

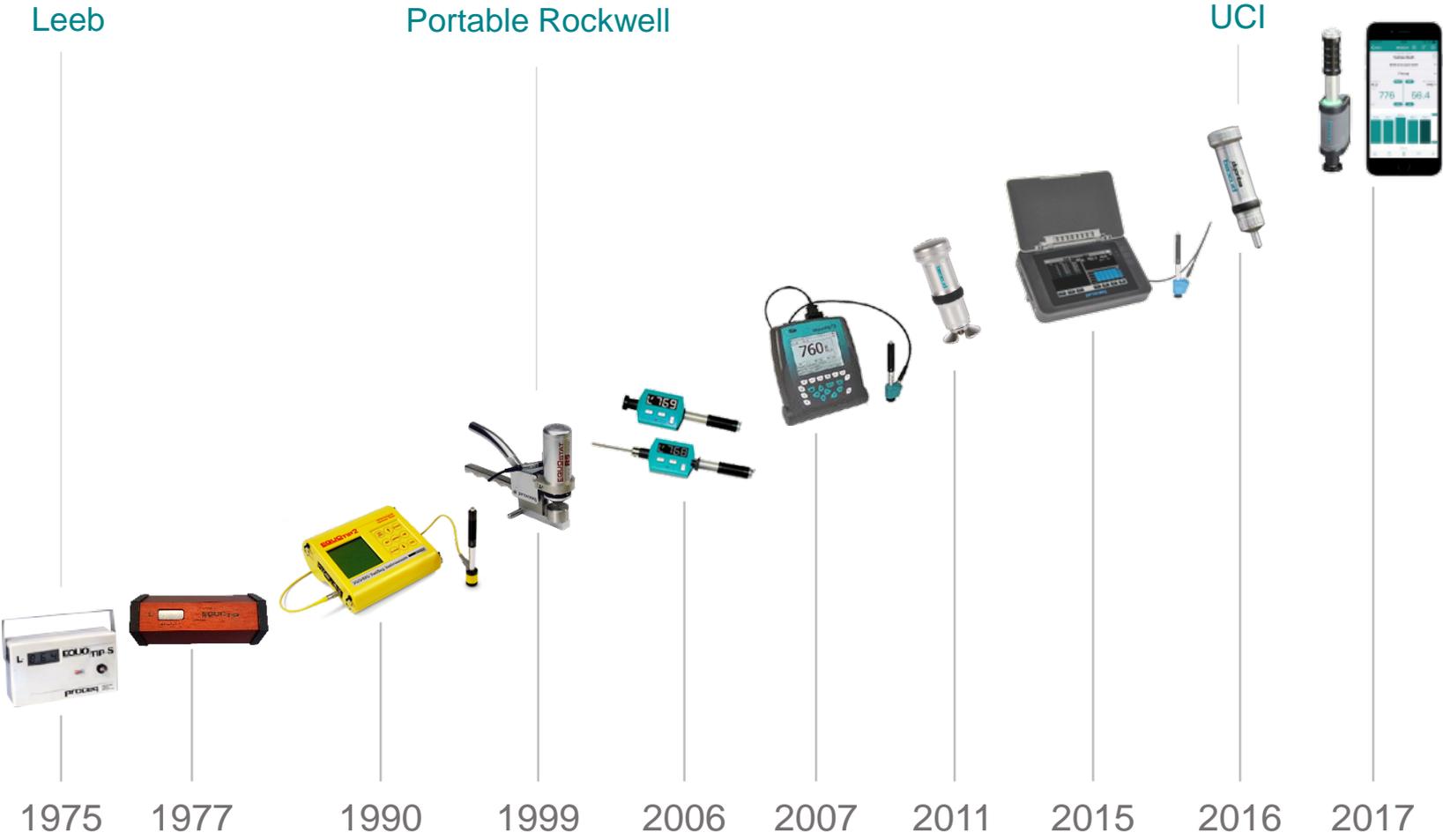
proceq

🇨🇭 Solutions since 1954



Equotip®
Complete Portable Hardness Solution

Revolutionizing Hardness Testing



Hardness Testing



Incoming inspection



Metalworking industry

Process control



Heat-treatment and processing shops

On-site inspection

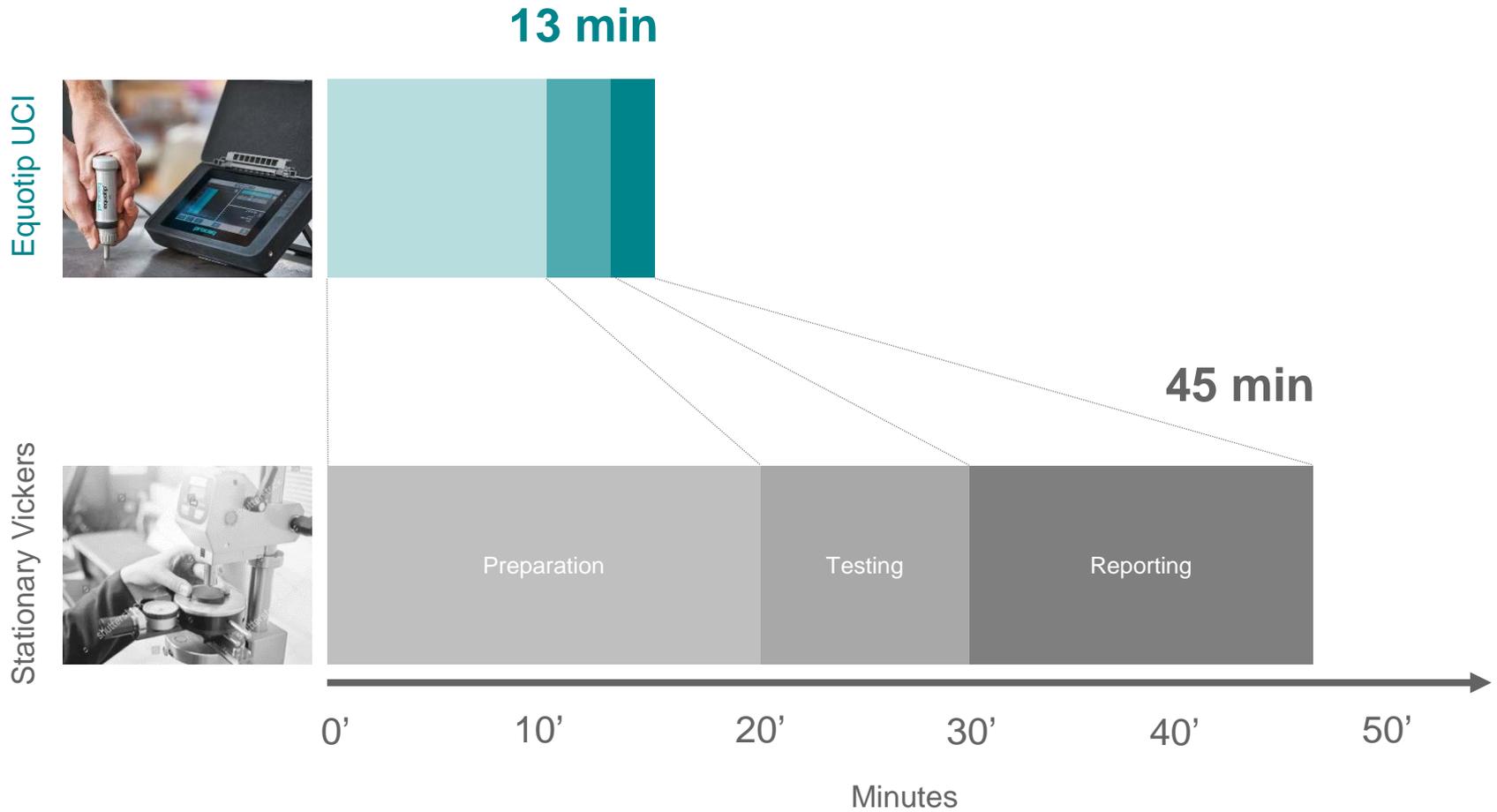


Inspection companies

Spotlight: Portable vs. Stationary



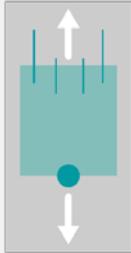
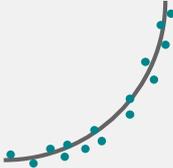
10 (Portable) resp. 5 (Stationary) hardness measurements on a steel bar



Portable Technologies



New ISO Standard

	Leeb	UCI	Rockwell	
Measure				
	HL (Leeb)	HV (Vickers)	HR (Rockwell)	
Convert				
Results	HR (Rockwell)	HB (Brinell)	HV (Vickers)	HS (Shore)

