



## Hardness Testing

# Equotip 550 UCI

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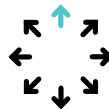
The leading Ultrasonic Contact Impedance measurement system with advanced capabilities

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### Efficiency

Efficiency to the power of 2 thanks to three loads in one single probe HV1, HV5, and HV10 and possible combination with Portable Rockwell and Leeb in one device.



### Productivity

Features with wizards, user guidance, personalised views, and on-screen feedback to reduce measurement inaccuracies that can be caused by the operator.



### User Experience

User guidance, smart material, and probe selection wizards, and ready-to-go reports facilitate even short measurement campaign.



## Equotip 550 Platform

### Tech Specs

### 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>	Leeb, 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>- Heat-Affected Zone (HAZ) mapping tool</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>- Aluminium</li> <li>- Titanium Ti 6Al 4V</li> <li>- Cast Iron</li> <li>- Incoloy 825 / 2.4858</li> <li>- 304L/1.4307</li> <li>- Alloy 75/2.4630</li> <li>- P/T91</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



## Instrument

### Tech Specs

<b>Native Scale</b>	HV(UCI)
<b>Conversion scales</b>	HLD, HB, HRC, HRA, HRB, HR15N, HR15T MPA ( $\sigma_1$ , $\sigma_2$ , $\sigma_3$ )
<b>Measurement range</b>	20-2000 HV
<b>Indenter</b>	ISO 6507-2 compliant, 136° Vickers diamond
<b>Impact energy / Test force</b>	HV1 (9.8 N), HV5 (49 N), HV10 (98N) in one probe
<b>Accredited calibration</b>	ISO/IEC 17025
<b>Standard compliance</b>	ASTM A1038 DIN 50159 GB/T 34205
<b>Guidelines</b>	ASTM A370 ASME CRTD-91 DGZfP Guideline MC 1 VDI / VDE Guideline 2616 Paper 1
<b>Conversion standards</b>	ASTM E140 ISO 18265 Proceq's own conversion curves
<b>Measurement resolution</b>	1 HV(UCI), 0.1 HRC
<b>Measuring accuracy</b>	± 2%
<b>Measurement deviation (E)</b>	Lower than DIN 50159 & GB/T 34205
<b>Coefficient of variation (R)</b>	Lower than DIN 50159 & GB/T 34205
<b>Weight</b>	245 g / 8.6 oz
<b>Dimensions</b>	155 x ø 40 mm (6.1 x ø 1.57 inches) without foot

Standards & Guidelines	Description
ASTM A 1038	
ASTM A 370	
ASTM E 140	
DIN 50159	
GB/T 34205-2017	
ISO 18265	
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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