



Concrete Rebound Hammers

Schmidt Hammers

Original Schmidt, OS8200,
OS8000, and OS-120





Test the
compressive
strength of
concrete



Portfolio

Proceq invented and patented the world's first rebound hammer for concrete in 1954.



Original Schmidt

The world's first concrete rebound hammer



Original Schmidt OS8000

The original, digitally redefined



Silver Schmidt OS8200

The world's most advanced rebound hammer



Schmidt OS-120

Designed to test on softer materials



Original
Schmidt

Original Schmidt The world's first concrete rebound hammer



Reliable

Proven durability and quality compared with low-cost imitations.



Diverse

Various models with different impact energies to cover a wide range of applications.



High quality

World-renowned and established; Proceq Swiss Made accuracy and reliability.



Original Schmidt Overview





HW Specs



Original
Schmidt

2.27kg
/ 5.0lb

(including battery pack)



5.3 x 35.6 cm
2.1 x 14 in

Original Schmidt HW specs

Impact Energy

2.207 Nm (N), 0.735 Nm (L)

Compressive Strength Range

10 to 70 N/mm² (1'450 to 10'152 psi)

Display

Mechanical display

Standards & Guidelines

- JGJ-T23
- ROCT 22690
- ASTM D 5873 (Rock)
- ASTM C 805
- EN 12504-4
- EN 13791
- ISO/DIS 8045
- JIS A1155
- ACI 228.1R



Original Schmidt
OS8000

Original Schmidt OS8000

The original, digitally redefined

Mechanical rebound hammer



Simple

Test on-site and share results up to 80% quicker compared to analog hammers. Eliminate errors with automatic impact angle correction and series evaluation according to standards.



Productive

Enhances productivity with comprehensive mobile apps for iOS & Android, and cloud synchronization of your measurements for instantaneous reporting.



Reliable

All mechanical components are Original Schmidt components to ensure durability and standards compatibility for the most advanced R-value hammer ever made.



Original Schmidt OS8000 Overview

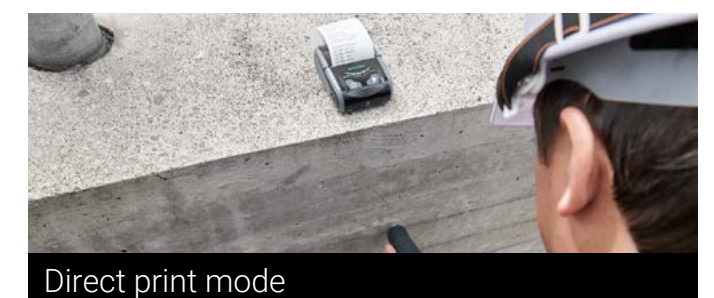
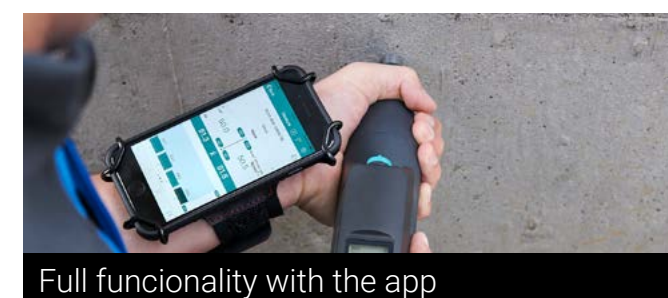


