HST-L252D Pen Leeb Hardness Tester

The HST-L252D is a state-of-the-art, palm-sized metal hardness tester that combines both the impact device and controller in a single compact unit—small enough to fit in your pocket. Featuring the latest dual-coil technology, it delivers outstanding measurement accuracy (±6 HL) and repeatability (6 HL). The built-in orientation sensors automatically correct measurement errors caused by different impact directions, ensuring consistently accurate data. The tester also includes a durable metal housing and a bright OLED display. Equipped with a D-type impact device, the HST-L252D is ideal for a wide range of testing applications—from polished parts and heat-treated surfaces to situations requiring high test volume. It also features USB charging and supports user re-calibration.

Application

The HST-L252D portable Leeb hardness tester is suitable for evaluating the hardness of a wide variety of metal materials, including 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. It's an ideal tool for use on machine tool guides, automotive chassis, heavy components, mold cavities,

bearings, pressure vessels, and installed or assembled machinery. This device helps manufacturers with efficient quality control and production process optimization._

Parameters

Parameters	Value
Probe	Impact device D
Hardness Scales	HL, HV, HB, HS, HRA, HRB, HRC
Measurement Range	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)
Resolution	1HL
Accuracy	±12 HL, ±6 HL typical
Repeatability	6HL (factory standard)
Display	128 * 64 dot matrix OLED
Powe Supply	Rechargeable lithium battery 3.7V@250mAh, full charge for over 5000 continuous measurements
Size	148*34*24 mm
Weight	About 68 g
Working Temperature Range	-10~50℃，0~85%RH（no condensation）
Storage Temperature Range	-10~60℃，0~85%RH（no condensation）