SonoDur 3

LEEB Hardness testing

- SONO-D/SONO-G for heavy Components
- SonoDur3 – All in One – Rebound Hardness testing and UCI (Ultrasonic Contact Impedance)
- Reference-Scale is Vickers HV10 (Calibration is identical to UCI)
- Calculation of Vickers Hardness HV from L-Value (LD und LG measured according to ISO 16859)
- Conversion to other Hardness scales or tensile strength (EN ISO 18265-2014, ASTM-E 140-2013), EPRI-Standard-2020 (HV5/HV10 > HB)
- Immediately ready to measure, wireless data transfer
- Easy upgrade for each SonoDur3 (SonoDur L App)

LEEB Hardness testing

NewSonic

SonoDur 3

One instrument – all in one testing Leeb & UCI

Standard Package

Impact device, impact body, cleaning brush, USB-Charging cable, Power device

Leeb Hardness Blocks for different demands

No calibration certificate, MPA Calibration (two fold), factory certificate (from left)

Cast Iron here GJS-500
with single point adjustment
(analogue to UCI)

SONO-10HL
long rod probe for
complicated tasks

Technical Data

Testing method	Leeb Hardness Testing, automatic compensation of impact direction, 3 mm WoC (SONO-D), 5 mm WoC (SONO-G)
Impact energy	11 Nmm (SONO-D), 90 Nmm (SONO-G)
Hardness scales	L-Value > HV, conversions with EN ISO 18265-2014, ASTM-E140-2013 and EPRI HV5/HV10-2020
Measurement ranges	SONO-D: max. 940 HV, ca. 170 – 960 HLD SONO-G: max. 620 HV, ca. 300 – 720 HLG After surface hardening in general UCI is recommended (Ultrasonic Contact Impedance)!
Accuracy/ Repeatability	L-Value: ca. 0,3 % at HL = 800 Vickers: Tolerance < 4% / Repeatability < 5%
R/F Communication	Ca. 5 m / 2.4 GHz Bluetooth with SonoDur3
Operating time	> 8 h same as SonoDur3 – depending on operation mode
Power	3.7V Li-Ion battery, charging with USB Power Supply
Working Temperature	-10°C~+45°C
Dimensions	SONO-D: 148 x Φ 30 mm (Coil body) SONO-G: 290 x Φ 45 mm (Coil body)
Weight	SONO-D: 70 g SONO-G: 243 g
Standards	Corresponds to ASTM A956, ISO 16859, GB/T 17394