App included
iOS or Android



Workspace included - Web browser based PC or Mac

Four operating modes





HW Specs



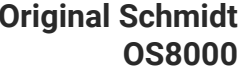
Original Schmidt
OS8000

Model N (1.7kg)
Model L (1.4kg)
(including new battery pack)*

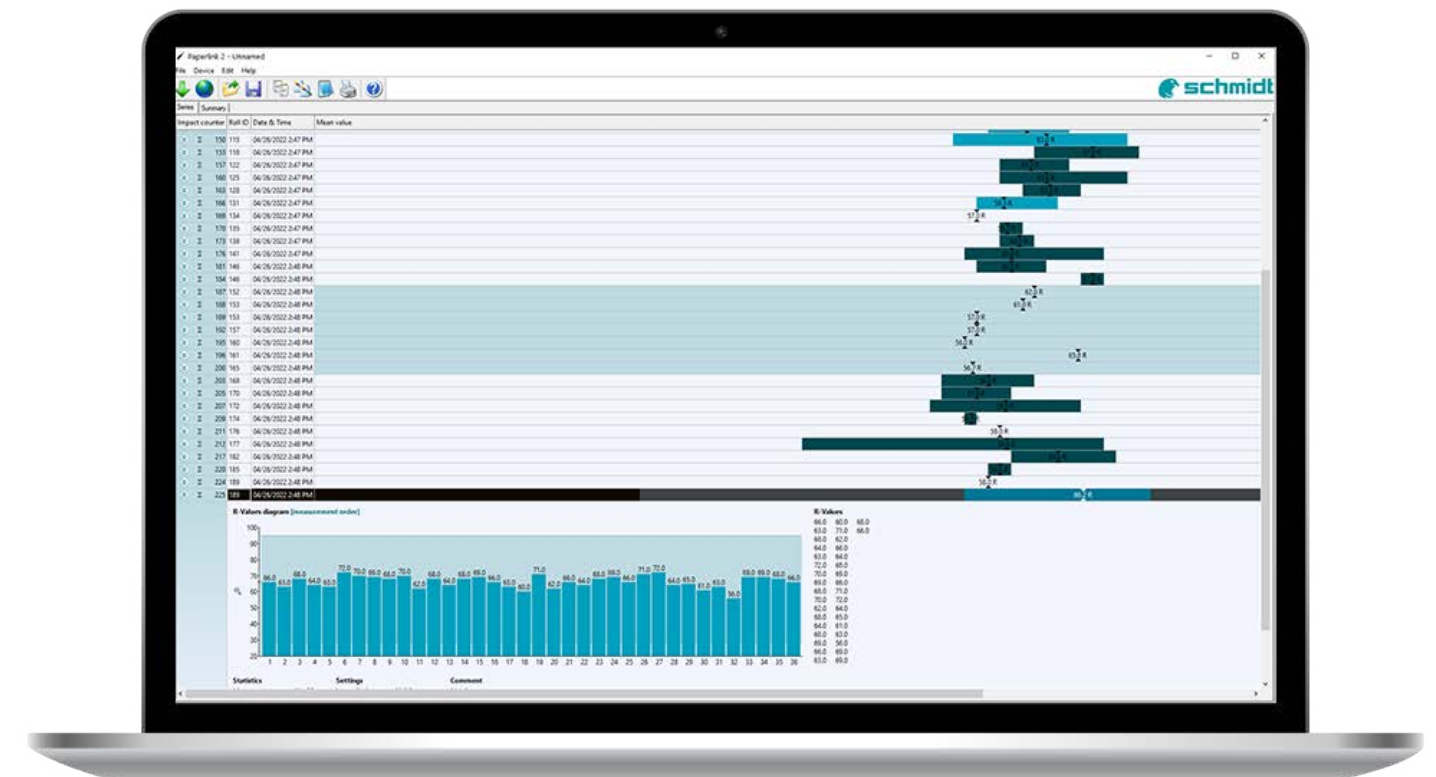
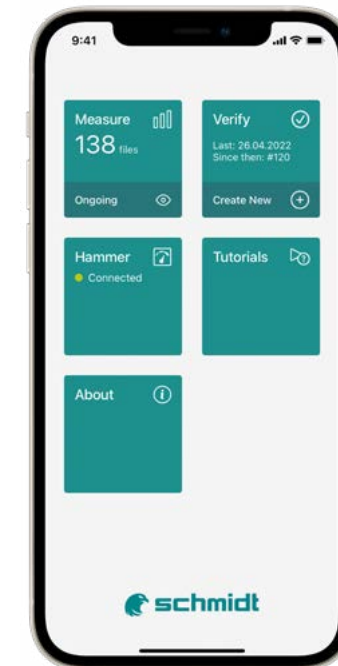


6.1 x 8.4 x 27.5 cm
2.4 x 3.3 x 10.8 in

Original Schmidt OS8000 HW specs	Standards & Guidelines
Instrument Firmware Automatic calculation of rebound value according to international standards	JCSE-G504 JGJ-T23 EN 12504-4
Display Analog & backlit digital (100 x 100 pixels, graphic)	EN 13791 GOST 22690-2015
Impact Energy 2.207 Nm (N), 0.735 Nm (L)	ACI 228.1R ASTM C 805
Compressive Strength Range 10 to >100 N/mm2 (1'450 to>10'152 psi)	ISO 1920-7 JIS A1155
Memory Instrument memory > 20,000 impacts Display memory - Memory of iOS or Android device	
Connections Low energy Bluetooth®, USB for charging and updates	
Measurements Displays the rebound value on-screen as you work Series validity checked automatically Review an entire series Delete impacts	
Battery Standard AAA, alkaline or rechargeable	
Battery Lifetime > 20,000 impacts between charges	
Operating Temperature 0° to 50°C	
Languages English, German, Japanese, Chinese, Korean, Spanish, Portuguese, Italian, French, Russian	



