Trimble: Transforming the Way the World Works

Trimble provides the tools and support for the extraction, processing, loadout, distribution phases of quarry production for more efficient operations and higher profits. Contact your local dealer today to learn how easy it is to utilize technology that makes significant improvements to the aggregates workflow, optimize production, improve efficiency and lower your operating costs.

Improve task productivity across the quarry haul fleet

SITECH®

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LOADRITE H2250
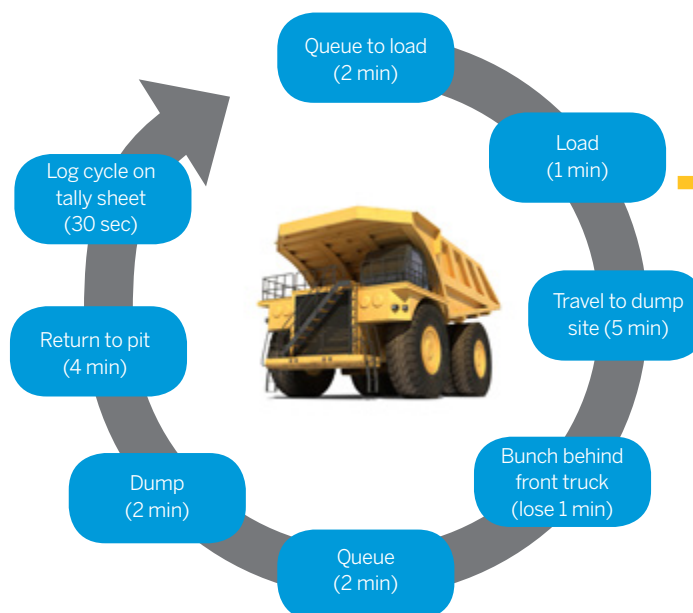# Haul Truck Monitor

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Optimize Your Haul Cycle Workflow

Counting and recording haul truck cycles is a tedious and error-prone exercise that few operators enjoy. Fleet managers also welcome any steps that remove workload from haul truck operators to allow them to focus on safe and productive material movement. For data-entry operators, the interpretation and alignment of paper-based tally sheets can be a complex and frustrating activity, so the arrival of the new LOADRITE H2250 haul truck monitor from Trimble, signals a welcome relief from these issues

H2250 Benefits:

