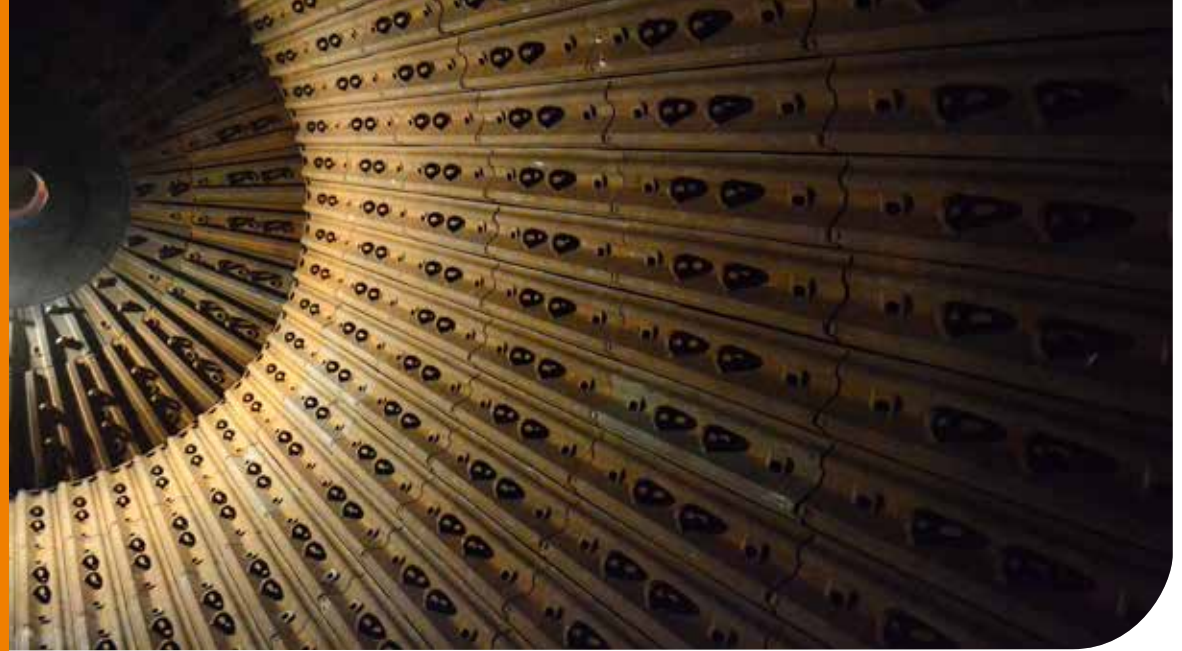


# Mill lining solutions

# Metallic mill linings

## Application

Metallic mill linings are suitable for autogenous mills, semi-autogenous mills, ball mills, rod mills and Vertimills™.



Improve uptime and maximize your grinding performance by using high-quality metallic mill linings with an optimized design. Strict controls and more than 30 years of metallic mill lining experience make the difference.

Read more at:

 [metso.com/MetallicMillLining](https://www.metso.com/MetallicMillLining)

### More production, lower costs

Mining companies strive to improve equipment uptime in order to maximize production and reduce costs. The yield of a grinding operation is highly dependent on the performance of its mill linings. However, finding exactly the right lining that has a long lifetime and can be installed quickly and safely can sometimes be challenging.

### Optimized design

Metso metallic mill linings are always designed with one thing in mind: to maximize performance and minimize replacement time.

The solution offers total freedom of design and the possibility to optimize your lining based on operating data and liner handler capacity. Using linings of a modern design and maximized size minimizes the number of liners needed – and thereby your downtime.

Furthermore, in mills where increased volume is the main objective, metallic mill linings can

be made thinner, allowing for better utilization of the equipment.

### Own foundries ensure reliable linings

Metso metallic mill linings are produced at our own foundries. Our Cr-Mo steel and high-chromium white irons are specially developed for mill lining applications and are carefully selected based on the operating conditions of each mill.

Our foundries apply strict quality assurance programs at every phase of research, development, design and production. This ensures high, uniform quality for the entire supply. Precise dimensions and close tolerances guarantee that your mill lining has a perfect fit.

The high-quality, optimized design, and efficient service we offer can help you to improve your safety and uptime.

### Combine for even better performance

The market's widest range of grinding wear parts and services combined with six decades of mill lining experience mean we can select exactly the right solution for your unique mill.

We can offer and combine metallic linings with Poly-Met™, Megaliner™, rubber and Orebed™ mill liners. Using each material where it performs the best helps you to optimize your grinding process.

### Benefits

- Improved uptime
- Reduced maintenance costs
- Efficient installations
- Improved throughput
- Close to service and competence



## Tisco, Yuanjiacun Iron Mine, China

# Mill lining optimization increases wear life by 36%

Special ore properties have made it very difficult for TISCO Yuanjiacun Iron Mine to find a mill lining that lasts. Metso's optimized metallic mill lining solution puts an end to years of application testing.

### Challenge

- The special ore properties resulted in a short service life and frequent breakage of the mill lining; the 10.37 x 5.49 m SAG mills used to shut down frequently

### Solution

- Metso's feed head and shell metallic mill lining

### Results

- Higher uptime – the performance of the lining is stable, and the average wear life is extended by 36%
- Reduced unexpected downtime
- Easier to plan maintenance and repair work
- Easy disassembly thanks to the linings' negligible impact deformation

Close cooperation and constant follow-up resulted in an optimized solution