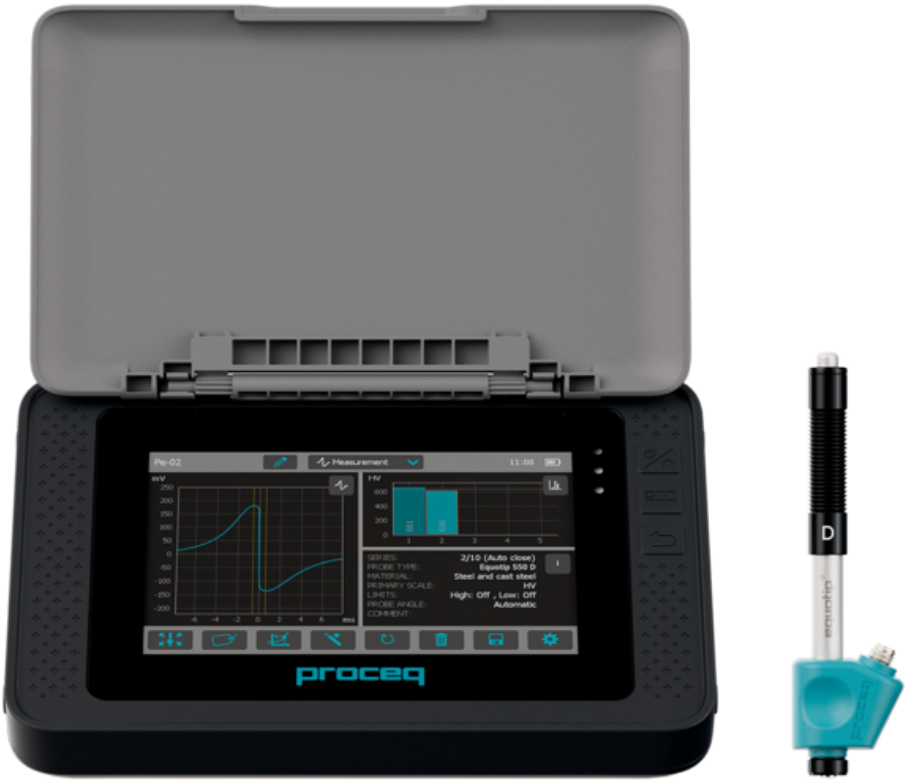

Hardness Testing

Equotip 550 Leeb

Highly robust and advanced Leeb measuring system

Reliability

The unmatched lifespan of probes and impact bodies, lasting four times longer than others on the market.

Productivity

Comes with the most complete probe portfolio, the broadest material conversion tables including Proceq's own research and world's widest standard conversion.

User Experience

Ready-to-go reports through powerful built-in reporting feature, along with fully customizable views, multiple wizards, and material selection assistant.

Equotip 550 Platform
Tech Specs

Equotip 550 Platform

Display	7” color capacitive touchscreen
Instrument protection	- IP54, fully rugged with shock absorbing casing, - Scratch-resistant Gorilla® Glass screen protection, - Circuit and connector protection against dust, debris, chemicals and voltage spikes - Foldable additional screen cover for additional protection during storage and transportation
Memory	Internal 8 GB flash memory (>1’000’000 measurements)
Combination with another testing method	UCI, Portable Rockwell (PRT)
Connectivity	Ethernet & USB-B (PC connection), USB-A (PRT), Probe-specific slots
Battery	3.6V, Li-Ion, 14’000 mAh
Battery lifetime	> 10h (in standard operating mode)
Charging time	< 9h, < 5.5 h (External quick charger)
Power input	12V +/- 25% / 1.5A
Dimensions	250 x 162 x 62 mm / 9.87 x 6.37 x 6.44 in
Weight	1’525 g / 3.35 lbs. (incl. battery)
Humidity operation	<95% RH, non-condensing
Operating temperature	(-) 10°C + 50°C / 14°F – 122°F
Certification	CE, KC, FCC
Equotip 550 Software Features	- Automatic compensation for impact direction (except DL probe) - Fully customizable reporting - Customizable views - Verification wizard - Measurement wizard - Mapping wizard - Integration in automated testing environments (incl. remote control) - Custom conversion curves (1-point, 2-point, polynomial) - Built-in pdf creator
Conversion curves applicable for materials	- Steel and cast steel - Work tool steel - Stainless steel - High alloy steel (Leeb D only: P/T91-92, 20Cr13, GH4145, C422, 630 grade, 616 grade) - Grey Cast Iron (Lamellar, Nodular) - Cast aluminium - Brass Cu/Zn Alloys - Wrought copper alloys
Languages	English, German, French, Italian, Spanish, Portuguese, Turkish, Chinese, Korean, Russian, Japanese, Polish, Czech
Regional settings	Metric and imperial units, multi-language and time-zone
Audio support	Full digital audio

Desktop Software (Windows)

PC Software	Equotip Link for data download, management and export (CSV, PNG), Conversion curve management, and for upgrades of constantly expanding Equotip and Equotip Link Software
Language support	English, Chinese, Czech,German, Spanish, French, Italian, Korean, Japanese, Polish, Portugese, Russian, Turkish

Instrument
Tech Specs

Native Scale	HLx (x=C, D, DC, DL, E, G, S)
Conversion scales	HB, HV, HRA, HRB, HRC, HS, MPA (σ1, σ2, σ3)
Measurement range	100-999 HLx
Indenter	Tungsten carbide (D, DC, DL, G, C), Polycristalline diamond (E), Silicon Nitride (S)
Impact energy / Test force	90 Nmm (G) 11 Nmm (D, DC, DL, S, E) 3 Nmm (C)
Accredited calibration	ISO/IEC 17025
Standard compliance	ASTM A956 DIN EN ISO 16859 GB/T 17394 JB/T 9378
Guidelines	ASME CRTD-91 ASTM A370 DGZfP Gudeline MC 1 VDI / VDE Gudeline 2616 Paper 1 Nordtest Technical Reports 99.12, 99.13, 99.36
Conversion standards	ASTM E140 ISO 18265 DL/T 1845 (Leeb D only) Proceq's own conversion curves
Measurement resolution	1 HLx/HV/HB; 0.1 HRC/HRB/HS 1 N/mm 2 (Rm)
Measuring accuracy	± 4 HLx (0.5% @850 HLx)
Measurement deviation (E)	Lower than DIN EN ISO 16859
Coefficient of variation (R)	Lower than DIN EN ISO 16859
Weight	57 g / 2 oz
Dimensions	41 mm x 20 mm x 147 / 1.61 in x 0.79 in x 5.79

Standards & Guidelines	Description
ASTM A 370	
ASTM A 956	
ASTM E 140	
DIN 50156	
DL/T 1845 (China)	People's Republic of China Power Industry Standard Test method for Leeb hardness of high-alloy steel for power equipment Test Method for Leeb Hardness of High-alloy Steels in Power Equipment Published by the National Energy Administration
GB/T 17394	
ISO 16859	
ISO 18265	
JB/T 9378	
ASME CRTD-91	
DGZfP Guideline MC 1	
Nordtest Technical Reports 424-1, 424-2, 424-3	
VDI / VDE Guideline 2616 Paper 1	