

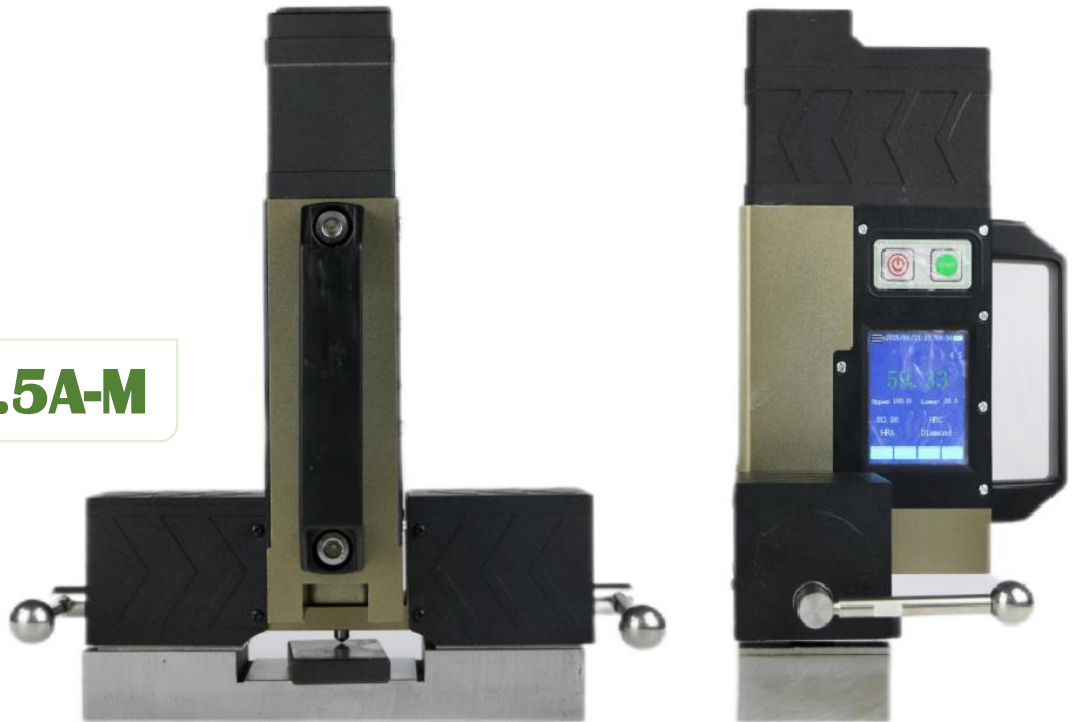


**BANBROS ENGINEERING PVT. LTD.**

The Precision Measurement People

# AUTOMATIC PORTABLE BRINELL HARDNESS TESTER

**BPB-187.5A-M**



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

**BPB-187.5A-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 BPB-187.5A-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 BPB-187.5A-M uses a magnetic base to attach securely to ferrous materials, allowing for precise Brinell hardness testing without the need for heavy or immobile equipment.

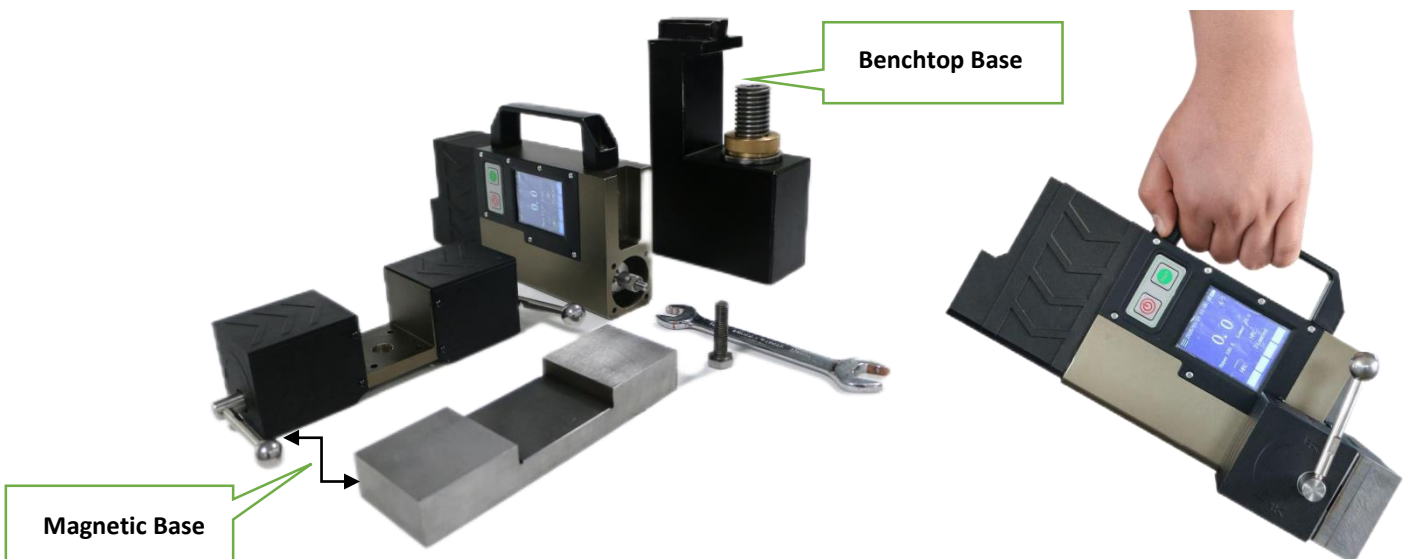
**APPLICATIONS:**

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 combine with magnetic base or bench top base or any other customized test table. Can meet more widely range materials Brinell hardness test and makes hardness test work more easier.
- Fully automatic, automatic loading - dwell - unloading. For Brinell test, press one key can get a Brinell indentation, then can use Brinell indentation measuring microscope to do measure work and get Brinell hardness data (or measure by Brinell 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.          | BPB-187.5A-M  | BPB-187.5A-T                    |
|--------------------|---|---------------------------------|
| Version            | Brinell test with Magnetic base   | Brinell test with Benchtop base |
| Initial Test Force | 10kgf (98.07N)  |                                 |
| Main Test Force    | 62.5kgf(612.9N), 187.5kgf (1839N)   |                                 |
| Hardness Scale     | HBW2.5/187.5, HBW2.5/62.5   |                                 |
| Test Range         | 100-650 HBW   |                                 |
| Indenter           | Ø2.5mm 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  |
| 40X microscope with light   | 1pc  | 2.5mm Carbide Ball indenter | 1pc  |
| Hardness Block  | 1pc  | Battery Charger             | 1pc  |
| Optional purchase: Brinell indentation auto measuring software system |      |                             |      |

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