Applications



Leeb



Heavy parts

UCI



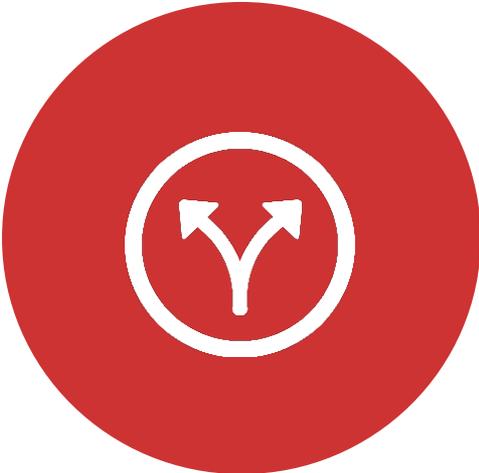
Welds / HAZ

Rockwell



Small parts

Industry Pain Points



Incomplete offering



Time consuming



Poor consistency

Equotip Solutions



New

New

Equotip Piccolo / Bambino 2

Equotip Live

Equotip 540

Equotip 550



Leeb Probes

UCI Probe

Rockwell Probe

Equotip Probes



Leeb: Ultra-versatility



D Standard surfaces

DC DL Inaccessible areas

Leeb: Ultra-versatility



G Cast and forgings

C Smaller parts

S Ultra durable

E Very hard surfaces

Leeb: Accessories



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

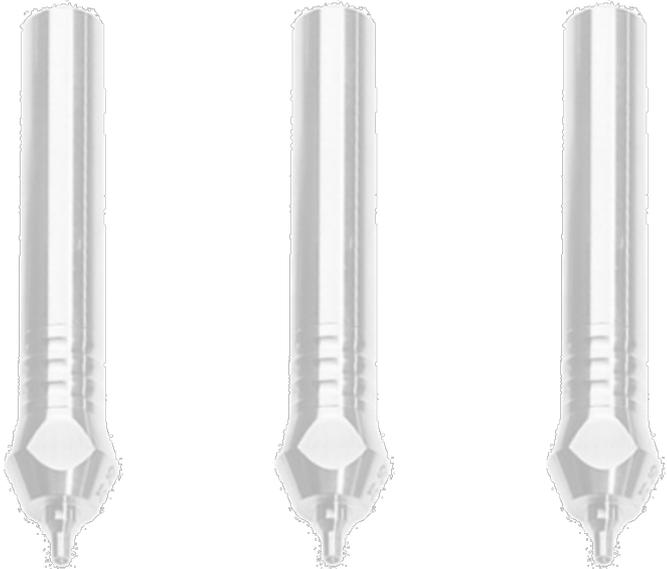
UCI: All-in-One Probe



Equotip UCI ONE probe



Other UCI solutions Many probes



HV1-10
All UCI applications

HV1
Turbines

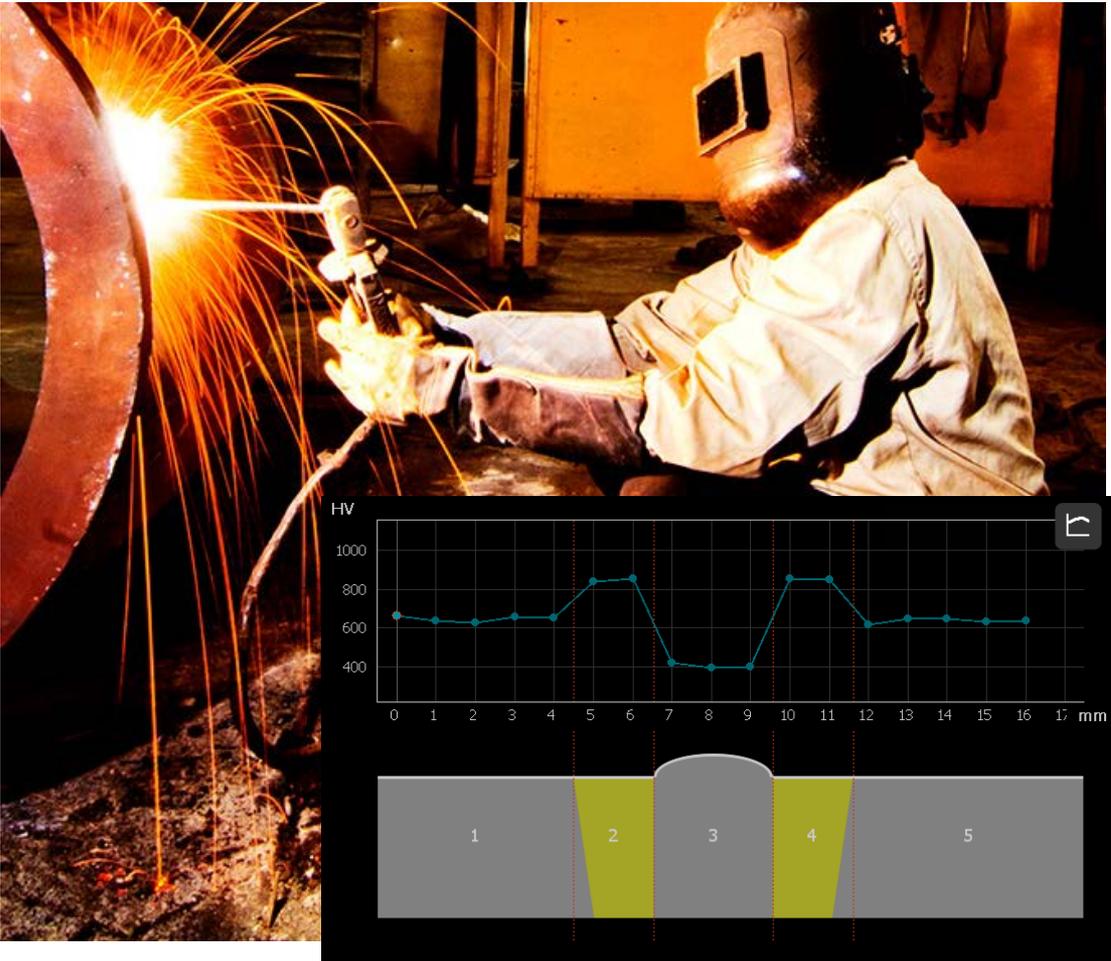
HV5
Welds

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

Rockwell: Universal



Scratch-sensitive, polished, thin parts

Rockwell: Accessories



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



Equotip Piccolo / Bambino 2

Integrated



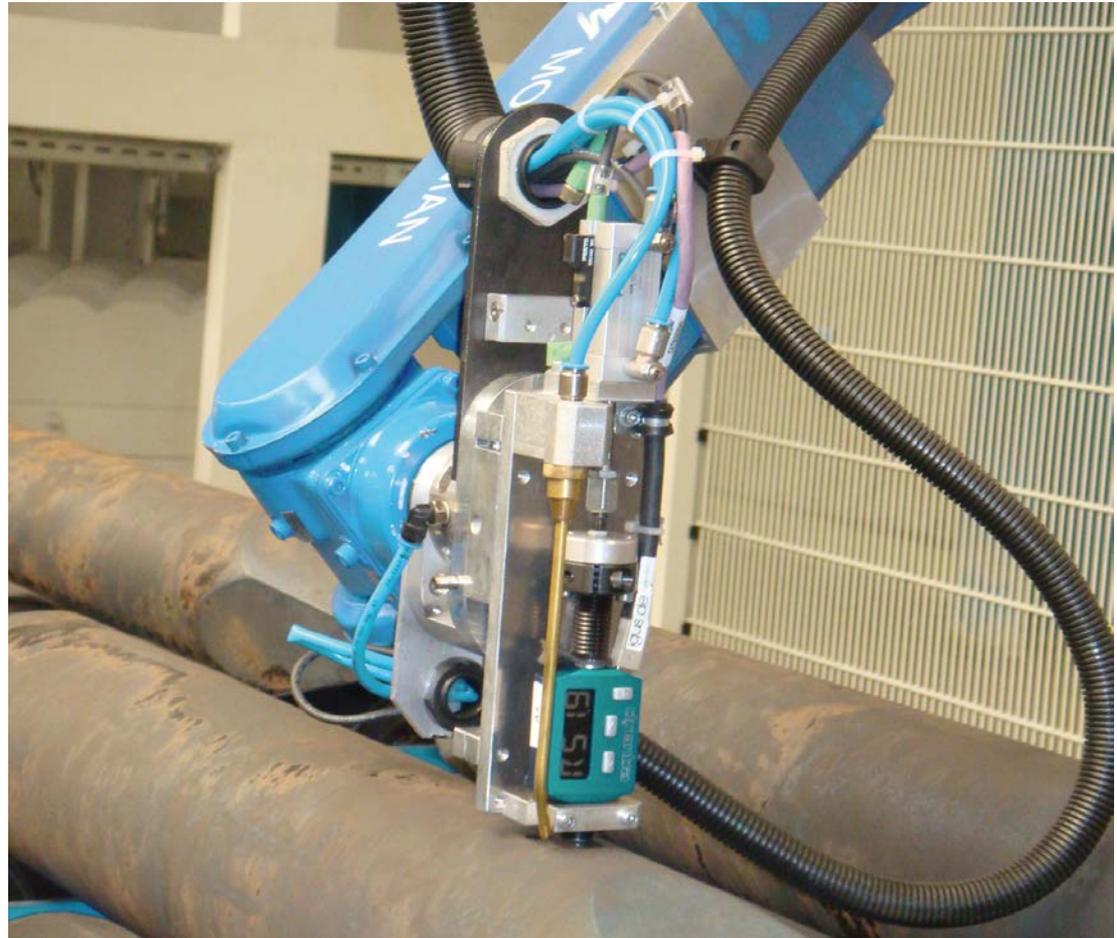
- ✓ Leeb D + Leeb DL
- ✓ Compact
- ✓ Large display



