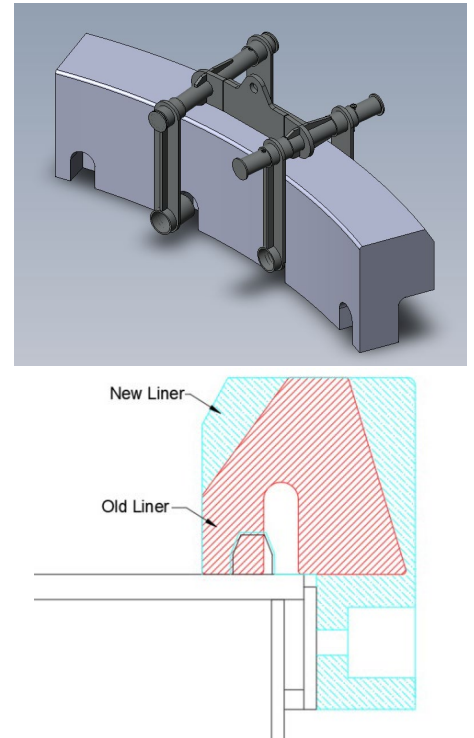


COB Pentice Liner Improvements



Forefront Services were engaged to review the existing COB Pentice liner system and provide recommendations for improvement. The current design for the pentice liner has been in service for many years, and whilst it does the intended job, it does not provide the wear life required to meet shutdown schedules and is difficult to replace once worn. The assembly of liners around the pentice, in its current form, is many parts which means multiple and large gaps between liners. These gaps cause preferential and ultimately premature wear.

Forefront Services deliverables included:

- A review of the existing installation and wear patterns which concluded the following changes were required:
 - An increase in the usable liner thickness to ensure replacement would be in line with shutdown scheduling.
 - A change in the location of wear material to maximise the utilisation of each part.
 - Less components in the assembly and the orientation of the liners improved to ensure only 1-part wears and no gaps are exposed to the flow of ore.
 - An improved liner lifting system for both installation and removal. Unless the liner is destroyed, the same lifting frame can be used for installation and removal once worn.
- Design and manufacturing drawings of the revised liner and fabricated pentice frame.
- Supply of the redesigned liners and fabricated pentice frame.
- Design, engineering and manufacture of a purpose-built liner lifting frame.

Forefront completed the review, design and supply on time and on budget ready for the installation to take place during the next planned outage.

Commodity:
Gold

Location:
New South Wales

Service:
Engineering Design, Fabrication and Casting Supply