▶ Accurate visibility of haul operations

▶ Optimized payload on every truck

▶ Lower and more consistent cycle times

▶ Unscheduled downtime reduced

▶ Cycles matched to primary crusher demand

▶ Lower idle times

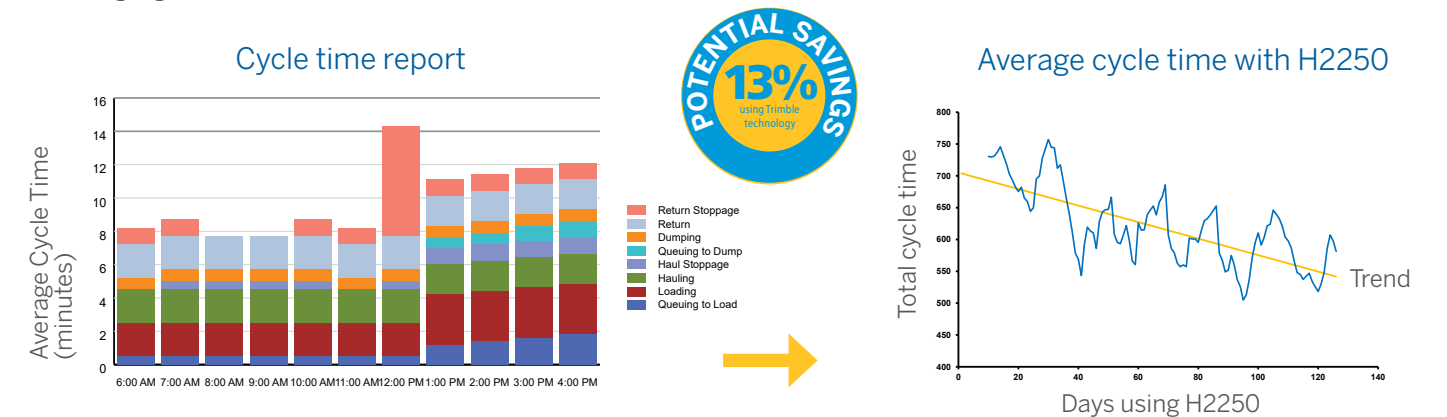▶ Lower cost per tonne

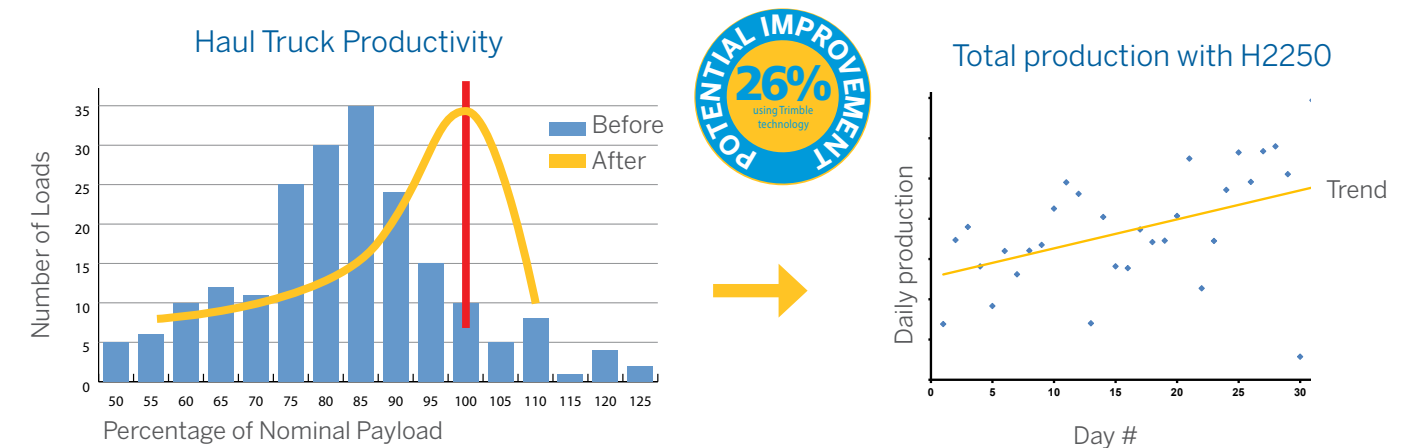▶ Improved overall production

INCREASED PRODUCTIVITY

H2250 provides accurate haul totals removing the need for tally sheets and production estimates. Reports help to highlight inefficient material movements.

Cycle time report

POTENTIAL SAVINGS
13%
using Trimble technology

Average cycle time with H2250

SHORTER CYCLE TIME

Cycle time reports show haul truck activity, loading time, haul time, and queuing time help fleet managers understand availability, and make improvements during the shift.

Haul Truck Productivity

POTENTIAL IMPROVEMENT
26%
using Trimble technology

Total production with H2250

TYPICAL HAUL TRUCK CYCLE

- Queue to load (2 min)
- Load (1 min)
- Travel to dump site (5 min)
- Bunch behind front truck (lose 1 min)
- Queue (2 min)
- Dump (2 min)
- Return to pit (4 min)
- Log cycle on tally sheet (30 sec)

OPTIMIZED WITH H2250

POTENTIAL SAVINGS
20%
using Trimble technology

- Queue to load (2 min)
- Load (1 min)
- Travel to dump site (5 min)
- Dump (2 min)
- Return to pit (4 min)

Typical haul truck cycles include many inefficient tasks and delays

THE H2250 HELPS PREVENT THE FOLLOWING ISSUES

▶ Unplanned down-time

▶ Under / over-loading

▶ Queuing

▶ Slow / inconsistent cycle time

▶ Tip over warning

▶ Excessive tire wear

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Say Goodbye to Tally Sheets

SAY GOODBYE TO TALLY SHEETS

The Trimble LOADRITE H2250 haul truck monitor provides near real-time process monitoring for quarry managers and supervisors. It also helps operators with information to improve task productivity across the quarry haul fleet.

H2250 PROVIDES:

▶ Automated product totals

▶ Save time by scrapping load sheets

▶ Avoid tabulating load sheets

▶ Accurate production figures

Tally sheets can be difficult to comprehend

H2250 formatted reports are accurate and easy to understand.

1 PRESSURE TRANSDUCERS:

Truck Payload is measured by pressure transducers connected to each of the four gas / oil suspension struts. (Two at the front, two at the rear). These pressure transducers measure the total load (weight) on the struts.

2 ANGLE SENSOR:

These are mounted on the excavator chassis frame. They provide machine angle and movement information used to compensate for variable ground slope conditions and provide greater accuracy of measured weights.

3 LCC MODEM WITH GPS:

The Trimble LCC provides fully autonomous GPS for accurate monitoring of position and motion. LCC also provides data transfer via cellular connection.

