

APPLICATION EXAMPLES



Self locking liners



Manganese Apron

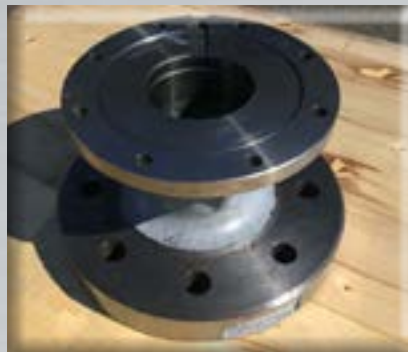
Walls totally lined with 2" high CHROME WHITE IRON liners held in with Lister oval head bolts

APPLICATION EXAMPLES BY INDUSTRIAL SECTOR

SECTORS :
- MINING
- CRUSHING

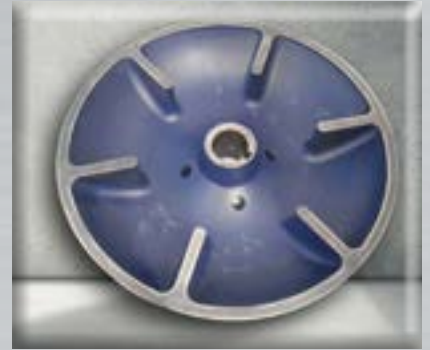
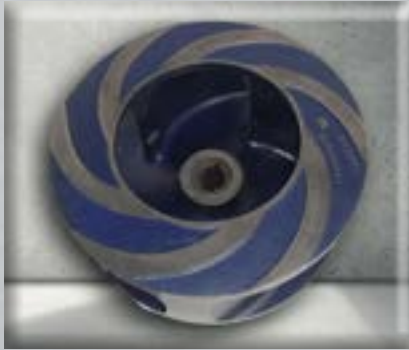


SECTORS :
- MINING
- OIL AND GAS



APPLICATION EXAMPLES BY INDUSTRIAL SECTOR

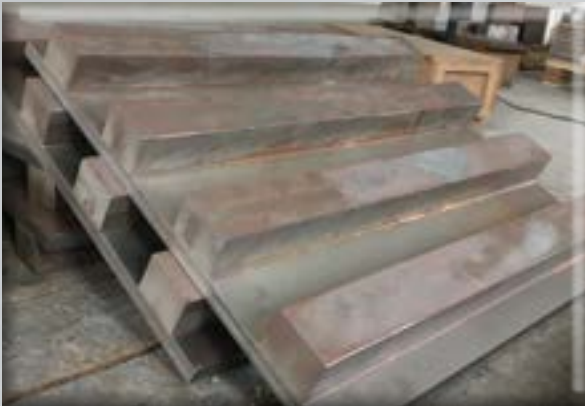
SECTORS :
- MINING
- HYDRAULIC



SECTORS :
- MINING
- OIL SANDS



OTHER APPLICATION EXAMPLES



Rock Trap Liner

Crusher after almost 12 months use.
(Spider cap removed)



Complicated CWI Conical part with high pressure and abrasion in a rotary crusher



Bi-Metallic CWI liners for a SAG MILL Chute and rotors for pumps



Chocky blocks dead bed assembly (CWI Designed for ultra high impacts)



Wear on Chrome White Iron Liners

Wear on AR 400 Steel Liners

Wear comparison of inclined plan with severe impact and abrasion conditions in a hopper

OTHER APPLICATION EXAMPLES



Large scale INDUSTRIAL SHREDDER processing recycled construction wood



CWI HAMMER TIPS (+2.5X life vs standard parts that were protected by TUNGSTEN CARBIDE)



Self locking liners (front view)



Self locking liners (back view)



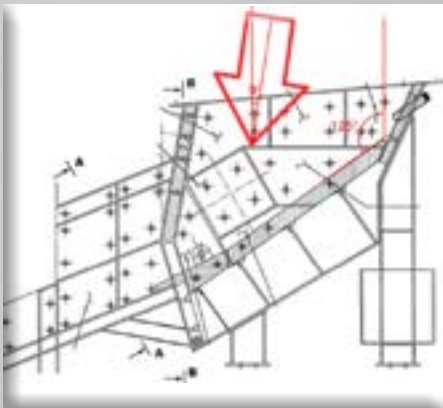
Lock Liners installed in position using a pre-assembled backing plate

T-LINER AND V-LINER FOR A SAG MILL CHUTE

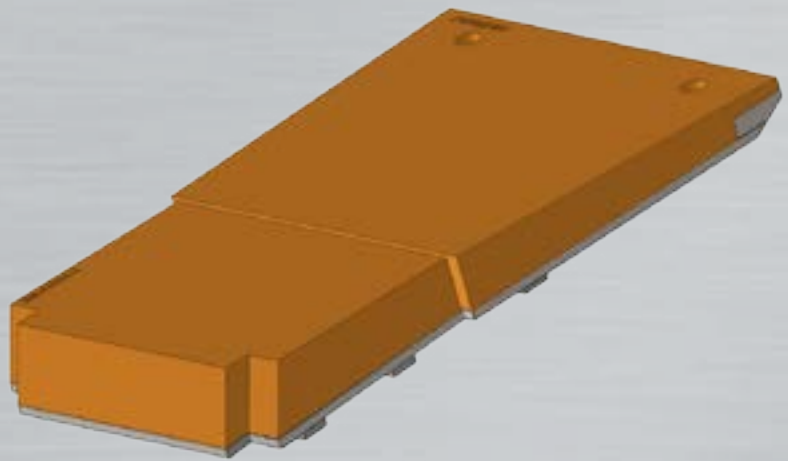
Services Solu-tex Inc was tasked by a mine to at least double the life of their SAG mill chute liners which is receiving ore from 0" to ~12" ϕ from a 14 feet free fall.

One of the main criteria was to maintain the design of the structure of the chute to avoid a significant capital spending that would have been required to redesign a pair of chute.

The High Chrome White material was identified to be the best material to minimize the wear with a 1.0 thick plate mechanically attached under the casting, to avoid a catastrophic failure of the assembly weighing about 1800 lb. As indicated on the bottom right picture, so far, the ongoing test shows that 35% of wear on the new liners corresponds to 85% of the total life of the original liners. We believe that the mine's main goal of doubling the life will be achieved. This should be confirmed in 2018.



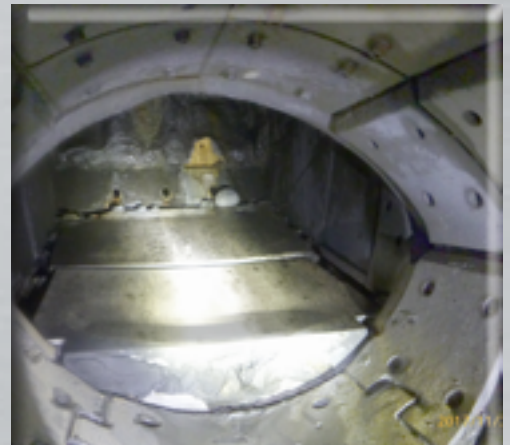
Original Liner configuration



3D model of the new V-liner and T-liner fitting existing chute



Bi-Metallic CWI liners for a SAG MILL Chute at delivery



35% of wear corresponding to 85% of the life of previous liners.