

Truck #54  
 Loads today: 19  
 Tons today: 3,965 t  
 Average payload: 33.7 t  
 Downtime: 02:11:44  
 Average cycle time: 00:10:19  
 Miles today: 254.6  
 Peak speed: 22.1 mph  
 Average speed: 19.5 mph

Optimize load/haul operations



# Smart Haul

# Optimize Load/Haul

Load/haul operations represent real opportunities to improve material moved per shift, lower cost per ton moved and accelerate mass haul operations.

With Trimble Smart Haul, you can track productivity and progress of load/haul operations to ensure you are on target to achieve your goals.

Smart Haul combines payload data from the excavator scale with haul fleet monitoring and cloud reporting to identify opportunities to move material with greater speed and efficiency.

The system is almost completely automated with only minimal interaction from the excavator operator. Payload is automatically assigned to each truck, and GPS tracking monitor truck movements, so operators can focus on other tasks and you can trust data accuracy.

## BENEFITS

- ▶ Accurate visibility of haul operations
- ▶ Optimized payload on every truck
- ▶ Lower and more consistent cycle times
- ▶ Unscheduled downtime and project delays reduced
- ▶ Cycles matched to primary crusher demand
- ▶ Lower idle times
- ▶ Lower cost per tonne moved
- ▶ Improved overall production
- ▶ Improve haul safety with driver alerts and reporting

## REDUCE WASTE

- ▶ Under / over-loading
- ▶ Queuing /line-ups
- ▶ Slow / inconsistent cycle times
- ▶ Truck rollover
- ▶ Excessive tire wear

## FASTER AND MORE CONSISTENT CYCLES

Typical Load/Haul Cycle



Optimized with Smart Haul

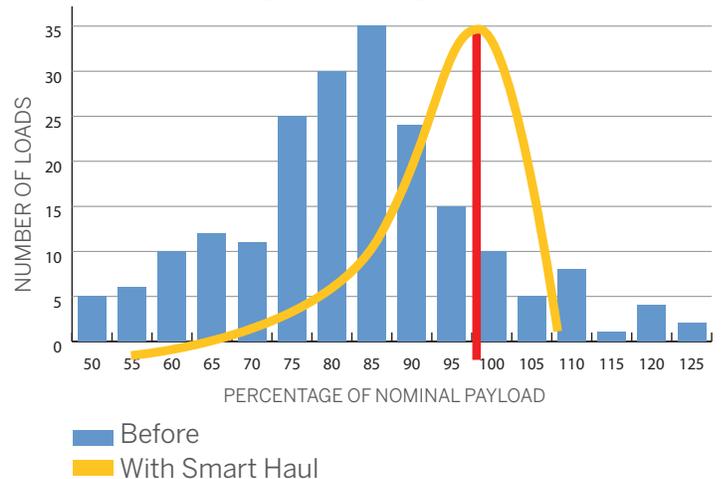


## HIGHER PRODUCTION

Load and haul systems provide accurate haul totals removing the need for tally sheets and production estimates. Reports help to highlight inefficient material movements. It is also a powerful tool for tracking sub-contractor progress with accurate, real-time, electronic data providing a single source of the truth.

Take control of your payload variance, with accurate loadout. Smart Haul helps prevent overloading, and reduces underloading, to optimize every truck and maximize total production by increasing tons per shift.

