



## 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



## Instrument

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### Equotip 550 Platform

<b>Display</b>	7" color capacitive touchscreen
<b>Instrument protection</b>	<ul style="list-style-type: none"> <li>- IP54, fully rugged with shock absorbing casing,</li> <li>- Scratch-resistant Gorilla® Glass screen protection,</li> <li>- Circuit and connector protection against dust, debris, chemicals and voltage spikes</li> <li>- Foldable additional screen cover for additional protection during storage and transportation</li> </ul>
<b>Memory</b>	Internal 8 GB flash memory (>1'000'000 measurements)
<b>Combination with another testing method</b>	UCI, Portable Rockwell (PRT)
<b>Connectivity</b>	Ethernet & USB-B (PC connection), USB-A (PRT), Probe-specific slots
<b>Battery</b>	3.6V, Li-Ion, 14'000 mAh
<b>Battery lifetime</b>	> 10h (in standard operating mode)
<b>Charging time</b>	< 9h, < 5.5 h (External quick charger)
<b>Power input</b>	12V +/- 25% / 1.5A
<b>Dimensions</b>	250 x 162 x 62 mm / 9.87 x 6.37 x 6.44 in
<b>Weight</b>	1'525 g / 3.35 lbs. (incl. battery)
<b>Humidity operation</b>	<95% RH, non-condensing
<b>Operating temperature</b>	(-) 10°C + 50°C / 14°F – 122°F
<b>Certification</b>	CE, KC, FCC
<b>Equotip 550 Software Features</b>	<ul style="list-style-type: none"> <li>- Automatic compensation for impact direction (except DL probe)</li> <li>- Fully customizable reporting</li> <li>- Customizable views</li> <li>- Verification wizard</li> <li>- Measurement wizard</li> <li>- Mapping wizard</li> <li>- Integration in automated testing environments (incl. remote control)</li> <li>- Custom conversion curves (1-point, 2-point, polynomial)</li> <li>- Built-in pdf creator</li> </ul>
<b>Conversion curves applicable for materials</b>	<ul style="list-style-type: none"> <li>- Steel and cast steel</li> <li>- Work tool steel</li> <li>- Stainless steel</li> <li>- High alloy steel (Leeb D only: P/T91-92, 20Cr13, GH4145, C422, 630 grade, 616 grade)</li> <li>- Grey Cast Iron (Lamellar, Nodular)</li> <li>- Cast aluminium</li> <li>- Brass Cu/Zn Alloys</li> <li>- Wrought copper alloys</li> </ul>
<b>Languages</b>	English, German, French, Italian, Spanish, Portuguese, Turkish, Chinese, Korean, Russian, Japanese, Polish, Czech
<b>Regional settings</b>	Metric and imperial units, multi-language and time-zone
<b>Audio support</b>	Full digital audio
<b>Desktop Software (Windows)</b>	
<b>PC Software</b>	Equotip Link for data download, management and export (CSV, PNG), Conversion curve management, and for upgrades of constantly expanding Equotip and Equotip Link Software
<b>Language support</b>	English, Chinese, Czech, German, Spanish, French, Italian, Korean, Japanese, Polish, Portuguese, Russian, Turkish

<b>Native Scale</b>	HLx (x=C, D, DC, DL, E, G, S)
<b>Conversion scales</b>	HB, HV, HRA, HRB, HRC, HS, MPA ( $\sigma_1$ , $\sigma_2$ , $\sigma_3$ )
<b>Measurement range</b>	100-999 HLx
<b>Indenter</b>	Tungsten carbide (D, DC, DL, G, C), Polycrystalline diamond (E), Silicon Nitride (S)
<b>Impact energy / Test force</b>	90 Nmm (G) 11 Nmm (D, DC, DL, S, E) 3 Nmm (C)
<b>Accredited calibration</b>	ISO/IEC 17025
<b>Standard compliance</b>	ASTM A956 DIN EN ISO 16859 GB/T 17394 JB/T 9378
<b>Guidelines</b>	ASME CRTD-91 ASTM A370 DGZfP Guideline MC 1 VDI / VDE Guideline 2616 Paper 1 Nordtest Technical Reports 99.12, 99.13, 99.36
<b>Conversion standards</b>	ASTM E140 ISO 18265 DL/T 1845 (Leeb D only) Proceq's own conversion curves
<b>Measurement resolution</b>	1 HLx/HV/HB; 0.1 HRC/HRB/HS 1 N/mm 2 (Rm)
<b>Measuring accuracy</b>	$\pm 4$ HLx (0.5% @850 HLx)
<b>Measurement deviation (E)</b>	Lower than DIN EN ISO 16859
<b>Coefficient of variation (R)</b>	Lower than DIN EN ISO 16859
<b>Weight</b>	57 g / 2 oz
<b>Dimensions</b>	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	

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