

# SPLIT ENGINEERING

Digital Image Analysis Systems • Software • Service

**Quantify Your  
Fragmentation**

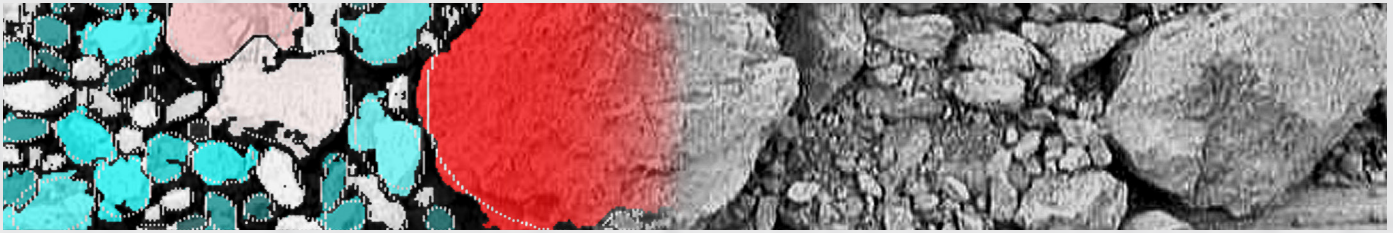


**SPLIT-TRUCKCAM**



# Take control of your process

## Increase throughput while reducing operations costs



### Why Split-TruckCam?

*Split-TruckCam™ Systems provide a real-time measurement of the particle size distribution (PSD) of post-blasted rock delivered to the primary crusher. Split Engineering's innovative solution provides operators with new opportunities to effectively and efficiently manage the transition from the pit to the plant. Some of the benefits of measuring fragmentation of the run of mine material include:*

#### **Boulder Detection at the Crusher**

► The data from Split-Online can be integrated with operator SCADA / HMI to provide early indications of large boulders before being dumped into the crusher. Immediate stoppage of dumping will prevent choking of the crusher. Operators will reduce crusher cleaning and rock hammering resulting in less crusher down-time. More crusher operation time will lead to greater throughput that will increase revenues.

#### **Drill and Blast Design (Pit-to-Plant)**

► Fragmentation Profile: Size at the muck pile influences dig rates, shovel/truck wear, maintenance and overall production in many different ways.

► Rock fragmentation from different blast designs can be evaluated to determine the most effective parameters for oversize reduction and crusher throughput.

#### **Quality Control**

► A larger, statistically relevant data set so that ore size changes are detected.

### Mission Statement

Split Engineering creates customer value through facilitating optimal and efficient mine operations by custom developing and implementing the most technologically advanced techniques of image analysis. Split Engineering will maintain its reputation in the mining industry for exceeding customer expectations through exemplary customer service.

► The Split-TruckCam system uses advanced algorithms to detect dust, shadows, variable light conditions to discard images of poor quality and process only images of good quality.

#### **Primary Crusher Feed**

► Optimize blasting: Measurement of primary crusher feed provides feedback to the blast plan.

► Relate ore type variation feeding the comminution circuit to help forecast crusher throughput.

► Allows direct correlation of crusher performance to ore size and crusher reduction ratios of feed to product.

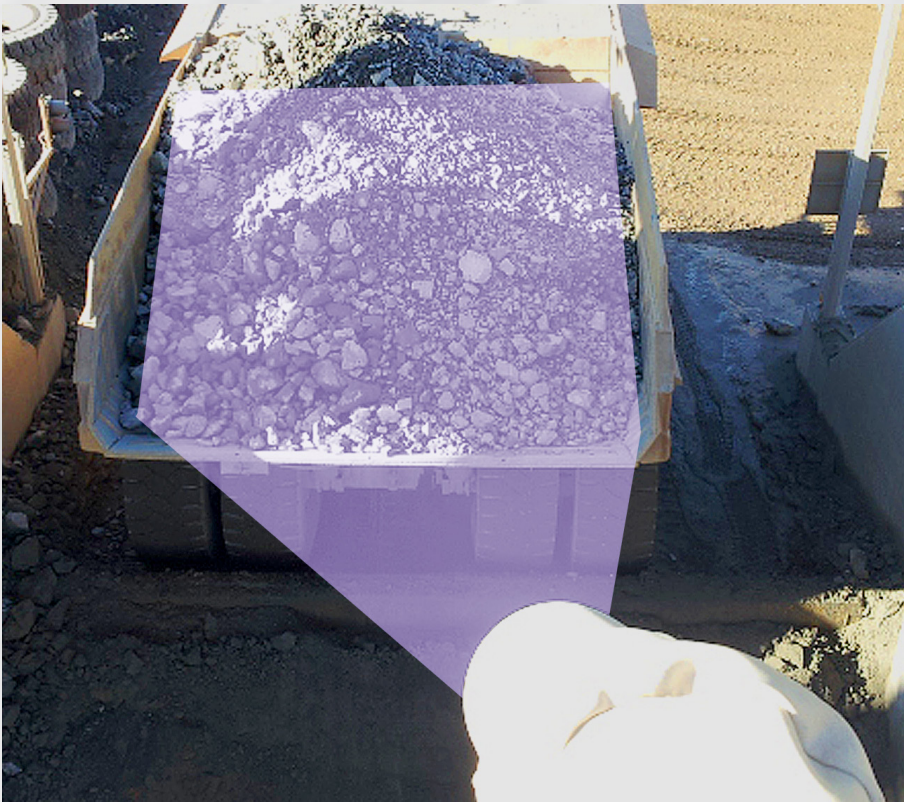
### Key Benefits of Split-TruckCam

► Immediate feedback to the mine on blast performance;

► Feed forward to the plant on what is coming from the mine;

► Correlation of PSD to operational performance;

► Enhanced process control decisions.



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