

URNDT Hardtest-3C Advanced

Portable Hardness Tester



Advantages

- No.1 technology in the world 2016.
- Color display 320×240 TFT screen.
- Real time display HL value, and dual hardness scales display.
- Left and right both side sensor ports, can be used to select the suitable side by users' habit.
- Support hot plug, the probe can be set automatically and automatic recognition function.
- Rechargeable lithium battery. Continuous working more than 150 hours.
- Customized material, customer can add their own special materials into our hardness tester.
- Max 800 groups memory.

Features

- Color display (320×240 TFT) with adjustable backlight
- Converts to all common hardness scales (HV ,HB,HRC,HRB,HRA,HS), and real time display HL

value.

- Probe plug and test. Support hot plug, the probe can be set automatically and automatic recognition function.
- Built in high capacity rechargeable lithium battery and charging control circuit. Continuous working period of no less than 150 hours.
- Instrument with automatic sleep, automatic shutdown and other power saving features.
- Menu operating, the operation is easy and convenient.
- With USB interface can be convenient, fast data exchange and parameter settings.
- Equipped with 7 types of impact devices which need not to be recalibrated when changing them, the system can identify the type of impact device automatically.
- Max 800 groups (impact times:32~1) of data can be stored at internal non volatile data storage.
- Upper and lower limit of hardness can be preset; When the tested value exceeds the limits, alarm will send out automatically to make convenient for the requirements of batch measurements.
- Test values software calibration function.
- Material of “cast steel” is added; HB values can be read out directly when D/DC impact device is used to measure “cast steel” work piece.
- Thermal printer integrated, convenient for in field printing.
- Software of PC can be installed according to the requirements of user, the function will be more powerful to satisfy the more strict demands of quality control and management.



Menu

 Set Test	 Print	 Memory	 System
 Material	 DateTime	 CAL	 Version

BACK SELECT

Steel and Cast Steel 🔋

593 HL

326

↓ AVG
D HV

MAX= 341 MIN= 314

MATERIAL SCALE DIRECTION

View

No 001	804 HL	2012.01.01
No 002	57.6HRC	2016.03.03
No 003	57.2HRC	2016.03.03
No 004	780 HL	2016.03.11
No 005	581 HL	2016.04.15
No 006	594 HL	2016.04.15

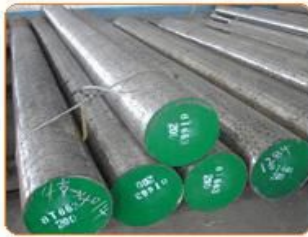
BACK DELETE SELECT

View

2016.04.15 15:52:29
Sensor Type:D
Steel and Cast Steel
Impact Dir:Down
Impact Times:5
Avg:594 HL

BACK DELETE

Various materials can be measured



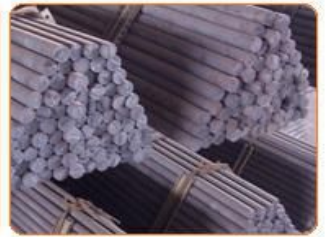
Die steel



Alloy tool steel



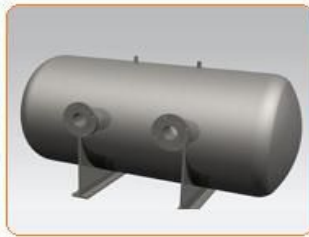
Stainless steel



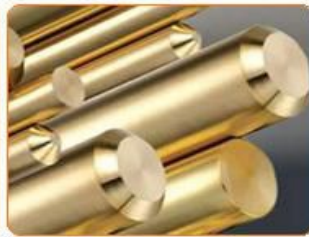
Gray cast iron



Ductile iron



Pressure vessel



Copper alloy



Valve

Main Application

- The assembled machinery and permanently installed parts
- Die cavity of molds
- Heavy work piece
- Failure analysis of pressure vessel, steam turbo-generator set and other equipment
- Narrow testing space where work piece installed
- Bearings and other parts
- Cases which require the test result with normalized original recording
- Material identification of the metal material warehouse
- Quick tests of large range and multipoint measuring positions for heavy workpiece



Testing Range

Material	Hardness method	Impact device					
		D/DC	D+15	C	G	E	DL
Steel and cast steel	HRC	17.9~68.5	19.3~67.9	20.0~69.5		22.4~70.7	20.6~68.2
	HRB	59.6~99.6			47.7~99.9		37.0~99.9
	HRA	59.1~85.8				61.7~88.0	
	HB	127~651	80~638	80~683	90~646	83~663	81~646
	HV	83~976	80~937	80~996		84~1042	80~950
	HS	32.2~99.5	33.3~99.3	31.8~102.1		35.8~102.6	30.6~96.8
Hammered steel	HB	143~650					
Cold work tool steel	HRC	20.4~67.1	19.8~68.2	20.7~68.2		22.6~70.2	
	HV	80~898	80~935	100~941		82~1009	
Stainless steel	HRB	46.5~101.7					
	HB	85~655					
	HV	85~802					
Gray cast iron	HRC						
	HB	93~334			92~326		
	HV						
Nodular cast iron	HRC						
	HB	131~387			127~364		
	HV						
Cast aluminum alloys	HB	19~164		23~210	32~168		
	HRB	23.8~84.6		22.7~85.0	23.8~85.5		
Brass(copper-zinc alloys)	HB	40~173					
	HRB	13.5~95.3					
Bronze (copper-aluminum/copper-tin alloys)	HB	60~290					
Wrought copper alloys	HB	45~315					

Standard Configuration

No.	Part Name	QTY.
1	Main unit	1
2	D type impact device	1
3	Small supporting ring	1
4	Nylon brush (A)	1

5	High value Leeb test block	1
6	Battery Charger (9V 1000mA)	1
7	Paper for printing	1
8	Communication cable	1
9	Data View Software	1
10	Operating manual in English	1

Product Showcase

