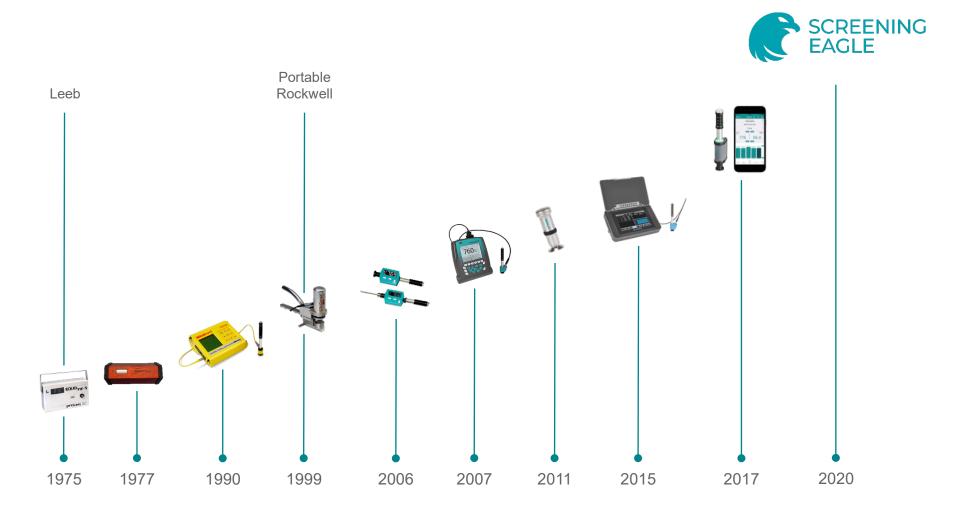


Revolutionizing Hardness Testing



All started with the invention of Leeb



- Invention of the first rebound metal hardness tester by M. Brandestini (left) and D. Leeb (right)
- Success story across different industries
- Advantages are highly appreciated
- Portable Hardness Testing portfolio was continuously extended
- With over 40 years of experience and offering the most complete portable hardness testing portfolio we are very well positioned in the market



