



The background image shows a large, rusted metal ore car on a railway track. A blue metal frame with two vertical posts and a horizontal beam is positioned in front of the car. A yellow safety railing is in the foreground. On the right, an orange control box is mounted on a blue post. The box has a silver label with the text 'TUL602' and 'LGAP02-JB01'. Two black cables hang from the bottom of the box. The scene is outdoors, with a clear sky and some industrial structures in the background.

LGAP

LASER ORE CAR GAP DETECTION 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 Partially Dumped Ore Car Volumetric Profiling (LPDOC).
- Conveyor Bulk Measurement System (CBMS).
- Mobile Machine Collision Avoidance System (CAS).
- Radar Reclaimer Stockpile Faceup System.
- Stockpile profiling system.

And now....



LGAP

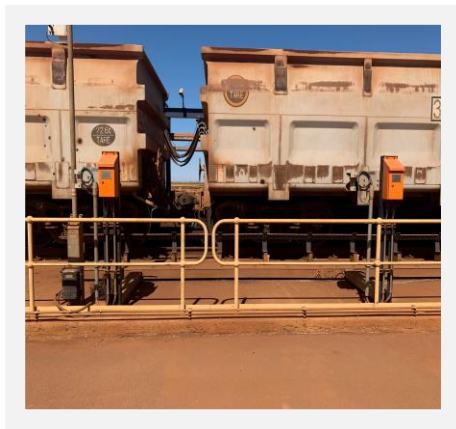
The system provides an innovative solution to the problem of accurately locating the gap between two ore cars for reliable indexer positioning & arm insertion.

Key Features



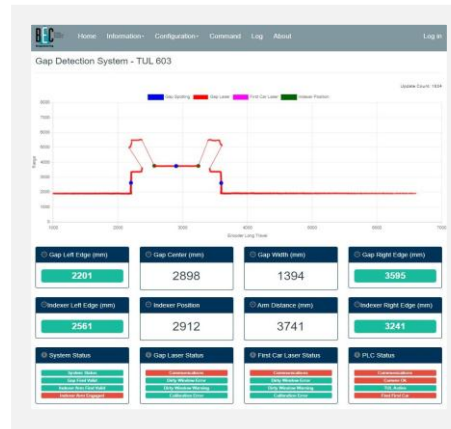
High Accuracy

Able to achieve < 3mm accuracy using industry proven LIDAR technology.



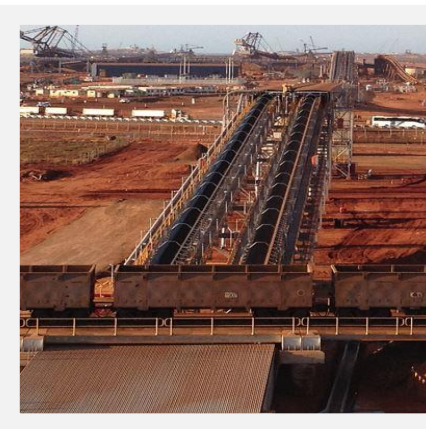
Reliable

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



Full Visualisation

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



Proven

With the initial install in 2018, LGAP has now been adopted across major ore handling facilities in the Pilbara.



