
HR-150A Manual Rockwell Hardness Tester

HR-150(S) Summary Digital Rockwell Hardness Tester



Product introduction

Hardness tester is used to determine the hardness of materials, and hardness test is a means to judge the quality of metal materials or parts of products. The so-called hardness is the ability of a material to resist the indentation of another body without residual deformation under certain conditions. The greater the resistance, the higher the hardness, and vice versa, the lower the hardness.

In mechanical performance test, hardness measurement is the easiest, the most economical and the fastest method. It is also one of the measures to check product quality in the process of mechanical manufacturing. Since the hardness of metals corresponds to other mechanical properties, most metal materials can approximately calculate other mechanical properties, such as strength, fatigue, creep, wear and internal loss, by measuring hardness.

Functional characteristics

- Manual Rockwell hardness tester, accurate, reliable and durable
- Strong structure, good rigidity
- Hardness resolution of 0.5 Rockwell units
- Direct reading of dial: HRA, HRB, HRC scale
- External test force selection knob, easy to operate
- Manual testing process without electrical device

- Precision Hydraulic Buffer with Adjustable Loading Speed
- The test space is large and larger samples can be allowed to be placed.
- It is suitable for hardness determination of quenched, tempered, annealed, cold and hard castings, forgeable castings, cemented carbide steel, aluminium alloy, copper alloy, bearing steel, etc.
- The standard is fully equipped to meet the test requirements of all scales.

Technical parameter

Model	HR-150A/HR-150A(S)
Initial test force	10kgf
	98.07N
Main test force	60kgf、100kgf、150kgf
	588N、980N、1471N
Display	Dial display hardness value
Specification of indenter	Diamond Rockwell indenter
	Φ1.5875mm Cemented Carbide Steel Ball indenter
Rockwell scale	HRA、HRB、HRC
Testing range	HRA:20-88 HRB:20-100 HRC:20-70
Loading and unloading mode	By force lever
Specimen placement	The minimum diameter of cylindrical specimens placed on the outer surface can be 3 mm.
Date output	No
Executive standard	GB/T230, ISO 6508, ASTM E18
Maximum height of specimen	170mm
Distance from the center of the indenter to the body	165mm
Power supply	AC220V+5%, 50-60Hz
Shape size	510x212x700mm
Machine net weight	About 85Kg

Name	Quantity	Name	Quantity
Diamond Rockwell indenter	1	Φ1.5875mm steel ball indenter	1
Hardness block	3	Large, medium and V-shaped test-bed	Each one
Weights	1	Product Qualification Certificate	1
Manual	1		

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