English, German, Japanese, Chinese, Korean, Spanish, Portuguese, Italian, French, Russian





Silver Schmidt
OS8200

Silver Schmidt OS8200



The world's most advanced rebound hammer

Optical rebound hammer



Efficient

Fully assess an entire test region of concrete in less than 10 minutes, saving you days of laborious effort compared with exclusively using coring.



Versatile

Accurately test the widest range of concrete strength classes. Work with the built-in standards-compliant conversions or your own custom material conversions.



Collaborative

Annotate measurements with voice, photos and comments, generate reports and share them instantly using the handy mobile app.



Silver Schmidt OS8200

Overview

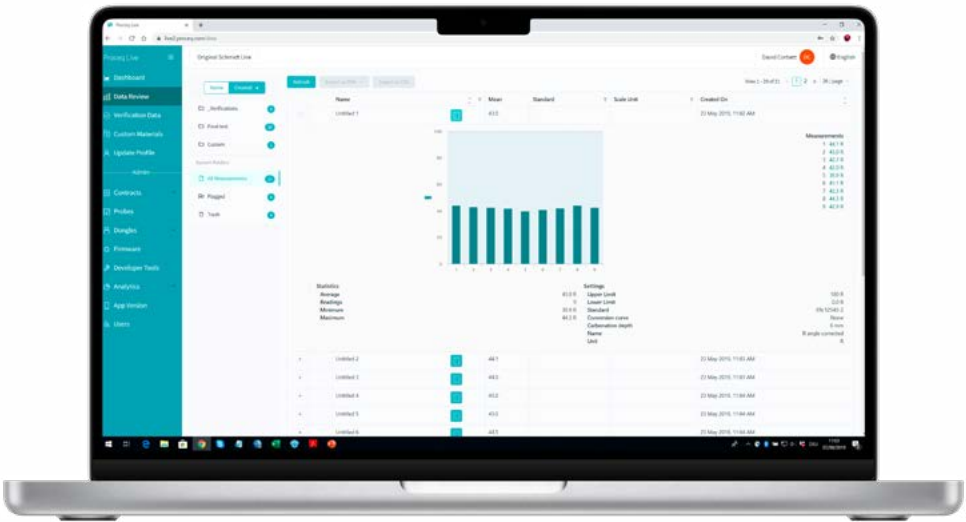
Bluetooth connectivity

Powered by flight-safe
AAA battery

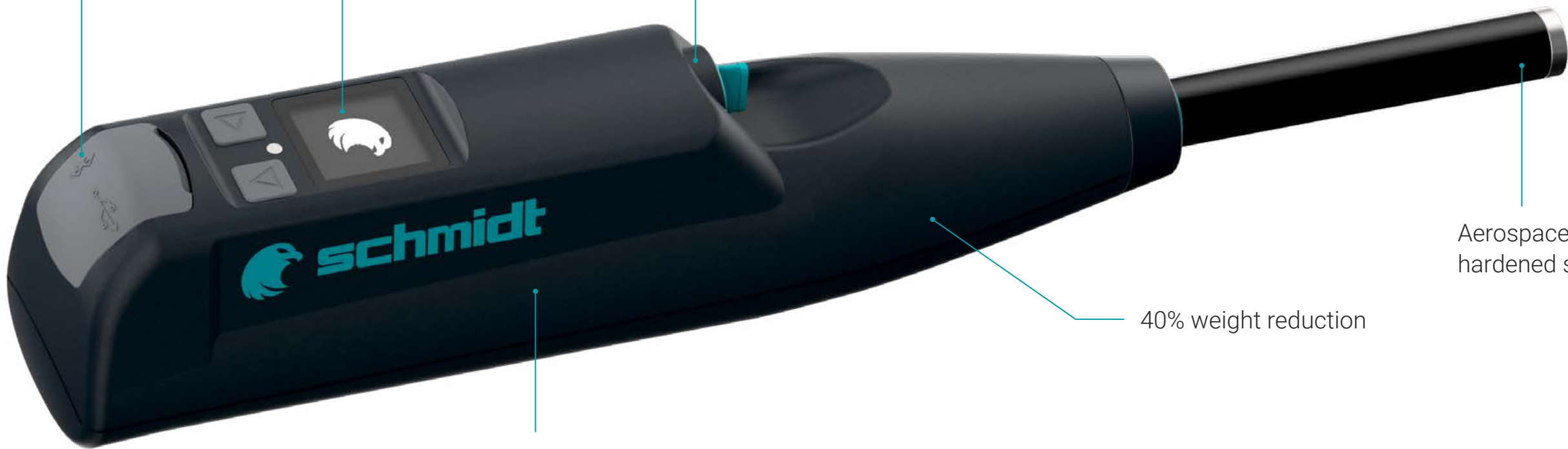
Backlit display



App included
iOS or Android



Workspace included - Web browser based PC or Mac



Aerospace alloy with
hardened steel cap

40% weight reduction

On board memory for
ca. 20'000 impacts



HW Specs



Silver Schmidt
OS8200

1.81 kg
/ 4lb
(including battery pack)



35.5 x 12.7 x 12.7 cm
16.3 x 8.9 x 5.2 in

Silver Schmidt OS8200 HW specs

Instrument Firmware

Automatic calculation of rebound value according to international standards

Memory

Instrument memory > 20,000 impacts
Display memory - Memory of iOS or Android device

Impact Energy

2.207 Nm (N), 0.735 Nm (L)

Compressive Strength Range

10 to >100 N/mm² (1,450 to >14,500 psi)
L-Hammer with optional mushroom plunger: 5 to 10 MPa (725 to 1,450 psi)

