

PRODUCT BRIEF PB





The **THUNDERBOLT ORBIT™** is a revolutionary solution for gyratory and cone crusher head nut change outs. The system consists of a high-strength torque arm that receives consistent high-velocity blows from the THUNDERBOLT Recoilless Hammer, to deal with head nuts swiftly and easily. Most importantly, the ORBIT eliminates hazardous, time-consuming and physically demanding methods that rely on manual slugging, unfit-for-purpose tools and field welding. It represents the crusher industry's fastest and safest method for mainshaft maintenance.

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The toughest maintenance tasks demand capable technologies that handle the conditions safely. The ORBIT is a clever combination of the industry's most powerful, proven and reliable THUNDERBOLT Recoilless Hammer and a purpose-built crusher head nut torqueing technology. It delivers a step-change to the way operations change-out crusher head nuts - with vastly improved speed and safety. $\Pi\Pi$

Tarnya McBurney

Global Product Portfolio Manager, RUSSELL MINERAL EQUIPMENT

BENEFITS

- Reduces crusher downtime and improves reliability.
- Eliminates hazards, protects personnel, improves HSE compliance.
- Safeguards plant and equipment asset integrity.
- Expands THUNDERBOLT Recoilless Hammer utilisation.
- Optimises maintenance resources and costs.
- Frees up personnel for other critical-path tasks.
- Improves operational efficiency and safety.
- Higher crusher availability and throughput.

RME is the world's leading Original Equipment Manufacturer (OEM) of mill relining systems.

440+

mine sites served by RME equipment and services

1300 +

THUNDERBOLT Recoilless Hammers sold









LEARN MORE

Quality

ISO 9001



0HS

ISO 45001







- Integrated, all-in-one solution for gyratory and cone crusher head nut change-outs.
- High-strength torque arm ensures secure grip and even force distribution to all faces of the nut for significantly safer and faster loosening and tensioning.
- Lashing points for secure transport and crane lifting lugs as-standard for easy onsite portability.
- Purpose-built to work with the high-performance THUNDERBOLT Recoilless Hammer range – a proven technology with over 40 years of reliability in fast, safe grinding mill liner change-outs.
- 360-degrees suspension arm for optimal reach and easy THUNDERBOLT Hammer repositioning.
- Configurable counterweight balancers for different THUNDERBOLT Hammer models.
- Moil-locating socket for safe, optimised THUNDERBOLT Hammer firing alignment.
- Share THUNDERBOLT Hammers across grinding mills and crushers for increased asset utilisation.
- Optional transport frame with forklift tyne pockets.



- Custom-engineered and quality manufactured for precise fit and optimal performance for your crusher application.
- Site trials and commercial use have demonstrated significant reductions in gyratory and cone crusher head nut change-out time. For example, in one case, the average change-out time for a FIXED shaft crusher, was reduced from three to four (3-4) hours to around 15-20 minutes. For LIVE shaft crushers, change-out time was reduced from a full 12-hour shift to around one (1) hour.
- Available as an all-in-one solution. The ORBIT torque arm is also available as an add-on unit for existing THUNDERBOLT Recoilless Hammer users.

WE ARE RME

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RME was born 40 years ago with a strong resolve to address our Customers' challenges. Since then, the RME Mill Relining System has quartered our Customers' time-to-reline and eradicated a great many safety issues. This same pursuit continues to drive the development of RME INSIDEOUT Technology which aims to eliminate fatal risk by enabling relining from outside the mill. \$\int_{\pi}\eta\$

Chervlyn Russell

Non-Executive Director, RUSSELL MINERAL EQUIPMENT