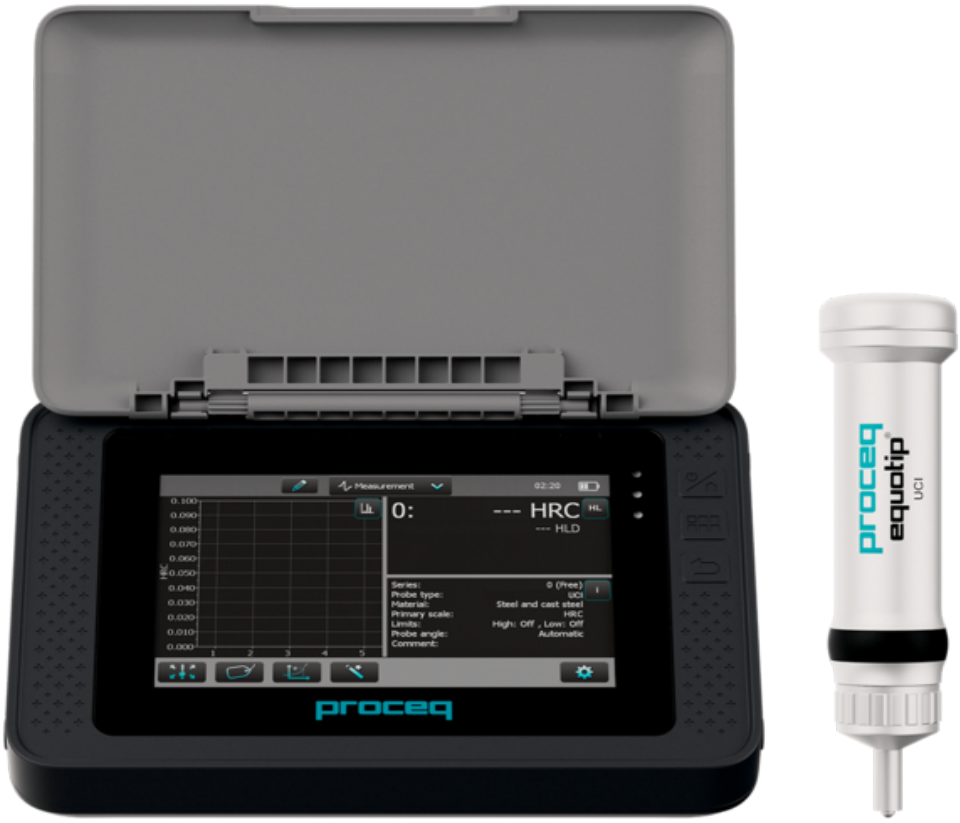

Hardness Testing

Equotip 550 UCI

The leading Ultrasonic Contact Impedance measurement system with advanced capabilities

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 through a powerful built-in reporting feature facilitate even short measurement campaign.

Software / Workspace App

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

Processing Unit / Sensor

Display	7” color rugged touchscreen unit (800 x 480 pixels) with dual core processor
Native Scale	HV (UCI)
Available Scales	HB, HV, HRA, HRB, HRC, HR15N, HR15T, MPA
Available Probes	UCI (Adjustable load HV1, HV5 and HV10)
Combination With Other Methods	Leeb, Portable Rockwell
Average Roughness Ra (µm / µinch)	12.5 / 500
Minimum Mass (kg / lbs)	0.3 / 0.66
Minimum Thickness (mm / inch)	5 / 0.2
Instrument Firmware	Automatic compensation for impact direction Personalized user profiles and views Integration in automated testing environments (incl. remote control) 11 Languages and timezones Measurement wizards Custom curve wizard Combined method wizard User guidance features Custom report features One-step calibration metric and imperial units support Profile view Heat Affected Zone (HAZ) line mapping
Connections	USB host / device and Ethernet
Measuring Range	20 - 2000 HV
Verification according to	ASTM A1038, DIN 50159, GB/T 34205-2017, custom method, combined method
Protection	IP54, fully rugged with shock-absorbing casing
Custom conversion curves	Yes, 1-point shift, 2-point, polynomial
Coefficient of variation	Significantly lower than the limits set in DIN 50159, ASTM A1038 & GB-T 34205-2017

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