Metso

Mill relining solutions

Liner removal system

For safer and faster mill relining



Metso PLUS

Liner removal system



Metso's horizontal grinding mill liner removal tools provide an advanced solution for safe, reliable and efficient mill liner removal during regular relining maintenance. The system is designed with a variety of features to increase relining efficiency and minimize operator risk.

Efficient solution in one convenient system
Manual mill relining can be inefficient, costly and expose operators to fatigue-related injuries. Metso's solution replaces labor-intensive practices with a mechanical system to remove mill liners.

The system includes a hydraulic power unit (HPU) and liner removal tool (LRT) to improve process efficiency and reliability. The LRT can be suspended from a jib crane or monorail system to improve access to bolts on longer mills or mills with access constraints. Hoist controls are integrated into the LRT's ergonomic handset design for more efficient operation. The HPU base includes lifting points and forklift tine pockets to move the unit via overhead crane or forklift. A wheeled base is also provided for additional mobility.

Industry-leading safety features
Metso's liner removal tools provide unique improvements and technology advancements to minimize risk during reline operations. The LRT is designed to stringent ISO standards and includes a recoilless design with a remote enable controller to prevent unintended operation. Everything is controlled by a safety PLC with a multi-language HMI screen to ensure operators have easy access to equipment status information, diagnostics and reminders.

Reliability and control at your fingertips
The LRT is available in 850 (LRT85) and 1500 (LRT120) joule models and features a split-case design for quick serviceability. Pairing the LRT with a suspension system allows operators to maneuver the tool from the handset for increased performance control. The power unit's multi-language HMI diagnostic screen provides operators with machine system settings, interlocks, faults and reminders for system performance monitoring

Many applications, one solution
Safe and efficient mill relining requires industry-leading equipment. Metso's liner removal tools can be used on all sizes of SAG, AG, ball and rod mills in both greenfield and

Benefits

- Reduce risk and improve operator safety
- Minimize downtime
- Increase process efficiency and productivity
- Lower equipment and labor costs



brownfield environments. The system is ideal where existing liner removal tools require replacement or when upgrading lining systems to steel or polymet materials. For full customer benefit, the LRT system can be bundled with replacement mill liners to minimize CAPEX as part of Metso's Life Cycle Services offering.

Comprehensive service support
As your global service partner, we ensure that every liner removal system is backed by solutions that maximize performance and productivity throughout the mill life cycle.

Our services portfolio includes:

- Full mill reline equipment packages including Metso's Mill Equipment Transporter (MET), mill reline machines, and support tooling
- Equipment inspection, maintenance and training services
- Remote troubleshooting support
- OEM spare parts, spare parts advisory services and easy online parts identification and ordering

Your #1 service partner from pit to port
We offer parts, process optimization and everything in between. You set the target. We provide the solution.

Increase relining safety

Reduce operating downtime

Benefits

- Market-leading safety and reliability in both greenfield and brownfield applications
- Integrated safety and performance measures
- Backed by comprehensive OEM sales support via Metso's extensive global service network

Metso is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. We improve our customers' energy and water efficiency, increase their productivity, and reduce environmental risks with our product and service expertise. **We are the partner for positive change.**

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