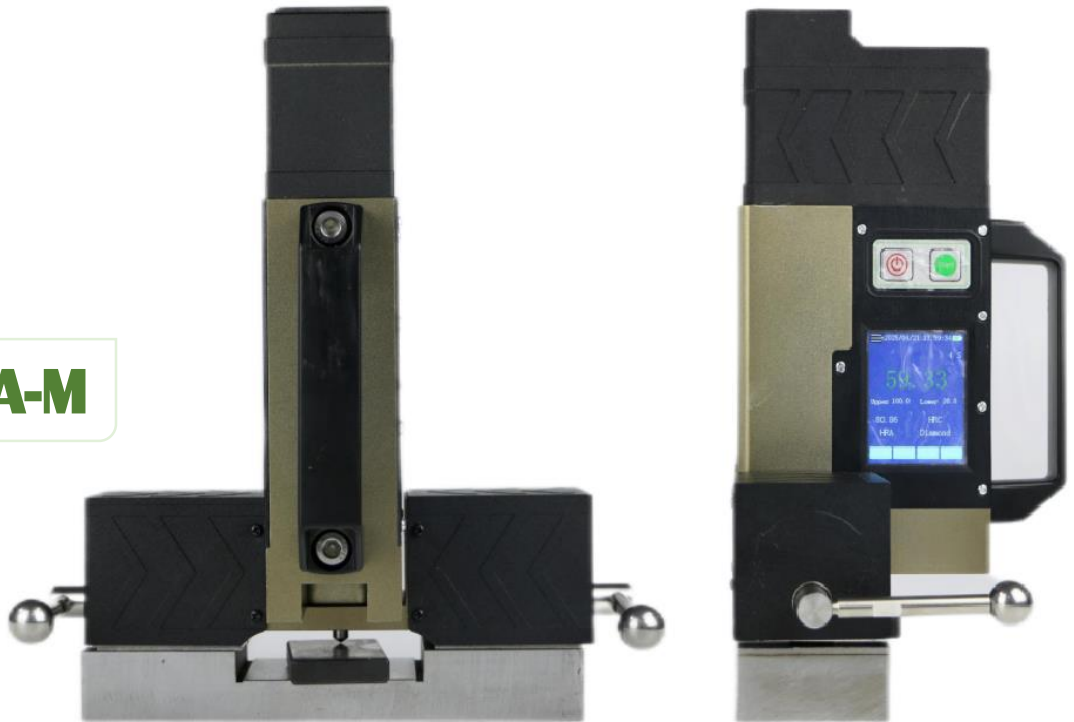


BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

AUTOMATIC PORTABLE ROCKWELL HARDNESS TESTER

BPR-150A-M



- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

BPR-150A-T



**DESCRIPTION:**

Fully automatic hardness tester for efficient and repeatable measurements. Hardness testing is a fundamental requirement in materials science and industrial quality control, directly impacting a material's wear resistance, strength, and service life. The BPR-150A-M Magnetic Hardness Testers by BANBROS offer a compact, reliable, and portable solution for on-site hardness testing of steel, pipelines, bars, plates, and irregularly shaped components.

Unlike traditional Bench-top Hardness Testers, the BPR-150A-M uses a magnetic base to attach securely to ferrous materials, allowing for precise Rockwell hardness testing without the need for heavy or immobile equipment.