Hardness Testing

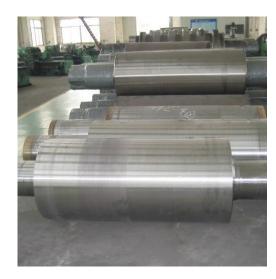


Incoming inspection



Metalworking industry

Process control



Heat-treatment and processing shops

On-site inspection

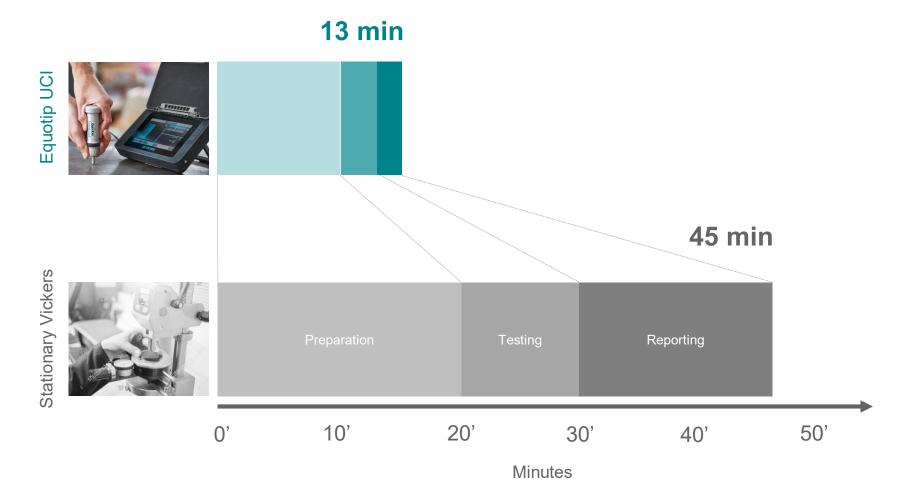


Inspection companies

Spotlight: Portable vs. Stationary



10 (Portable) resp. 5 (Stationary) hardness measurements on a steel bar



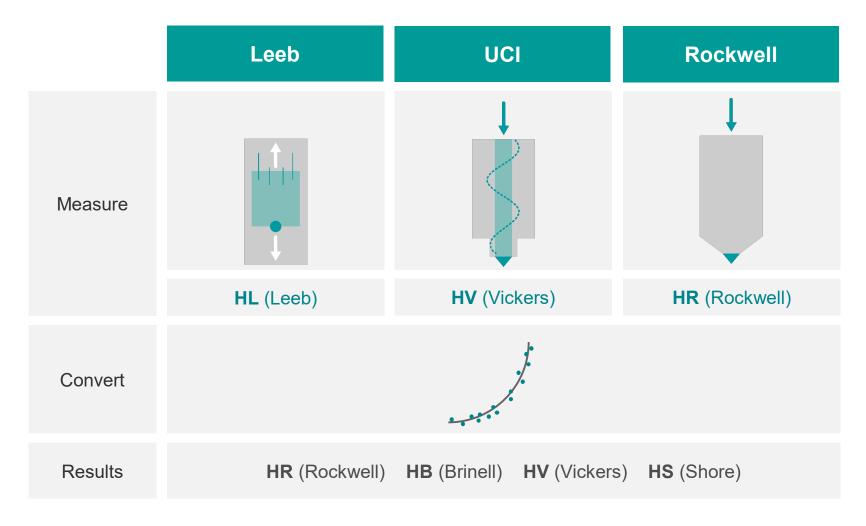
Detailed effort estimation



	Equotip UCI	Stationary Vickers
Preparation	- Grinding - Cleaning	- Cut piece - Grinding - Cleaning - Bring to Lab
Testing	- Perform 10 readings with UCI	- Make 5 indentations- Evaluate diagonals- Calculate values
Reporting	- Connect USB stick - Select series in explorer - Export PDF report	Note down valuesCreate reportAdd additional informationCreate PDF