Display

Analog & backlit digital (100 x 100 pixels, graphic)

Connections

Low energy Bluetooth®, USB for charging and updates

Measurements

Impact angle independent
Displays the rebound value on-screen as you work
Series validity checked automatically
Review an entire series
Delete impacts

Battery

Standard AAA, alkaline or rechargeable

Battery Lifetime

> 20,000 impacts between charges

Operating Temperature

0° to 50°C

Languages

English, German, Japanese, Chinese, Korean, Spanish, Portuguese, Italian, French, Russian

Standards & Guidelines

ROCT 22690

ASTM C 805

EN 12504-2

EN 13791

ACI 228.1R

RILEM TC-ISC



SW Specs



Silver Schmidt OS8200 App

Workflow features

- Voice read-out of each impact (only on iOS®)
- Logbook with geolocation, audio, image and text annotations
- Series statistics
- Single series reporting: PDF, CSV
- Test-region reporting (multiple series): PDF, CSV, uniformity report, EN13791 characteristic strength report
- Personalized report with your own logo

Display

- Any compatible Apple® iOS device (please see App Store for details)
- Any supported Android™ device (please see Google Play Store for details)

Measurements

- Test region reporting
- Select units, form factor and correlation curves
- Apply a correction factor e.g. for carbonation
- Create your own custom curves
- Create custom curves databases for your own mixes

Verification features

- Options: EN12504-2, Manufacturer's recommendation, JGJ-T23
- User reminder when verification check on the anvil is required
- User guidance for verification procedure

