



BeltMetrics™

**Easy and accurate 3D analysis
of the material transported by conveyor belts.**

BeltMetrics uses artificial intelligence and 3D (stereo) imaging to analyze the particle size and monitor the bulk volume of material transported by conveyor belts – **no belt cuts, calibration, or scaling objects required.**

Real-time analysis that neither interrupts production nor requires belt cuts.

Features



Particle Size Analysis

Optimize crusher feed size with continual particle size analysis.



Empty Belt Detection

Detect empty belts to alert mines to blocked chutes.



Volume Sensing

Optimize production by continually measuring transported material.

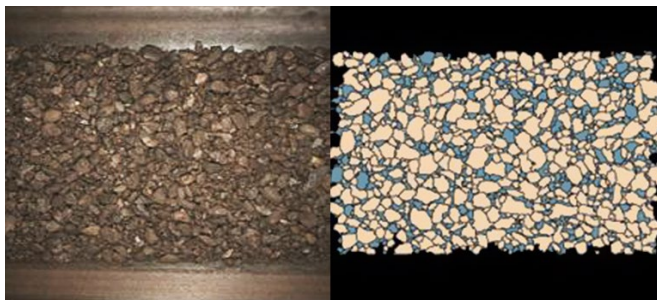


Load Profiling

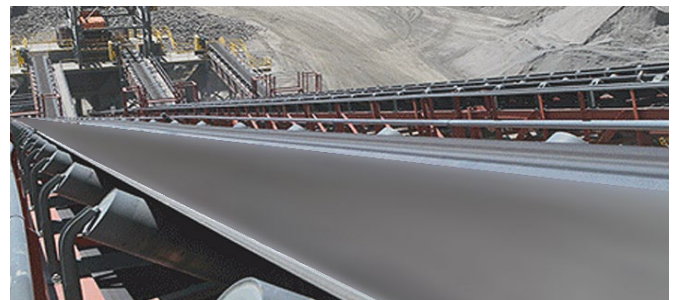
Prevent uneven belt wear and conveyor damage with accurate load profiling.

Specifications

| | |
|---|---|
| Minimum Detectable Rock Size (at 1.5 m) | 0.9 cm |
| Depth Resolution (at 1.5 m) | 0.3 cm |
| Maximum Fragmentation Processing Rate | 1 measurement/minute |
| Camera Resolution | 2,048 x 1,536 pixels (each camera) |
| Operating Temperature | -40 °C to 45 °C |
| Dimensions | (490 x 490 x 280) mm + customizable frame |
| Weight | 17.9 kg (main assembly, excluding frame) |



Particle Size Analysis



Empty Belt Detection

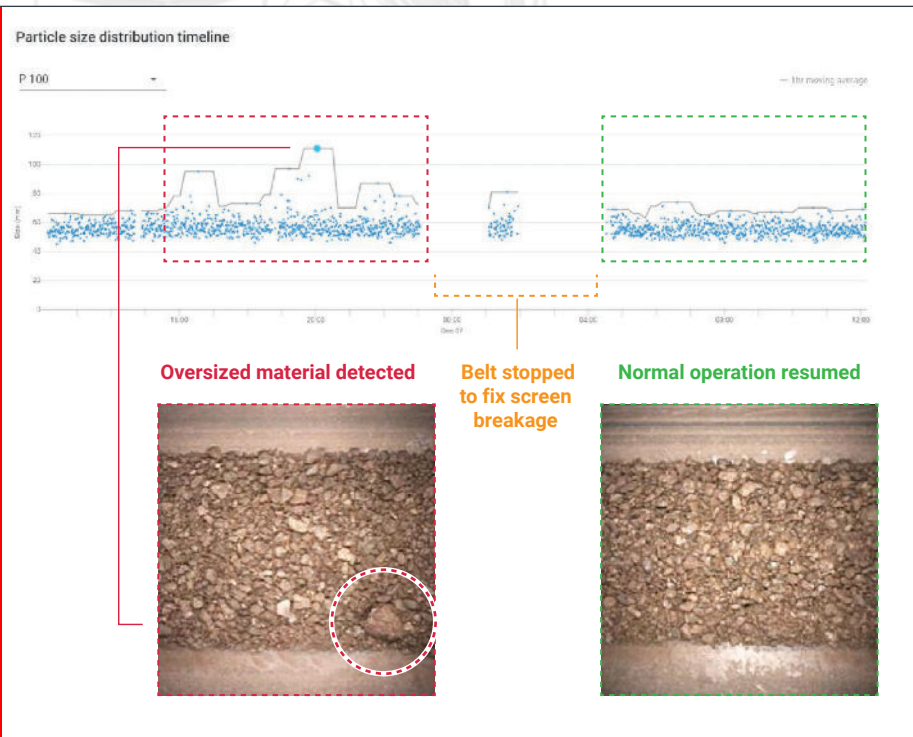
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How BeltMetrics helps an Australian mine prevent contamination events

This iron ore mine in the Pilbara uses the BeltMetrics particle size analysis and automated notification functions to prevent contamination events.

In this **sample report**, the site receives a notification from BeltMetrics indicating that oversized material has been detected. The mine then stops the belt and fixes the screen breakage so that normal operation can resume.

Mine-to-mill optimization begins with a clear understanding and ongoing assessment of blasting, crushing, and grinding operations. BeltMetrics is an accurate alternative to sieve analysis that doesn't interrupt production. Use particle size data collected with BeltMetrics to optimize crusher gap settings.



Rugged, Self-Cleaning 3D Camera