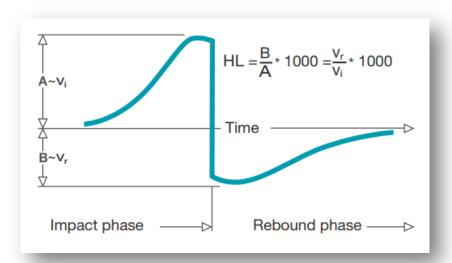
Portable Technologies

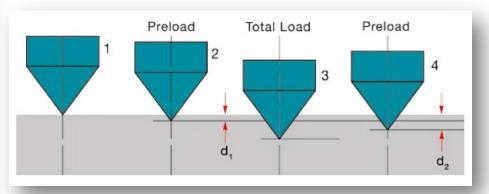




The Methods

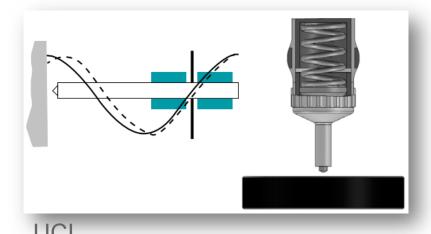






Portable Rockwell

Leeb



Applications

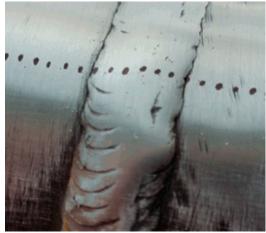


Leeb



Heavy parts

UCI



Welds / HAZ

Rockwell



Small parts

More Applications



Leeb



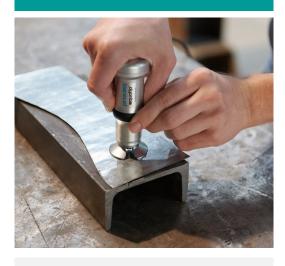
Roll Testing and more

UCI



Confined Spaces

Rockwell



Thin Components

Industry Pain Points





Incomplete offering



Time consuming



Poor consistency

Proceq's Cure





Equotip Solutions



Equotip 550

Equotip Piccolo / Bambino 2



Equotip Live



Equotip 540



Leeb Probes

UCI Probe

Rockwell Probe



Leeb: Ultra-versatility





Leeb: Ultra-versatility





Leeb: Accessories





- ✓ 12 support rings
- ✓ on any shape
- for stable results

UCI: All-in-One Probe



Equotip UCI

ONE probe



HV1-10All UCI applications

Other UCI solutions

Many probes



HV1 Turbines



HV5 Welds

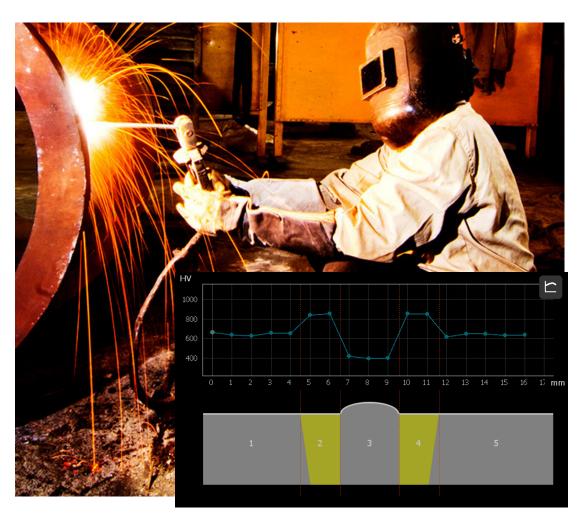


HV10 Forgings

UCI: Ideal for Oil & Gas



- ✓ Standard compliant
- Minimal surface preparation
- ✓ HAZ (weld) visualization



UCI: Smart foot

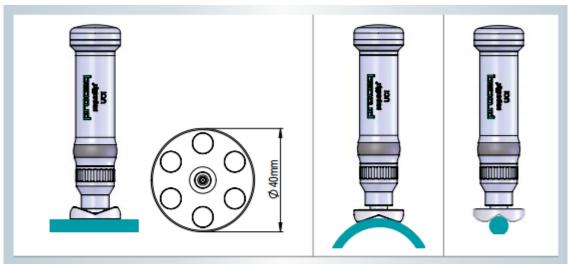




- Magnetic for maximum stability
- ✓ Flat surfaces
- Curved surfaces

UCI: Highly recommended Accessory





The optionally available special foot increases the measurement repeatability. It can be used for flat or curved surfaces. For curved surfaces there are two different apertures, one for diameters from 5 to 25 mm and one for larger diameters from 20 to 70 mm.

- ✓ Stable readings
- Easier measurements
- Protection for indenter

Rockwell: Universal





Scratch-sensitive, polished, thin parts

Rockwell: The static tester



- Static means Material independent, no influence from elastic properties of material
- Method is very similar to stationary Rockwell
- Two differences to stationary Rockwell:
 - Reduced test load, as it has to be applied manually
 - Pointed angle, to reach meaningful indentation depths
- Can be verified on regular Rockwell test blocks



Rockwell: Accessories





- ✓ Clamp adapter
- ✓ 3 special feet
- for any geometry



Integrated



- ✓ Leeb D + Leeb DL
- ✓ Compact
- ✓ Large display



Automation



- ✓ Patented trigger
- ✓ In-line testing
- Remote control and read-out



Simple but reliable



- Lowest priced Equotip device
- Same mechanical components, same accuracy
- Simple use, fully integrated
- Take out of your pocket and measure
- No start-up, instantly ready



Wireless

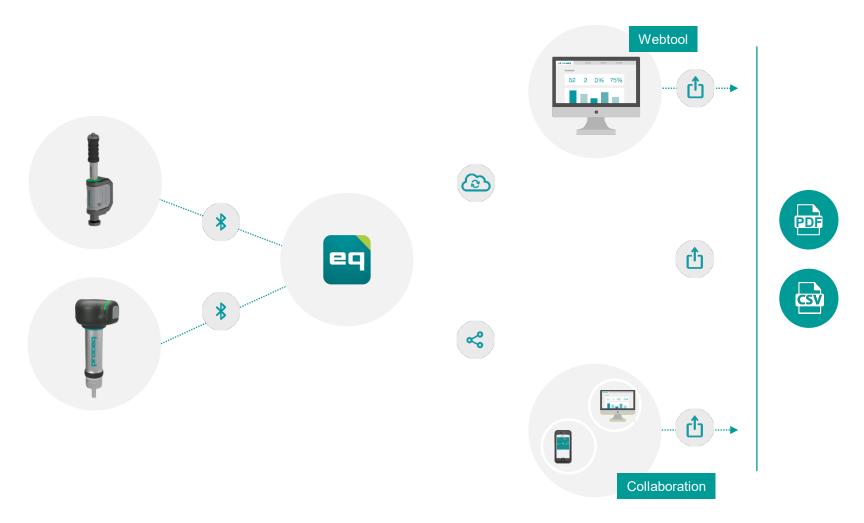




- ✓ Leeb D + UCI
- ✓ Connected
- ✓ Intuitive

High Connectivity





live.proceq.com



- Seamless synchronization between different devices
- Real-time access to measurement data worldwide
- Secure online storage
- Powerful reporting features from all devices

