

# PrimeR-450D Digital Surface Rockwell Hardness Tester



## Feature:

With novel appearance and menu interface, the measuring device adopts grating sensor and computer control, and the hardness indication value is directly displayed on the LCD screen. It is a mechatronics hardness testing instrument.

The machine can automatically convert various hardness parameters, identify the minimum thickness of the specimen and determine the environmental temperature of the test. Built in printer to read relevant test

## Application:

Surface hardened steel, copper, aluminum alloy sheet, strip steel, cemented carbide steel. Zinc plating, chromium plating, tin plating, material surface heat treatment and chemical surface treatment of various metal materials. Casting and forging parts sample testing and acceptance inspection. Flat and cylindrical workpieces, steel and nonferrous metals. Automotive and aviation industries · cemented carbide, ceramics, stainless steel. Laboratory and workshop



**Standard:** ISO 6508, ASTM E-18, JIS Z2245, GB/T 230.2, JJG112.

## Technical Specification:

Model	PrimeR-450D
initial test force	3kgf (29.42N)
total test force	15kgf(147.1N) 30kgf(294.2N) 45kgf(441.3N)
indenter	diamond indenter, $\phi$ 1.588mm ball indenter
hardness scale	HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
scale convert	HBW, HV, HK, HRA, HRB, HRC, HRD, HRF, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T,
measure range	HR15N:70-94 HR30N:42-86 HR45N:20-77 HR15T:67-93 HR-30T:29-82 HR45T:10-72
loading method	automatic (loading/dwell/unloading)
hardness reading	Digital LED screen
Data output	Built-in printer, RS232 to PC.
resolution	0.1HR
dwell time	0~60s
max. height of specimen	190mm
throat	165mm
power supply	AC220V, 50Hz
dimension(LWH)	machine:520×240×720mm, packing: 650×370×950mm
weight	net weight: 70kg, gross weight: 100kg

## Standard accessories:

No.	Name	Qty	No.	Name	Qty
1	instrument main body	1	7	large plane test table	1
2	$\phi$ 1.588mm ball indenter	1	8	middle plane test table	1
3	diamond rockwell indenter	1	9	V-shaped test table	1
4	hardness block HR 30T	1	10	weight A,B,C	3
5	hardness block HR 15N 30N	2	11	anti-dust cover	1
6	cable	1	12	manual	1