4 H2250 INDICATOR:

The indicator is the in-cab user interface for the operator to record and view the payload weight.

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Speed Limit Alerts

LOADRITE PRINTER

The printer delivers time-stamped and dated hard copies of all weighing information instantly.

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① Full Day Report
② LOADRITE
③ ID #:     1     Truck #1
④ Report Printed:
⑤  5:36 PM    9 SEP 2015
    Start:  12:00 AM   8 SEP

⑥ Totals:
    Sand        :        0.0 t
    22          :        0.0 t
    33          :       53.4 t

⑦ Load Counts:
    Sand        :          0
    22          :          0
    33          :          3

    Productivity Summary
    Total:        6935.9 t
    Loads:           442
    Distance:     396.3 km
    Operating:     19:51
    tph:          349.4
    Loads/hr:      22.3
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1 REPORT TYPE
Full day/part day

2 TITLE
Editable report header to distinguish between reports

3 ID#
The ID number of the system

4 REPORT PRINTED
The time and date of report printing

5 START
The beginning of the 24 hour period (time and date) that the report covers

6 REPORT TYPE
The beginning of the 24 hour period (time and date) that the report covers

7 REPORT TYPE
The number of loads for each 'Product'
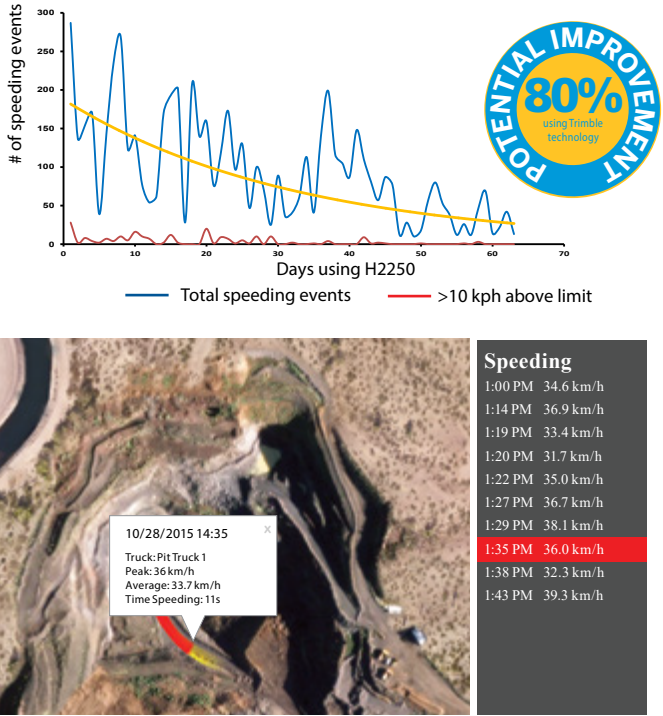
SPEED LIMIT ALERTS

The H2250 will display warning messages when the truck operates outside of normal operating parameters. Providing speeding, roll-over, tray-up, idle time, carry back and overloading alerts.This enables the operator to react to undesired truck operation before a problem occurs and in the most part, without the need for manager intervention. If the truck exceeds the speed limit, the indicator will sound an alert and display an on-screen message

SPEEDING REPORTS

After the first five seconds of speeding over the limit, the H2250 logs the speeding event for reporting via InsightHQ giving managers the tools to identify and confront speeding issues.

Days using H2250

# of speeding events

— Total speeding events   — >10 kph above limit

POTENTIAL IMPROVEMENT **80%** using Trimble technology

10/28/2015 14:35
Truck: Pit Truck 1
Peak: 36 km/h
Average: 33.7 km/h
Time Speeding: 11s

Speeding
1:00 PM 34.6 km/h
1:14 PM 36.9 km/h
1:19 PM 33.4 km/h
1:20 PM 31.7 km/h
1:22 PM 35.0 km/h
1:27 PM 36.7 km/h
1:29 PM 38.1 km/h
1:35 PM 36.0 km/h
1:38 PM 32.3 km/h
1:43 PM 39.3 km/h

The H2250 can export data to a Trimble printer or sync with InsightHQ (online reporting platform) to present reports on your mobile device. With InsightHQ, data from your LOADRITE haul truck, loader, excavator, and belt scales is available all in one place, and easy access for continuous improvement. InsightHQ provides visibility to respond to issues, optimize productivity, availability and performance during the shift.

SNAPSHOT

See all of your haul fleet productivity and process data at a glance. Compare operators and check that your haul fleet is meeting plant demand, adjusting to changes in cycle time or that product ratios are meeting targets. Loading efficiency data with an average load and hauling time is also available to view.

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