

HST-L253 Multi-probe Leeb Hardness Tester



Support D\DL\DC\C four kinds of impact devices

Optional bluetooth wireless printer to quickly print measurement results

Double-coil digital probe, accurate measurement

Automatic switching of various hardness standards, eliminating the cumbersome manual table lookup

Built-in orientation sensor and 360-degree impact mitigation for the probe

HST-L253 is a split-type Leeb hardness tester. The probe and the host are connected by aviation plugs, and the host is capable of automatically identifying the impact device. The instrument adopts advanced digital double-coil probe technology, which provides precise measurement results and great interference-resistance. Providing a variety of hardness scales, such as Leeb scale (HL), Vickers scale (HV), Brinell scale (HB), Shore scale (HS), Rockwell scale (HRA/HRB/HRC), and they can make a mutual conversion to avoid cumbersome manual calculation. Besides the hardness, the instrument can measure the strength of the materials. For various measuring needs, the instrument may be fitted with four different impact devices, D, DC, DL, and C.

Application

HST-L253 Leeb hardness tester is suitable for testing the hardness of materials such as steel, cast steel, alloy steel, stainless steel, gray cast iron, ductile iron, cast aluminum alloy, copper-zinc alloy, copper-tin alloy, pure copper and forged steel. The instrument can be widely used in machine tool guides, automotive chassis, heavy workpieces, mold cavities, bearings, pressure vessels and installed machinery or assembly parts and can help manufacturers to carry out product quality inspection and reasonable process analysis.

Impact device selection

No	Impact type	Application
1	D	Ordinary metal parts
2	DC	Short size, suitable for internal holes or narrow areas (optional)
3	DL	Slender narrow groove, tooth flank or bottom of bore (optional)
4	C	Hardfacing and small or thin components (optional)

Parameter

Parameter	Value
Probe	Impact device D Impact device DC / Impact device DL/ Impact device C (optional)
Hardness Scales	HL, HV, HB, HS, HRA, HRB, HRC
Measurement Range	Impact device D/DC:HLD: (170-960); HV(83-976); HB(30-651); HRC(17.6-68.5); HS(26.4-99.5); HRB(13.5-100); HRA(60-85.8) Impact device DL:HLDL(170-960); HV(194-976); HB(140-651); HRC(19.8-68.5); HS(26.4-99.5); HRB(59.6-99.6); HRA(60-85.5) Impact device C:HLC(170-960); HV(80-996); HB(80-683); HRC(20-69.5); HS(31.9-102.3)
Resolution	1HL
Accuracy	±12 HL, ±6 HL (typical)
Repeatability	6HL (factory standard)
Display	240 * 16 dot matrix LCD
Power Supply	2 AA alkaline dry batteries
Host Size	142*72*28 mm
Probe Size	148*31*25 mm
Weight	247g
Working Temperature Range	-10~50℃, 0~85%RH (no condensation)
Storage Temperature Range	-10~60℃, 0~85%RH (no condensation)

Features

Free to match 4 kinds of impact devices.

Aviation plugs link the host and impact device, and one host may be freely matched with up to four impact devices to meet various measuring settings.

Equipped with Bluetooth APP

The instrument is connected to the mobile phone APP through Bluetooth to realize multiple sets of data storage, and the measurement data can be shared.

Double coil technology, high precision, good repeatability

Using advanced dual-coil technology, it has good measurement accuracy and repeatability

Built-in direction sensor, all-round impact compensation

The probe contains an integrated direction sensor that accomplishes 360° all-around worry-free measurement by automatically compensating measurement mistakes in various direction