Hardness Testing

Equotip 550 Portable Rockwell

Equotip 550 Portable Rockwell

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

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	Leeb, UCI
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	- Advanced algorithm option for faster measurements - 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
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	mm, HRC
Conversion scales	HLD, HV, HB, HRA, HRB, HRC, HR15N, MPA (σ1, σ2, σ3)
Measuring range	10-100 µm, 19-70 HRC, 35-1000 HV
Indenter	ASTM E3246 and DIN50157 compliant, 100° diamond
Impact energy / Test force	50 N (10N + 40 N)
Accredited calibration	ISO/IEC 17025
Standard compliance	ASTM A3246 DIN 50157
Guidelines	ASTM A370 ASME CRTD-91 DGZfP Gudeline MC 1 VDI / VDE Gudeline 2616 Paper 1
Conversion standards	ASTM E140 ISO 18265
Measurement resolution	0.1 µm; 0.1 HRC; 1 HV
Measuring accuracy	± 0.8 µm; ~ ± 1.0 HRC over entire range
Measurement deviation (E)	Lower than DIN 50157 and ASTM E3246
Coefficient of variation (R)	Lower than DIN 50157 and ASTM E3246
Weight	264 g / 9.3 oz
Dimensions	Ø 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 provides the requirements for Differential Indentation Depth hardness testing…
DIN 50157	
DGZfP Guideline MC 1	
Nordtest Technical Reports 424-1, 424-2, 424-3	
VDI / VDE Guideline 2616 Paper 1	