Cloud features

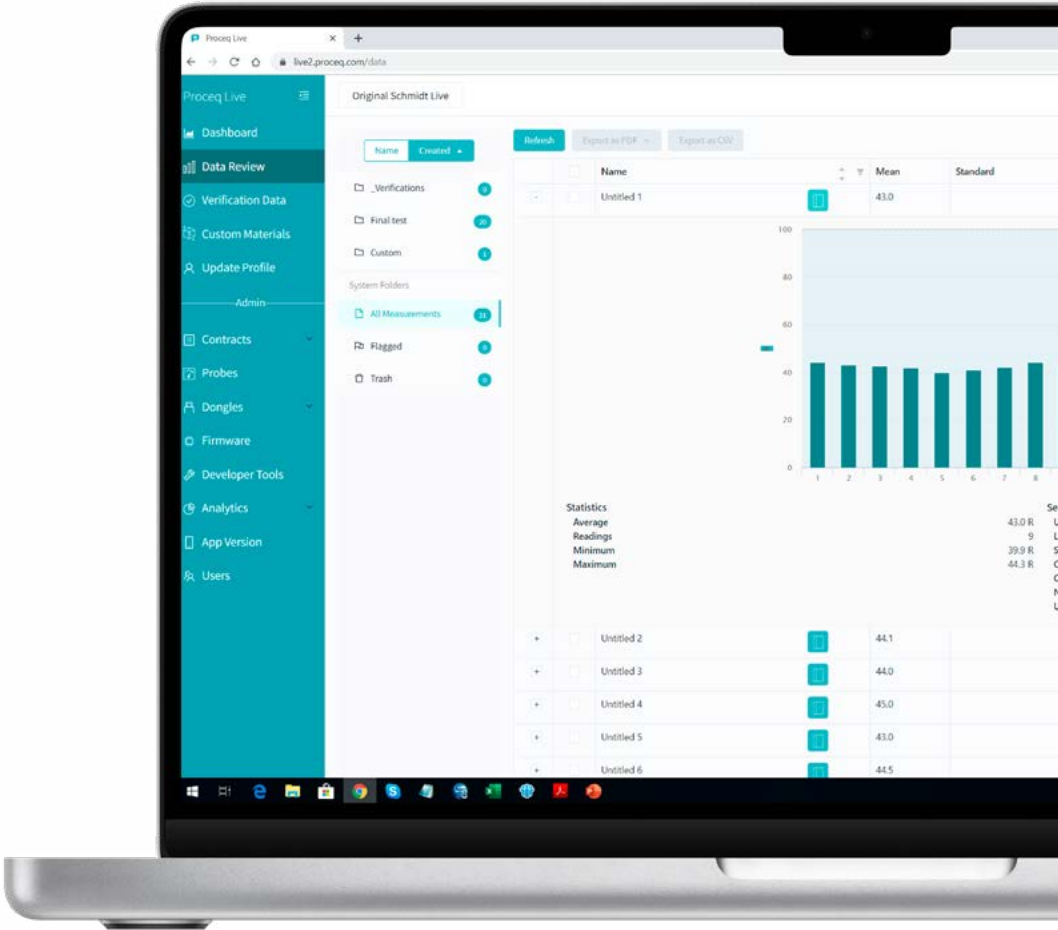
- Cloud synchronization
- Cloud-enabled Logbook
- Cloud-based report generation

Report Generation

- Single, multiple series, test region (uniformity, EN13791)

Languages

- English, German, Japanese, Chinese, Korean, Spanish, Portuguese, Italian, French, Russian

