

ADVANCED ROCKWELL HARDNESS TESTERS

Part#: SHBLHT238 series

Supplier: Shimana

Calibration Certificate: available on request



Simple Operation

Designed with simplicity in mind, the user menu now reduces the time spent to setup the hardness tester. Max 400 items of test results stored automatically.

Easy to measure difficult locations

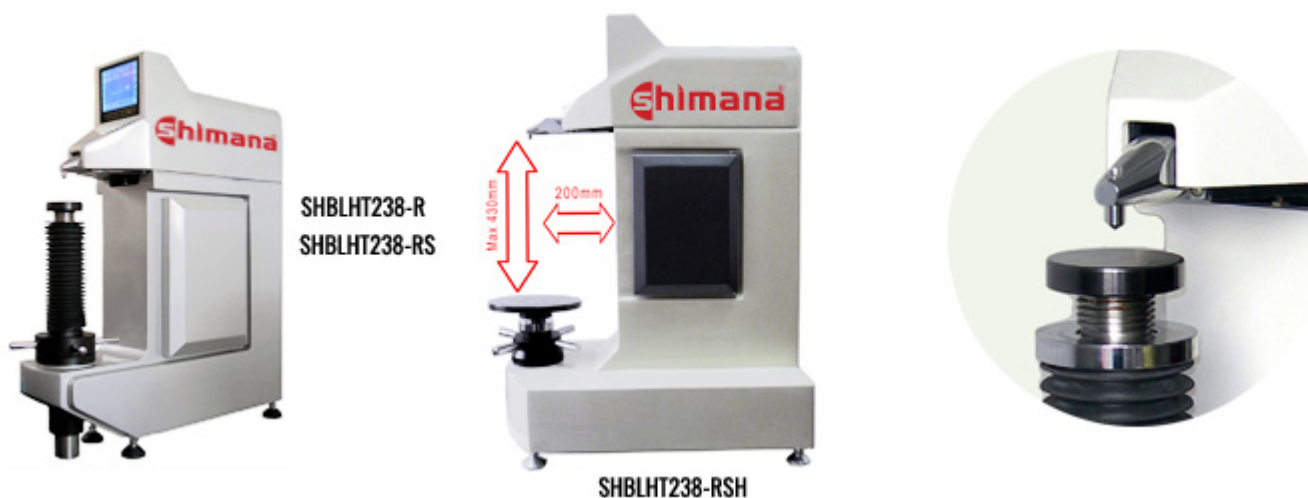
Shimana SHBLHT238 is ideal Automatic Bench-top Hardness Tester for testing inside diameters or hard to reach areas. Using one of the standard or optional indenter, carbon steel, alloy steel, cast iron, non-ferrous metal, and engineering plastic can be tested.

Very Low Friction Operation

Thanks to the Dolphin-nose indenter arm the effects of frictional inconsistencies is reduced, The Shimana SHBLHT238 provides exceptional accuracy and repeatability for hardness tests. The load cycle is fully automatic.

FEATURES

- Dolphin-nose indenter arm for easy reach of interior and exterior surfaces
- Multiple test force generation for Rockwell (SHBLHT238-R model), Rockwell and Rockwell Superficial (SHBLHT238-RS and SHBLHT238-RSH models)
- Suitable for testing of carbon steel, alloy steel, cast iron and non-ferrous metals
- Testing internal surface of rings and tubes with diameters over 23mm
- Testing force is set automatically according to the testing scale
- Automatic load cycle: the loading, dwell, unloading process of the main test force controlled exactly to meet the standards
- Curved surface correcting is done automatically
- High measuring precision
- Measuring results are digitally displayed
- Data output: RS232 and USB. PC software application and cables are sold separately
- Test value can be transformed to the value of HB, HV, HK and σ_b value
- Meets the ISO 6508-2 and ASTM E18 standards



SPECS

Model	SHBLHT238-R	SHBLHT238-RS	SHBLHT238-RSH
Test Scale	Rockwell	Rockwell and Rockwell Superficial	
Preliminary Test Force	98.1N (10kgf)		98.1N (10kgf), 29.4 (3kgf)
Test Force Rockwell	588.4N (60kgf), 980.7N (100kgf), 1471N (150kgf)		
Test Force Rockwell Superficial	Not available	147.1N (15kgf), 294.3N (30kgf), 441.3N (45kgf)	
Max Specimen Height		260mm	430 mm
Max Specimen Depth		150mm	200 mm
Load Control	Automatic (loading, duration, unloading)		
Loading Method	Dead Weight		
Adjustable Dwell time	Adjustable from 2-50s, can be set and stored		
Resolution	0.1 HR		
Display	High-definition backlit LCD		
Memory	Max 400 items of test results stored automatically		
Data Output	RS232, USB		
Power Supply	AC, 220V/110V, 50~60Hz		
Dimensions	710mm×210mm×830mm	710mm×210mm×830mm	730mm×400mm×1000mm
Net Weight	90kg	95kg	130kg

ORDERING INFO

SKU	Description	Test Scale	Max Specimen Height	Max Specimen Depth
SHBLHT238-R	Digital Rockwell Hardness Tester	Rockwell	260mm	150mm
SHBLHT238-RS	Twin Digital Rockwell Hardness Tester	Rockwell & Rockwell Superficial	260mm	150mm
SHBLHT238-RSH	Twin Rockwell Tester w/ Indenter Nose	Rockwell & Rockwell Superficial	430mm	200mm

	Scale	Hardness symbol		Scale	Hardness symbol
Rockwell hardness	A	HRA	Rockwell Superficial hardness	15N	HR15N
	D	HRD		30N	HR30N
	C	HRC		45N	HR45N
	F	HRF		15T	HR15T
	B	HRB		30T	HR30T*2
	G	HRG		45T	HR45T
	H	HRH		15W	HR15W
	E	HRE		30W	HR30W
	K	HRK		45W	HR45W
	L	HRL		15X	HR15X
	M	HRM		30X	HR30X
	P	HRP		45X	HR45X
	R	HRR		15Y	HR15Y
	S	HRS		30Y	HR30Y
	V	HRV		45Y	HR45Y

Advanced Internal/External Digital Rockwell Hardness Tester	
Host machine	standard
Standard hardness block for A scale	standard
Standard hardness block for B scale	standard
Standard hardness block for C scale	standard
Standard hardness block for 30N scale	standard for SHBLHT238-RS/SHBLHT238-RSH
Standard hardness block for 30T scale	standard for SHBLHT238-RS/SHBLHT238-RSH
Ball indenter (1/16")	standard
120°cone diamond indenter	standard
Mounting screws for indenter	standard
Flat anvil	standard
Screwdriver for indenter mounting	standard
Dust cover	standard
Standard hardness block for other scales	optional
1/8"ball indenter and spare steel ball	optional
1/4"ball indenter and spare steel ball	optional
1/2"ball indenter and spare steel ball	optional
Short diamond indenter	optional
Chisel diamond indenter	optional
Slender diamond indenter	optional
Micro printer	optional
PC Output kit (software and cable)	optional

