Z-CHECK CORPORATION
35560 Grand River Ave, #420
Farmington Hills, MI 48335
P: 248-676-1007 / E: sales@z-checkcorp.com
Website: www.z-checkcorp.com

proceq
Solutions since 1954

# equotip®

## Portable Hardness Testing
## Leeb – Rockwell – UCI

ASTM | DIN | EN | ISO | GB/T | JB/T

Interactive

## Measuring Performance

- High accuracy
- Custom conversions
- Combined methods

## Powerful Hardware

- Rugged housing
- High capacity battery
- Versatile connectivity

## Ease of Use

- Large touchscreen
- Personalized views
- Custom reports

# equotip®

## The All-In-One Portable Hardness Testing Solution

**Leeb**

Find out more
(Page 5)

**Portable Rockwell**

Find out more
(Page 7)

**UCI**

Find out more
(Page 9)

# Covering Broad Application Range

| | Leeb | Portable Rockwell | UCI |
|---|---|---|---|
| | Dynamic Rebound | Static Rockwell | Ultrasonic Contact Impedance Method |
| Av. Roughness $R_a$ (µm / µinch) | 7 / 275 | 2 / 80 | 12.5 / 500 |
| Min. Mass (kg / lbs) | 0.02 / 0.045 | No requirement | 0.3 / 0.66 |
| Min. Thickness (mm / inch) | 1 / 0.04 | 10 x ind. depth | 5 / 0.2 |

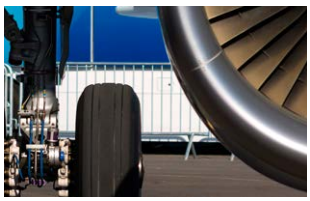
## Oil & Gas

| | Leeb | Portable Rockwell | UCI |
|---|---|---|---|
| Weld, Base Material & HAZ | ○ | | ● |
| Pressure Vessels | ○ | ● | ○ ● |
| Flanges | ● | ○ | ● ○ ● |
| Pipes | ○ | ● | ○ ● |
| Wellhead Equipment | ○ | ● | ○ ● |

## Automotive

| | Leeb | Portable Rockwell | UCI |
|---|---|---|---|
| Engine Blocks | ● | | |
| Shafts | ● | ● | ● |
| Panels | ○ | ● | ○ |
| Gears | ● | | ● |
| Brake Systems | ○ | ● | ○ |

## Aerospace



| | Leeb | Portable Rockwell | UCI |
|---|---|---|---|
| Turbine Blades | | ● | ○ ● |
| Casings / Housings | | ● | |
| Panels | | ● | |
| Cast Objects | ● | | |
| Landing Gears | ● | | |

## Manufacturing and Machinery

| | Leeb | Portable Rockwell | UCI |
|---|---|---|---|
| Rolls | ● | ● | |
| Coils | ● | ● | ● |
| Bars / Pipes | ● | | ● |
| Heat Treatment / Casting | ● | | |
| Wires | | ● | |

**Combining methods**
Extends the application range to confined spaces, non-ideal samples and for correlating one method with another.

Leeb & Portable Rockwell ○

UCI & Portable Rockwell ○

# Equotip® 550 Touchscreen Unit
# Unique Features

Equotip 550 takes advantage of a new generation full color, dual processor Touchscreen Unit with enhanced software capabilities. The instrument offers a unique range of functions which ultimately help speed up on-site and laboratory inspections and analysis.

**Best-in-class reliability arising from 40 years of experience**

Equotip solutions are recognised worldwide for providing best-in-class durability, high long-term accuracy and premium service.

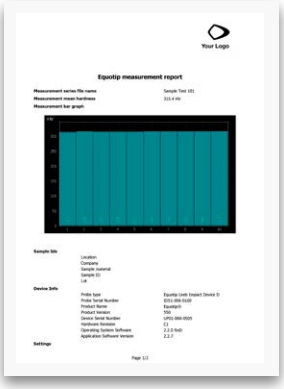
**Increased accuracy through conversion curve options**

Select from preloaded established conversions. Create, edit and verify material conversion curves directly on the instrument (one-point, two-point shift or polynomial). PC software allows to share conversions with customers, suppliers and associated companies.