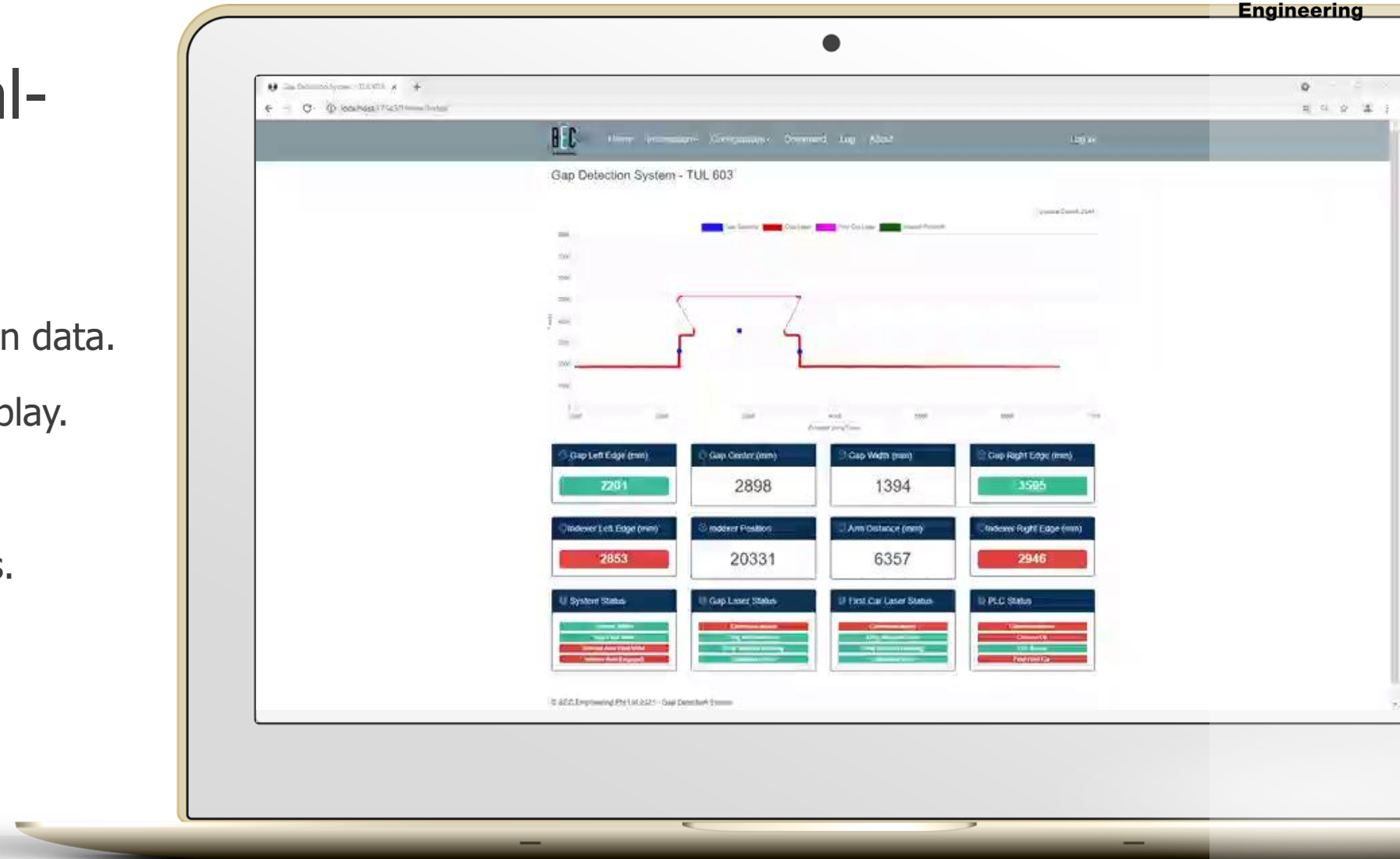
Support

Ongoing remote technical support available.

Web-Based Visualisation

LGAP provides real-time display of all critical data.

- Gap and indexer edge position data.
- Laser scan data graphical display.
- Status and alerts.
- Configuration and diagnostics.

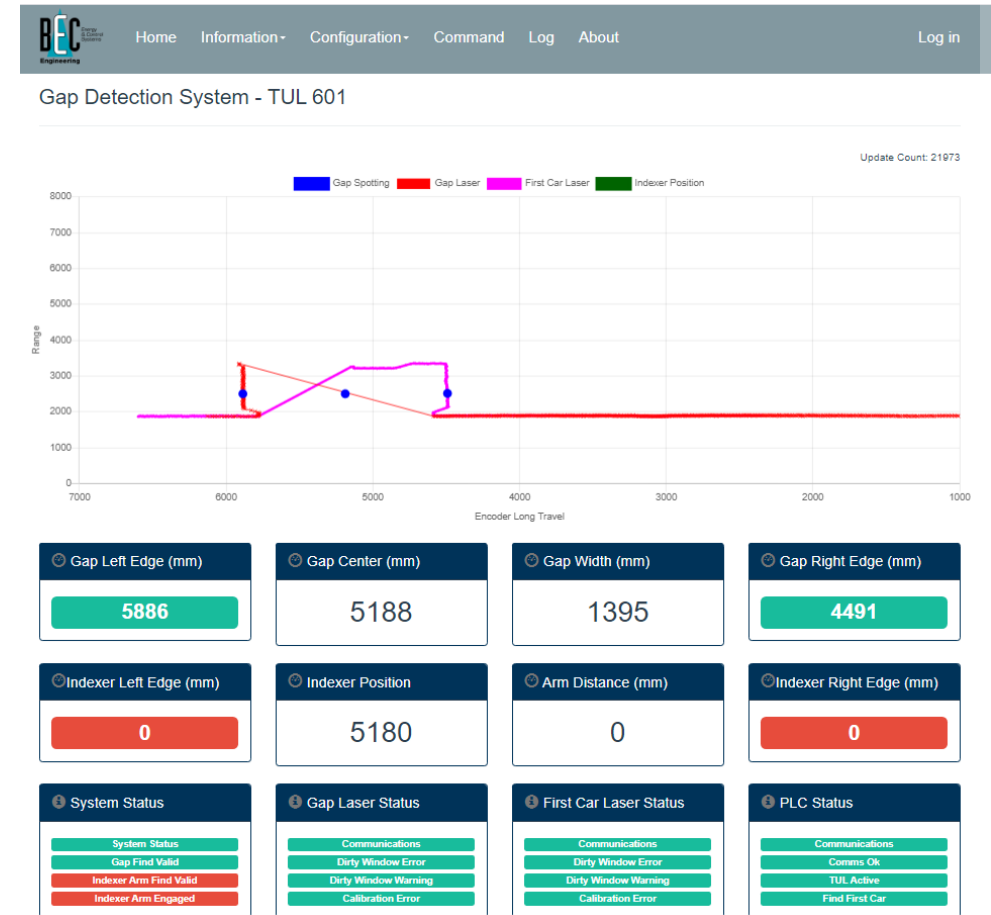


With the inclusion of a second laser, the LGAP will locate the first car gap, eliminating costly “hunting” delays associated with the initial pull back of the rake.



First Car Find

With the dual laser option, locating the position of the first car is fast and accurate.



Rake Dynamics, No Problem

LGAP continually tracks and reports the position of the gap to the PLC every 20ms.

This means that even if the rake moves during arm insertion, the indexer can be repositioned to ensure the cycle is completed.

No lost time due to over torque or gap lost events from PE cells.



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

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