



BADGER_{EQUIPMENT} Mining solutions



Structural Support Analyzer Tester

LENGTH • RESIN • GROUT • ANOMALIES

SSA Tester Measures:

- Measures the exact length of any bolt/anchor.
- Identifies anomalies previously undetectable
- Measures if anchors are full column grouted.
- Measures if bolts have received the necessary application of resin

SSA Tester:

- Patented design
- IA certification
- AI (Artificial Intelligence)
- Automated machine learning

SSA Server:

- Wifi Data downloading
- Automatic report data stored and flagged
- Self-auditing and auto report mailing
- Intelligent computer and app software for easy 24H access of reports
- Online 24H support

Support Analyzer (SSA Tester) is the latest underground structural testing device available on the market. With our patented design; it can identify anomalies previously undetectable. This user-friendly, handheld device works with just a simple—place the probe on the back of the bolt or anchor, and within three seconds, it provides a full reading indicating:

- Which bolt is being tested
- Exact measurement
- Precise location within the installation

Once you emerge from underground, place the tester into its docking station. A series of automated processes then occur within seconds:

- The system uploads and processes the data
- Test results (pass/fail) are automatically emailed
- A comprehensive report is sent to designated recipients for review



Rock Spoon & Rock Spot Indicators

PROBLEM SOLVED. PRESSURE VERIFIED.



Proudly South African. Patented Worldwide.
Smart Load Detection for Every Prop — No Guesswork, No Compromise.

ENGINEERED TO DETECT. DESIGNED TO PROTECT

The Rock Spoon and Rock Spot Indicators are compact, rugged, and battery-powered load detection tools built to bring instant visibility to mine prop support conditions.

Using advanced technology, these units accurately measure the actual load applied to the support — and display the result in real time with a tri-color LED system.

SHARED FEATURES:

- 6-month battery life (no recharging needed)
- Pre-programmable load thresholds
- Industrial-grade PCB and sensors
- Ultra-bright LEDs:
- Amber = No Load
- Green = Correct Load
- Red = Overload
- No training or tools required to install
- Works with any prop system on the market

Both models are fully patented by Badger Equipment.

ROCK SPOON INDICATOR

Versatile, Visible, and Prop-Ready.

Designed for general-purpose underground props, this model features a durable insert-style fit for fast, scalable deployment.

ROCK SPOT INDICATOR

Compact and Purpose-Built.

Optimized for props with different geometries or applications, the Rock Spot offers the same electronics in a specialized housing — tailored for tight fits or surface-mounted configurations.





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Mining Research & Development Solutions

OUR MISSION

At Badger Equipment, our mission is to establish ourselves as the premier research and development company in South Africa. We are dedicated to pioneering innovative solutions that address the evolving needs of the mining industry and beyond. Over the years, we have successfully developed and patented a diverse range of products that are now widely used within the mining sector, showcasing our commitment to excellence and technological advancement.

Our in-house fabrication workshop and fully equipped laboratory enable us to maintain complete control over the entire development process. This integrated approach allows us to design, build, test, and refine our products internally, ensuring the highest standards of quality and performance. By streamlining our operations and fostering a culture of innovation, we are able to rapidly adapt to industry demands and deliver cutting-edge solutions that benefit our clients and the broader community.

At Badger Equipment, we believe that continuous research and development are key to driving progress and maintaining a competitive edge in the industry. We are proud to contribute to South Africa's technological growth and look forward to expanding our impact through ongoing innovation and excellence.



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