

Metso

Gears and pinions

Installation and reversal

Ensure that your asset is able to live a full, healthy and long life



Your challenge:

When components are not installed properly, misalignment and excessive vibration occur. These seemingly small issues can have a big impact on the useful life of gears and pinions.

Metso solution:

1. **Installation by the OEM**, completed to exact specifications by those that know it best
2. **Gear reversal**, allowing you to give the component a second life when they appear worn out

Gear installation process

- All necessary procedures and plans are defined by dedicated Metso engineers
- Specialized tooling is used to ensure accurate and reliable installation
- Metso Field Service personnel manage millwrights for successful project execution

Gear reversal process

- Inspections are performed to ensure the component is an appropriate candidate for reversal
- It is ideal to use a new pinion with an unworn gear flank in order to avoid transmitting tooth profile damage
- The gear is flipped, restoring it to proper operating conditions
- Prolonging the asset's life results in significant capital cost savings



A 40,000 lbs gear segment being prepared for reversal



Pinion being aligned to the reversed gear



Gear being replaced on an 11,000 HP Sag Mill

Why Metso services?

- As the OEM, Metso has detailed drawings, design expertise and field services personnel
- This allows for accurate, timely and reliable installations

Read more at metso.com/grinding-mill-parts/