



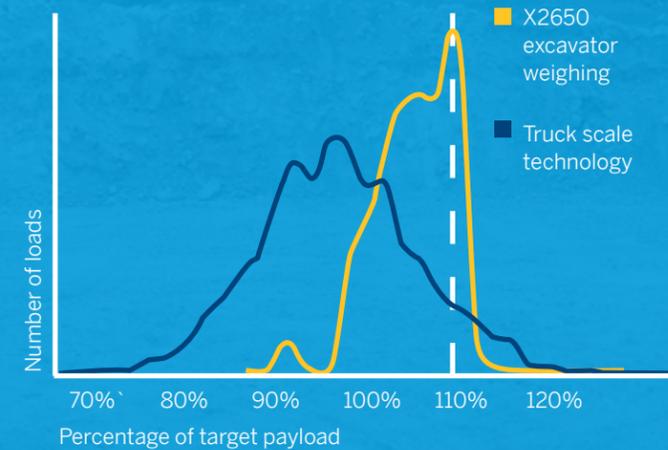
Maximize payload,  
maximize profit

# LOADRITE X2650 Excavator Scales

# Maximize payload, maximize profit



## EXCAVATOR VS. TRUCK SCALES



Haul truck payload measurement systems are useful but only provide suitable information after the truck has left the load out location. The driver must then either accept an under or overload, or return to the face to dump the load. All of which compromise productivity.

If the truck is over-loaded then the truck may slow, and reduce cycle-times. Likewise, if the truck is under-loaded, it has lost the opportunity to move maximum payload. With the X2650 you can ensure payloads are on target and production levels are sufficient to maintain the life of mine estimates.

## ACCURATELY MEASURE PAYLOADS ON THE LARGEST HYDRAULIC EXCAVATORS IN THE WORLD.

The X2650 onboard payload measurement system is the most effective tool to improve face and pit productivity. It provides bucket-by-bucket payload information to optimize the load-out of haul trucks. The X2650 provides accurate weighing to within +/-3% without disruption to the normal operation of hydraulic backhoe excavators. Operators can easily weigh every bucket to determine the payload of each truck with one touch, ensuring maximum productivity.

Visibility of truck payload prevents overloading and results in:

### Improved profits

- ▶ Maximize tons per hour
- ▶ Minimize fuel costs
- ▶ Reduce machine down-time by optimizing load quotas
- ▶ Extend tire life

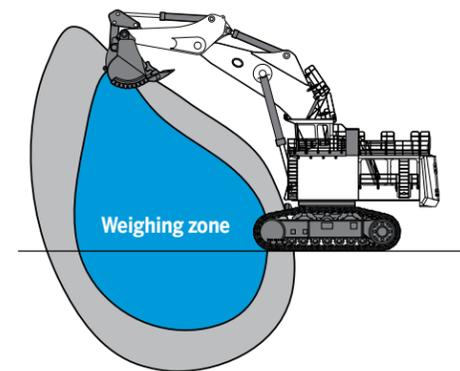
- ▶ Prevent haul road damage
- ▶ Reduce haul truck maintenance costs from overloading

### Increase productivity

- ▶ Streamline workflow
- ▶ Prevent truck under-loading
- ▶ Load to target payload consistently to increase tons/day
- ▶ Reduce cycle times
- ▶ Prevent truck turn-around or tip-off
- ▶ Improve overall equipment effectiveness

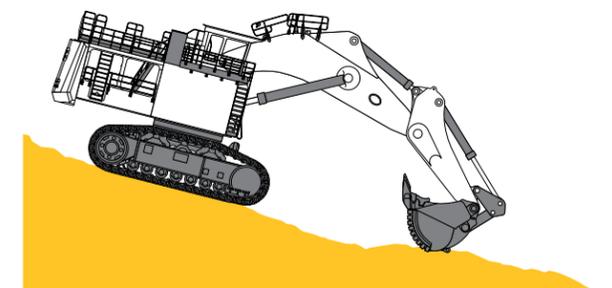
### Process improvement

- ▶ Track trucks loading
- ▶ Monitor tons moved
- ▶ Track and benchmark excavator and operator efficiency



## ADJUSTABLE WEIGHING ZONES

Configure your excavator to accurately weigh when loading from different levels, such as benches. Dynamic payload weighing system for bucket-by-bucket optimization of your load-out process.



