MULTI-FUNCTIONAL LOW LOAD BRINELL HARDNESS TESTER
RoboBrinell-62.5

STANDARD

ISO 6506, ASTM E10, GB/T 231.2

Multi-Functional Low load Brinell hardness tester adopts smaller parts of the Brinell hardness value, especially suitable for testing soft materials. Tester is equipped with sophisticated sensors, more accurate test results, using imported components ensure equipment running more stable, the updated control system can provide more measurement data, and control is more comprehensive and precision.

FEATURE

➢ Equipped with sophisticated sensors, both test force and test results are more accurate, have more wide range of test force for your choice.

➢ The main components adopt brand such as American 3M, Allegro, Japan Omron and NKK, to ensure the equipment running stably for a long time.

➢ Proprietary ball positioning system have more precision of repositioning, ensure the precision and repeatability of the whole test process.

➢ Designed by our institution engineer that make the optical system imaging more clearer, brightness is adjustable, comfortable vision, it's not easy to fatigue for long time operation.

➢ Input the indentation diameter, hardness value is displayed directly, and can display conversion hardness value at the same time, avoid the inconvenience of looking up table.

➢ The industry LCD screen can be visual display hardness value, hardness unit, conversion hardness, testing force, indenter type, the required minimum thickness, load time, measurement times, and the test process is intuitive and clear, built-in printer can print out measured times, hardness value, average, maximum and minimum values, range for the customer to archive.

➢ The shell is one step casting molding with special foundry process, stable structure and no deformation, can work under relatively harsh environment; pure white car painting and its class is high, have scratch resistance ability, it s still brightness used for years.

➢ We have our own research and development design, production and processing ability, our machines provide life-long time parts replacement and maintenance upgrade services.

➢ It's suited to test the big size grain metal material, reflecting the combination property.

➢ Cast iron, steel, ferrous metal especially for rather soft metal, such as pure aluminum, lead, tin etc.

TECHNICAL SPECIFICATION

Model	RoboBrinell-62.5MP	RoboBrinell-62.5AP
Test force	1kg(9.8N), 5 kg(49N), 6.25 kg(61.29N), 10 kg(98N), 15.62 kg(153.2N), 30 kg(294.2N), 31.25 kg(306.25N), 62.5 kg(612.9N)	
Scale	HB1, HB5, HB6.25, HB10, HB15.62, HB30, HB31.25, HB62.5	
Conversion scale	HRA, HRB, HRC, HRD, HK, HBS, H15N, H30N, H45N, H15T, H30T, H45T	
Load rate	≤50μm/sec	
Minimum test unit	1μm	
Measuring range	8-650HBW	
Hardness value read	Digital LCD	
LCD screen size	118x99mm	
Amplification times	50X(observe),100X(measure)	
Load method	Automatic(load, dwell, unload)	
Dwell time	1-99 S each step is 1 second	
Objective and indenter shifting	Manual	Automatic
Specimen maximum height allowed	220mm	
Throat depth	150mm	
Instrument size and weight	560×186×635mm(L×W×H) 43kg	
Package size and weight	650x450x900mm (LXWXH) 67kg	
Light source	LED cold light source(continuous using 24 hours, will not generate heat and affect the stability of electronic components, life-span can up to 100 thousand hours	
Power supply	AC110V or AC220V + 5%, 50/60 Hz	

X-Y worktable	Size:100x100mm, max moving: 25x25mm,minimum read:0.01mm
Data output	Built-in printer(Max, Min value, test time, test times, mean value) RS-232 port(Export data to computer, easy to long time preservation)
Standard accessories	1 piece: Hardness tester; 10X digital micrometer eyepiece ; 5X and 10X objective ;Φ1mm,Φ2.5mm hard alloy ball indenter; large working table; medium working table; level bubble; power cable; dust-proof cover ;manual instruction, hardness conversion table; certificate of quality; warranty card ; accessory box; data transmission software; data line. 2 pieces: Standard hardness block 4 pieces: Horizontal screw
Optional	Hardness measurement software; computer; printer; standard indenter; standard hardness block