**Reduce incorrect measurements with interactive guides**

Intelligent on-screen notifications to obtain the most relevant settings for any application and to recognize and prevent faulty usage.

**Time saving through customized reports**




The Equotip 550 allows to easily create pdf reports on-site directly on the instrument and export to a USB stick.

The reports can be fully configured and enhanced with customer specific information and company logo.

# Equotip® 550 Touchscreen Unit
# Unique Features

**Traceable precision by verification management**

Step by step verification wizard in line with applicable standards helps to regularly check the proper functioning of the instrument over time.

**Optimized production process with automation package**

Comprehensive software tools and libraries help to easily include the Equotip 550 into existing production chains. Feed the measurement results directly into data management systems.

**Reduced costs due to a future proof all-in-one solution**

The high versatile Equotip 550 gives the possibility to apply three measuring principles and to connect nine different probes to only one device. There is no need to buy several instruments from now on.

**Enlarged application range by combining methods**

The step by step combined method wizard allows automatic on-site correlation of two different measuring principles to reduce dependencies on material and geometries.

# Equotip® 550 Touchscreen Unit
# Unmatched User Experience

**Touchscreen Features**
For simplified and improved usability on high resolution display

**Personalized Screens**
Arrange the view according to your needs

**Elaborated User Interface**
Designed by industry experts for smooth operation

| | | | |
|---|---|---|---|
| Display | 7” color display 800x480 pixels | Battery | 3.6 V, 14.0 Ah |
| Memory | Internal 8 GB flash memory | Battery Lifetime | > 8 h (in standard operating mode) |
| Regional Settings | Metric and Imperial units, multi-language and timezone supported | Humidity | < 95 % RH, non condensing |
| | | Operating Temperature | -10 °C to +50 °C |
| Power Input | 12 V +/-25 % / 1.5 A | | |
| Connectors | Probe, USB host / device and Ethernet | IP | 54 |
| Dimensions | 250 x 162 x 62 mm | Certification | CE |
| Weight | 1525 g (incl. Battery) | | |

# Proceq – A Story of Success over more than 60 Years

## Market Leader

Proceq SA, founded 1954 in Switzerland, is the global leader in portable measurement solutions for the non-destructive testing of material properties of metal, concrete, rock, paper and composites.

**Find out more on the Proceq history**

## Worldwide Local Support

Our team of dedicated experts are available to advise you on our instruments and their applications. In addition you may take further benefits from our instructional videos, evaluation tools, online webinars and of course our live seminars globally.

## Swiss Made

Proceq instruments are developed, designed and manufactured in Switzerland. Since 1994, Proceq has been certified to the ISO 9001 standards that guarantee highest quality of processes, products and services.

## Experience

Proceq has been a proud innovator in the field of portable non-destructive testing, developing solutions that have conquered the inspection industry for decades. Most famous brands are Equotip®, Schmidt®, Pundit®, Profometer® and Carboteq®.

## New Equotip 550 Interactive Animation

Simulate a real measurement situation right now! Get an insight into the software features, unique user interface and innovative wizards!

**Click here to start the interactive Equotip Demo!**

## Overcome the limitations of stationary hardness testing

- 100% portable and extremely flexible
- No interruptions in production due to 24h availability
- Equally reliable, accurate and standardized

# Ordering Information

Contact us for an on-site demo

## Prepacked Units

All units include: Equotip Touchscreen incl. Battery, Power Supply, USB Cable, Surface Roughness Comparator Plate, DVD with Software, Documentation, Carrying Strap and Carrying Case

| Equotip® 550 | Equotip® 550 Leeb D | Equotip® 550 Leeb G | Equotip® 550 Portable Rockwell | Equotip® 550 UCI |
|---|---|---|---|---|
| 356 10 001 | 356 10 002 | 356 10 003 | 356 10 004 | 356 10 005 |
| | | | | |
| For flexible probe configuration and for existing owners of Equotip and Equostat 3 probes | Additionally includes Equotip Leeb Impact Device D, Impact Device Cable, Test Block ~775 HLD / ~56 HRC, Coupling Paste, Cleaning Brush | Additionally includes Equotip Leeb Impact Device G, Impact Device Cable, Test Block ~570 HLG / ~340 HB, Coupling Paste, Cleaning Brush | Additionally includes Equotip Portable Rockwell Probe 50 N, Protective Rubber Sleeve, Probe Cable, Test Block ~62 HRC | Additionally includes Equotip UCI Probe HV1-HV5, UCI Probe Cable, UCI Test Block ~850 HV |