## SLOPE COMPENSATION

Designed and engineered specifically for hydraulic excavators, LOADRITE X2650 excavator scales use slope compensation technology to provide accurate weighing over a wide range of demanding operating conditions.

# Specifications

Your LOADRITE X2650 is packed with a wide range of features to assist in your operations. For ease of use, most operators will only need to use three buttons: Add, Clear, Zero.

## WEIGHING MODES

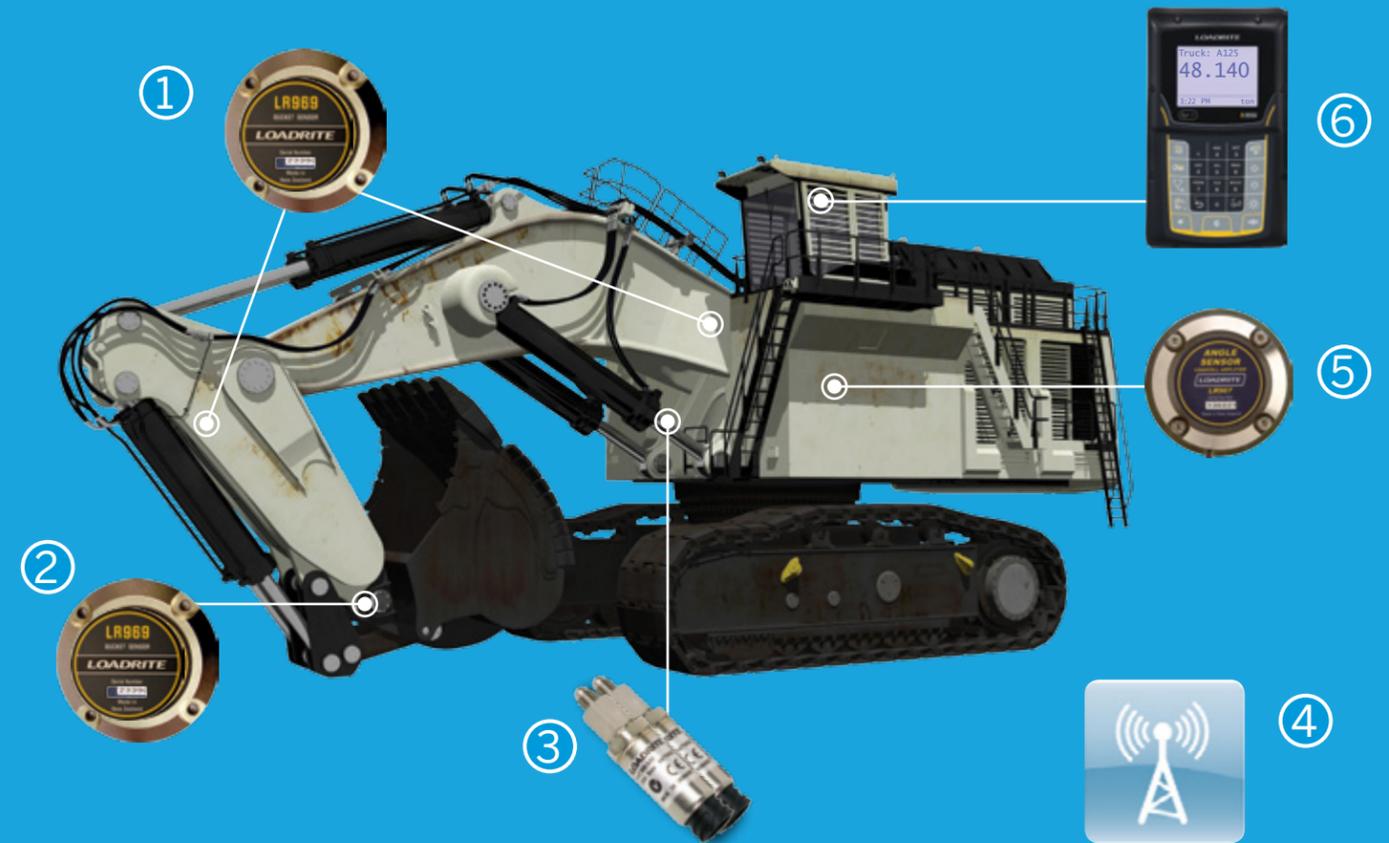
- ▶ Total
- ▶ Target
- ▶ Over-target
- ▶ Short total (e.g. truck)
- ▶ Long total (e.g. material total)
- ▶ Auto-add (saves operator time)
- ▶ Auto-target (cross reference truck to target load)

