LM100

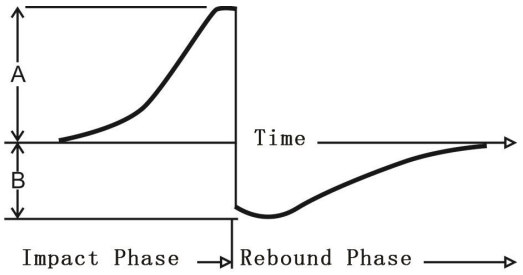
Leeb Hardness Tester

LM100 Technical Specifications

Working Principle

The impact body impacts into the work piece and rebounds back. The rebound and impact velocities are measured at the 1mm point from the work piece in the following way: the integrated permanent magnet will produce directly proportional voltage with the impact velocity. The Leeb hardness values are calculated by the following formula:

HL =1000 × VB/VA



Technical Parameter	
Measuring Method	**Leeb Hardness Method**
Hardness Scale	**HL, HB, HRB, HRC, HV, HS. σb.**
Measuring Range	**HLD (200-960) HRC（19.8-68.5） HB（30-651） HV（80-976） HS（26.4-99.5） HRB（13.5-100）.σb.(375-2639)**
Impact Device	**D type impact device standard, optional C/G/DC/DL/D+15**
Accuracy	**＜±6HLD (HLD=800), Repeatability ＜6HLD (HLD=800)**
Measuring Direction	**Vertically Downwards, Downward sloping, Horizontal, Upwardly sloping, Vertically Upwards.**
Material	**Steel& Cast Steel, Stainless Steel, GC IRON, NC IRON, Cast Aluminum alloy, Macht metal, Copper-tin alloy, Brass**
Resolution	**1HL, 1HV, 1HB, 0.1HRB, 0.1HRC, 0.1HS**
Display	**High Contrast Segment Liquid Crystal Display (LED Backlight)**
Data Memory	**100 groups (each group include 1-7 hardness values and 1 mean value)**
Communication	**USB port (standard) and Blue Tooth (optional)**
Printer	**Thermal Printer with Blue Tooth (optional)**
Power	**2AA batteries**
Temperature	**-10℃~ +50℃**
Size	**153mm*76mm*37mm （H×W×D)**
Weight	**280g include batteries**
Standard	**GB/T 17394-1998, ASTM A956**

Standard Packing	Optional Accessories
LM100 Main Unit	Impact Device: D/C/G/DC/DL/D+15
D Type Impact Device	Calibration Block
Standard HLD Calibration Block	Blue Tooth Module & Thermal Printer
Rubber Protective Sheath	Standard Support Ring
Small Support Ring	Small Support Ring
Cleaning Brush	Special Support Ring
2AA Batteries	Belt
USB Cable	
Communication Software	
Operating Manual	
Instrument Case	