

METAL LOSS MONITOR

IDENTIFIES THE LOSS OF VALUABLE METALS



METAL LOSS MONITOR

Have you ever wondered how much valuable metal passes through your yard and is not recovered? Now, you can stop wondering and start doing something about it.

The **NEW Eriez Metal Loss Monitor** continuously scans your residue stream for metal that has escaped your process and is headed for landfill disposal.

Identify the Loss

This monitor will answer nagging questions like:

- Is your system performing better or worse over time?
- Does your equipment need an adjustment or maintenance?
- Do you need more or different separators to reduce the metal losses?

The **MLM** has a counter that can be reset hourly, daily or even for each disposal truck load. If a disposal truck is judged to be heavily loaded with valuable metal, yard management can prevent it from being landfilled.

The Data Acquisition and Reporting package offers endless possibilities for process improvements using trend analysis and statistical process control. Finally, you have real data on metal losses. And, the metal loss data can be made instantly visible to anyone, anywhere on the globe via Eriez Remote Reporting, whereby text alerts are sent whenever losses rise above a prescribed number. You do not need to be "on the yard" to know what is happening or if things are running well.

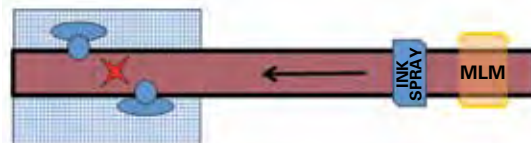
Eriez' Metal Loss Monitor:

- **Rugged composite construction**
- **Cantilevered design installs without cutting the belt**
- **Positioned on the final flat or trough picking belt conveyor**
- **Will not "see" metal lacing or repair clips**
- **NEMA 4 Controls with optional wireless transmitter**
- **No balancing, tuning or maintenance required**



Positioning the Metal Loss Monitor

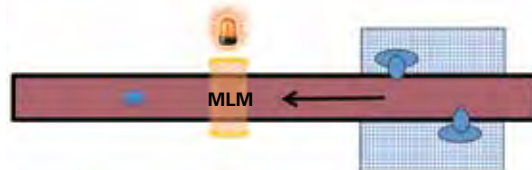
Place monitor **upstream** for hand picking assistance:



Optional Ink Marker System

Ink spot alerts the picker where to search

Place monitor **downstream** of pickers before bunker:



Management can track the pickers' performance, provide incentives and better determine how many pickers are necessary.

Metal that passes the monitor produces an alarm signal (horn/beacon) and the event is recorded in a data file



**Sending Valuable
Metals to Landfill?**

Fix the Problem

Over time the **Metal Loss Monitor** will help diagnose specific weaknesses in an operator's system. One goal is to gradually lower the pre-set threshold and reduce the physical count of metals escaping the process. The **MLM** supports Eriez' ongoing efforts to improve your grade/recovery curve by providing absolute feedback on recovery performance.

Eriez Data Acquisition:

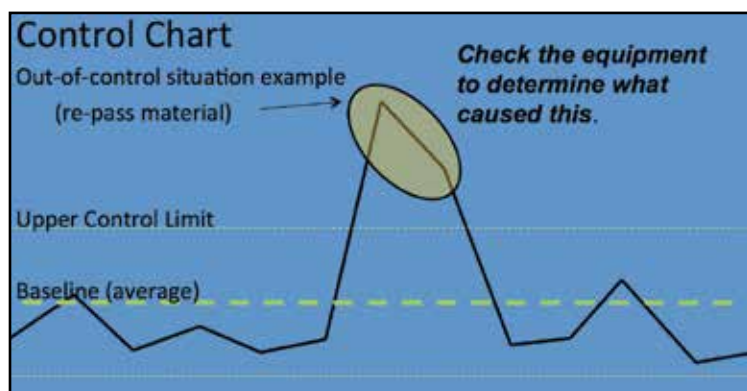
- Diagnostic tool continuously analyzes fluff stream
- Online data collection with real-time graphs and trend analysis
- Optional wireless data transmission
- Remote reporting
- Sounds alarms and sends Text Alerts for immediate action

Other Benefits:

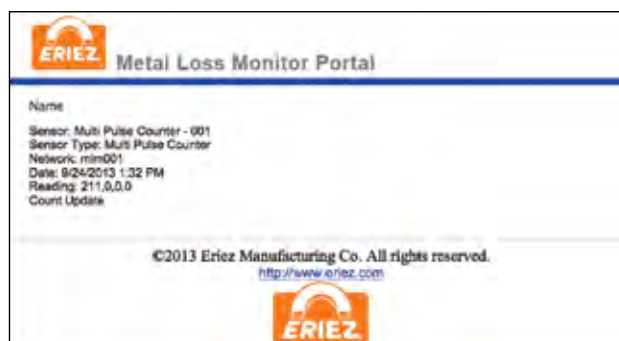
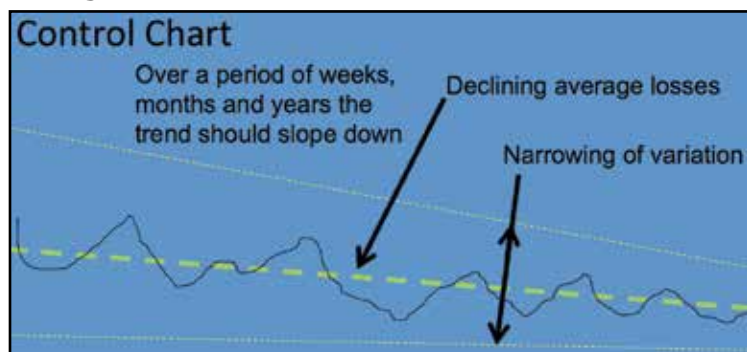
- Provides hand-picking feedback
- Indicates a process problem has developed
- Helps quantify and reduce metal sent to landfills



Control Limits



Progress Trend



Sample Text Alert showing excessive metal count

METAL LOSS MONITOR



Specifications

Electrical

Line Power	Dual primary power transformer for 115/220V $\pm 10\%$; 50/60 Hz; 1200/2400 watts maximum, 1 phase
Indicators	"System ready", "system fault" and "system metal" indicator lamps located on the front panel of controller

Mechanical

Coils	Embedded or impact resistant molded fiberglass
Coils Support Structure	Fiberglass

Accessories

Splice Detector	High performance proximity device to allow belt splice to pass sensor
Marker System	Designed to accurately mark the location of metal
Constant Voltage Transformer	Corrects power fluctuations and protects against voltage spikes
Remote Data Reporting	See page 3

Note: Some safety warning labels or guarding may have been removed before photographing this equipment.

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