How Rajant and MineSense is Fail-Proof for Compactor Operations

Constant movement. Dense machinery. Broken footage. Most compactor systems can't monitor and prevent downtime from broken teeth within the bucket truck. **Rajant + MineSense can.**

MineSense + Rajant Kinetic Mesh®	Traditional Methods
Dynamic Detection • Detect lost shovel teeth directly from the bucket. • Receive an issue notification directly at the operator station to pause operations if needed.	**Delayed Maintenance Detection** • Discover bucket and shovel issues after the shovel finishes its task. • Lost shovel teeth can end up in a crusher.
Built for the Bucket • Place cameras and radio tech directly on the bucket to analyze every load's composition directly. • Rajant BreadCrumbs® enable high dynamic bandwidth delivery in the worst conditions.	**Unable to Survive Beyond the Shovel House** • Traditional cameras and radios mounted on the bucket only survive after a few digs. • Other monitoring systems are mounted to the shovel house and unable to obtain the level of analysis.
Built for Beyond the Bucket • Rajant mesh technology allows data to flow to the network at large if needed. • Send analysis to managers and surveyors directly without large downloads or downtime.	**USB Drives and Radio Comms** • Relies on operators to report compositions and missing teeth directly over radio comms, which get lost easily. • Data can be stored but isolated systems require manual transfer via physical media.
Keep Crushers Operational • Know exactly what each load carries before it gets dumped. • Prevent unwanted objects from being delivered into the crusher.	**Recurring Crusher Outages** • Traditional monitoring lacks the insight to track and report objects. • Crushers often breaking down often for unknown reasons.

What This Means for **Mine Operations**

- Enables preventative maintenance, extending crusher lifespan.
- Maximizes equipment availability and reliability.
- Reduces risks associated with downtime, component replacement, and maintenance labor.
- Mitigates safety risks by identifying potential foreign objects before failure.

NOT BOUND BY TERRAIN
NOT BOUND BY INFRASTRUCTURE
Build without limits.
Scale without constraints.
Win.

RAJANT Kinetic Mesh® Networks

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