| 2-in-1 Kits Special Offers | |
|---|---|
| | 356 10 020: Equotip 550 Portable Rockwell & UCI Kit<br>356 10 021: Equotip 550 Portable Rockwell & Leeb D Kit<br>356 10 022: Equotip 550 Leeb D & UCI Kit |

## Impact Devices & Probes

| Equotip Leeb Impact Devices | |
|---|---|
| 356 00 500 | Equotip Leeb Impact Device C |
| 356 00 100 | Equotip Leeb Impact Device D |
| 356 00 110 | Equotip Leeb Impact Device DC |
| 356 00 120 | Equotip Leeb Impact Device DL |
| 356 00 400 | Equotip Leeb Impact Device E |
| 356 00 300 | Equotip Leeb Impact Device G |
| 356 00 200 | Equotip Leeb Impact Device S |

| Equotip Portable Rockwell Probe | |
|---|---|
| 356 00 600 | Equotip Portable Rockwell Probe 50N (for Equotip 550 or PC) |

| Equotip UCI Probe | |
|---|---|
| 356 00 700 | Equotip UCI Probe HV1-HV5 |

## Accessories

| Equotip Leeb Accessories | |
|---|---|
| 353 03 000 | Set of Support Rings |
| 356 00 080 | Equotip Impact Device Cable 1.5 m (5 ft) |
| 353 00 086 | Equotip Impact Device Cable 5 m (15 ft) |

| Equotip Portable Rockwell Accessories | |
|---|---|
| 354 01 200 | Equotip Portable Rockwell Measuring Clamp |
| 354 01 130 | Equotip Portable Rockwell Tripod |
| 354 01 250 | Equotip Portable Rockwell Special Foot RZ 18 - 70 |
| 354 01 253 | Equotip Portable Rockwell Special Foot RZ 70 - f |
| 354 01 243 | Equotip Portable Rockwell support Z2 for measuring clamp |
| 354 01 229 | Equotip Portable Rockwell Support Z4+28 for measuring clamp (for tubes and pipes over Ø 28 mm) |
| 354 01 228 | Equotip Portable Rockwell support Z4 for measuring clamp (for tubes and pipes up to Ø 28 mm) |

| Equotip UCI Accessories | |
|---|---|
| 356 00 720 | Equotip UCI Special Foot |

# Ordering Information

## Test Blocks

| Equotip Leeb Test Blocks Calibrated by Proceq | |
|---|---|
| 357 11 500 | Equotip Test Block C, ~565 HLC / <220 HB |
| 357 12 500 | Equotip Test Block C, ~665 HLC / ~325 HB |
| 357 13 500 | Equotip Test Block C, ~835 HLC / ~56 HRC |
| 357 11 100 | Equotip Test Block D/DC, <500 HLD / <220 HB |
| 357 12 100 | Equotip Test Block D/DC, ~600 HLD / ~325 HB |
| 357 13 100 | Equotip Test Block D/DC, ~775 HLD / ~56 HRC |
| 357 13 105 | Equotip Test Block D/DC, ~775 HLD, one side |
| 357 11 120 | Equotip Test Block DL, <710 HLDL / <220 HB |
| 357 12 120 | Equotip Test Block DL, ~780 HLDL /~325 HB |
| 357 13 120 | Equotip Test Block DL, ~890 HLDL / ~56 HRC |
| 357 13 400 | Equotip Test Block E, ~740 HLE / ~56 HRC |
| 357 14 400 | Equotip Test Block E, ~810 HLE / ~63 HRC |
| 357 31 300 | Equotip Test Block G, <450 HLG / <200 HB |
| 357 32 300 | Equotip Test Block G, ~570 HLG / ~340 HB |
| 357 13 200 | Equotip Test Block S, ~815 HLS / ~56 HRC |
| 357 14 200 | Equotip Test Block S, ~875 HLS / ~63 HRC |

