



CASE STUDY



Application Background

Commodity:	Gold
Digging Conditions:	Medium impact / Medium abrasion
Machine:	Backhoe
Make & Model:	Liebherr R9200
Customer/Site:	Western Australian Mine
Date Installed:	Jan 2018

Location



The Solution



Titan 3330™ Load Haul Optimisation

The Outcome



Improved productivity



Reduced overloads & underloads

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Challenges

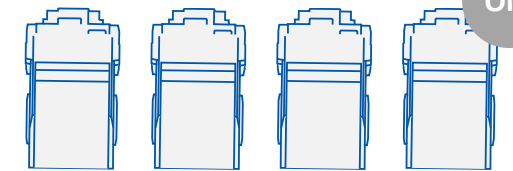
A Western Australian Gold miner recognized significant accuracy variation in their truck payload systems, as well as a need for a single point of reference for payload and production information. The challenge was placed to reduce both truck overloads and underloads, while increasing productivity using a single dig unit based productivity solution. CR Digital worked closely with the Miner to understand the problem and provide the solution.

The Solution

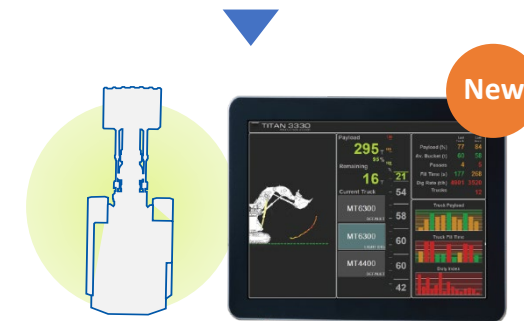
CR Digital's experienced field technicians and engineers worked with the Miner to review the conditions, existing base line data sets and maintenance downtime schedules. With this research, CR Digital was able to recommend the Titan 3330™ Load Haul Optimization system be installed directly onto their Liebherr R9200 backhoe.

CR Digital's production and duty monitoring system is specifically engineered to optimise the productivity of surface dig units by providing real-time feedback to operators on truck payload, machine duty and a suite of production metrics.

CR Digital field support teams worked with the Miner to conduct training with their operators. Training material included how to use the intuitive in-cabin touch screen interface and how to load trucks more accurately utilising the real time feedback. A comparison of the baseline period data to post-operator training data demonstrated the value of the Titan 3330™ system to their operation.



Multiple Data Reference Points



Single Data Reference Points

Figure 1 – Truck data is consolidated into the Titan making it the single point of reference for payload and production information.

CASE STUDY *(Continued)*

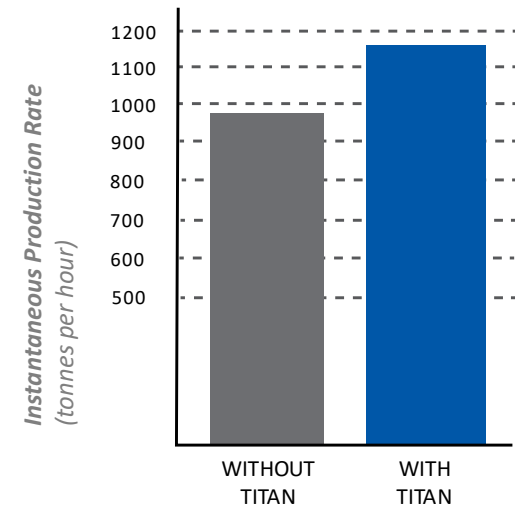
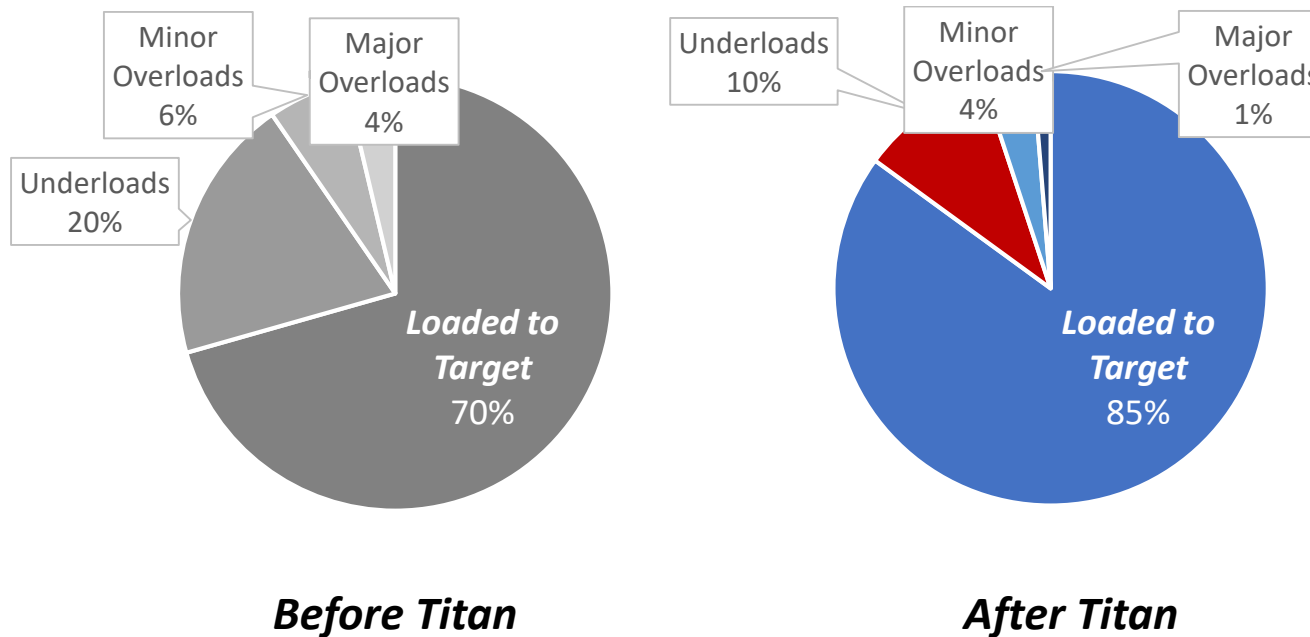
The Impact

The Titan 3330™ Load Haul Optimization system delivered:

- 1.2% reduction of truck Major Overloads (>120% rated capacity)
- 23% reduction of truck Underloads (<100% rated capacity)
- 15.5% increase in Instantaneous Productivity (1.4% increase in Operational Productivity)

Additional Benefits:

- ✓ 2% reduction of truck Minor Overloads (>110% rated capacity)
- ✓ 25 tonne increase in average truck payload



Production Rate
(Before and After)

Figure 2 – More trucks are loaded to target which means less underloads and overloads. This results in a greater product rate.

Titan 3330™ Load Haul Optimisation and Analysis and Improvement capability can improve your fleets performance today.