Automation



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



Equotip Live

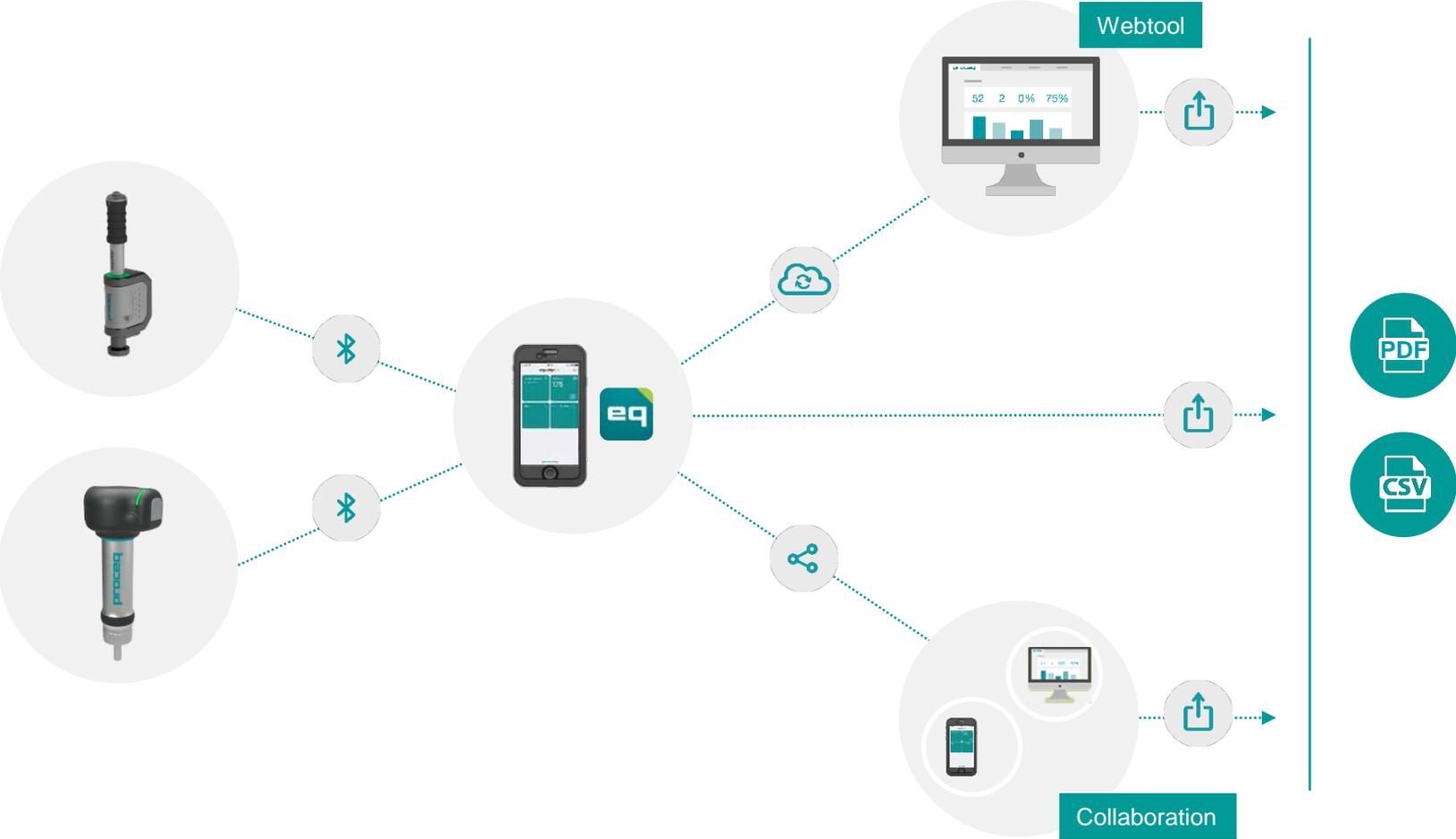


Wireless



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

High Connectivity



Best-in-class Design



Leeb D

Ergonomic design

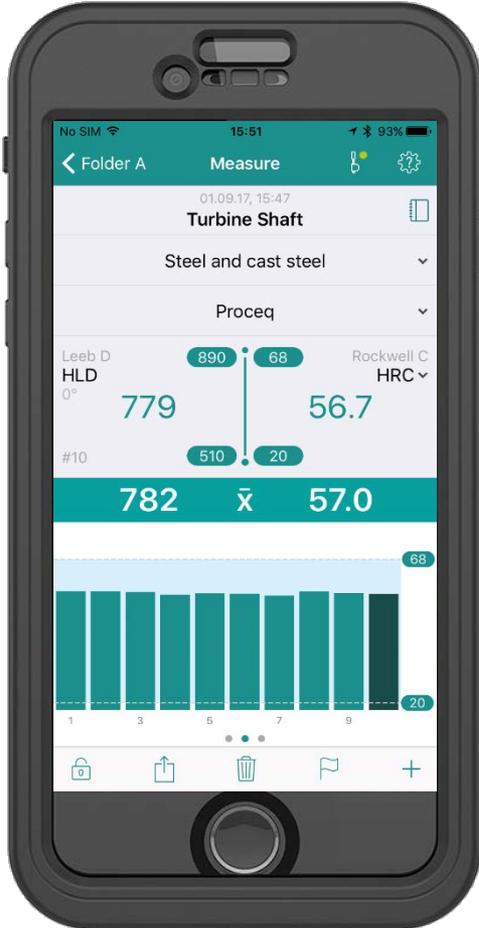
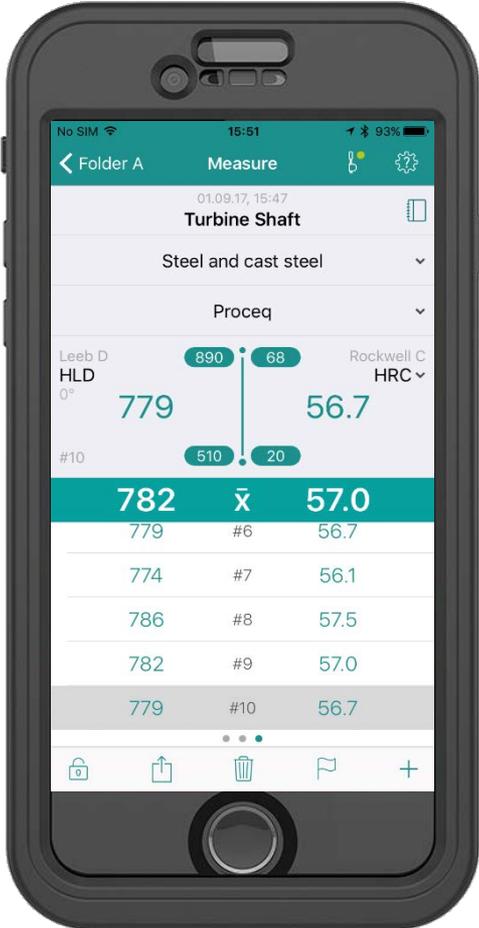
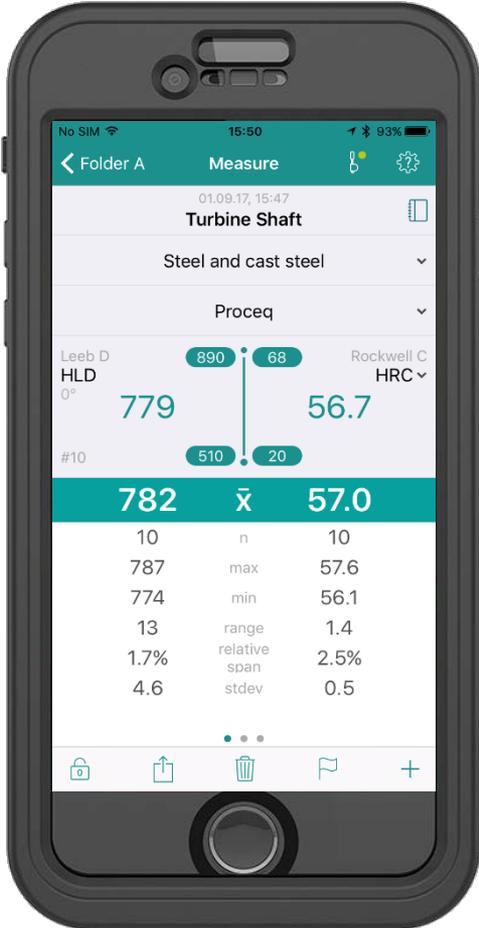
Multi-color status LEDs

 Standard batteries

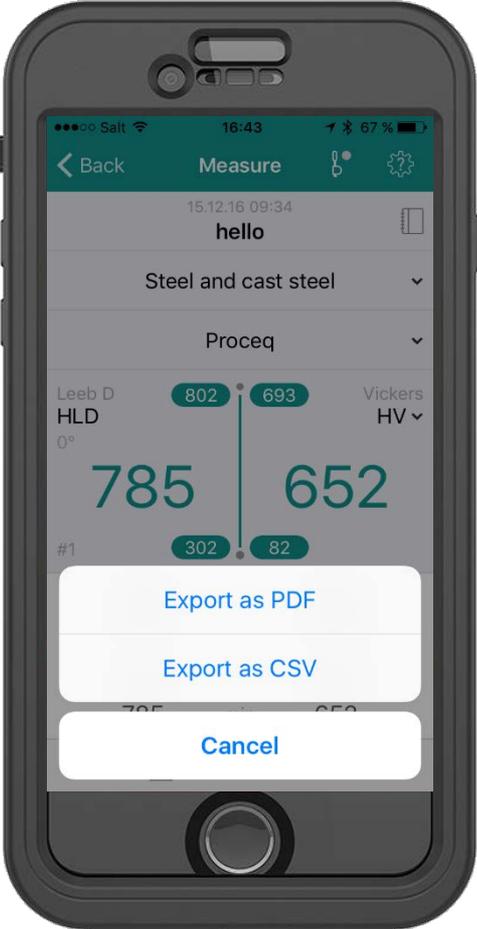


UCI HV1-10

Intuitive



Hassle-Free Reporting



Steel Cylinder

Operator: Christoph Freherer
 Folder Name: Folder A
 Created Date: 04/09/17 09:21:04
 Last Modified Date: 04/09/17 09:22:48
 Measurement Average Hardness: 57.2 HRC
 Measurement Bar Graph:

Table View:

#	Angle (°)	HLD	HRC	#	Angle (°)	HLD	HRC
1	0	777	56.4	4	90	769	57.5
2	0	785	57.2	5	90	769	57.8
3	5	787	58.9				

Statistics:

Readings	5
Average	57.5 HRC
Standard deviation	0.5 HRC
Minimum	56.4 HRC
Maximum	57.8 HRC
Range	1.4 HRC
Rotative Span	2.4 %

Settings:

Material	Steel and cast steel
Primary Scale	Leeb D
Secondary Scale	Rockwell C
Conversion Standard	Proceq
Limits	High: 88.4 HRC, Low: 20.0 HRC
Angle Correction	Auto

proceq equiptolive
 Measured with Equiptip Live from Proceq
 Version: 1.0.0.42
 www.proceq.com