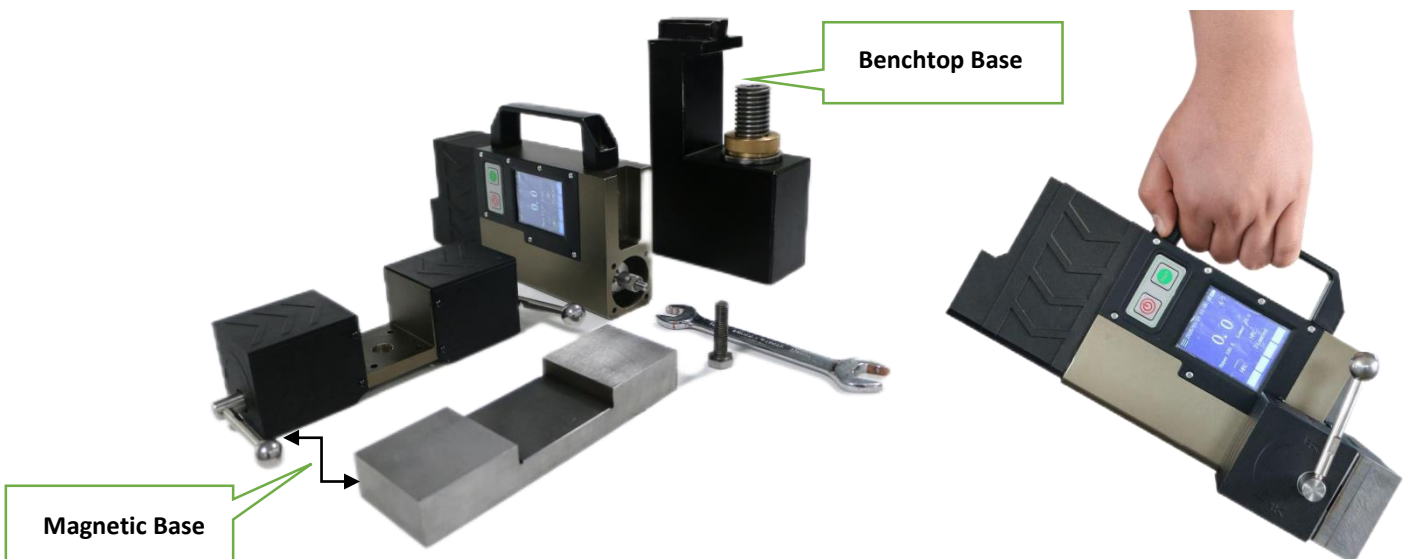
APPLICATIONS:

This machine is used for finished and semi-finished parts of common metals, including steel, copper, aluminium, carburised layers, hard alloys, etc. It can also be used for the hardness of large plates, shafts, steel tubes, weldments and other combinations.

- Large forgings (e.g. rolls, bearing housings) body hardness test.
- Mould steel heat treatment effect assessment.
- Weld hardness testing of ship structural parts.
- Wind power equipment spindle hardness verification, etc.

FEATURES:

- This machine adopted modular design, machine test head can freely to combined with magnetic base or benchtop base or any other customized test table. Can meet more widely range materials' Rockwell hardness test and makes hardness test work more easier.
- Fully automatic, automatic loading - dwell - unloading. For Rockwell test just press one key can get result directly, then can use Rockwell indentation measuring microscope to do measure work and get Rockwell hardness data (or measure by Rockwell indentation software, automatic measure to get data more easier and faster).
- Machine adopted high accuracy load cell and depth measuring system, ensure test result more accuracy.
- The machine adopts double handles plus magnetic switch, easy to operate, convenient to fix.
- With hardness conversion functions, freely convert to HV, HR, HBW, etc.
- Equipped with USB port, can save data to USB drive or through blue-tooth printer to print test data.
- The equipment adopts magnetic adsorption technology, combined with high-precision sensors and intelligent calibration system, to achieve fast, accurate and non-destructive hardness testing, especially suitable for on-site, on-line and complex working conditions hardness testing scenarios.



**TECHNICAL SPECIFICATION:**

| Model No. | BPR-150A-M | BPR-150A-T |
|--------------------|---|----------------------------------|
| Version | Rockwell test with Magnetic base | Rockwell test with Benchtop base |
| Initial Test Force | 10kgf (98.07N) | |
| Main Test Force | 60kgf(588.4N), 100kgf(980.7N), 150kgf (1471N) | |
| Hardness Scale | HRA, HRB, HRC | |
| Test Range | 20-95HRA, 10-100HRB, 20-70HRC | |
| Indenter | 120° Rockwell diamond indenter, Ø1.5875mm Carbide Ball indenter | |
| Force Control | Close loop load cell | |
| Loading | Automatic loading - dwell - unloading test force | |
| Data Transfer | Blue-tooth printer, USB port | |
| Data Storage | 1000 pieces test data | |
| Battery | Rechargeable lithium battery, Battery work continuous time 6 hours, Battery Charging Time 2 Hours | |
| Machine Size /G.W | 208*115*267mm | |

STANDARD ACCESSORIES:

| Item Name | Q'ty | Item Name | Q'ty |
|------------------|------|--------------------------------|------|
| Machine Body | 1pc | Magnetic Base | 1pc |
| Diamond Indenter | 1pc | 1.5875mm Carbide Ball Indenter | 1pc |
| Hardness Block | 1pc | Battery Charger | 1pc |

* Due to continuous product development, Image & specification can be upgrade.