HAUL TRUCK PRODUCTIVITY

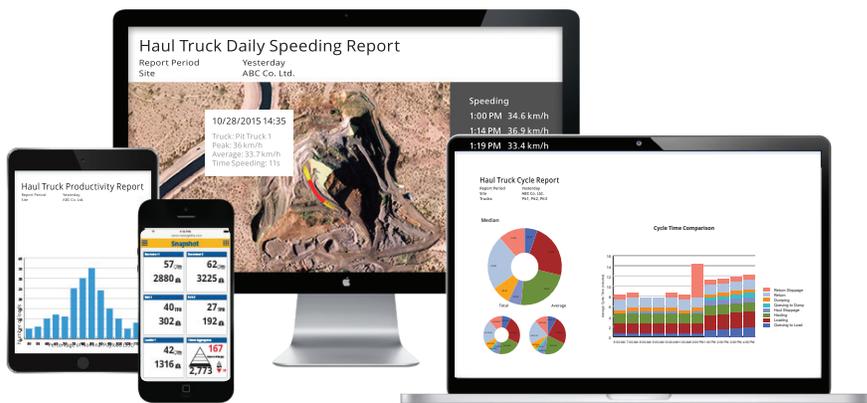
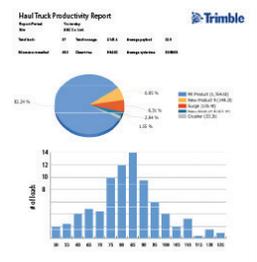




# Automated Haul Tracking

## SAY GOODBYE TO TALLY SHEETS

Smart Haul provides real-time process monitoring of load and haul processes. Report are clear, accurate and easy to understand.



## SPEEDING REPORTS

Smart Haul logs the truck speed to identify speeding events and slow sections of haul roads, ranks and maps the location on a map to make it easy to manage truck speed issues.

## 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.



## SAFETY ALERTS

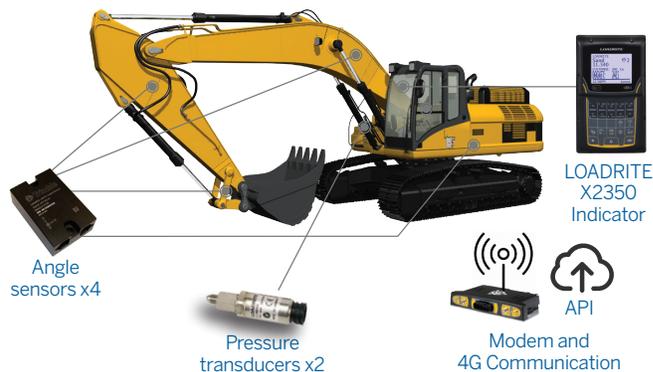
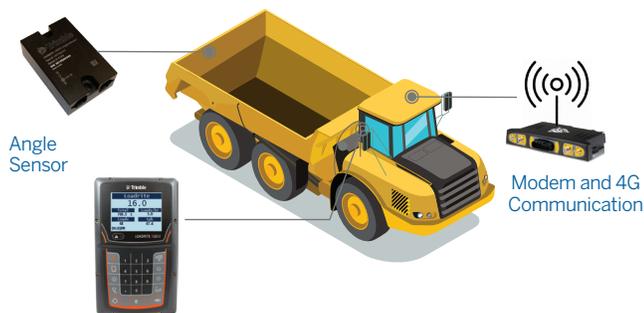
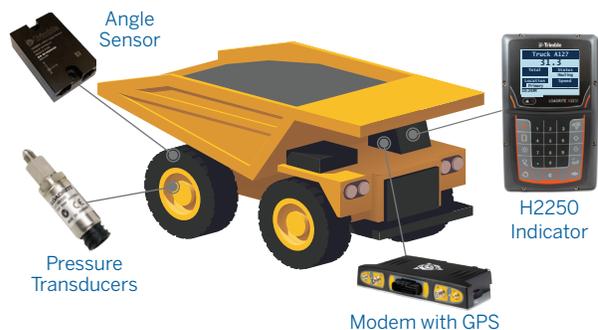
The H2250 will display warning messages when the truck operates outside of normal operating parameters. Providing speeding, roll-over, tray-up, idle time, carry back and overloading alerts. This enables the operator to react to undesired truck operation before a problem occurs and in the most part, without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





# How It Works

Smart Haul supports a mixed fleet across every make or model of excavator, mining excavator, rigid body haul truck or ADT. Installations are quicker than ever before with full calibration, training and support offered.



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