



BANBROS ENGINEERING PVT. LTD.

The Precision Measurement People

DOLPHIN NOSE DIGITAL ROCKWELL & SUPERFICIAL HARDNESS TESTER WITH LCD TOUCH SCREEN



- **VALUE**
- **VERSATILITY**
- **PERFORMANCE**

BRSH-45-150NT



Description:

With Rockwell and superficial Rockwell test scale; Test force: 15 / 30 / 45 / 60 / 100 / 150kgf (initial test force: 3 / 10kgf) Automatic testing process: Automatic loading - Dwell - Unloading, and automatic display hardness value. With USB interface, test data can save to U-flash directly in Excel format. Easier calibration function ensure high accuracy of test result.

Features:

- With Rockwell & superficial Rockwell testing function.
- Nose mounted indenter allows access to awkward to reach test points (ring shape material, tubular material, etc). Minimum working diameter is 25mm.
- Touch-screen interface, English language, all test data can show on screen directly.
- Closed loop force application, load cell instead of dead weights, no need to install weights, working directly after connect with electric power.
- Semi-automatic type, premier test force load by manual, then mian load force loading by motor (loading main force, dwell, unload automatically), greatly improved working efficiency.
- Test force automatic correction, improve the accuracy of a force of magnitude
- All Rockwell scale, test result / hardness value (high, medium and low hardness value) can be automatically calibrated on screen.
- Operator can set up a password for the machine to protect setup parameters; Safely keep test informations and setted parameters.
- Test data can export to U disk in EXCEL format, for long time keep and easy editing and processing.
- Machine adopted modular design, easy maintenance.

Dolphin Nose Indenter (Nose mounted indenter) allows access to awkward to reach test points:

1. Ring shape material
2. Tubular material
3. Screw corner
4. Bearing corner, etc.



**Application:**

Industrial production, Inspection of product quality on processing technology. Ferrous and nonferrous metals, Hardened steel, tempered steel, annealed steel, hardened steel, sheet of various thicknesses, carbide materials, powder metallurgy materials, hardness and thermal spray coating.

Technical Specification:

Model No.	BRSH-45-150NT
Test force	60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N); Initial force: 10kgf (98N) 15kgf (147.1N) 30kgf (294.2N) 45kgf (441.3N); Initial force: 3kgf (29.4N)
Rockwell Scale	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV
Superficial Rockwell scale	15N, 15T, 15W, 15X, 15Y, 30N, 30T, 30W, 30X, 30Y, 45N, 45T, 45W, 45X, 45Y
Conversion scales	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
Rockwell Testing range	HRA:20-88 HRB:20-100 HRC:20-70 HRD:40-77 HRE:70-100 HRF:60-100 HRG:30-94 HRH:80-100 HRK:40-100 HRL:100-120 HRM:85-115 HRR:114-125
Superficial Rockwell test range	HR15N: 70-94, HR30N: 42-86, HR45N: 20-77 HR15T: 67-93, HR30T: 29-82, HR45T: 10-72
Dwell time	0-99s
Display of Hardness Value	Touch LCD screen
Test accuracy	0.1HR
Executive standard	BSEN 6508, ISO 6508, ASTM E18, GB/T230
Data output	USB flash disk (Excel format)
Power supply	AC220±5%, 50-60Hz
Test space	Max. Height: 300mm; Throat depth: 250mm
Machine size & N/W	720*260*840mm; 80kg



Standard Accessories:

Item Name	Q'ty	Item Name	Q'ty
Diamond Rockwell indenter	1 pc	Ø1.5875mm Ball indenter	1 pc
Hardness block (HRC high / low, HRB, HR15N, HR30N, HR30T)	6 pc	Large, medium, V-type working table	1 for each
USB flash disk	1 pc	Touch screen pen	1 pc
Fuse 2A	2 pc	Horizontal adjustment screw	4 pc
Power cable	1 pc	Product Certificate, warranty card, manual book	1 for each

Setting Max-Min limit

Hardness value calibration

Test force calibration