

**MHRS-150****MHRS-45****MHRS-150/45**

## **Touch Screen Digital Rockwell/Superficial Rockwell/Double 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.

MHRS-150, 45, 150/45 touch screen digital display Rockwell, surface Rockwell, double Rockwell hardness tester is a novel appearance, stable performance of high-tech products. Visual digital display and computer control, stable performance, is a set of mechanical and electrical integration of high-tech products, can carry out Rockwell scale hardness testing.

### **Functional characteristics**

- High Precision Stepping Control System of "Aolongxin"
- Touch screen interface, easy to operate
- HR, HB, HV Conversion Scale
- External illumination light source, can clearly see the test point
- Selection of Holding Time for Hardness Testing
- External test force selection knob, easy to operate
- Built-in printer output test data and statistical data
- Serial Communication of RS-232 Data Output Interface
- Precision, reliability and durability

- Strong structure, good rigidity
- The test space is large and the larger sample can be placed.
- The standard is fully equipped to meet the test requirements of all scales.
- 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.

**Technical parameter**

Model	MHRS-150	MHRS-45	MHRS-150/45
Rockwell initial test force	10kgf	3kgf	3kgf、10kgf
	98.07N	29.4N	29.4N、98N
Rockwell total test force	60kgf、100kgf、150kgf	15kgf、30kgf、45kgf	15kgf、30kgf、45kgf、60kgf、100kgf、150kgf
	588.4N、980.7N、1471N	147.1N、294.2N、441.3N	15kgf、30kgf、45kgf、60kgf、100kgf、150kgf
Rockwell scale	HRA HRB HRC HRD HRE HRF HRG HRH HRK HRL HRM HRP HRR HRS HRV	HR15N HR30N HR45N HR15T HR30T HR45T HR15W HR30W HR45W HR15X HR30X HR45X HR15Y HR30Y HR45Y	HRA HRB HRC HRD HRE HRF HRG HRH HRK HRL HRM HRP HRR HRS HRV HR15N HR30N HR45N HR15T HR30T HR45T HR15W HR30W HR45W HR15X HR30X HR45X HR15Y HR30Y HR45Y
Test range	HRA:20-88 HRB:20-100 HRC:20-70 HRD:40-77 HRE:70-100 HRF:60-100 HRG:30-94 HRH:80-100 HRK:40-100 HRL:50-115 HRM:50-115 HRR:50-115 HRP:50-115 HRS:50-115 HRV:50-115	HR15N: 70-94 HR30N: 42-86 HR45N: 20-77 HR15T: 67-93 HR30T: 29-82 HR45T: 10-72	HRA:20-88、 HRB:20-100 、 HRC:20-70 、 HRD:40-77 、 HRE:70-100 、 HRF:60-100 、 HRG:30-94、 HRH:80-100、 HRK:40-100、 HRL:50-115 HRM:50-115、 HRR:50-115、 HR15N: 70-94、 HR30N: 42-86、 HR45N: 20-77、 HR15T: 67-93、 HR30T: 29-82、 HR45T: 10-72

Scale conversion	HV、HB、HR
Executive standard	GB/T230, ISO 6508, ASTM E18
Specification of indenter	Diamond Rockwell indenter
	Φ1.5875mm steel ball indenter
Hardness indication	LCD display hardness value、Rockwell scale、Total test force、Dwell time
Date output	Built-in printer, RS232 communication interface
Loading and unloading method	Automatic loading and unloading by motor
Sample maximum height	170mm
Distance from the center of indenter to body	165mm
Sample placement	The minimum diameter of circular specimens placed on the outer surface is 3 mm.
Power supply	AC220V±5% 50-60Hz
Shape size	500*160*700mm
Machine net weight	About 70kg

### Standard configuration

Name	Quantity	Name	Quantity
Diamond Rockwell indenter	1	1.5875mm steel ball indenter	1
Power cord	1	RS-232communication interface	1
Rockwell standard block	3	Dust-proof plastic cover	1
Large、medium、V type test-bed	3	Manual book	1
Product Qualification Certificate	1 份	Fuse 0.5A	2
Printer paper	1		

### Optional accessories

Rockwell Hardness Meter Control and Data Acquisition Software	HR-SD-B
Computer, Printer	