

# PORTABLE HARDNESS TESTER HARTIP 3000

**H**ARTIP 3000 is an advanced hand-held digital metal hardness tester with characters of high accuracy, wide measuring range and easy operation. It is suitable for testing the hardness of all metals especially on site for large structure or assembled components, which is widely used in the industry of power, petrochemistry, air space, vehicle, machine and so on.

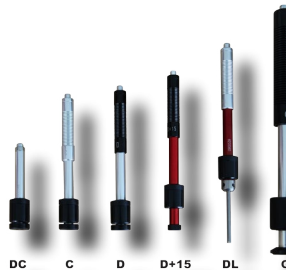
## Specifications



SADT HARTIP 3000			
<b>Principle</b>	Leeb hardness measurement	<b>Indicator</b>	Low battery
<b>Accuracy</b>	±0.5% @ HL=800 / ±4HL	<b>Communication</b>	RS232/USB to PC for transferring data
<b>Display</b>	Large graphic LCD with EL backlight	<b>Print</b>	RS232/USB to micro printer
<b>Hardness scale</b>	HL/HRC/HRB/HB/HV/HS	<b>Power supply</b>	1.5V AA battery x 4
<b>Measuring range</b>	HL200-960/ HRC19-70/ HRB13-109/ HB20-655/ HV80-1027/ HS31.9-102.8	<b>Working environment</b>	-10~+45°C
<b>Impact device</b>	D (Standard) DC/D+15/C/G/E/DL (Optional)	<b>Dimension (mm)</b>	195x84x38
<b>Materials</b>	9 common metal materials	<b>Net weight (g)</b>	550
<b>Memory</b>	960 data in 8 blocks, can be saved and re-readable	<b>Standards</b>	Conforming to ASTM A956, DIN 50156, GB/T 17394-1998
<b>Statistics function</b>	Average / Max. / Min. / S. value		

## KEY FEATURES

- + Wide measuring range: Rockwell B&C, Brinell, Vickers, Shore and HL
- + Automatic conversion to Brinell, Rockwell, Vickers and Shore
- + Test in any directions
- + Impact devices: D, DC, DL, C, D+15, E, G
- + All impact devices interchangeable
- + Menu operation
- + Large LCD display with backlight
- + RS232/USB interface to PC and micro-printer
- + Automatic mean, max., min. value display
- + Data management software



## Key Accessories

Special Support Rings	Size(mm)	Description
Z10-15 Z14.5-30 Z25-50	20x20x7.5 20x20x6.5 20x20x6.5	Cylindrical R10-15mm R14.5-30mm R25-50mm
HZ11-13 HZ12.5-17 HZ16.5-30	20x18x5 20x20x5 20x20x5	Hollow-cylindrical R11-13mm R12.5-17mm R16.5-30mm
K10-15 K14.5-30	Ø20x7.7 Ø20x6.7	Spherical R10-13mm R14.5-30mm
HK11-13 HK12.5-17 HK16.5-30	Ø17x5 Ø18x5 Ø20x5	Hollow-spherical R11-13mm R12.5-17mm R16.5-30mm
UN	Ø52x20x16	Universal

Optional Probes	
<b>D</b>	Universal standard unit. For the majority of hardness testing assignments.
<b>DC</b>	Extremely short impact device. Use in very confined spaces.
<b>DL</b>	Needle front section diameter 2.78mm, length 50mm. Measurements in extremely confined spaces.
<b>C</b>	Reduced impact energy. Test in surface hardened or impact sensitive components.
<b>D+15</b>	Particularly slim front section and with measuring coil moved back. Hardness measurements in grooves and on recessed surfaces.
<b>E</b>	Synthetic diamond test tip. For measurements in the extremely high hardness range.
<b>G</b>	Enlarged test tip, increased impact energy. For measurements in the Brinell range only. Use in solid components.

## Portable Hardness Tester

### Standard package

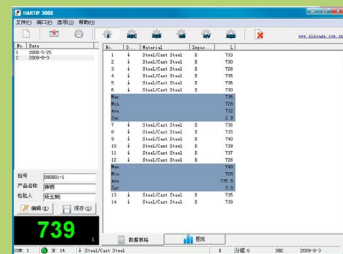
HARTIP 3000 main unit	1
Impact device type D	1
Small support ring	1
Test block D	1
Cleaning brush	1
Operation manual	1
Test Certificate	1
Carrying case	1

### Optional accessories

- Mirco-printer
- Connection cable to PC
- RS232-USB adaptor
- Data managing software
- Impact device D
- Impact device DC
- Impact device D+15
- Impact device G
- Impact device C
- Impact device DL
- Impact body D/DC
- Impact body D+15
- Impact body G
- Impact body C
- Impact body DL
- Test block G / D with certificate
- Test block D w/o certificate
- Special support rings
- Leather case



Mirco Printer for HARTIP3000/HARTIP2000



Software for HARTIP3000