



## Hardness Testing

# Equotip 550 Portable Rockwell

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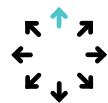
## Equotip 550 Portable Rockwell

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### Resolution & depth

The only portable measurement method that has practically no minimal thickness limitation - perfect for thin sheets of metals, any material.



### Versatility

Equally reliable, accurate and standardized but faster than stationary Rockwell hardness testers.



### User Experience

Material independent method - that can be combined with Leeb and UCI in one measurement device. One device - all applications.



## Equotip 550 Platform

### Tech Specs

### Equotip 550 Platform

<b>Display</b>	7" color capacitive touchscreen
	<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>Instrument protection</b>	
<b>Memory</b>	Internal 8 GB flash memory (>1'000'000 measurements)
<b>Combination with another testing method</b>	Leeb, UCI
<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
	<ul style="list-style-type: none"> <li>- Advanced algorithm option for faster measurements</li> <li>- Fully customizable reporting</li> <li>- Customizable views</li> <li>- Verification wizard</li> </ul>
<b>Equotip 550 Software Features</b>	<ul style="list-style-type: none"> <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> </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

### Desktop Software (Windows)

<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>	mm, HRC
<b>Conversion scales</b>	HLD, HV, HB, HRA, HRB, HRC, HR15N, MPA ( $\sigma_1, \sigma_2, \sigma_3$ )
<b>Measuring range</b>	10-100 $\mu$ m, 19-70 HRC, 35-1000 HV
<b>Indenter</b>	ASTM E3246 and DIN50157 compliant, 100° diamond
<b>Impact energy / Test force</b>	50 N (10N + 40 N)
<b>Accredited calibration</b>	ISO/IEC 17025
<b>Standard compliance</b>	ASTM A3246 DIN 50157
	ASTM A370 ASME CRTD-91 DGZFP Guideline MC 1 VDI / VDE Guideline 2616 Paper 1
<b>Guidelines</b>	
<b>Conversion standards</b>	ASTM E140 ISO 18265
<b>Measurement resolution</b>	0.1 $\mu$ m; 0.1 HRC; 1 HV
<b>Measuring accuracy</b>	$\pm 0.8 \mu$ m; $\sim \pm 1.0$ HRC over entire range
<b>Measurement deviation (E)</b>	Lower than DIN 50157 and ASTM E3246
<b>Coefficient of variation (R)</b>	Lower than DIN 50157 and ASTM E3246
<b>Weight</b>	264 g / 9.3 oz
<b>Dimensions</b>	$\varnothing$ 40 mm, Length 115 mm

Standards & Guidelines	Description
ASTM A 370	
ASTM E3246	This test method covers the determination of the Differential Indentation Depth hardness of metallic materials by the Differential Indentation Depth hardness principle. This standard provid...
DIN 50157	
DGZfP Guideline MC 1	
Nordtest Technical Reports 424-1, 424-2, 424-3	
VDI / VDE Guideline 2616 Paper 1	

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