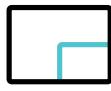




Hardness Testing

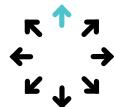
Equotip 550 UCI MOTO-03 & MOTO-08

The leading Ultrasonic Contact Impedance measurement system with advanced capabilities



Consistency

Ensure low and consistent test load, which significantly reduces your impact on the measurement



Adaptability

Calibrate with ease your probe to any material you want to test, thanks to advanced material calibration features



User Experience

Place, press, done. Use software to programme the penetration time to simulate the stationary Vickers testing device



Equotip 550 Platform

Tech Specs

Equotip 550 Platform

| | |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Display | 7" color capacitive touchscreen |
| Instrument protection | <ul style="list-style-type: none"> - 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 | <ul style="list-style-type: none"> - Heat-Affected Zone (HAZ) mapping 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 | <ul style="list-style-type: none"> - 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 |

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, Portuguese, Russian, Turkish |



Instrument

Tech Specs

| | |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Native Scale | HV(UCI) |
| Conversion scales | HLD, HB, HRC, HRA, HRB, HR15N, HR15T MPA (σ_1 , σ_2 , σ_3) |
| Measurement range | 40-1700 HV |
| Indenter | ISO 6507-2 compliant, 136° Vickers diamond |
| Impact energy / Test force | MOTO-03:HV0.3 (3N), MOTO-08 HV0.8 (7.8N) |
| Accredited calibration | Proceq's Laboratory Calibration (soon available with ISO 17025 accredited calibration) |
| Standard compliance | ASTM A1038 DIN 50159 GB/T 34205 |
| Guidelines | ASME CRTD-91 DGZfP Guideline MC 1 VDI / VDE Guideline 2616 Paper 1 |
| Conversion standards | ASTM A370 ASTM E140 ISO 18265 Proceq's own conversion curves |
| Recommended max surface roughness | Ra 0.8 (HV0.3), Ra 1.6 (HV0.8) |
| Measurement resolution | 1 HV(UCI), 0.1 HRC |
| Measuring accuracy | HV: ±3% |
| Measurement deviation (E) | Lower than DIN 50159, GB/T 34205, & ASTM A1038 |
| Coefficient of variation (R) | Lower than DIN 50159 & GB/T 34205 |
| Weight | 618 g / 21.8 oz |
| Dimensions | 234 x Φ 46 mm (9.21 x Φ 1.81 inches) with 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 | |

SWISS MADE



Present in +100 countries, we serve inspectors and engineers all over the world with the most comprehensive range of InspectionTech solutions, combining intuitive software and Swiss-manufactured sensors.
www.screeningeagle.com

Request a quote

