

# Load Monitoring Fastener Plus (LMF+)

The most powerful bolt monitoring  
solution on the market.



**Our Innovation. Your Advantage.**



# Why choose LMF+

A track record of success. LMF+ ensures that your critical hardware is not only properly installed, but also enhances operational reliability while in service.



LMF+ is powered by Transmission Dynamic's Bolt Cap Module®



Graph of Bolt Tension vs Time

**Load Monitoring Fastener Plus (LMF+) is a wireless, accurate, and automatic tension monitoring fastener system. The LMF+ is extremely easy to use and will allow users to continually observe and record the true tension of fasteners, both during installation and while the assembly is in operation. Automated alerts will notify you if tension deviates from desired values.**

## Advanced Technology

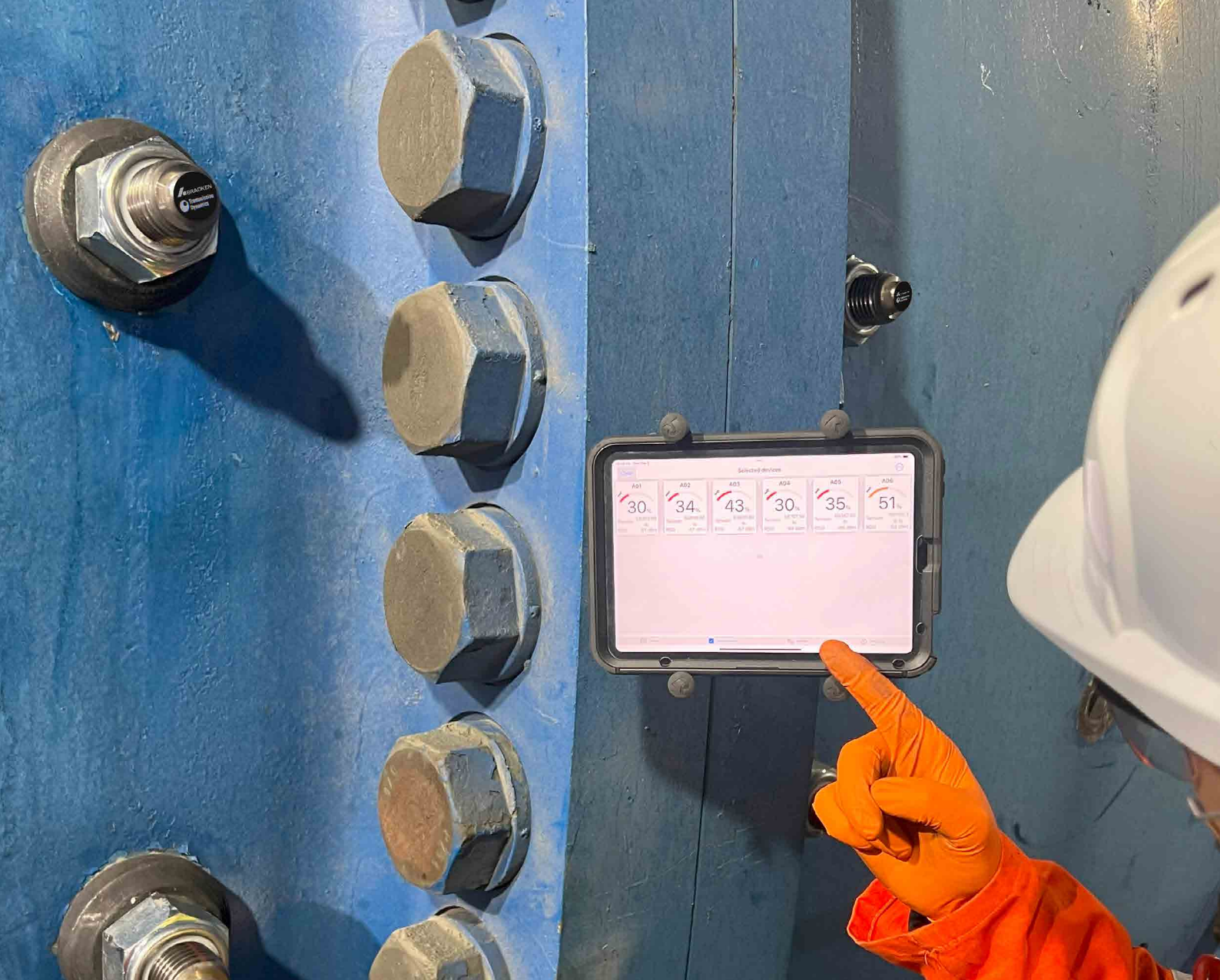
- Continuous monitoring of fastener tensions during and after assembly.
  - Set pre-defined tolerances for in-service alerts.
  - Real-time, precise, and easy-to-read digital data measurements.
  - Instant readings with hand-held reader, phone, or any internet device.
  - Pin-point the exact location of the problem.
- Condition monitoring for optimized performance and predictive maintenance.

## Higher Productivity, Higher Savings.

Reduce bolting related downtime and improve maintenance procedures through data-backed decision making with LMF+.

Well known throughout the world, Copper State's LMF+ outperforms the competition using robust components and superior monitoring technology. Designed for maximum reliability, LMF+ provides unparalleled performance and cost efficiency, ensuring that your operations run smoothly and without unexpected interruptions.

- Mining applications: Ball, AG, SAG and Rod Mills (Liners, Flange and Rotational).
- Engineered to withstand the harshest mining environments.
- Decades of experience in design and manufacturing bolts for mining.



### Real Time Analysis

Monitor tension, vibration, and wear in real-time, allowing for proactive maintenance and reducing the risk of failure. Continuous monitoring ensures that any issues are detected early, enabling timely interventions and enhancing overall safety.



### Increased Mill Productivity

Minimize the risk of bolt and equipment breakage by maintaining optimal tension levels with continuous monitoring, ensure that any deviations are detected and corrected promptly. This proactive approach helps to avoid unexpected downtime and costly repairs, leading to smoother and more reliable operations.



### Reduced Breakage

Prevent costly equipment failures and extend the lifespan of your machinery with precise, data-backed maintenance schedules and early detection of potential issues leading to significant cost reductions over time.



### Global Connectivity

With the Universal Global Data Network (GDN) Transceiver, receive wireless condition monitoring data directly to the Cloud, enabling intelligent data analysis and machine learning for superior decision-making. This seamless integration ensures that critical data is always accessible, no matter where you are.

# Proven Global Expertise and Durability in Mining

Trust LMF+ for your critical bolting needs in the mining industry. Our proven global expertise, rugged durability, and extensive industry experience make us the ideal partner for ensuring the reliability and efficiency of your operations.



## Product Range

LMF+ are available in various sizes, grades, specifications, and bolt types. Our comprehensive product line ensures that we can meet the diverse needs of any mining operation, providing robust and reliable solutions for all applications.

We offer long-range caps for extended monitoring capabilities, enabling seamless data transmission over vast distances. Our cloud-based monitoring system allows for real-time data analysis and remote access, ensuring you can maintain optimal performance and quickly address any issues from anywhere in the world.



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Partnering to deliver  
technology solutions

