



FRAGTRACK™ CRUSHER

AUTOMATED PRE-CRUSHER FRAGMENTATION MEASUREMENT AND ANALYSIS

FRAGTrack™ Crusher is a state-of-the-art fragmentation measurement tool that uses advanced machine vision technologies to enable autonomous triggering and processing without interfering with the haulage operational continuity. It is designed to be installed at the crusher feed point to measure and provide Particle Size Distribution (PSD) of material on the truck during the tipping operation.

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FRAGTrack™ Crusher can deliver sustainable improvements that:



Reduces operation costs



Maximises productivity



Improves safety



Enhances visibility of blast outcomes

FEATURES AND BENEFITS

ADVANCED BINOCULAR MACHINE VISION AND ARTIFICIAL INTELLIGENCE (AI) TECHNOLOGY

Unique hybrid AI and 2D/3D imaging with proprietary triggering and filtering algorithms allow direct particle measurement, reducing reliance on curve fitting for the smallest size fractions. Raw data and Rosin Rammler options are also available for modelling unmeasured fractions.

DRILL AND BLAST OPTIMISATION

Reliable and accurate fragmentation information enables optimisation of drill and blast parameters for crusher requirements through a quantitative evaluation of blasting performance and blast design adjustments. Crusher throughput can also be maximised by evaluating crusher performance through an automated fragmentation analysis association pre and post crusher.

INSTALL, COMMISSION, OPTIMISE AND MAINTAIN WITHOUT ON-SITE HARDWARE SUPPORT

Users will be trained and supported throughout the FRAGTrack™ installation and operation process. Once installed and connected to the network, FRAGTrack™'s performance can be maintained, optimised, and updated without requiring the team to perform on-site hardware calibration.

UPSTREAM AND DOWNSTREAM DATA INTEGRATION

Custom Fleet Management System (FMS) interface associates the measured PSD data to the tipping truck identifier, enabling a direct association of fragmentation measurements to each blast. Downstream data integration through Open Platform Communication (OPC UA) server standard allows real-time streaming of fragmentation data to the site's Distributed Control Systems (DCS) for alerts and control.

UNPRECEDENTED REAL-TIME WEB-BASED INTERFACE FOR SUPERIOR ANALYSIS AND DECISION MAKING

The use of cloud architecture offers a range of data transfer and integration points, promoting centralised collaboration amongst stakeholders, from the plant control room to the data science team. With the integration of Microsoft Azure solution, the edge data can now sync in real-time to the cloud. Hence, unleashing unprecedented cloud capabilities.

WHO SHOULD USE FRAGTRACK™ CRUSHER

- Drill and blast superintendent
- Mill operators and managers
- Metallurgists and metallurgy managers
- Business improvement (mine-to-mill) teams
- Mining and quarry engineers/consultants



FRAGTrack™ Crusher installation



FRAGTrack™ Crusher camera view. Measurements are captured and processed in real-time during the tipping operation.

To learn more about FRAGTrack™ Crusher and how it can support your operations today, please contact your local Orica representative or visit [ora.com/FRAGTrack](https://www.ora.com/FRAGTrack)

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