

C SHAPE ROCKWELL HARDNESS TESTER PHR C Series

STANDARD

ISO 6508 and ASTM E18

PHR series C-Shape Rockwell hardness testers are designed according to the basic principle of Rockwell hardness test. The principle and structure of hardness tester is in accordance with the American Standard ASTM E110.

Compared with small type, C-Shape type applies part clamping structure and similar reading system as micrometer.

It is small, light, accurate portable hardness tester. It consists of C- shape frame, screw arbor, and test head. It could test flat or curve parts as long as the parts could be clamped and the test surface erects the test head. It could be applied in production inspection and acceptance inspection to replace low accurate Leeb hardness tester.



PHR-4-3



PHR-8-4



PHR-8-10

FEATURES

- **Test Principal:** Follow Rockwell hardness test method and test condition and the result is reliable.
- **Simple Operation:** Fix the instrument to specimen, clamp it and test the hardness of specimen. No need to move the part
- **High Reliability:** Structure as simple as micrometer, accurate, convenient, repeatable.
- **Highly Accurate:** Test fast, convenient, and non-destructive. As accurate as benchtop tester, error less than 1.5HRC.



TECHNICAL SPECIFICATION

Product Name	C Shape Rockwell Hardness Tester
Initial Test Force	10kgf
Total Test Force	60 kgf, 100 kgf, 150 kgf
Test Head	120°diamond cone indenter, 1.588mm carbide alloy ball
Test Resolution	0.5HR
Test Range	HRA,HRB,...HRV etc,15 scales
Indication Error:	Comply with ISO 6508 and ASTM E18 standards
Repeatability Error	Comply with ISO 6508 and ASTM E18 standards
Application Range	Common metal including iron and steel, cooper, aluminum.

STANDARD PACKAGE



Tester



120° Diamond
Cone Indenter



1.588mm
Carbide Ball Indenter



Rockwell Test Block



Flat Anvil



V Anvil



carrying case



MODEL SELECTION

Model	Opening Size W x D (mm)	Net Weight Kg	Gross Weight Kg	Package Dimension (mm x mm x mm)
PHR-4-3	100 X 75	2.2	8.5	510 x 380 x 180
PHR-8-4	200 X 100	4.0	10.7	710 x 470 x 200
PHR-8-10	200 X 250	5.5	14.2	720 x 650 x 230
PHR-20-12	500 X 300	7.8	21.0	1020 x 760 x 240