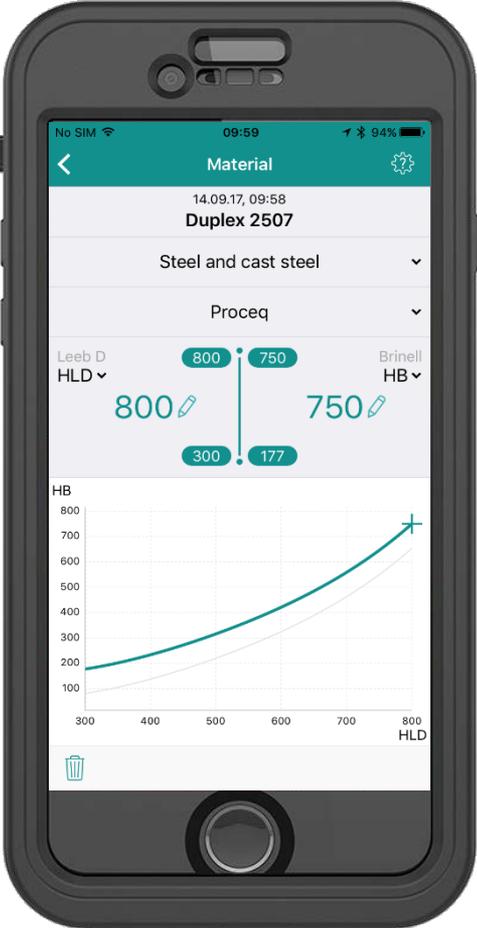
Type: Equiptip Live
 Last Verification Date: 2/8/17
 Serial Number: ID52-001-0015
 Hardware Revision: A0
 Firmware Revision: 1.3.1

Serial Number: BT01-001-0015
 Hardware Revision: A0
 Firmware Revision: 0.1.0

Platform: IOS
 Version: 1.0.0.42

proceq equiptolive
 Measured with Equiptip Live from Proceq
 Version: 1.0.0.42
 www.proceq.com

Customizable Hardness Conversions



“Easy to adapt for special materials (e.g. alloys)”

Christoph Frehner, Product Manager Proceq

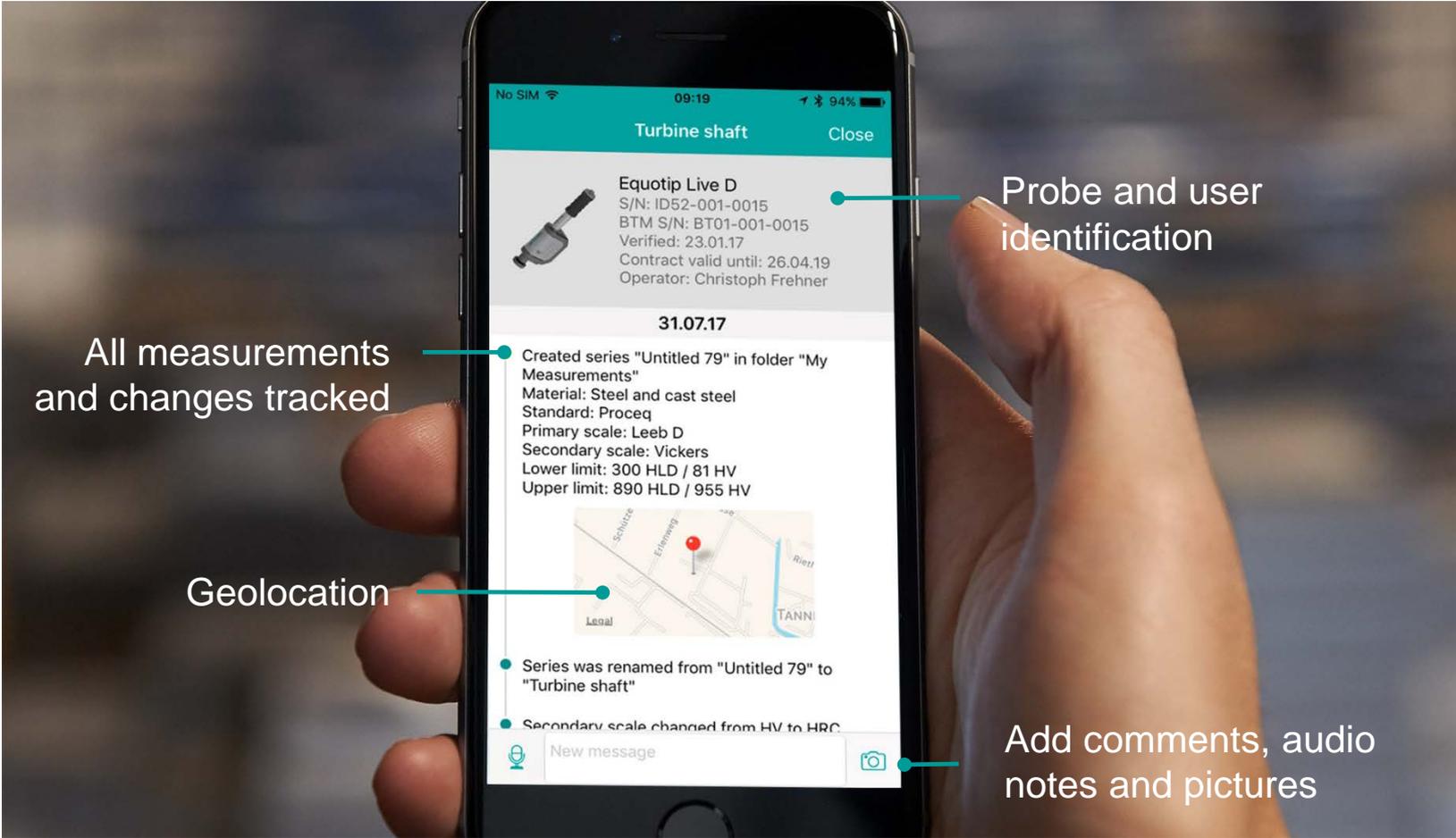
Easy Verification



“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



Web based Reporting Tool



Browser address bar: <http://live.proceq.com>

Navigation: proceqlive | Christoph Frehner | Equotip Live | Data Review | En | User | Share

Data Review

- Cranksaft 1
- Cranksaft 001 0
- Engine block 24F 2
- Engine Block 57C 14
- My Measurements 132
- Other Tests 24
- Showcase 27
- All Measurements 200**
- Flagged 15
- Trash 0