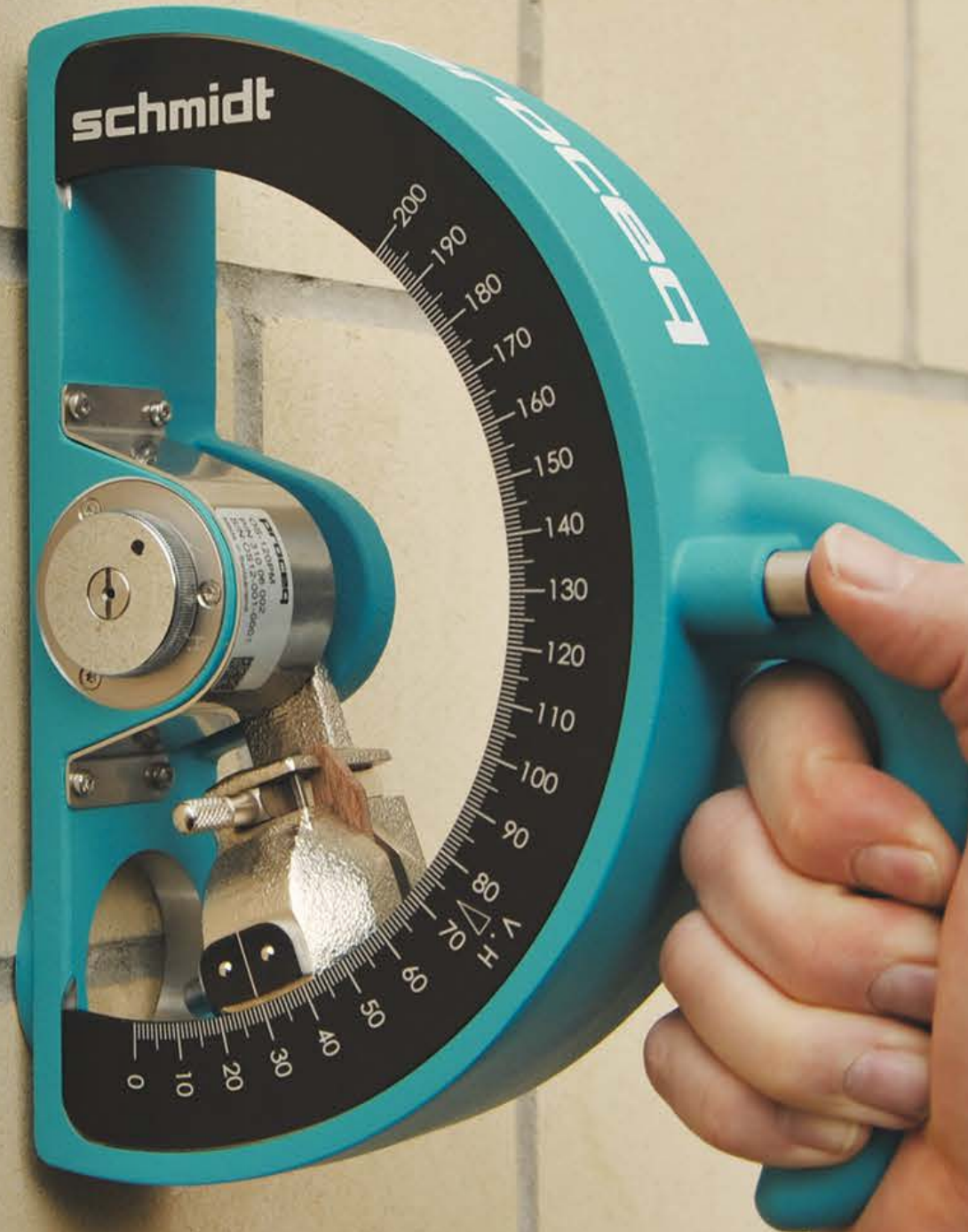




Schmidt OS-120

Designed to test on softer material

Pendulum hammer



Reliable

The OS-120 delivers accurate test results at compressive strengths below 5 Mpa, making it ideal for testing fresh concrete to determine the time for formwork removal.



Versatile

Two models are available for testing fresh concrete, mortar joints in brick constructions, plasterboard and similar materials.



Easy-to-use

Large, half-circular scale with simple button to trigger the impact on the concrete surface, with the rebound value displayed on the scale.



Schmidt OS-120 Overview

Easy-grip handle for comfortable use

Rebound value scale for immediate results

Simple trigger button for fast operation

Control knob for different testing applications





HW Specs



Schmidt OS-120

3.45 kg
/ 7.6lb



23 x 6 x 20 cm
9.06 x 2.36 x 7.87 in

Schmidt OS-120 HW specs

Impact Energy

0.833 Nm

Compressive Strength Range

1 to 5 N/mm2 (145 to 725 psi)

Display

Mechanical display

Standards & Guidelines

- Austrian Guideline for tunnel lining, published December 2012. Austrian Construction Association
- TNO Report BI -88-009/61.8.2060-VOE from IBBC Delft Netherlands (Mortar joint testing)



Applications

Compressive strength estimation

Ensure accurate estimation of compressive strength of new and existing concrete structures.



Mapping of concrete uniformity

Easily map concrete uniformity by measuring variations in readings across a surface to see the differences.



Control of concrete curing

Determine if the concrete has reached sufficient strength for formwork removal on the construction site.



Minimizing coring

Coring is expensive and destructive. Combining NDT leads to improved estimates, comprehensive assessment over the entire test region, and less coring required.

