



LoadWise is an automated oversize rock detection system that identifies oversized rocks in the pit as the truck is loaded. LoadWise provides real-time decision support enabling an optimised truck diversion strategy and preventing crusher downtime. With LoadWise, you can:

- ✓ Know in real-time when oversize rocks are loaded onto trucks
- ✓ Divert oversize loads away from the crusher to prevent downtime and reduce crushing costs
- ✓ Get full visibility of loading practices across the site
- ✓ Tune the system dynamically to achieve optimal truck diversion rates and material throughput targets

## Features + benefits:

- Retro-fitted solution to suit any type of haul truck and tray
- Low-cost solution which can be adjusted to various mine characteristics and is scalable to suit any mine size
- Easy, straight-forward hardware integration and quick installation procedure
- Optimised for easy maintenance, harsh environments, and typical mining operational conditions
- Light, durable and easily interchangeable components with extended operation durations for reduced disruption
- Flexible integration and interface options

LoadWise is a hardware and software solution that can quickly be retrofitted to any vehicle to mitigate the oversized ore issue straight out of the box. Crusher blockages due to oversized ore are often one of the top 3 causes for ore handling plant downtime. Reducing oversized ore blockages alone has the potential to boost throughput by up to 5%.

- LoadWise is highly reliable and can be tuned to match the mine characteristic of where the solution is deployed. It is easily scalable and can be deployed on a single truck or be rolled out across an entire fleet.
- Limitations of camera-based solutions (due to high-dust and low visibility environments) do not apply to LoadWise
- On-board, automated data processing allows for real-time detection of oversized ore and real-time notifications on board the haul truck
- Self-managed, smart communications efficiently transfer data, handle network drop-outs and enable independent LoadWise operation or full system integration with an existing site network
- In addition to reducing oversized ore blockages, the system can be simultaneously used to deliver improvements to drilling and blasting operations, safety outcomes for haul truck operators, and maintenance of haul roads



*Visually, it is almost impossible to detect oversized ore.*



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### Case Study

*An oversized ore blockage in the ROM (Run of Mine) bin or primary crusher typically resulted in downtime of 10 – 40 minutes, if being cleared using a rock breaker. This could take significantly longer for larger rocks or instances that require manual intervention.*

*Downtime from oversized ore blockages accounted for 4% of lost production throughout the year for a primary crusher on the iron ore mine site. The site's capacity was 20mtpa and ore blockages resulted in 800ktpa of lost production. At price of \$150 per tonne, this amounted to production losses of approx \$120 million per year.*

*The LoadWise system was demonstrated to reduce these blockages by up to 80%, and provide an increase in revenue of up to \$96 million per year.*

**Get in touch with us to find out more about how LoadWise can reduce blockages to your load haul operations. Contact AMOG's Digital Team at:**

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