Actions
Refresh
Q

Name	Created On	Mean	Material	Scale Unit
Steel Cylinder	04.09.2017 09:21	57.2	Steel and cast steel	HRC
		Measurements 1 56.4 HRC 2 57.4 HRC 3 56.9 HRC 4 57.5 HRC 5 57.8 HRC	Statistics Average 57.2 HRC Readings 5 Standard deviation 0.5 HRC Minimum 56.4 HRC Maximum 57.8 HRC Range 1.4 HRC Relative Span 2.4%	Settings Upper Limit 68.4 HRC Lower Limit 20.0 HRC Material Steel and cast steel Name Rockwell C Unit HRC Logbook
Turbine Shaft	01.09.2017 15:47	57.0	Steel and cast steel	HRC
Engine Block	31.08.2017 09:01	--	Cast aluminium alloys	HB
Alublock 21	18.08.2017 16:41	--	Cast aluminium alloys	HV

Equotip 550



Versatile



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

Feature-Rich User Interface



Personalized Screens

Multi-touch features

Measurement Wizard



Step-by-step guide

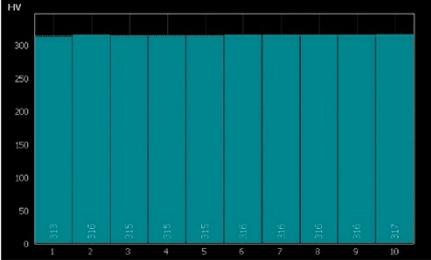
Enhanced Reporting




 Your Logo

Equotip measurement report

Measurement series file name Sample Test 101
Measurement mean hardness 315.4 HV
Measurement bar graph



Sample ID	Mean Hardness (HV)
1	315.4
2	315.4
3	315.4
4	315.4
5	315.4
6	315.4
7	315.4
8	315.4
9	315.4
10	315.4

Sample Ids
 Location
 Company
 Sample material
 Sample ID
 Lot

Device Info
 Probe type Equotip Leeb Impact Device D
 Probe Serial Number ID51-005-0169
 Product Name Equotip®
 Product Version 550
 Device Serial Number UP01-000-0505
 Hardware Revision C1
 Operating System Software 2.2.0 RnD
 Application Software Version 2.2.7

