

## Magnetic Digital Brinell and Rockwell Portable Hardness Tester



PHBR-200

Magnetic Digital Brinell and Rockwell hardness tester, which can make accurate Brinell hardness test with conventional indentation method of ISO 6506.2 and ASTM E 10. Rockwell hardness testing method is ISO6508-2 and ASTM E18.

This unit meets the demand of precise and rapid Brinell hardness testing on-site of large steel and iron parts.

Simplified operation of Rockwell hardness and depth-measuring Brinell hardness, only need to load the total test force remain for several seconds and then unload the total test force to finish the test, it is very simple and high efficiency.

This instrument stores an accurate basic hardness, that is depth curve made from plenty hardness blocks; it also stores several Brinell curves of common materials. This instrument can check and calibrate the accuracy on-site by precise indentation method at any time.

### Technical Data:

Initial Test Force: 10kgf

Total Test Force : 60 kgf, 100 kgf, 150 kgf, 187.5 kgf

Testing Range: 20~88HRA, 20~100 HRB, 20~70 HRC, 150~ 400 HBW

Testing Resolution: 0.1 HR or 1 HBW

Indication Error: Comply with ISO and ASTM standards

Repeatability Error: Comply with ISO and ASTM standards

Test Force Error:  $\leq \pm 1\%$ , Comply with ISO and ASTM standards

Operating Temperature: 0 ~50°C

Dimension: Flat : Area  $\geq 195\text{mm} \times 60\text{mm}$       Thickness :  $\geq 5\text{mm}$

Cylinder: Diameter  $\geq 60\text{mm}$  Length  $\geq 200\text{mm}$ , thickness  $\geq 8\text{mm}$

### Features:

High Reliability, With advanced sensors and high integration, stability electronic components to keep the high reliability of hardness tester.

One hardness tester with Brinell and Rockwell functions can meet the demands of most manufacturing users.

High efficiency depth-measuring methods, It can make rapid Brinell hardness test with depth-measuring method of ASTM E 103, and read hardness value directly.

Testing on-site Insensitive to temperature changing on workshop.

Simple test methods, Test by absorbing to iron and steel parts, and it can finish the test by unilaterally touching the parts. It can test any dimension parts, especially steel tubes and weld on pipes.

Light and easy to carry, Total weight 5.3kg of the tester, it is the smallest Magnetic Digital Brinell and Rockwell hardness tester so far.

### Standard Delivery:

Main Unit

Rockwell Diamond Indenter

1.588mm and 2.5mm Carbide Alloy

Ball Indenter

Rockwell Hardness Block

Brinell Hardness Block

40X Reading Microscope

Iron Seat

Recharger

Carrying Case