

ENGINEERING

Project: Syama Liner Handler
Client: Societe des Mines de Syama

Scope:

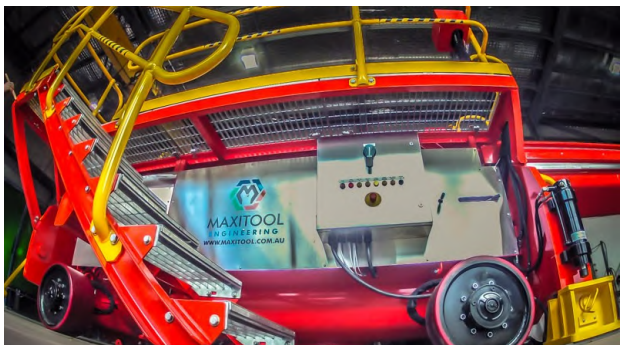
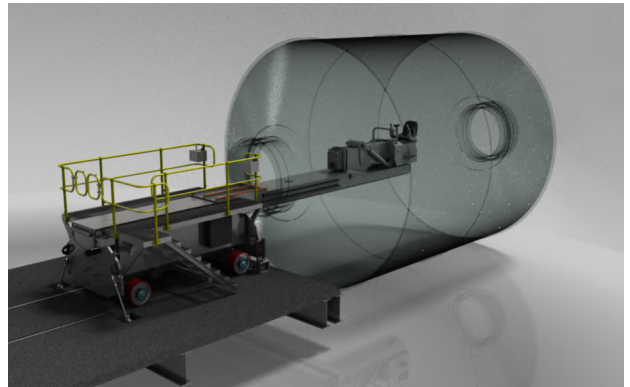
Design, manufacture and certify a mill reline machine capable of lifting a maximum 1500kg.:

Specific Challenges:

- Lifting 1.5t at 13m
- Fitting through trunnion I.D of 1.5m
- Self-powered transport from storage to working location.
- Fitting into a container for sea travel.

Solution:

The Liner Handler was fully modelled using 3D CAD software and was loosely based on previous design experience from other machines. Full range of operations were tested including reach, manoeuvrability and time vs motion. Risks were assessed and major safety hazards identified, documented and either eliminated or minimised. Finite Element Analysis was then used to verify preliminary design and experienced hydraulic specialists designed an appropriate hydraulic system. Once completed the major component packages were broken down for in-house fabrication. Innovative fabrication techniques and automated welding technology was used to increase accuracy and minimise labour input.



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