

Digital Display Manual Rockwell Hardness Tester HR-150AS



- HRA is widely used to measure hardness of carbide alloy, quenched hardening steel after carbonized, hardened thin steel strip and plate, etc. For materials HRC > 67, it is more likely to damage the diamond indenter if we use 1471 test force. For those materials, we had better choose HRC hardness scale which has small test force and indentation.

- HRB is suitable to test medium hardness materials such as low and medium carbon steel after annealing treatment, malleable iron, all kinds of brass, bronze, hard aluminum alloy after solution treatment and so on. The applicable scope is 20~100 HRB. when the material hardness is under 20HV, on account of the creep of metal the specimen deformation will last for a long time under the test force. The needle on indicator dial or optical projection scale moves slowly, causing difficulty in measuring precision. While when the material hardness exceeds 100 HV, the shallow indentation depth decreases sensitivity affecting measuring precision.

- HRC is most applicable to testing carbon steel after quenching or low tempering, alloy steel, tool steel, die steel, as well as chilled cast iron, titanium alloy and so on. Generally, we apply HRC scale to test materials HRB>100, and HRB scale to test materials HRC<20 avoiding influence caused by glide of indenter.

HR-150AS Specifications:

Product name	Manual Rockwell Hardness Tester
Model	HR-150AS
Measuring range	20-88HRA, 20-100HRB, 20-70HRC
Dial pointer range	HRA, HRC (black): 0-100; HRB (red): 30-130
Preliminary test force	10kgf (98.07N)
Rockwell test force	60Kgf(558.4N), 100Kgf(980.7N), 150Kgf(1471N)
Hardness indication	LCD Screen
Resolution	0.1HR
Loading control	manual
Max height of specimen	170mm
Instrument throat	135mm
Dimension	470 x 240 x 630mm
Packing dimension	540 x 420 x 700mm
Gross/ Net weight	65Kg/56Kg
Execution standard	GB/T230.2, JIS Z2245, EN-ISO 6508, ASTM E-18

HR-150AS Standard Delivery:

Instrument main body	∅1.588mm ball indenterl	Weight A
∅58mm V-shape anvil	∅1.588mm Steel ball	Weight B
Hardness block	Cone diamond indenter	Weight C
Anti-dust cover	∅150mm Flat anvil	Accessory box
Warranty card	Qualified certificate	Instrument manual