



# THUNDERBOLT™

The **THUNDERBOLT Orbit™** all-in-one solution is a literal revolution for cone crusher mantle liner change outs. By delivering high-velocity blows from a THUNDERBOLT Recoilless Hammer, it releases worn mantle nuts and easily secures replacements. The THUNDERBOLT Orbit eliminates the need for human force and represents the fastest and safest method for mantle nut removal and tensioning.



## BENEFITS

- Reduces crusher circuit downtime and improves maintenance predictability
- Eliminates dangerous practices, removes operators from risk and improves health and safety compliance
- Prevents damage to equipment and protects asset integrity
- Expands THUNDERBOLT Recoilless Hammer asset versatility
- Minimises maintenance operational requirements and labour cost
- Improves operational efficiency and safety
- Higher crusher availability, throughput and profitability



The THUNDERBOLT Orbit is a clever combination of the industry's most powerful and reliable hydraulic THUNDERBOLT Recoilless Hammer and purpose-built mantle nut torquing technology. It delivers a step-change to the way operations remove difficult mantle nuts – with vastly improved speed and safety.

**Christian Kramer**

THUNDERBOLT Product Manager, RUSSELL MINERAL EQUIPMENT

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



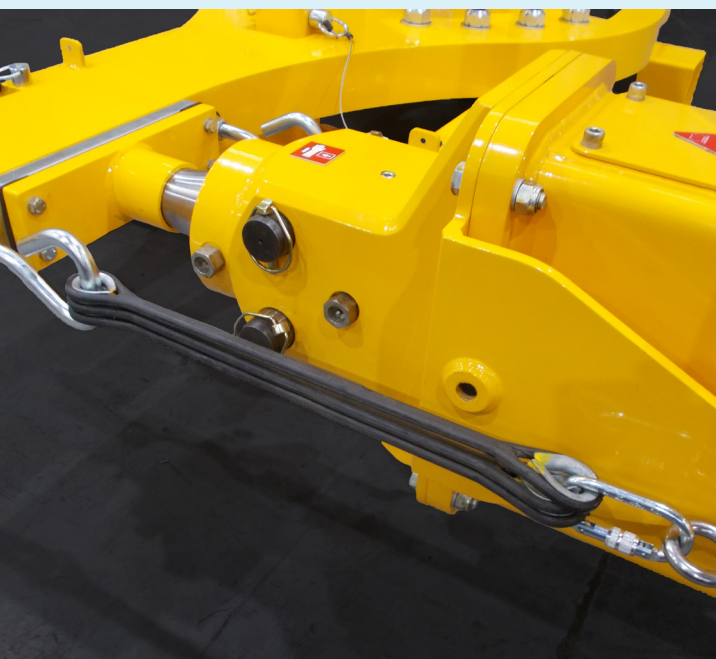
**440+**

Mine sites served by RME equipment and services



**860+**

THUNDERBOLT Recoilless Hammers sold



## FEATURES

- Fully-integrated, all-in-one solution for a cone crusher's mantle nut removal and installation
- Purpose-built to work with the THUNDERBOLT Recoilless Hammer range
- Leverage THUNDERBOLT Recoilless Hammer selectable strike energy, up to 2000 joules\*, and firing rates up to 160 blows^ per minute, for different site conditions, precision, safety and control
- Safe and secure THUNDERBOLT Recoilless Hammer suspension
- High-strength torque arm and mantle nut interface adapter plate
- Integrated counterweight balancers for stability and optimal loosening/tensioning efficiency
- Moil bracket for safe THUNDERBOLT Recoilless Hammer firing alignment
- Transport frame with forklift tyne pockets and crane lifting lugs for onsite portability
- Fasteners and fixers for safe and secure storage between use

\* THUNDERBOLT MAGNUM 2000 Recoilless Hammer

^ THUNDERBOLT MAGNUM 1000 Recoilless Hammer



## APPLICATIONS

- Precision-engineered in a range of common sizes for faster, safer cone crusher mantle nut removal and tensioning
- Customer use has demonstrated reductions in mantle nut installation from an average of 3 to 4 hours down to approximately 15-20 minutes (times will vary depending on site conditions)
- Available as a ready to use, all-in-one solution or add-on for existing THUNDERBOLT Recoilless Hammer(s)

## LEARN MORE

- [sales@rmeGlobal.com](mailto:sales@rmeGlobal.com)
- RME Regional Service Centre
- [rmeGlobal.com](http://rmeGlobal.com)



## WE ARE RME



RME was born 35+ 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 is driving our development of RME INSIDEOUT Technology which helps Customers eliminate fatal risk by enabling relining from outside the mill.

### Cherylyn Russell

Chief Customer Officer, RUSSELL MINERAL EQUIPMENT