

CBMS

CONVEYOR BULK MEASUREMENT SYSTEM

About Us

BEC has a long history of developing and supporting innovative solutions, tailored for the mining and materials handling sectors.

These include:

- Laser Gap Detection System (LGAP).
- Laser Partially Dumped Ore Car (LPDOC).
- Mobile Machine Collision Avoidance System (CAS).
- Radar Reclaimer Stockpile Faceup System.
- Stockpile profiling system.
- Ship loader Berth Monitoring.

And ...



CBMS

The system provides a reliable, safe and accurate measure of the volume of bulk material on a conveyor which can provide valuable input for feed control.

Key Features



High Accuracy

High accuracy volume estimate using industry-proven LIDAR technology.



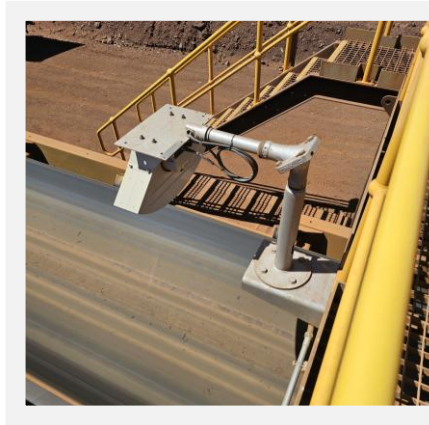
Reliable

Operates 24/7 with no operator intervention and is proven under all environmental conditions, including heat, severe dust and fog.



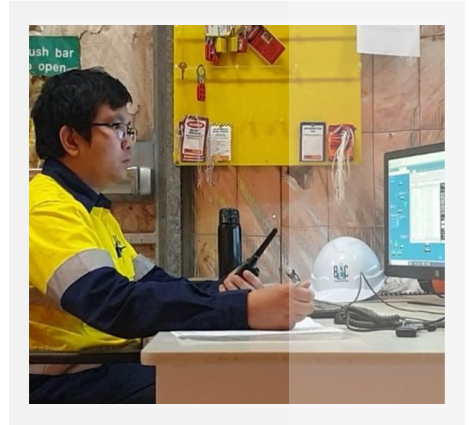
Full Visualisation

A real-time web-based user interface provides continual feedback, configuration and diagnostics.



Proven

Currently installed at multiple ore-handling sites across the Pilbara.



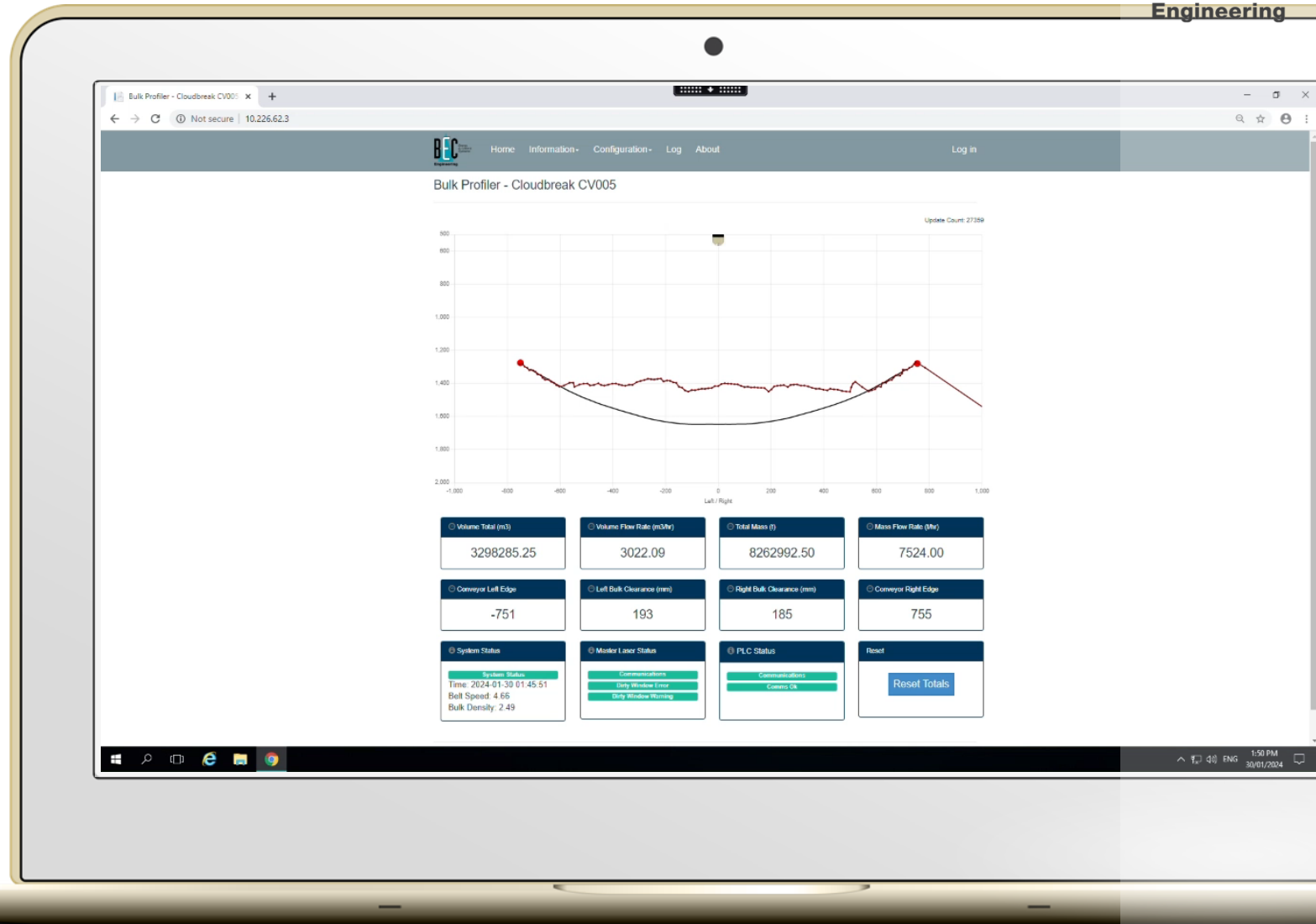
Support

Ongoing remote technical support is available.

Web-Based Visualisation

CBMS provides real-time display of all critical data.

- Volume flow rates and totalizers.
- Belt edge drift detection and freeboard.
- Can be integrated to calculate density or weight based on available data options.
- Laser scan data graphical display.
- Status and alerts.
- Configuration and diagnostics.



Laser-based profilers provide a much higher degree of resolution and, therefore, overall accuracy when compared with radar-based solutions.

Using the industry recognized SICK LMS 511 Laser, the CBMS can be integrated into existing infrastructure in a very short of time enabling immediately production improvements.

A photograph showing a yellow laser profiler arm mounted on a structure, positioned over a conveyor belt system. The arm is extended horizontally, and a sensor unit is visible at its end. The background shows a rocky, hilly landscape under a clear blue sky.

Integrated Solution

Critical volumetric data to optimize your bulk handling operation

Turn-Key Installation

BEC can provide a complete turnkey solution, including:

- System supply, including mechanical supports.
- Electrical Design and Drafting to Company standards.
- Control Systems Programming.
- Mechanical and Electrical Installation.
- Commissioning and Acceptance.
- Remote Support.





BEC Engineering Pty Ltd

Thank You

👤 Michael Drake-Brockman

📞 +0457 002000

✉️ mdrake-brockman@bec-engineering.com.au

🌐 <http://www.bec-engineering.com.au>