One App for both products



- Equotip Live App works with Live Leeb D and Live UCI HV1-HV10 probes
- Available in Apple's AppStore free of charge
- Requires iOS 8.0 or newer
- Works with iPhone, iPad or iPod Touch









Best-in-class Design





Leeb D

Ergonomic design

Multi-color status LEDs

Standard batteries



UCI HV1-10

Wireless Probes





Leeb D

One button operation

Replaceable Bluetooth-Module

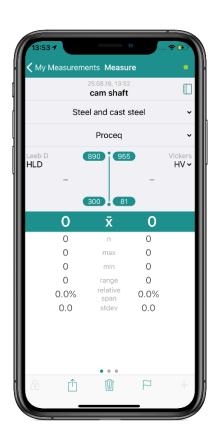
USB connection for charging and updates

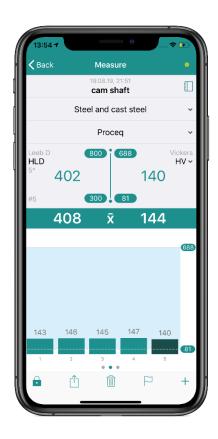


UCI HV1-10

Intuitive



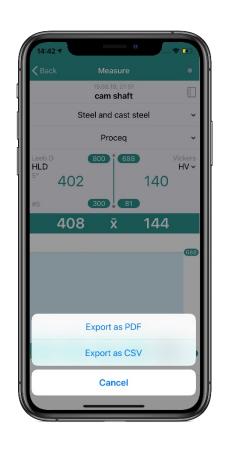






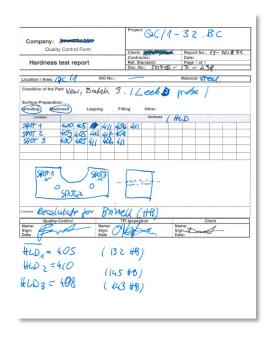
Hassle-Free Reporting



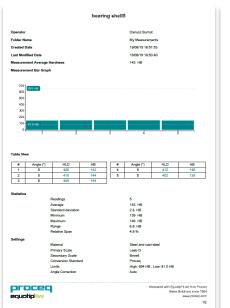


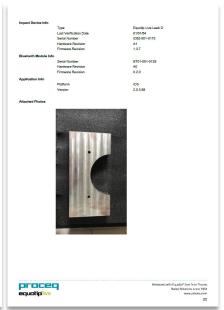


Spotlight: Equotip facilitates digital factory



"Outdated" method
20 min





Digital method 2 min

Customizable Hardness Conversions





"Extremally easy to adapt for special materials (e.g. alloys)"

Dariusz Burnat, Product Manager Proceq



One-point Conversion Curve



- One-point conversion is supported
- Shift value has to be entered manually
- Target scale and limits can be adjusted
- Same method for Leeb D and UCI probe
- Simple method on only one screen
- New materials can be stored on device
- Curves will be accessible on live.proceq.com
- Currently no sharing available





Verification creates Peace of Mind

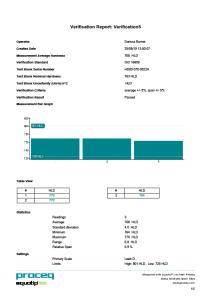
"The performance of the instrument should be verified prior to use on each day..."

