



LM330

Leeb Hardness Tester

LM330 Technical Specifications

Product Feature

- Pen type no cables design, Impact device and display screen integrated;
- The unique large-screen OLED color display (1.77 inch color TFT LCD screen) integrated hardness tester in the world;
- Interchangeable D impact device (standard) /DL impact device (optional) can achieve one unit dual use; can be used in the restricted area measurement;
- With battery compartment, battery can be replaced. Using standard AAA size alkaline battery;
- Automatically identify impact direction and gravity compensation;
- Easy operation, the four soft keys above the screen achieve the various functions;

Working Principle

A certain mass of impact body under the action of the spring force impact sample surface, the ratio of impact body 1 mm away from the sample surface of the rebound velocity V_b and impact velocity V_a is the Leeb hardness.

The formula is as follows:

$$HL = (V_b/V_a) \times 1000$$

Technical Parameter

Display Type	1.77 inch color TFT LCD screen
Hardness Scale	HL, HB, HRB, HRC, HV, HS, Strength ob
Measuring Range	HLD (200-960), HRC (19.8-68.5), HRB (13.5-100), HB (30-651), HV (80-976), HS (26.4-99.5), .σb. (375-2639)
Impact Device	D type impact device (Standard); Interchangeable DL type impact device (Optional)
Accuracy	Error < ±6HLD (HLD=800), Repeatability < 6HLD (HLD=800)
Measuring Direction	Support vertical downward, diagonal downward, horizontal, diagonal upward, vertical upward, full angle degree
Material	Steel & Cast Steel, Stainless Steel, GC IRON, NC IRON, Cast Aluminum alloy, Copper-zinc alloy, Copper-tin alloy, Brass, Forged Steel, Alloy Tool Steel
Resolution	1HL, 1HV, 1HB, 0.1HRB, 0.1HRC, 0.1HS, 1N/mm ²
Calibration	Automatic
Language	Chinese, English, Traditional Chinese, Spanish and Japanese
Data Memory	1000 groups ,each group includes 6 testing values and 1 average value
Communication	USB port, Used for charging or data transfer
Software	LmView software for transmission, storage, and printing
Power	Alkaline battery, AAA 1.5V, Warning under low power
Shut-off	Auto off after 3 minutes of inactivity
Temperature	-10℃~ +50℃
Net Weight	110g with D type impact device, 125g with DL type impact device
Size	150mm*46mm*23mm(with D type impact device), 204mm × 46mm × 23mm (with DL type impact device)
Standard	GB/T 17394-1998, ASTM A956 Standard

Instrument Configuration

Standard Configuration	LM330 Leeb Hardness Tester, D type impact device (Standard), Standard Leeb Hardness Block, Small Support Ring, Cleaning Brush, AAA Battery, USB Cable, Communication CD, Instrument Case, Operation Manual, Packaging List etc.
Optional Accessories	DL Connector, Leeb Hardness Block, Support Ring and Special Support Ring