NAUMETRICS.
premium measuring instruments

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HR-150DT Electric Rockwell Hardness Tester

HR-150DT(S) Summary Digital Electric 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

- Precision, reliability and durability
- Strong structure, good rigidity
- External test force selection knob, easy to operate
- The test space is large and larger samples can be allowed to be placed.
- It has wide application scope, simple operation, good economy and practicability.

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- Hardness resolution of 0.5 Rockwell units
- External illumination light source, can clearly see the test point
- Direct reading of dial, HRA, HRB, HRC scale
- 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

Mode	HR-150DT/HR-150DT(S)
Initial	10kgf
	98.07N
Main test force	60kgf、100kgf、150kgf
	588N、980N、1471N
Specification of indenter	Diamond Rockwell indenter
	Φ1.5875mm steel ball indenter
Display	Dial display hardness value
Rockwell scale	HRA、HRB、HRC
Testing range	HRA:20-88、HRB:20-100、HRC:20-70
Loading method	Automatic (manual loading of initial test force)
Date output	No
Executive standard	GB/T230, ISO 65082, ASTM E18
Maximum height of specimen	170mm
Distance from the center of the indenter to the body	165mm
Specimen placement	The minimum diameter of circular specimens placed on the outer surface is 3 mm.
Power Supply	AC220V±5%、50-60Hz
Shape size	510*212*700 mm
Machine net weight	About 85Kg

Standard configuration

Name	Quantity	Name	Quantity
Diamond Rockwell indenter	1	Φ1.5875mm steel ball indenter	1
Hardness block	3	Large, medium and V-shaped	Each one

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		test-bed	
Fuse 0.5A	2	Power cord	1
Weights	1	Dust-proof plastic cover	1
Instrument bulb	2	Product Qualification Certificate	1
Manual	1		