## MANAGEMENT

- ▶ KPIs (track productivity)
- ▶ Material types/names (>20 names)
- ▶ Load count (# of loads per truck)
- ▶ Vehicle ID's
- ▶ Location
- ▶ Destination
- ▶ Blast ID
- ▶ Load out event ID's

## OTHER

- ▶ Payload limit warning
- ▶ Recall/subtract last load function
- ▶ Easy zeroing to tare the system
- ▶ Real-time clock, calendar



Specifications	
Supply voltage	12 ~ 32 VDC
Current consumption	160 mA typical, 350 mA max., 3 A max (LP950 printer)
Power supply protection	Automotive power supply transient suppression exceeds SAE specifications for DC automotive power supply transients
Dimensions	145 x 240 x 110 mm (5.7 x 9.4 x 4.3 in)
Weight	1.5 kg (3.3 Lbs)
Temperature	Operating: -10°C ~ 50°C (14°F ~ 122°F), Storage: -50°C ~ 100°C (-58°F ~ 212°F)
Environmental Protection	Indicator: IP54, Trigger and pressure transducers: IP69
Languages	English, French, Spanish, German, Br.Portuguese, Dutch, Swedish, Turkish, Danish, Norwegian, Italian.
Certifications	CE, C-tick
Warranty	1 year parts, 1 year labor

- 1 Arm angle sensors**  
These sensors measure the position of the boom and stick ensuring accurate payload measurement throughout the operating range of the machine.
- 2 Bucket Sensor**  
The bucket sensor measures the angle of the bucket to provide increased weighing performance and a larger operating area for the machine operator.
- 3 Pressure Transducers**  
The pressure transducers connect to the excavators hydraulic system. They sense the hydraulic pressure in the boom lift cylinders as the load is lifted.
- 4 Data Communication**  
LOADRITE offers a range of data-communication

- 5 Angle Sensor**  
Two sensors 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.
- 6 X2650 Indicator**  
Mounted in the cab this is the processing engine of the LOADRITE weighing system. It receives data from the sensors and calculates weight in real time.



# Track Your Productivity



Measure, compare, improve.

## REPORTING

Track your tons per hour, cycle times, and total tonnage moved by your excavators and trucks. With easy reporting, you know exactly how your company is running.

The LOADRITE Material Management System (MMS) turns data from mobile equipment into management information reporting designed specifically for the needs of your business.

Equipment operators work as normal, entering data with the easy-to-use features on the LOADRITE scale.

Data is sent from the mobile equipment to the office using one of our data communication options including data module, wifi, radio or wireless GPRS modem.

LOADRITE MMS provides an interface that connects managers to real-time site information through a series of reports.



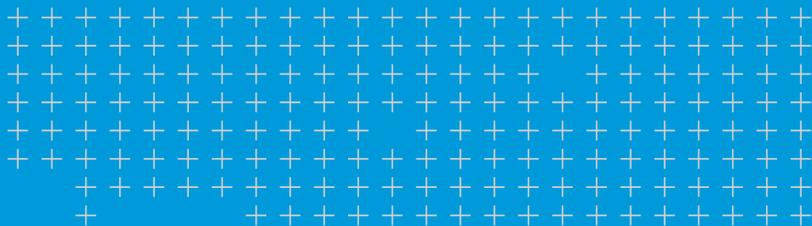
## SERVICE AND SUPPORT

Your system is supported in-field to ensure that your equipment is running with minimum downtime. Your system will be installed and calibrated for your equipment by one of our certified LOADRITE installers.

Then our experts will work with you to set up and maintain your onboard weighing solution, including reporting tools to ensure you get the most return from your LOADRITE system.

## About Trimble LOADRITE

- ▶ Trimble LOADRITE has been the leader in the field of payload weighing and measurement since 1979
- ▶ LOADRITE onboard scales ensure optimal loading and quality data for productivity analysis
- ▶ LOADRITE systems are installed on wheel loaders, excavators, conveyor belts and other equipment across a range of industries—construction, aggregate, mining, waste management, and more
- ▶ LOADRITE systems are installed and supported worldwide and are now part of the portfolio of site wide productivity solutions from Trimble



# Trimble: Transforming the Way the World Works

Trimble is transforming the way mines work by connecting trusted mining, processing and business data to all the people who need it to make more informed and quicker decisions for safe and profitable mining.



## YOUR TRIMBLE LOADRITE PROVIDER

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