

# Converting from Packing to Mechanical Seal in Zinc Smelting Slurry Pumps



Mining | Zinc Smelting | Mechanical Seal

## Application Info & Challenge

- QTY 2 Atlas BattleMountain 3x2 WXH-GS Heavy Duty Slurry Pumps

Customer was experiencing frequent packing failures on two of their wet atomized Zinc pumps. Repacking the pumps were costly and had to be done often, associated cleaning costs were also high. Frequent sleeve replacements. Customer was hoping to reduce high volume flush water usage.



*Excessive product leakage, frequent packing failure*

## Solution & Result

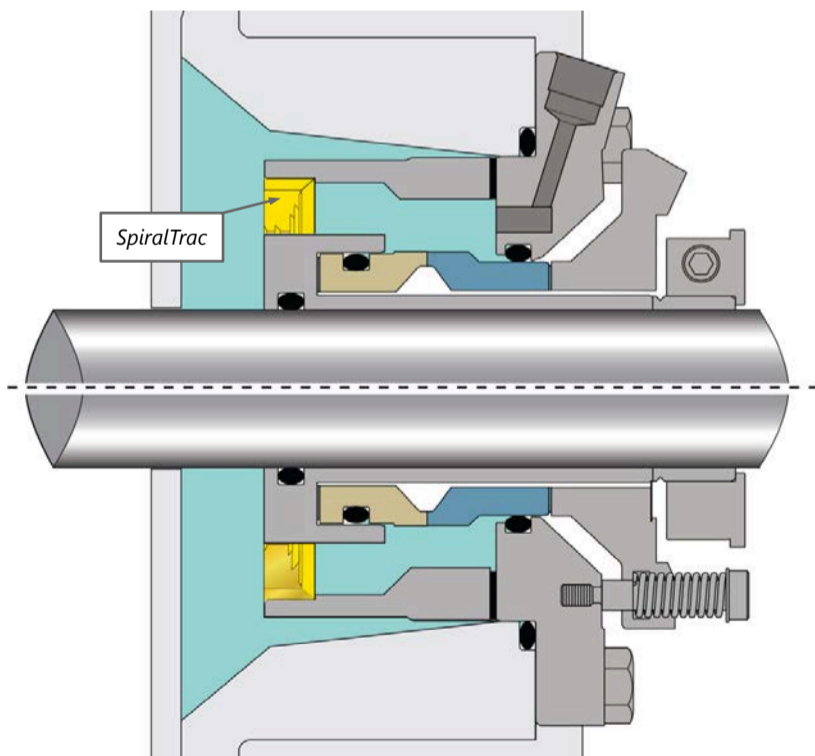
- Chesterton 170L 85mm ssc/ssc Cartridge Single Slurry Seal
- **SpiralTrac NM11293RI15248(316)18-0419**

The Chesterton Specialist recommended a packing to mechanical seal conversion, utilizing the Chesterton 170L Heavy Duty Slurry Seal. This specialized Chesterton seal can be configured with an optional SpiralTrac installed. This configuration can maximize the 170L MTBF in the toughest slurry environments out there.

Flush water amount greatly reduced and pumps no longer require constant packing adjustments and maintenance. MTBF on these pumps were 2.5 and 3 years respectively, with an estimated savings over \$20,000 in parts alone. Customer is very pleased with the results and has reordered the same solution when seal eventually failed.



*Chesterton Solution Installed, zero leakage*



*170L - Dry End: Standard Seal Configuration with Optional SpiralTrac*



*Chesterton 170L Heavy Duty Slurry Seal*



*Version N Type I SpiralTrac made of 316*

For more information please send an email to us at [support@enviroseal.ca](mailto:support@enviroseal.ca). We hope to hear from you!

