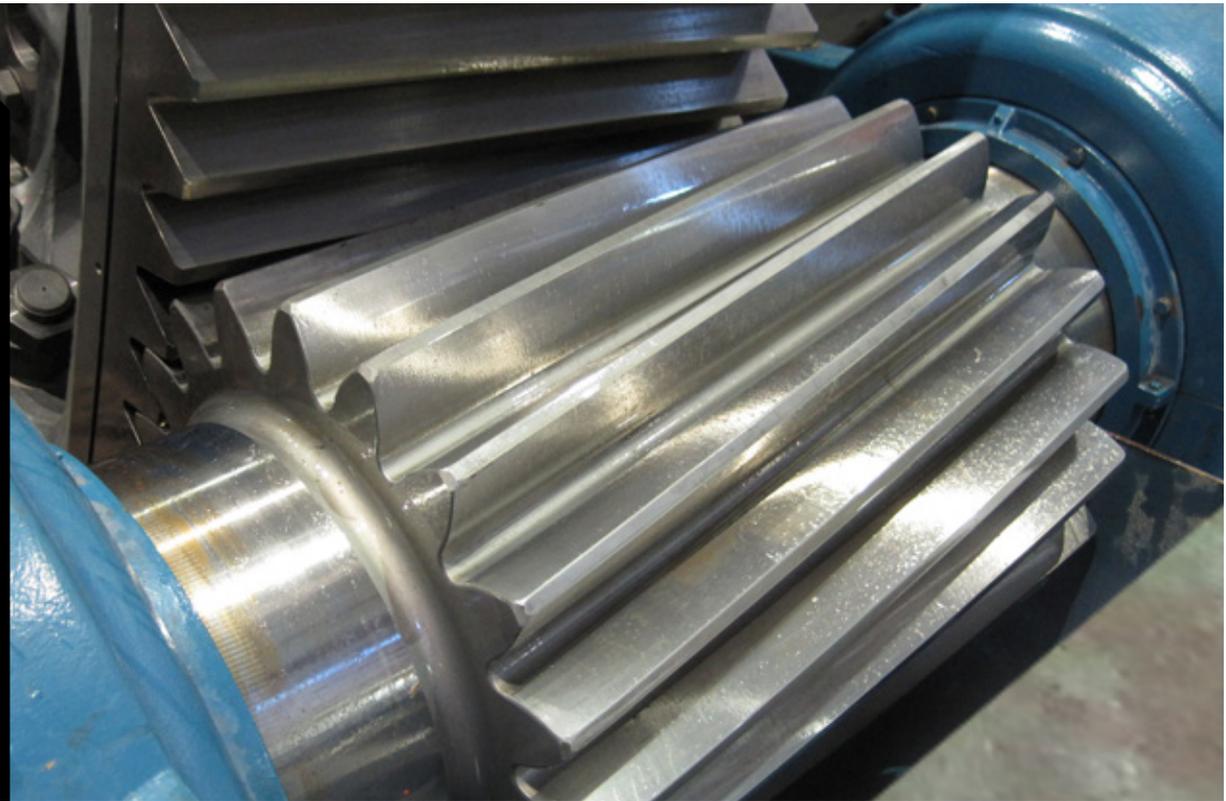


Metso:Outotec

Gears and pinions

A complete range of gear and pinion sets, inspections, design, installation and alignment services to drive your mill's performance



Introducing a new name

Metso Outotec is proud to announce the launch of our new rebranded offer: Metso Outotec Gears and Pinions. You can expect the same quality supported by decades of gearing and OEM expertise.

Read more at:
mogroup.com/grinding-mill-parts/

Your challenge

A recurring need for our customers is to continually meet demanding production requirements. To achieve these targets, uptime and reliability must be improved.

The Metso Outotec solution

Whether you want to restore or upgrade your mill, we have you covered. Replace worn or damaged parts to run as new or have our engineers redesign them for next-level performance. We also offer inspections, diagnostics, monitoring and component upgrades.

Why Metso Outotec services

Our field experience and equipment knowledge allows us to understand the fundamental requirements of your operation. We can determine the most suitable changes to implement in order to reach your production goals.

Applications

- AG and SAG mills
- Ball and FGD mills
- Pebble and rod mills
- Multi-compartment mills
- Rotary kilns and dryers
- Mixers and other equipment

Benefits:

- OEM expertise designing to AGMA standards
- Use of detailed drawings for accurate manufacturing and inspection
- Certified Field Service personnel providing reliable inspections and installations
- Over 1,500 technicians globally to deliver timely service and results

Providing more than just gears and pinions

Complete integrated solutions

Aimed to optimize your availability and production with our extensive expertise



Complete inspection and evaluation

To avoid permanent damage to gears, pinion bearings and soleplates, we recommend a complete inspection and evaluation using our four step process; scope definition, thorough cleaning, OEM inspection and evaluation.



Alignment services

Ensuring alignment for gears and pinions is critical, which can otherwise cause premature wear and cracking. Metso Outotec provides complete alignment services using modern tooling and best practices gained from thousands of field installations.



Gear set replacement

When selecting a replacement gear set, optimizing the design can result in cost savings, greater quality and quicker delivery. Using OEM expertise, Metso Outotec evaluates all available structure and material options as well as reviews gear tooth design.



Temperature monitoring

Fluctuations in temperature can indicate serious issues with your pinions. Metso Outotec offers infrared temperature monitoring as well as expert interpretations so you can continuously track the health of your pinion and troubleshoot issues quickly and efficiently.



Design upgrades for increased production

When greater production is required, there are many factors to consider. Metso Outotec can help improve performance of gears and pinions by redesigning for greater strength and resistance. Evaluations are also done to ensure other mill components can handle the new loads.



Lubrication systems

Proper lubrication is vital to the life and performance of your gears. Metso Outotec supplied gear spray systems are engineered to your specific gear set and lubricant. Gear guards are upgraded with new seal configurations to minimize contamination.



Installation and reversal

If components are not installed properly, misalignment and excessive vibration occur, which can shorten the life of your gear and pinion. Metso Outotec's field service and engineering experts ensure proper installation to OEM specifications. They are also capable of reversing the gear to extend its useful life.

Clients have experienced over 60% reduction in mill downtime with our services.

[Read more at mogroup.com/reduction-in-rod-mill-downtime](https://mogroup.com/reduction-in-rod-mill-downtime)

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mogroup.com

Partner for positive change