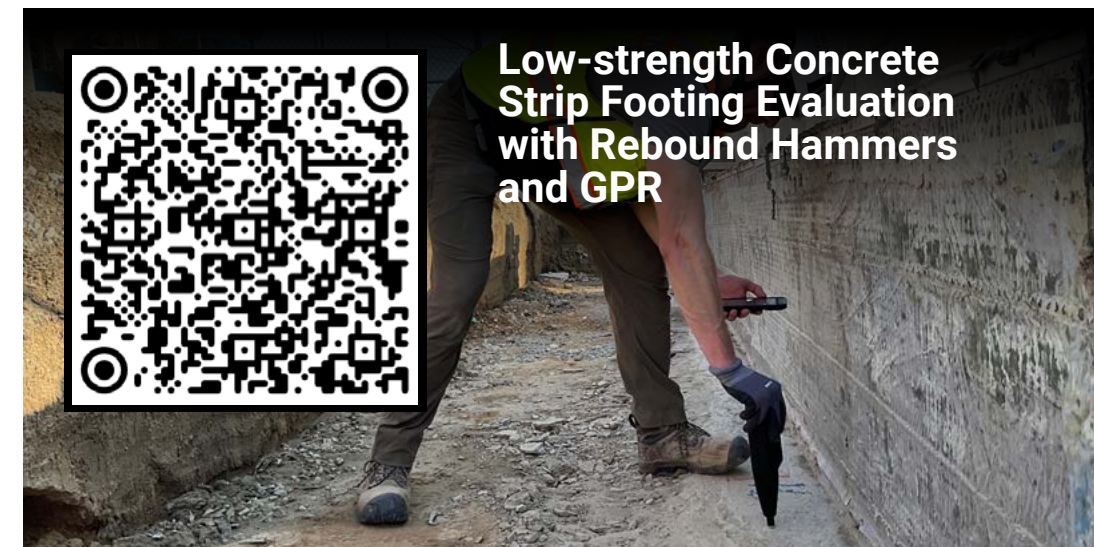
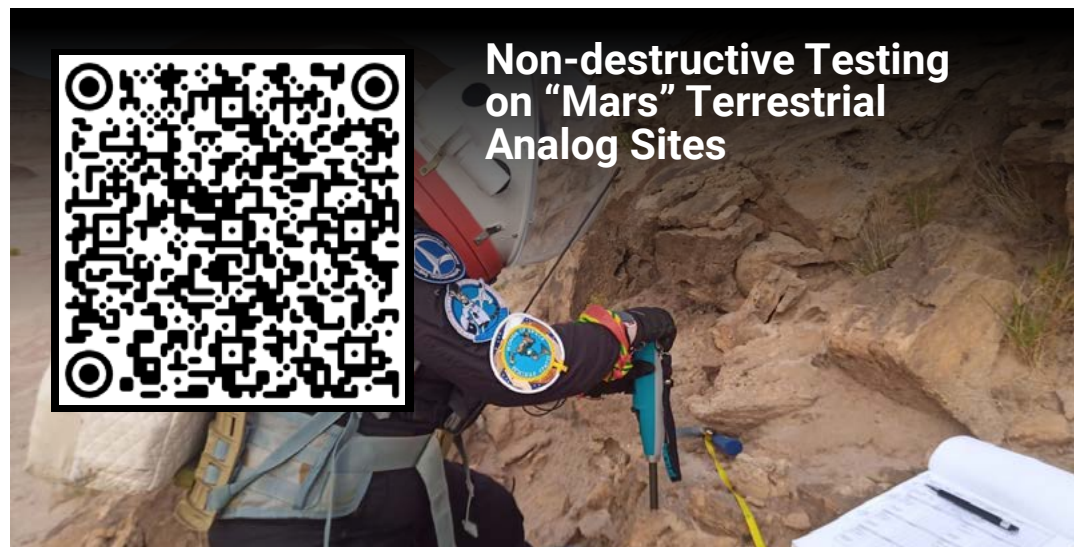




Applications

CASE STUDIES

Click on image or read QR code

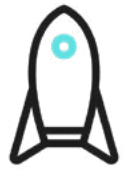




Technology

Rebound Technology

Invented by Ernst Schmidt in 1954 and released by Proceq in 1965, the Schmidt hammer is now the most widely used rebound hammer for non-destructive concrete compressive strength estimation.



Fast-in-situ testing

The simple operation enables you to conduct rapid concrete assessments with results in real-time.



Standardized in every major region

Schmidt rebound hammers are available in models with different impact energies, each designed for a specific test application according to standards.





Download on the
App Store

Software

Schmidt app for iOS & Android



Immediate data analysis

Use the Schmidt app for clear statistics, correlation, unit form factor and carbonation correction.



Efficient workflows

Enjoy automatic calculation of rebound value according to international standards: EN12504-4, ASTM C 805, JIS A1155, JCSE-G504, JGJ-T23.



Detailed reporting

Capture additional information for reporting with the logbook functionality and generate detailed PDF reports in a few taps.



