

PORTABLE HARDNESS TESTER HARTIP 3000

HARTIP 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.

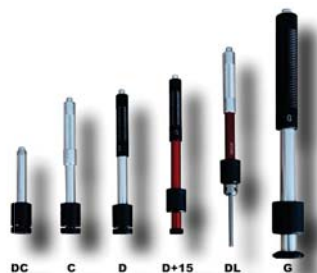


Specifications

SMT HARTIP 3000			
Principle	Leeb hardness measurement	Indicator	Low battery
Accuracy	±0.5% @ HL=800 / ±4HL	Communication	RS232/USB to PC for transferring data
Display	Large graphic LCD with EL backlight	Print	RS232/USB to micro printer
Hardness scale	HL/HRC/HRB/HB/HV/HS	Power supply	1.5V AA battery x 4
Measuring range	HL200-960/ HRC19-70/ HRB13-109/ HB20-655/ HV80-1027/ HS31.9-102.8	Working environment	-10~+45°C
Impact device	D (Standard) DC/D+15/C/G/E/DL (Optional)	Dimension (mm)	195x84x38
Materials	9 common metal materials	Net weight (g)	550
Memory	960 data in 8 blocks, can be saved and re-readable	Standards	Conforming to ASTM A956, DIN 50156, GB/T 17394-1998
Statistics function	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	Optional Probes	
Z10-15 Z14.5-30 Z25-50		20x20x7.5 20x20x6.5 20x20x6.5	Cylindrical R10-15mm R14.5-30mm R25-50mm	D	Universal standard unit. For the majority of hardness testing assignments.
HZ11-13 HZ12.5-17 HZ16.5-30		20x18x5 20x20x5 20x20x5	Hollow-cylindrical R11-13mm R12.5-17mm R16.5-30mm	DC	Extremely short impact device. Use in very confined spaces.
K10-15 K14.5-30		Ø20x7.7 Ø20x6.7	Spherical R10-13mm R14.5-30mm	DL	Needle front section diameter 2.78mm, length 50mm. Measurements in extremely confined spaces.
HK11-13 HK12.5-17 HK16.5-30		Ø17x5 Ø18x5 Ø20x5	Hollow-spherical R11-13mm R12.5-17mm R16.5-30mm	C	Reduced impact energy. Test in surface hardened or impact sensitive components.
UN		Ø52x20x16	Universal	D+15	Particularly slim front section and with measuring coil moved back. Hardness measurements in grooves and on recessed surfaces.
				E	Synthetic diamond test tip. For measurements in the extremely high hardness range.
				G	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