



Ohio Magnetics performs on-site magnet inspection services designed specifically for mills, service centers and mill service providers using a minimum of 10 magnets. Ohio Magnetics staff tailored the program to help optimize production efficiency while minimizing costs and maximizing safety.

# **COST OF MAGNET FAILURES**

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- Increase operating costs due to poor performance
- Reduce operating life of magnets
- Cause delays or downtime
- Safety Issues



# **CAUSES OF MAGNET FAILURES**

Probable Reason	Likely Cause of Failure
Lack of Maintenance	Preventative maintenance not completed or was ineffective
Wrong Application	Magnet not operating within designed parameters
Defective Product	Manufacturer defect
Magnet Abuse	Magnet used improperly and/or being abused
Normal Wear	Normal wear and deterioration
Mechanical Shock	Damage caused by excessive shock force due to impact
Unknown	Cause of defect unknown or undetermined



### **INSPECTION PROGRAM OFFERS**

- Experienced Magnet Professionals conduct on-site inspections of all magnets in use and spares.
- Inspections include documenting, organizing and testing which includes visual inspection and electrical testing.
- We provide a detailed report for each magnet including an Overall Magnet Assessment for Risk with rankings in multiple categories of the inspection process.
- · Follow-up call to detail the report with all team members
- Recommendations and feedback on which magnets to repair, replace or keep as spares
- Recommendations on magnet options for specific applications
- Magnet Cleanliness and Best Practice Training for team (1 hour)
- Process takes an average of 1 day per 15 magnets on-site.

### **INSPECTION BENEFITS**

- Reduce Operating Costs
- Extend the Life of Magnets
- Maximize Magnet Uptime
- Identify Potential Safety Concerns

#### PARTICIPATION

- A designated employee to assist on-site magnet professionals is required.
- We need physical access to all magnets.
- The key to success in this program is when staff are open to being educated about the findings in the reports and when necessary, take actions on our recommendations.

*A more detailed inspection can be completed at our facility in Cleveland, OH, for testing with our start-of-the-art equipment.* 

Assessment	Risk	Determination
• Excellent	Low	No visible signs of deterioration; electrical components testing within spec limits (when known).
• Average	Low	Minimal wear from normal use, magnet operation not impacted.
<ul> <li>Needs Attention</li> </ul>	Medium	Normal wear or deterioration has been detected. Taking action to resolve now may reduce or eliminate the needs for expensive repairs in the future.
• Poor	High	Excessive wear has been detected. Magnet operation may be impacted. Action is needed to reduce the likelihood of equipment failure.
• Catastrophic	Extremely High	Magnet should be removed from service immediately, further assessment and repair is required. Magnet is unsafe to use.