All powered by Workspace

Cloud-connected workflow & services

Collect
Sync
Share



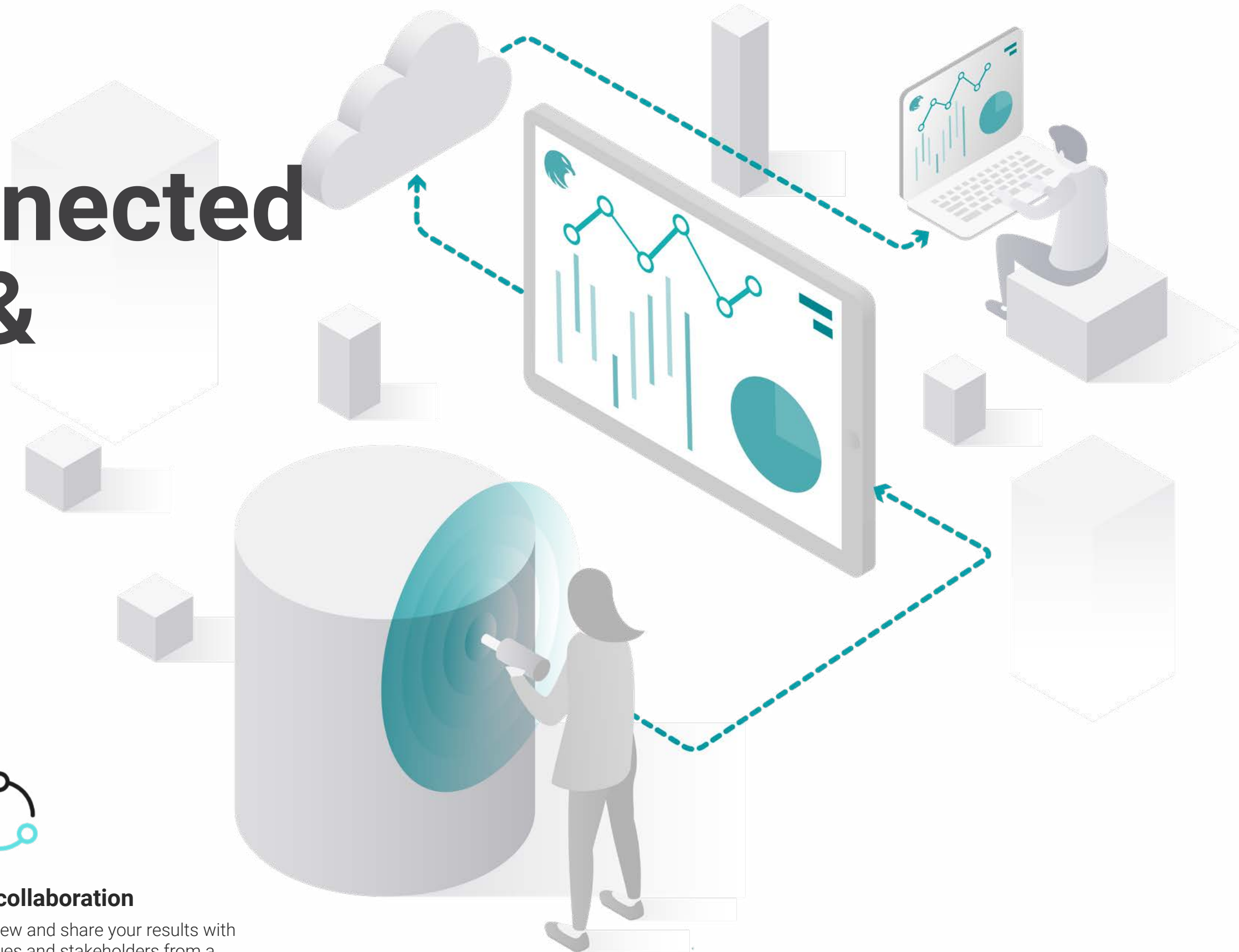
Consolidated data

Have all your rebound measurements automatically backed up to the web-based Workspace platform for archiving, reporting and sharing.



Easy collaboration

Store, view and share your results with colleagues and stakeholders from a user-friendly dashboard.





Meet our other Schmidt hammers

Paper Schmidt PS8000

Precise roll hardness testing using
rebound hammer technology.



Rock Schmidt RS8000

Unique optical rebound hammer
designed specifically for rock testing.





Company

Screening Eagle Technologies is a connected ecosystem of software and sensors for intelligent inspection of the built environment.

Our mission is to protect the built world and enable a society that is safe for all, is of high quality, operates reliably and is truly sustainable. We aim to democratize Built World Data, empower service professionals with easy-to-operate technology, and allow asset owners to make data-driven investment decisions. Together, we contribute to a society that gives back more to nature than it consumes, creating a built world for future generations to enjoy and thrive within.



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