

Metso

Railcar dumper system

Trunnion wheel upgrade

Significantly reduce maintenance costs and increase reliability



Innovation is embedded in Metso's DNA. If you want to reduce maintenance expenses and increase the reliability of your equipment, we have you covered. Railcar dumper system maintenance has been significantly improved with a new trunnion wheel design. This custom-engineered equipment upgrade simplifies maintenance, increases reliability and minimizes downtime at a lower cost.

Our team of experts can support you throughout, from identifying retrofit options to implementing the new trunnion wheel design.

Why partner with Metso

Metso has been designing equipment, parts and retrofit solutions for railcar dumpers since 1905. We've combined the best features from our industry-leading legacy brands with modern technology to bring innovative and reliable solutions. With the use of advanced engineering tools, we ensure accurate and high-quality manufacturing that meet Metso's strict standards and tolerances.

Brands we support include Metso Outotec, Svedala, Dravo, McNally Wellman, McDowell Wellman, Mukand McNally, Strachan & Henshaw and Stephens Adamson.

The Metso solution

Metso's innovative trunnion design is centered around an integrated trunnion wheel module supplied complete with shaft, bearing and seals making changeout simple, quick and safe. The design uses a self-contained pre-assembled and pre-lubricated compact tapered bearing design that reduces maintenance costs and increases reliability. The trunnion wheels are available in a range of materials to provide optimum wear life for the end ring rails.

[Read more at metso.com](https://www.metso.com)

Benefits

- Increase safety with less need for cranes and resources
- Lower costs with simplified maintenance
- Less downtime with a rapid changeout procedure
- Ensure equipment reliability and longevity
- Improve distribution of the end ring load by adding more trunnion wheels
- Increase parts wear life by choosing from a range of materials

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Integrated trunnion wheel and shaft modules

- Makes changeout easier
- Trunnion wheels and shaft assembly are supplied as a wheel module complete with bearing and seals
- The wheel modules are replaced as one piece
- No need to strip down and assemble the wheel and shaft during changeout



Compact bearings

- Bearing is lubricated for life
- The proven double sealing arrangement minimizes dust ingress
- Secondary grease barrier to prevent particulate entry



Improved equalizer frame design

- Quick and easy changeout
- Equalizer on a pivot pin sitting on top of the base frame
- No need to pull a pin - the complete equalizer frame slides out to one side
- Jacking pads can also be supplied to facilitate removal



Compact base frame

- Fits all installations
- Designed to keep base elevations to a minimum
- Connecting sub-base frame designed to match the trunnion wheel assemblies with existing elevations and anchor bolt patterns