| Equotip Portable Rockwell Test Blocks | |
|---|---|
| 357 41 100 | Equotip Portable Rockwell Test Block ~20 HRC, ISO 6508-3 HRC Calibration |
| 357 42 100 | Equotip Portable Rockwell Test Block ~45 HRC, ISO 6508-3 HRC Calibration |
| 357 44 100 | Equotip Portable Rockwell Test Block ~62 HRC, ISO 6508-3 HRC Calibration |

| Equotip UCI Test Blocks | |
|---|---|
| 357 51 100 | Equotip UCI Test Block ~300HV, ISO 6507-3 HV5 Calibration |
| 357 52 100 | Equotip UCI Test Block ~550HV, ISO 6507-3 HV5 Calibration |
| 357 54 100 | Equotip UCI Test Block ~850HV, ISO 6507-3 HV5 Calibration |

## Additional Test Block Calibrations

| Factory Calibrations by Proceq | |
|---|---|
| 357 10 109 | Equotip Leeb Test Block Additional Calibration HLD / HLDC |
| 357 10 129 | Equotip Leeb Test Block Additional Calibration HLDL |
| 357 10 209 | Equotip Leeb Test Block Additional Calibration HLS |
| 357 10 409 | Equotip Leeb Test Block Additional Calibration HLE |
| 357 10 509 | Equotip Leeb Test Block Additional Calibration HLC |
| 357 30 309 | Equotip Leeb Test Block Additional Calibration HLG |

| By Accredited Institutes | |
|---|---|
| 357 90 909 | Equotip Leeb Test Block Additional Calibration HL (DIN 50156-3) |
| 357 90 919 | Equotip Leeb Test Block Additional Calibration HB (ISO 6506-3) |
| 357 90 929 | Equotip Leeb Test Block Additional Calibration HV (ISO 6507-3) |
| 357 90 939 | Equotip Leeb Test Block Additional Calibration HR (ISO 6508-3) |

| By Accredited Institutes | |
|---|---|
| 357 90 918 | Equotip Portable Rockwell Test Block Additional Calibration HB (ISO 6506-3) |
| 357 90 928 | Equotip Portable Rockwell Test Block Additional Calibration HV (ISO 6507-3) |

| By Accredited Institutes | |
|---|---|
| 357 90 940 | Equotip UCI Test Block Additional Calibration HB, ISO 6506-3 |
| 357 90 941 | Equotip UCI Test Block Additional Calibration HR, ISO 6508-3 |
| 357 90 942 | Equotip UCI Test Block Additional Calibration HV1, ISO 6507-3 |

## Service and Support

Proceq is committed to providing the best support and service available in the industry through the Proceq certified service centers worldwide. This results in a complete support for Equotip by means of our global service and support facilities.

