

UNIVERSAL ANGLE HARDNESS TESTER

HARTIP2000/HARTIP2000 D&DL™

Standard package

HARTIP 2000/2000 D&DL

HARTIP 2000 main unit	1
Impact device DU(for HARTIP2000)	1
Impact device DU&DL 2-in-1(for HARTIP2000 D&DL)	1
Test block D	1
Small support ring	1
Cleaning brush	1
Operation manual	1
Test certificate	1
Carrying case	1

Optional accessories

Bluetooth micro printer (powered by rechargeable battery)
RS232 microprinter(powered by rechargeable battery)
Special support rings
Standard big support ring for probe
Small support ring for probe
Impact body D
Carbide ball tip D(made in Switzerland)
Test block D with certificate
Test block D w/o certificate
Bluetooth module
Leather case with magnetism

HARTIP2000 is an innovative portable Leeb hardness tester with our new patent technology, which makes HARTIP 2000 a universal angle (UA) impact direction hardness tester. It is no need to set up impact direction when taking measurement by any angle. Therefore, HARTIP 2000 offers a linear accuracy comparing to the angle compensating method. HARTIP 2000 is also a cost saving hardness tester and has many other features.

HARTIP2000 D&DL is equipped with SADT unique DU and DL 2-in-1 probe. ●



Universal Angle

Advantages

- ✦ Universal impact direction mode, it does not need to setup different impact direction, just take measurement at any angle
- ✦ High accuracy: $\pm 2HL(0.3\% @ HL800)$
- ✦ Linear accuracy for any angles
- ✦ No need to setup impact direction
- ✦ No compensation for impact direction
- ✦ Dual values(Leeb value and one conversion value) can be displayed at the same screen
- ✦ Big LCD display with backlight
- ✦ Ten testing materials including forged steel,
- ✦ It has strength conversion value
- ✦ RS232 and blue tooth interface, it can connect micro-printer directly by cable or wireless
- ✦ 100 data for memory
- ✦ Customer re-calibration allowed
- ✦ Power off automatically
- ✦ More economic and more convenient to use

Specifications

SADT HARTIP 2000/HARTIP2000 D&DL	
Principle	Leeb hardness measurement
Accuracy	$\pm 0.3\% @ HL=800$, Repeatability: $\pm 2HL$
Display	Digital LCD with backlight
Hardness scale	HL/HRC/HRB/HV/HS/ob
Measuring range	HL170-960/ HRC17-69/ HRB13-101.7/ HB20-655/ HV80-940 / HS32-99.5 / ob(rm)255-2180N/mm ²
Impact device	DU (External) /DU-DL 2-in-1*
Impact direction	Universal angle (UA) type
Materials	10 common metal materials
Memory	100 data can be stored and re-readable
Statistics	Calculated automatically
Re-calibration	Allowed by user
Indicator	Low battery
Communication interface	RS232 to micro-printer Bluetooth (optional) to bluetooth micro-printer
Auto power off	Auto
Power supply	1.5V AA alkaline battery x 2
Working environment	-10~+40°C
Dimension (mm)	124x67x30
Net weight (g)	240
Standard	Conforming to ASTM A956, DIN 50156, GB/T 17394-1998

*: DU-DL 2-in-1 probe is only available for HARTIP2000 D&DL.