ISO 16859-1 Metallic materials - Leeb hardness test



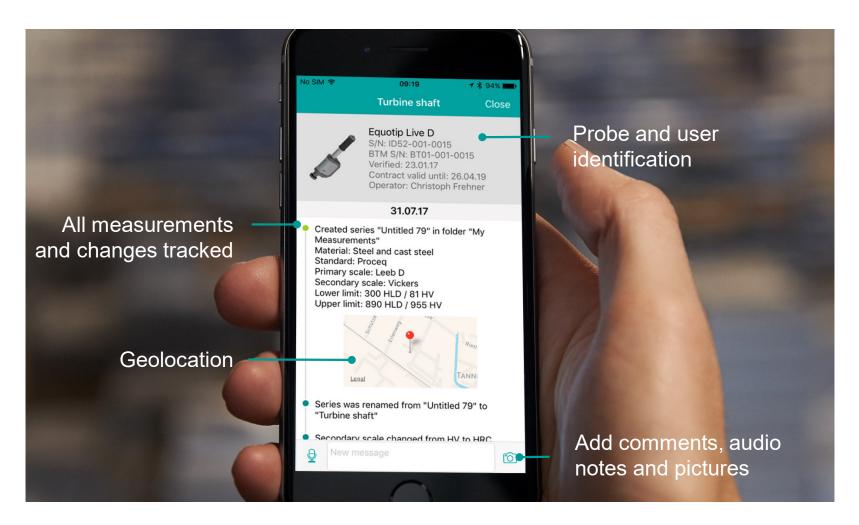






Traceability through Logbook





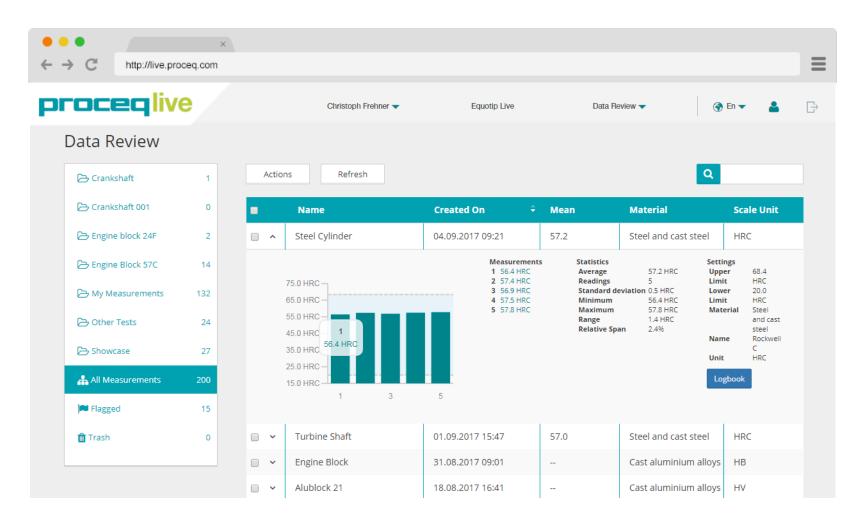
Ultimate Portability



- Measurement values can be listened on headphones
- Tester can work only with impact device
- Increases productivity
- Reduces risk of accidents and damaged equipment

Web based Reporting Tool

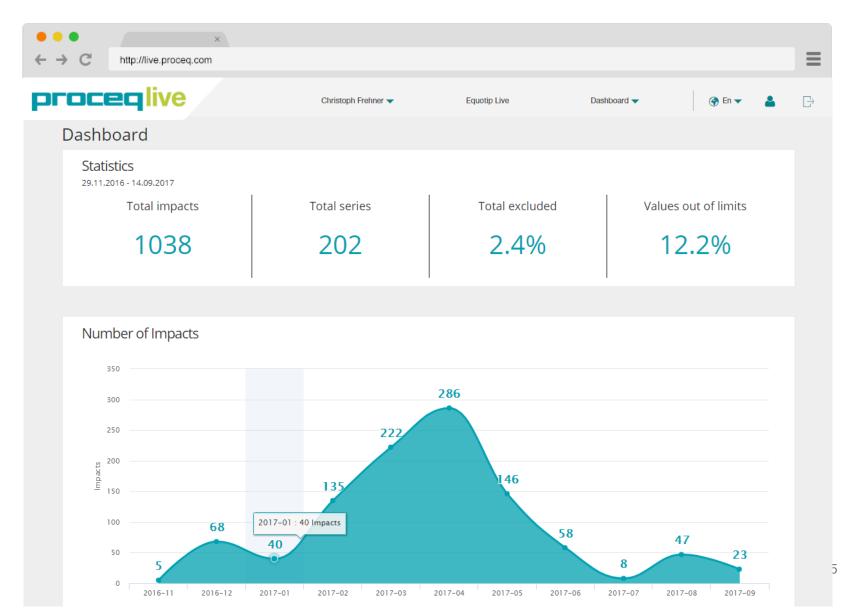






Dashboard for a complete overview







Versatile





- ✓ Leeb UCI Rockwell
- ✓ Touchscreen
- ✓ Rugged IP54

Built for harsh Environments



Scratch-resistant solid touchscreen with Gorilla® Glass technology



Shock-absorbing, dust and water proof (IP 54) rugged housing



Functional at a wide temperature range from -10 °C to +50 °C



Connectors and circuits are protected against dust and voltage spikes



Feature-Rich User Interface





Powerful Wizards





Standard compliant verifications

Create your conversion

Measurement Wizard





Proceq

Direct Reporting on Device

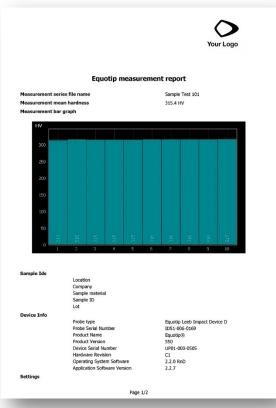
- Export directly PDF reports or project files
- Simply connect your USB-stick
- PDF reports are fully customizable
- Add your company logo or picture
- Data export possibility via Equotip Link



