



MILL RELINE DIRECTOR STUDY MRD

## MILLMAST Powershift Mill Liner Handler

RUSSELL MINERAL EQUIPMENT (RME) performed an analysis of MILLMAST Powershift performance in terms of impact on reline duration and safety versus manual relining. For example, the reline of a mill with standard liner configuration (maximum liner weight of 79kg) at a gold mine in Western Australia takes approximately 52 hours to complete manually. Based on MRD data collected at relines of other mills using MILLMAST Powershift, the use of MILLMAST Powershift at this gold mine in Western Australia is forecast to:

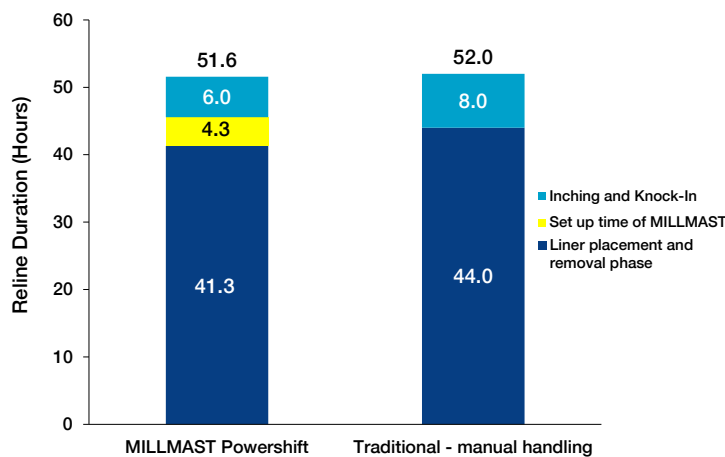
- Reduce the reline duration by 0.4 hours (1%)
- Reduce the manual handling (hazard exposure) by 32.8 hours (75%)

Staying with the above example of a gold mine in Western Australia, a MILLMAST Powershift with its standard lifting capacity of 400kg allows for the liner design to be optimised (joining lifters and plates to form a maximum weight of 329kg) and as a result is forecast to:

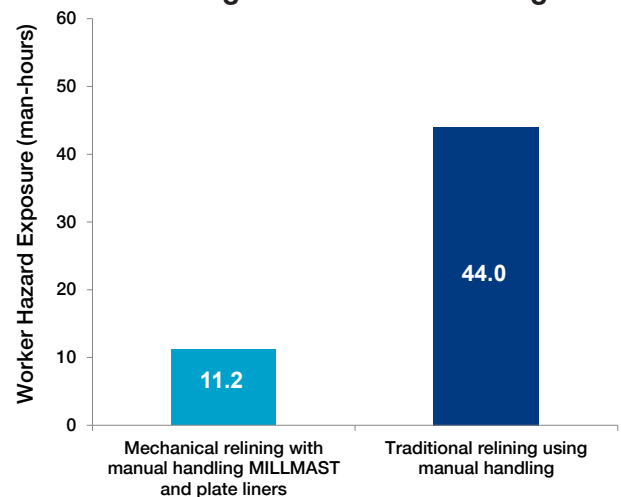
- Reduce the reline duration by 21.3 hours (41%)
- Reduce the manual handling (hazard exposure) by 38.6 hours (88%)

### STANDARD LINER CONFIGURATION

Typical high wear relines for Ø5.5m x 9.6m Gold Mine Western Australia

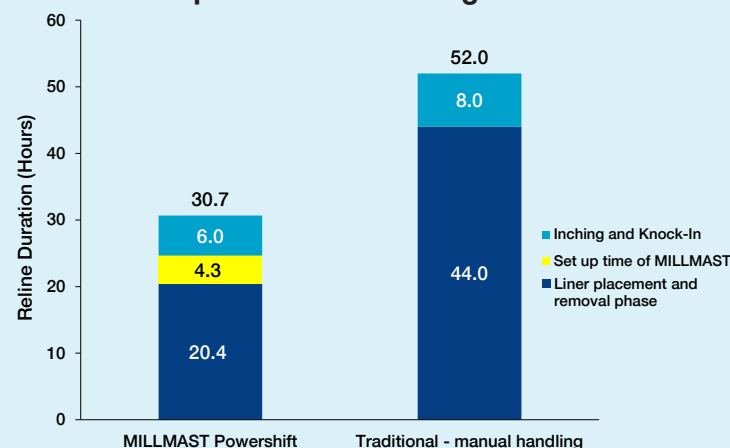


Man-hours of hazard exposure during manual liner handling

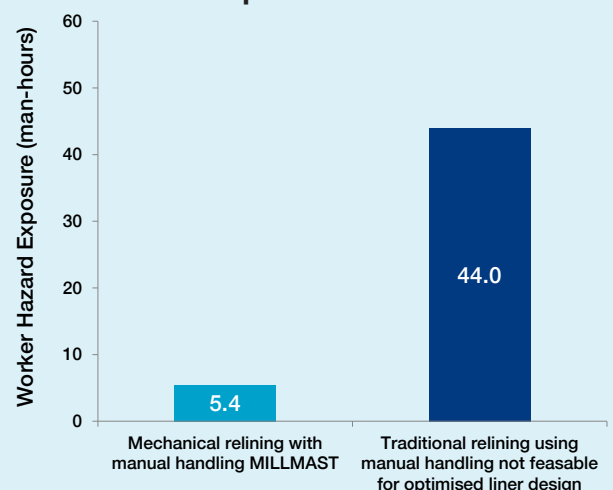


### OPTIMISED LINER CONFIGURATION

Typical high wear relines for Ø5.5m x 9.6m Gold Mine Western Australia - Optimised liner configuration



Man-hours of hazard exposure during manual liner handling - Optimised liner set



The graphs above provide general information only and do not constitute or form the basis of, and should not be relied on in connection with any contract or commitment whatsoever. The information in this document does not take into account the objectives or specific needs of your organisation. Analysis has been completed using data from one reline to demonstrate comparison. Please contact RME for the report outlining all assumptions and findings.