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Digital Brinell, Rockwell, Vickers Hardness Tester NOVOTEST TB-BRV-D



■Description ■

Digital Brinell, Rockwell, Vickers Hardness Tester NOVOTEST TB-BRV-D implements direct Brinell, Rockwell and Vickers methods of hardness testing in accordance with ISO 6508, ASTM E10, ASTM E92, ASTM E18, ASTM E384, ASTM E103.

Digital Universal Hardness Tester is a TOP high-tech multi-purpose, and multi-functional hardness testing equipment, with digital **LCD touch screen**.

This hardness tester uses different types of indenters and multi-stage test load for hardness testing of wide range of tested products in different scales: Brinell, Rockwell and Vickers.

Hardness tester provides the high sensitivity and accuracy of the load level, and the high accuracy of the measuring values. The machine has built-in high precision microscope with backlighting.

Hardness tester is supplied with a special table which allows user to measure the diameters of imprints without removing the sample. The hardness tester has special stand for the microscope, which significantly simplifies operating the device.

Besides manual testing platform, it is completely achieve automatic operation, including loading, unloading, hardness value directly display etc.

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Hardness tester TB-BRV-D is one of the easiest device in operating and servicing, but at the same time it is universal and multi-functional instrument in its class. Touch screen and automatically testing system make operator's work much more comfortable.

User can measure hardness in various scales and have no problems with hardness measurement in a wide range – from very soft materials up to some of the hardest materials.

Application ►

The device allows user to carry out:

- hardness testing of ferrous metals (steel, cast iron, low carbon steel and tempered steel, etc);
- hardness testing of non-ferrous metals (alloys from aluminum, copper, etc);
- hardness testing of hard alloys, carbonized and chemically treated layers.

Tester application in different scales allows user to solve nearly all hardness measurement requirements: hardness measurement in a wide range – from very soft up to the hardest materials.

■Features

- Automatic data input
- Touch screen
- Automatically operation and testing
- Easy in operating and servicing
- Multi-functional instrument in its class. User can measure hardness in various scales and have no problems with hardness measurement in a wide range – from very soft materials up to some of the hardest materials
- Special table which allows user to measure the diameters of prints without removing the sample from the device
- Special stand for the microscope, which significantly simplifies operating the device
- Built-in high precision microscope with backlighting
- An electric actuator the main test load is completely automated

Indenter	 Rockwell: Conical diamond indenter (120 °) - diamond tip as a cone with 120 degrees of the cone apex angle and the bead size of 1/16 inch (1.5875 mm); Brinell: Hard alloy steel ball with a diameter of 1.5875, 2.5, 5 mm;
	Vickers: four-sided diamond pyramid (136 °).

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Scale	 Rockwell: HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK; Brinell: HBW2.5/31.25, HBW2.5/62.5, HBW5/62.5, HBW2.5/187.5; Vickers: HV30, HV100. 	
Testing load	 Rockwell: 60kgf (588N), 100kgf (980N), 150kgf (1471N); Brinell: 31.25kgf (306.5N), 62.5kgf (612.9N), 187.5kgf (1839N); Vickers: 30kgf (294.2N), 100kgf (980.7N). 	
Measuring time	5~60 sec	
Testing materials	 ferrous metals (steel, cast iron, low carbon steel and tempered steel, etc); non-ferrous metals (alloys from aluminum, copper and its alloys, etc); hard alloys, carbonized and chemically treated layers. 	
Hardness range	 Rockwell: (20-88) HRA, (20-100)HRB, (20-70)HRC Brinell: (8-650) HB Vickers: (14-3000) HV 	
Accuracy	 Rockwell: accuracy: ±0.1HRI, repeatability: 0.5HR Brinell: accuracy (δ/%): ±2.5, repeatability (Hcf/%): ≤3.0 Vickers: accuracy (δ/%): ±2, repeatability (Hcf/%): ≤2.5 	
Max height of test sample	 Rockwell indenter - 170 mm Brinell - 140 mm Vickers – 140 mm 	
Max depth of test sample	165 mm	
Microscope zoom	15X	
Lense zoom	2.5X, 5X	
Data output	 Rockwell - dial indicator Brinell - measuring microscope Vickers - measuring microscope 	
Body color	BlueWhite	
Recommended	Air temperature: 0+40 °C	
operating conditions	 Air pressure: 94 – 106.7 kPa Humidity: up to 65% 	
Net weight	110 kg	

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Gross weight

130 kg Package dimensions 520*240*700 mm (L*W*H)

- Digital universal hardness tester NOVOTEST TB-BRV-D
- Rockwell indenter (Conical diamond indenter (120 °)
- Vickers indenter (Four-sided diamond pyramid (136 °)
- Brinell indenter (1.5875, 2.5, 5 mm diameter hard alloy steel balls 3 pcs. in total)
- Large testing table
- Medium testing table
- V-shaped testing table
- Movable testing platform
- Rockwell Hardness Test Blocks (HRC 2 pcs, HRB 1 pc. 3 pcs. in total)
- Brinell Hardness Test Block (1pc.)
- Vickers Hardness Test Block (1pc.)
- Bolt adjustor (4 pcs.)
- Power cable
- Fuse (2 pcs.)
- Operation manual
- Calibration certificate
- Transportation box

- Indenters (Brinell, Rockwell, Vickers)
- Standard hardness test blocks
- Microscope
- Large testing table
- Medium testing table
- V-shaped testing table
- Movable testing platform
- Bolt adjuster
- Fuse
- Power cable