VERTEX

PORTABLE HARDNESS TESTER HL-1000

WITH STANDARD D PROBE

All Other Probes Are Optional:

Multiple Mode Display:

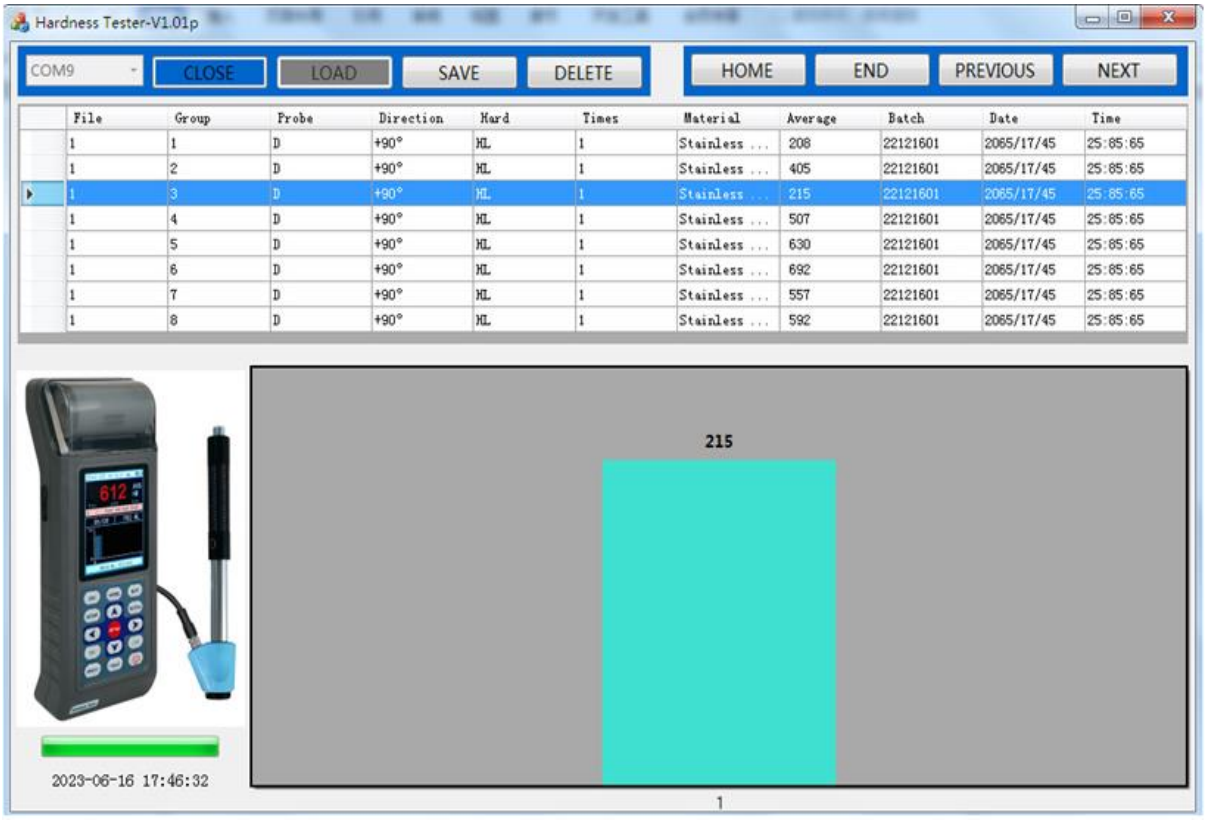
Bar graph display mode

Multiple hardness display modes

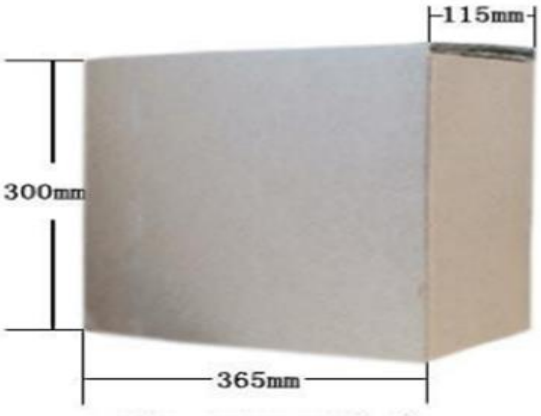
Impact curve display mode

Type-C Communication Interface:

Computer Software:



Packaging:



Weight：5.2KG（Standard configuration）

FEATURES:

- Multiple language switching between Simplified/Traditional Chinese, English, and German, with menu based operation
- Adopt a proprietary dual bin dustproof design to ensure that the main engine bin is not affected by dust;
- Type-c USB and RS485 communication interfaces can easily connect PCs, industrial control computers, or PLCs;
- The main interface displays two hardness scales.
- There are three modes switching on the main interface (histogram mode, full hardness mode, and curve mode).
- The production batch number setting function allows for self-numbering of measured workpieces, facilitating statistical recording.
- Browse for any hardness scale conversion of status measurement data, which is convenient and fast.
- It can be equipped with 7 different impact devices, which do not require recalibration during replacement and can automatically identify the type of impact device.
- Support the measurement of multiple hardness systems and three strength values.
- Built-in domestic and foreign hardness conversion tables to meet the different needs of customers.
- It can store 510 files, with 46 to 215 groups of single measurement values, average values, measurement dates, impact directions, times, materials, hardness system, and other information for each file (32 to 1 impact times).
- The upper and lower limits of hardness values can be set in advance, and automatic alarm will be given when the limit is exceeded, facilitating the needs of users for batch testing.
- Indication software calibration function.
- Built-in high-performance lithium battery and charging control circuit, with a battery capacity of 2000mA.
- Computer software can be equipped to support data query, storage, statistics, histogram display, and other functions, and stored in Excel format

Technical Specification:

Measuring Range	HLD(170~960), HRA(59~85), HRB（13 ~ 100), HRC（18 ~ 68), HB（19 ~ 655), HV（80 ~ 976), HS（32 ~ 100)
Hardness Scales	Leeb (HL), Brinell (HB), Rockwell A (HRA), Rockwell B (HRB), Rockwell C (HRC), Vickers (HV), and Shore (HS)
Measuring direction	360 ° (vertically downward, obliquely downward, horizontally, obliquely upward, vertically upward)
Measuring materials	steel and cast steel, alloy tool steel, stainless steel, gray cast iron, ductile iron, cast aluminum alloy, copper zinc alloy (brass), copper tin alloy (bronze), pure copper and forged steel
Standards	ASTM A956, DIN505156-1, GB/T17394-1998
Display	320 × 240 TFT LCD screen
Data storage	510 files, 46 to 215 groups (impact times 32 to 1)
Communication interface	USB2.0 (RS232, RS485)
Charging Power supply	5VDC，220VAC
Charging time	2-3hour
Work Voltage	7.4V，Li（2000mAh）Battery
Ambient temperature	0 ~ 40℃
Storage temperature	-25 ~ 70℃
Continuous Working Period	about 20 hours, and the standby time is 80 hours

Standard Accessories:

- Instrument host 1
- D-type impact device 1
- Small support ring 1
- Nylon brush (I) 1
- High value Leeb hardness block 1
- Charger 1
- Operation Manual 1

Optional:

- Various special-shaped impact devices
- Various special-shaped support rings