



# VERTEX

## Dolphin Nose Indenter Digital Touch Screen Twin Rockwell Hardness Tester Model:- DNRS-150



- With standard Rockwell and Superficial Rockwell hardness scales HRA, HRB, HRC, HR15T, etc. With hardness conversion function.
- Touch screen control, on touch screen can select test force and hardness scale directly.
- Close loop load cell structure, no need install dead weights, easy installation and operation.
- USB interface can save test data to U-flash directly in Excel format
- Test force 15/30/45/60/100/150kgf



**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.

**Indenter fixturing enables hardness tests on locations which are difficult to access:**



Measuring of the inner contact surface of a cardan shaft driver



Measuring of the inner contact surface of a bearing's outer ring



Measuring of the contact surface of a high strength screw



Preparation to measure inside of a gear box part

## APPLICATION RANGE:

1. Quality control of Industrial production (machinery manufacturing, metallurgy plants, etc.)
2. Research & Inspection of Inspection Institution and universities laboratories.
3. 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.



Inspection Institution



Test Laboratories



Industrial QC control

## SPECIFICATION:

<b>Model Name</b>	DNRS-150
<b>Test Force (error &lt; 0.5%)</b>	Rockwell Initial force: 10kgf (98N), main force: 60kgf (588.4N), 100kgf (980.7N), 150kgf (1471N); Superficial Rockwell Initial force: 3kgf (29.4N), main test force: 15kgf (147.1N) 30kgf (294.2N) 45kgf (441.3N)
<b>Rockwell Scale</b>	HRA, HRB, HRC, HRD, HRE, HRF, HRG, HRH, HRK, HRL, HRM, HRR, HRP, HRS, HRV
<b>Superficial Rockwell scale</b>	15N, 15T, 15W, 15X, 15Y, 30N, 30T, 30W, 30X, 30Y, 45N, 45T, 45W, 45X, 45Y
<b>Conversion Scales</b>	HRA, HRB, HRC, HRD, HRF, HV, HK, HBW, HR15N, HR30N, HR45N, HR15T, HR30T, HR45T
<b>Rockwell Testing range</b>	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
<b>Dwell Time</b>	0-99s
<b>Display</b>	Touch LCD screen
<b>Test Accuracy</b>	0.1HR
<b>Executive Standard</b>	BSEN 6508, ISO 6508, ASTM E18, GB/T230
<b>Data Output</b>	USB flash disk (Excel format)
<b>Power Supply</b>	AC220±5%, 50-60Hz
<b>Test Space</b>	Max. Height: 300mm; Throat depth: 250mm
<b>Machine Size</b>	720*260*840mm
<b>Net weight</b>	80kg

## PACKING LIST:

Name	Quantity	Name	Quantity
Diamond Rockwell indenter	1	Ø1.5875mm Ball indenter	1
Hardness block	5	Large, medium, V-type working table	1 for each
USB flash disk	1	Touch screen pen	1
Fuse 2A	2	Horizontal adjustment screw	4
Power cable	1	Product Certificate, warranty card, manual book	1 for each

Tester

Product Name

Radio of Curvature

Range  To

Hardness type

Conversion type  Conversion Value

Dwell Time(S)

Hardness value

Setting Max-Min limit

Calibration

Scale:

Standard hardness value; Measured;

Low

Medium

High

Hardness value calibration

Force Calibration

Standard:  kg

Measured:  kg

Test force calibration