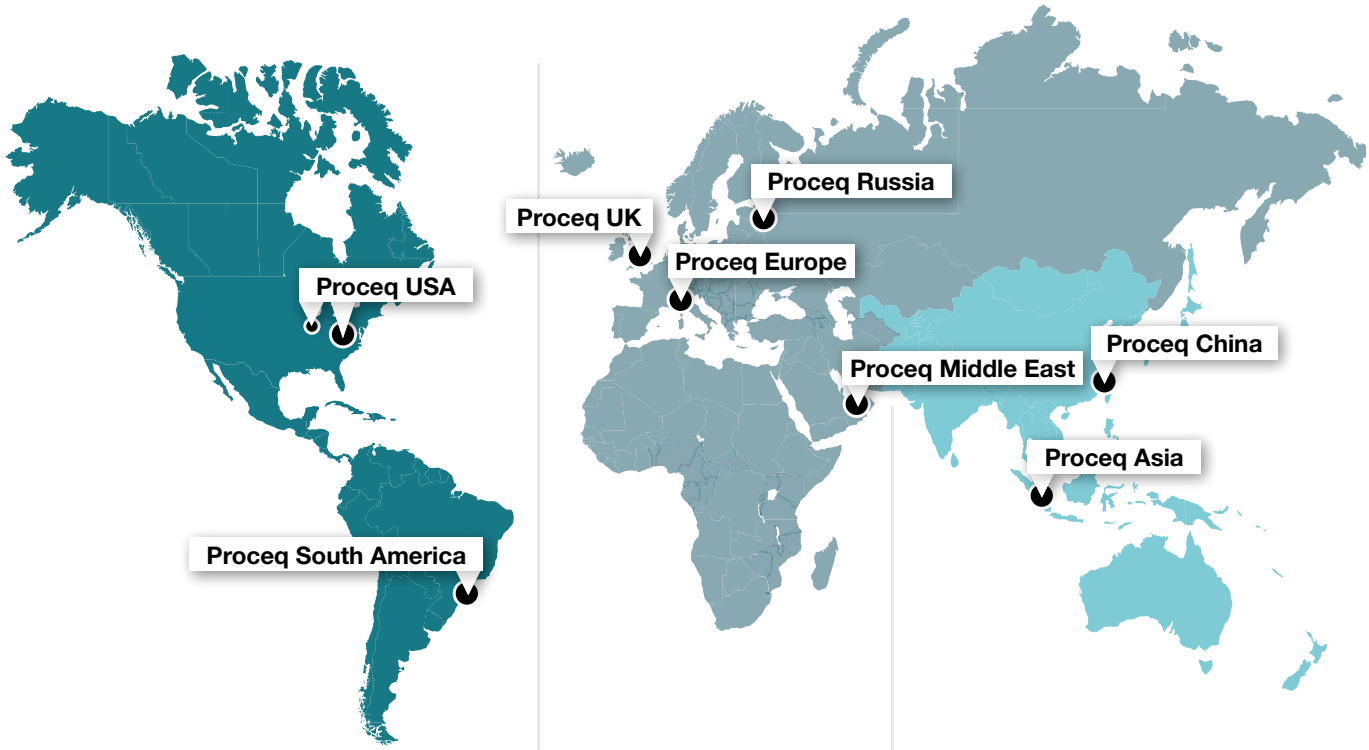
## Warranty Information

Each instrument is backed by the standard Proceq warranty and extended warranty options.

» Electronic portion of the instrument: 24 months
» Mechanical portion of the instrument: 6 months

Subject to change without notice. All information contained in this documentation is presented in good faith and believed to be correct. Proceq SA makes no warranties and excludes all liability as to the completeness and/or accuracy of the information. For the use and application of any product manufactured and/or sold by Proceq SA explicit reference is made to the particular applicable operating instructions.

Click on the Proceq subsidiaries for more information




**Proceq USA**
Aliquippa, Pittsburgh, USA
Phone +1 724 512 0330
Fax +1 724 512 0331
info-usa@proceq.com

Gurnee, Chicago, USA
Phone +1 847 623 9570
Fax +1 847 623 9580
info-usa@proceq.com

**Proceq South America**
São Paulo, Brasil
Phone +55 11 3083 38 89
info-southamerica@proceq.com

**Proceq Europe**
Schwerzenbach, Switzerland
Phone +41 43 355 38 00
Fax +41 43 355 38 12
info-europe@proceq.com

**Proceq UK**
Bedford, UK
Phone +44 12 3483 4515
info-uk@proceq.com

**Proceq Russia**
St. Petersburg, Russia
Phone +7 812 448 35 00
Fax +7 812 448 35 00
info-russia@proceq.com

**Proceq Middle East**
Sharja, United Arab Emirates
Phone +971 6 557 8505
Fax +971 6 557 8606
info-middleeast@proceq.com

**Proceq Asia**
Singapore
Phone +65 6382 3966
Fax +65 6382 3307
info-asia@proceq.com

**Proceq China**
Shanghai, China
Phone +86 21 63177479
Fax +86 21 63175015
info-china@proceq.com

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Z-CHECK CORPORATION
35560 Grand River Ave, #420
Farmington Hills, MI 48335
P: 248-676-1007 / E: sales@z-checkcorp.com
Website: www.z-checkcorp.com

**Proceq SA**
Ringstrasse 2
8603 Schwerzenbach
Switzerland

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