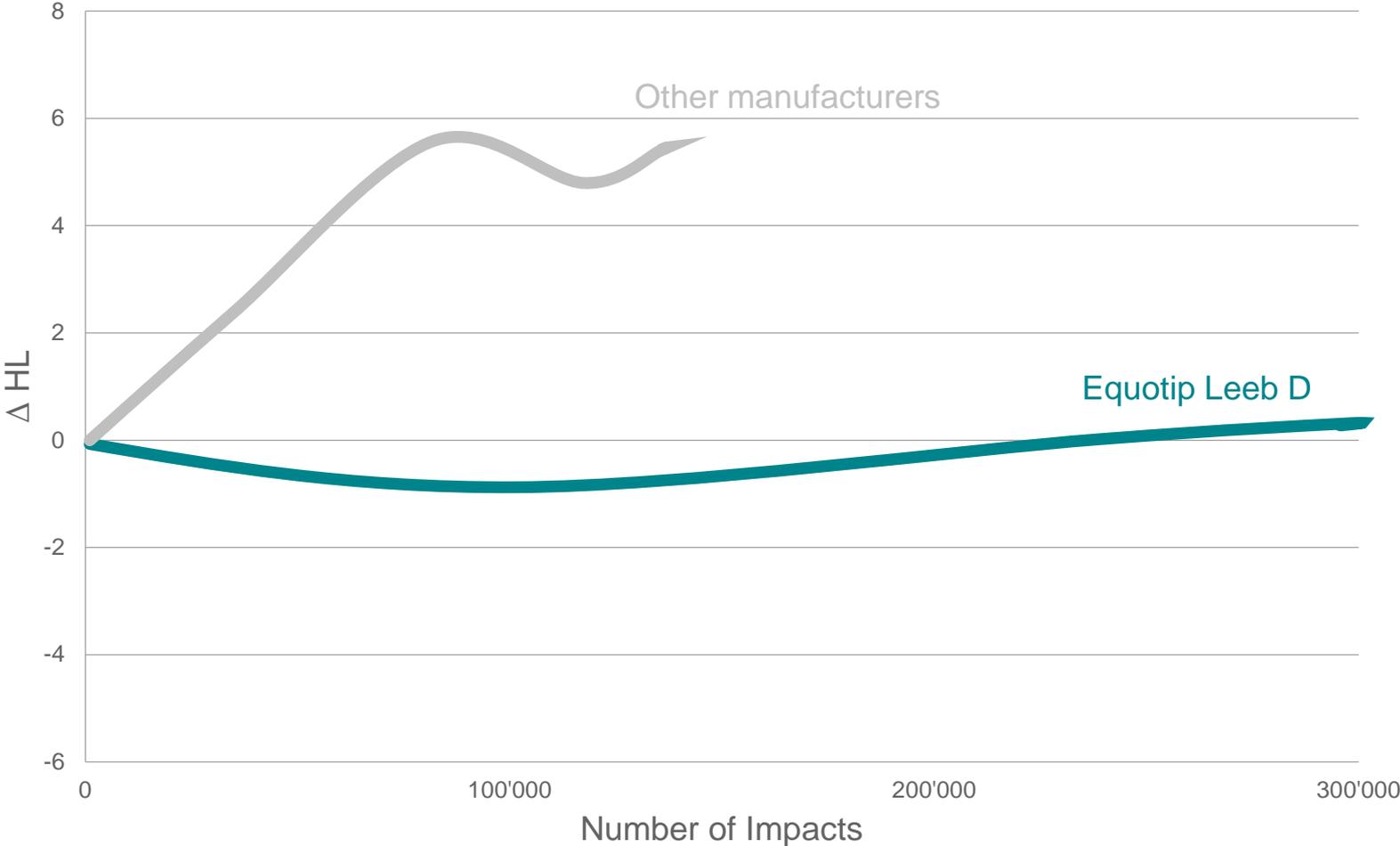
Settings

Page 1/2

Proceq Quality and Service



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

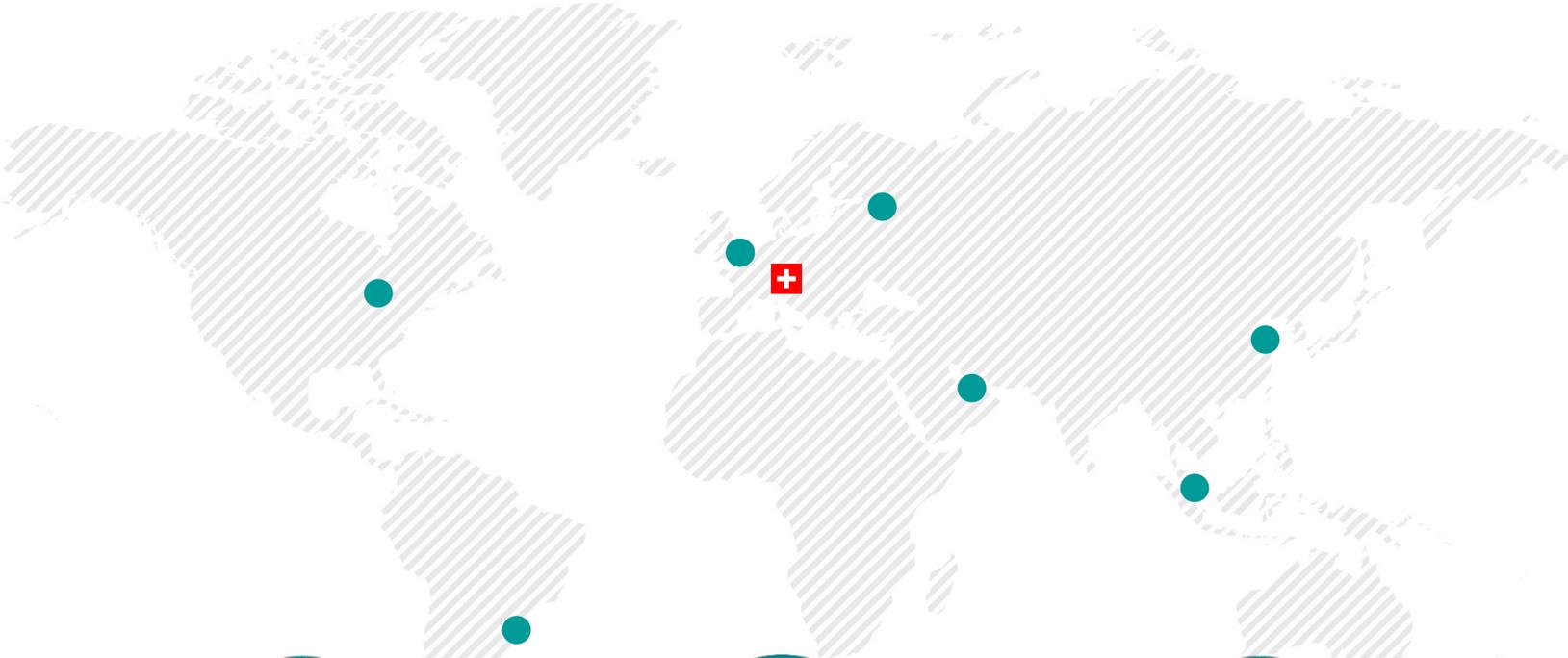


- ✓ Inventor of Leeb
- ✓ Conserved for over 35 years
- ✓ Supplier for National Metrology Institutes (NMI)

Global Standards Conformity



Global Proceq Service Network



Fast



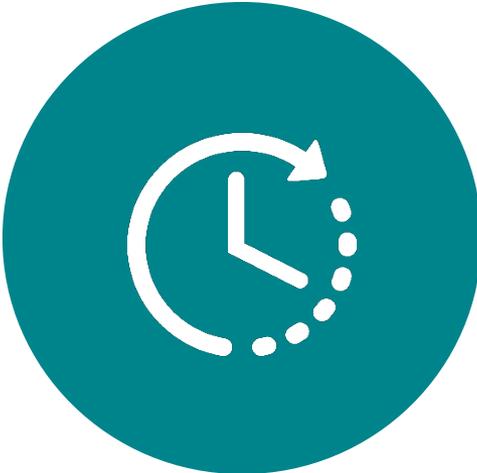
Local



Efficient



Complete offering



Increased productivity



From the inventor

Attractive Pricing



	Equotip		Equotip Live		Equotip 540		Equotip 550		
	Bambino 2	Piccolo 2							
	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									

New

New

New

New

Equotip Live Offers



One off purchase

Leeb D



CHF 3,750

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

UCI



