



Hardness Testing

Equotip 550 Leeb

Highly robust and advanced Leeb measuring system



Reliability

The unmatched lifespan of probes and impact bodies, lasting four times longer than others on the market.



Productivity

Comes with the most complete probe portfolio, the broadest material conversion tables including Proceq's own research and world's widest standard conversion.



User Experience

Ready-to-go reports through powerful built-in reporting feature, along with fully customizable views, multiple wizards, and material selection assistant.



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 | UCI, 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">- Automatic compensation for impact direction (except DL probe)- 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- Work tool steel- Stainless steel- High alloy steel (Leeb D only: P/T91-92, 20Cr13, GH4145, C422, 630 grade, 616 grade)- Grey Cast Iron (Lamellar, Nodular)- Cast aluminium- Brass Cu/Zn Alloys- Wrought copper alloys |
| 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 | HLx (x=C, D, DC, DL, E, G, S) |
| Conversion scales | HB, HV, HRA, HRB, HRC, HS, MPA (σ_1 , σ_2 , σ_3) |
| Measurement range | 100-999 HLx |
| Indenter | Tungsten carbide (D, DC, DL, G, C), Polycrystalline diamond (E), Silicon Nitride (S) |
| Impact energy / Test force | 90 Nmm (G) 11 Nmm (D, DC, DL, S, E) 3 Nmm (C) |
| Accredited calibration | ISO/IEC 17025 |
| Standard compliance | ASTM A956 DIN EN ISO 16859 GB/T 17394 JB/T 9378 |
| Guidelines | ASME CRTD-91 ASTM A370 DGZFP Guideline MC 1 VDI / VDE Guideline 2616 Paper 1 Nordtest Technical Reports 99.12, 99.13, 99.36 |
| Conversion standards | ASTM E140 ISO 18265 DL/T 1845 (Leeb D only) Proceq's own conversion curves |
| Measurement resolution | 1 HLx/HV/HB; 0.1 HRC/HRB/HS 1 N/mm 2 (Rm) |
| Measuring accuracy | \pm 4 HLx (0.5% @850 HLx) |
| Measurement deviation (E) | Lower than DIN EN ISO 16859 |
| Coefficient of variation (R) | Lower than DIN EN ISO 16859 |
| Weight | 57 g / 2 oz |
| Dimensions | 41 mm x 20 mm x 147 / 1.61 in x 0.79 in x 5.79 |

| Standards & Guidelines | Description |
|---|--|
| ASTM A 370 | |
| ASTM A 956 | |
| ASTM E 140 | |
| DIN 50156 | |
| DL/T 1845 (China) | People's Republic of China Power Industry Standard Test method for Leeb hardness of high-alloy steel for power equipment Test Method for Leeb Hardness of High-alloy Steels in Power Equipment Published by the National Energy Administration |
| GB/T 17394 | |
| ISO 16859 | |
| ISO 18265 | |
| JB/T 9378 | |
| 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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