

HST-HBRV-STH Series Touch Screen Display Universal Hardness Tester



Product Features:

This hardness tester has a novel appearance, complete functions, convenient operation, clear and intuitive display, and stable performance. It is a high-tech product that integrates mechanical, electrical, and optical testing. It can be tested using three testing methods: Brinell, Rockwell, and Vickers.

1. The body part of the product is formed in one go through a casting process and has undergone long-term aging treatment. Compared to the panel assembly process, long-term use has minimal deformation and can effectively adapt to various harsh environments;
2. Automotive paint, with high quality and strong scratch resistance, remains shiny and new after years of use;
3. Ready to use upon startup, without the need to install weights;
4. It adopts a large screen touch LCD display interface, with rich display content and convenient operation;
5. The electronic closed-loop control applies the test force. The force sensor controls the test force, fully realizing the automatic operation of applying, maintaining, and removing the test force;
6. The hardness values of each scale can be converted to each other through measurement;
7. The body is equipped with a micrometer and a high-definition micro optical system to make the observation

readings clearer and reduce errors;

8. Equipped with a built-in micro printer and optional RS232 data cable, it can be connected to the computer through a super terminal to export measurement reports.

9. Equipped with three testing methods of Brinell, Rockwell, and Vickers, with multi-level testing force, it can meet various hardness testing requirements;

Application Scope:

Suitable for measuring the hardness of quenched, tempered, annealed, cold hard castings, malleable castings, hard alloy steel, aluminum alloy, copper alloy, bearing steel, etc.

Technical Parameters:

Rockwell Scales	Initial Testing Force	3kgf (29.42N), 10kg (98.07N)
	Total test force	15kgf (147.1N), 30kgf (294.2N), 45kgf (441.3N), 60kgf (558.4N), 100kgf (980.7N), 150kgf (1471N)
	Indenter	Diamond Rockwell indenter、Φ1.5875mm Ball indenter
	Scales	HRA、HRB、HRC、HRD、HRE、HRF、HRG、HRH、HRK、HRL、HRM、 HRP、HRR、HRS、HRV、HR15N、HR30N、HR45N、HR15T、HR30T、 HR45T、HR15X、HR30X、HR45X、HR15Y、HR30Y、HR45Y、HR15W、 HR30W、HR45W
	Maximum height of the specimen	180mm
Brinell Scales	Testing Force	5、6.25、10、15.625、30、31.25、62.5、100、125、187.5、250Kgf
	Scales	HBW1/5、HBW2.5/6.25、HBW1/10、HBW2.5/15.625、HBW1/30、 HBW2.5/31.25、HBW2.5/62.5、HBW5/62.5、HBW10/100、HBW5/125、 HBW2.5/187.5、HBW5/250
	Indenter	φ2.5mm、φ5mm Ball indenter

	Eyepiece magnification	15X
	Objective magnification	2.5X、5X
	Maximum height of the specimen	165mm
Vickers Scales	Testing Force	5、10、20、30、40、50、60、80、100、120Kgf
	Indenter	Diamond Vickers indenter
	Scales	HV5、HV10、HV20、HV30、HV40、HV50、HV60、HV80、HV100、HV120
	Eyepiece magnification	15X
	Objective magnification	10X
	Maximum height of the specimen	165mm
Hardness tester host	Display method	LCD digital display
	Distance from the center of the pressure head to the body	160mm
	External dimensions of hardness tester	550*230*780mm
	Instrument weight approximately	80KG
	Auxiliary functions	Storage function; Built in printer; Hardness conversion between different hardness scales
	Interface	RS232
	supply voltage	AC220V±5%, 50~60Hz