CHF 4,550

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

CHF 599 / year

Option to extend
Report, Export, Sharing, Live Webtool

Rental

Leeb D



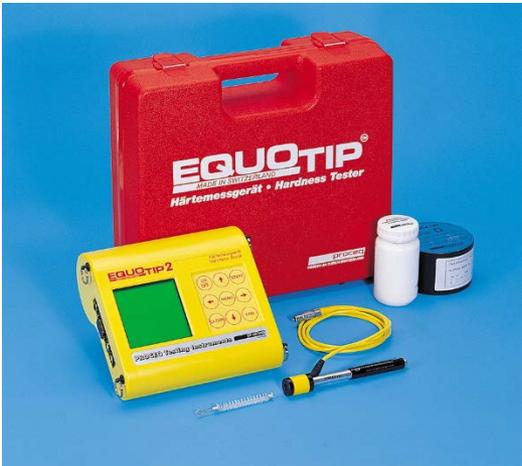
CHF 999 start-up fee
+
CHF 599 / year

Full feature set

Great deals you can rely on!



Trade-in of discontinued products



Send us your Equotip ...

... get 35% discount on any Equotip 550 unit!

Calibration



Send us your GE/Krautkrämer device ...



Send us your GE/Krautkrämer devices

... get a factory calibration!

Future-proof



Equotip[®] Complete Portable Hardness Solution



Pricing is subject to change. Features are subject to change. Tablet or smartphone not included in offerings. Additional fee may apply. General terms and conditions of sale and rental apply, see: www.proceq.com/service