

PHR SERIES SUPERFICIAL ROCKWELL HARDNESS TESTER

TESTING INSTRUMENTS

FEATURES

- Test the superficial hardness of metals.
- The test principle and accuracy comply to standard ISO6508.
- With the bench stand it can be used on the desk as well as on site.
- Tests the hardness of thin plates, slim tubes, thin shafts, small balls and small stampings, workpieces with small supporting surface as well as parts requiring small indentation, replacing Vickers hardness tester.
- It is used for finished workpiece non-destructive hardness test directly. The small indentation is acceptable to most workpieces.
- Traceable standard hardness block.
- Indenter inspected with standard Rockwell hardness tester.
- Test force calibrated with load cells directly traceable to national secondary benchmark.



PHR-1S



PHR-1ST

TECHNICAL PARAMETERS

Initial Test Force:	3 kgf
Total Test Force:	15 kgf, 30 kgf, 45 kgf (for PHR-1ST 15 kgf only)
Indenter:	120° Diamond Indenter Φ1.588 mm carbide ball
Accuracy:	complying with ISO 6508, ASTM E18
Resolution:	0.5 HR
Testing Range:	HRN, HRT, HRW, HRX, HRY, etc. 15 scales.
Application:	All metals including iron, steel copper, aluminium, zinc, lead, tin, carburized steel, nitrided steel etc.

APPLICATION

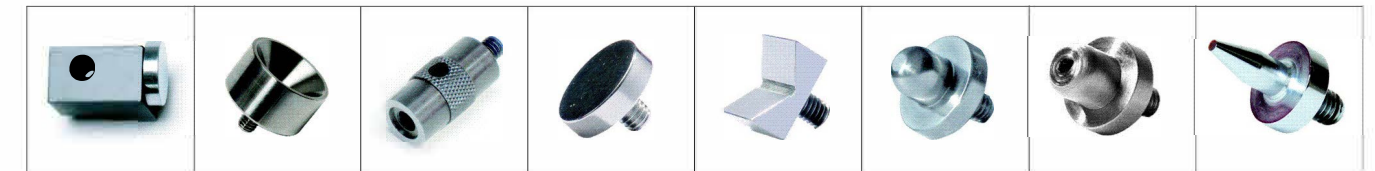
- Tests thin shaft > Φ2 mm with V anvil.
- Tests small ball > Φ2.5 mm with ball testing anvil.
- Tests small and irregular stampings with small supporting surface using slim raised spot anvil.
- Tests tin plate and cold-rolled sheet using PHR-1S and diamond raised spot anvil.
- Tests thin-wall slim pipes > Φ4.8 mm using PHR-1ST.

STANDARD ASSEMBLY

- Tester
- Bench stand
- 120° diamond indenter
- Φ1.588 mm carbide ball indenter
- 3 superficial Rockwell test blocks
- 1 HR15T test block only (PHR-1ST)
- Flat anvil
- V anvil
- Extension
- Flat adapter (PHR-1ST)
- Carrying case

OPTIONAL ACCESSORIES

- 120° diamond indenter
- Φ1.588 mm, Φ3.175 mm carbide ball indenter
- Φ6.35 mm, Φ12.7 mm steel ball indenter
- Standard test blocks (HR15N, HR30N, HR45N, HR15T, HR30T, HR45T)
- Raised spot anvil
- Slim raised spot anvil (flat top: Φ1.5 mm, Φ2.5 mm, Φ3.5 mm)
- Diamond raised spot anvil
- Ball testing anvil
- Spare magnifier



MODEL SELECTION

Model	Specimen /Opening Size W x D(mm)	Net Weight (kg)		Gross Weight (kg)		Package Dimensions (mm x mm x mm)		Remarks
		Tester	Bench Stand	Tester	Bench Stand	Tester	Bench Stand	
PHR-1S	25 x 25	0.8	1.5	2.6	1.8	330 x 255 x 150	215 x 148 x 232	
PHR-2S	50 x 50	1.1	1.5	3.6	1.8	390 x 280 x 160		
PHR-1ST	Dia > 4.8	0.8	1.5	2.0	1.8	330 x 255 x 150		

PRODUCT PHOTO



PHR-1S

PHR-2S

PHR-1ST