

# Metso

Maintenance reliability planning

## AssetCare for grinding mills



Application

A passion to perform. Ensure your equipment's performance with asset management plans for grinding mills.

Metso supports our customers with a comprehensive strategy and framework to effectively manage and maintain their assets.



### Why you need an asset management plan

An equipment asset management plan (AMP) is essential for organizations that rely heavily on equipment to maintain operational efficiency, reduce downtime, extend assets' lifespan and control maintenance costs. It provides a structured and organized approach to ensure that equipment assets are managed in a way that aligns with the organization's objectives and supports long-term sustainability goals and business success. Applications include ball mills, rod mills, autonomous grinding (AG) mills and semi-autonomous grinding (SAG) mills.

Implementing an asset management plan on your grinding mills not only brings direct benefits to the asset's reliability, integrity and longevity, but also significantly impacts its performance for optimal productivity. All plans include:

- Asset description
- Asset constraints
- Asset business requirements
- Asset management strategy
- Analysis of client operations failure mode data
- CMMS maintenance data

### The Metso solution

Grinding mill AMPs offer many advantages:

1. **Asset description:** A description of the equipment asset owned by the organization, including information about the asset's type, age, condition, location and value.
2. **Maintenance and inspection programs:** Maintenance plans for regular inspections and testing procedures to ensure that equipment remains in optimal working condition. This may involve preventive, predictive and corrective maintenance strategies.

3. **Risk assessment and mitigation:** Identification of potential risks associated with equipment failures and strategies for mitigating those risks.
4. **Operating limits and critical controls:** List of parameters with limits and controls for proper operation.
5. **Compliance and regulation:** Supporting customers in achieving compliance, we can assist our customers to ensure that equipment assets adhere to industry regulations, safety standards and environmental requirements.
6. **Performance metrics and KPIs:** Establishing key performance indicators (KPIs) and metrics to measure the performance and efficiency of equipment assets. This helps in tracking asset reliability, availability and overall performance.
7. **Spare parts inventory:** List of spare parts and critical components to ensure they are readily available when needed for equipment maintenance or repairs.
8. **Asset disposal and replacement strategy:** We help our customers to develop the necessary data and conduct analyses to formulate a plan for retiring equipment that has reached the end of its useful life, along with the process for replacing it with new assets.
9. **Asset lifecycle expenditure:** Information to support forecasting cost expenditures over the lifecycle of the equipment.
10. **Technology and software tools:** Recommendations to implement asset management software and technology solutions for tracking equipment data, maintenance schedules and performance trends.
11. **Training and workforce development:** Ensuring that the workforce has the necessary skills and training to operate, maintain and repair equipment effectively.
12. **Continuous improvement:** A commitment to ongoing improvement in asset management practices based on data-driven insights and feedback



### Digital inspections



### Improved safety



### Asset health monitoring



### Increased performance



### Benefits

- Maximize asset lifecycle
- Minimize downtime
- Maximize productivity
- Optimize operating expenditures
- Improve decision-making