Enhanced Reporting



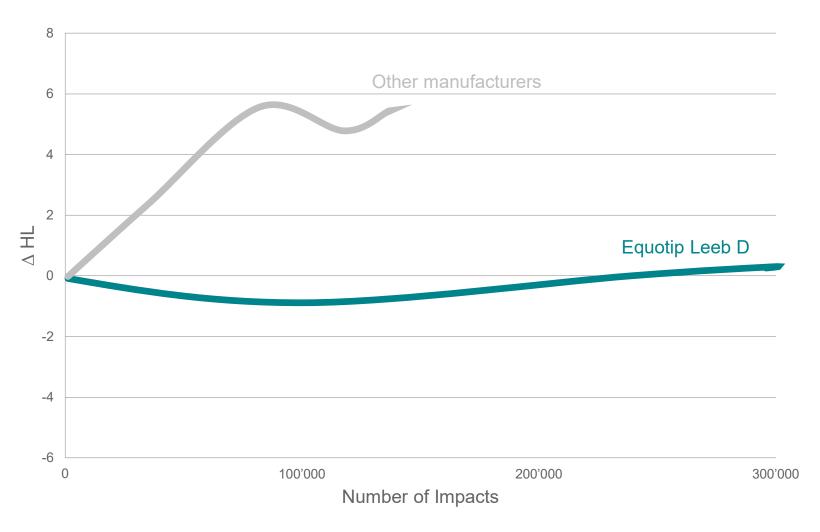






Unmatched Consistency and Durability





Replace Discontinued Solutions – Rely on Equotip



Contents Section	Page
Status Details	1
Affected Parts List	2
Product Support	2
Specific Recommendations	2
General Recommendations	2
Life Cycle Program Overview	3



Status Details

This notice is to inform you that the MIC10 UCI Hardness Tester and UCI probes will be transitioning to life cycle Phase 3 on October 31st 2017. This change means we will accept orders for new units through October 31st, 2017. After this time new unit sales will no longer be available.

Due to age of our hardness portfolio and resulting availability of components with changes in technology, it is necessary that we transition the MIC10 and UCI probes to Phase 3 of our Life Cycle program. As an overall strategy of investment in new phased array and conventional product upgrades, we will not be offering a replacement rebound unit.

Guardians of Leeb Standard





- ✓ Inventor of Leeb
- Conserved for over 35 years
- Supplier for National Metrology Institutes (NMI)

Global Standards Conformity







ASTM INTERNATIONAL











Global Proceq Service Network





Equotip





Attractive offering



			New	New					
	Equotip Bambino 2 Piccolo 2		Equotip Live		Equotip 540		Equotip 550		
	Leeb	Leeb	Leeb	UCI	Leeb	UCI	Leeb	UCI	Rockwell
Probes	D+DL	D+DL	D		D		all		
Custom Conversions		simple shift	simple shift	simple shift					
Export									
Report									
Live Webtool									

Equotip Live Offers



One off purchase

Leeb D



CHF 3,877

Incl. 2 years Report, Export, Sharing, Live Webtool UCI



CHF 4,704

Incl. 2 years Report, Export, Sharing, Live Webtool

Rental

Leeb D



CHF 1035 start-up fee

CHF 619 / year

Full feature set

CHF 619 / year

Option to extend
Report, Export, Sharing, Live Webtool

Equotip Live Offers



358 10 011 Equotip Live Leeb D

358 10 021

Equotip Live UCI HV1-HV10



Hardware belongs to customer, device can be used forever, 2yrs Reporting Feature is included

358 10 012 Equotip Live Rental Leeb D



Hardware is Proceq's property, device can only be used if annual fee was paid, Reporting Feature must be purchased separately

358 99 003 Reporting Feature Equotip Live

→ For all articles above

Future-proof





