

Hydrocyclone Pump Packing Life Improvement with SpiralTrac



Mining | Alumina / Bauxite | Packing

Application Info & Challenge

- 2 Hydro-cyclone pumps

Premature packing failure required pumps to be re-packed 1 to 2 times a month. Shutting down the equipment for packing change came with high costs related to production loss, cost of new packing set and the man hours needed for maintenance.

Total annual maintenance cost per pump: **\$50,192**



Typical Alumina HydroCyclone system

Solution & Result

- Chesterton GraphMax™ packing
- **Packing Version SpiralTrac** made of carbon graphite (ESC) material

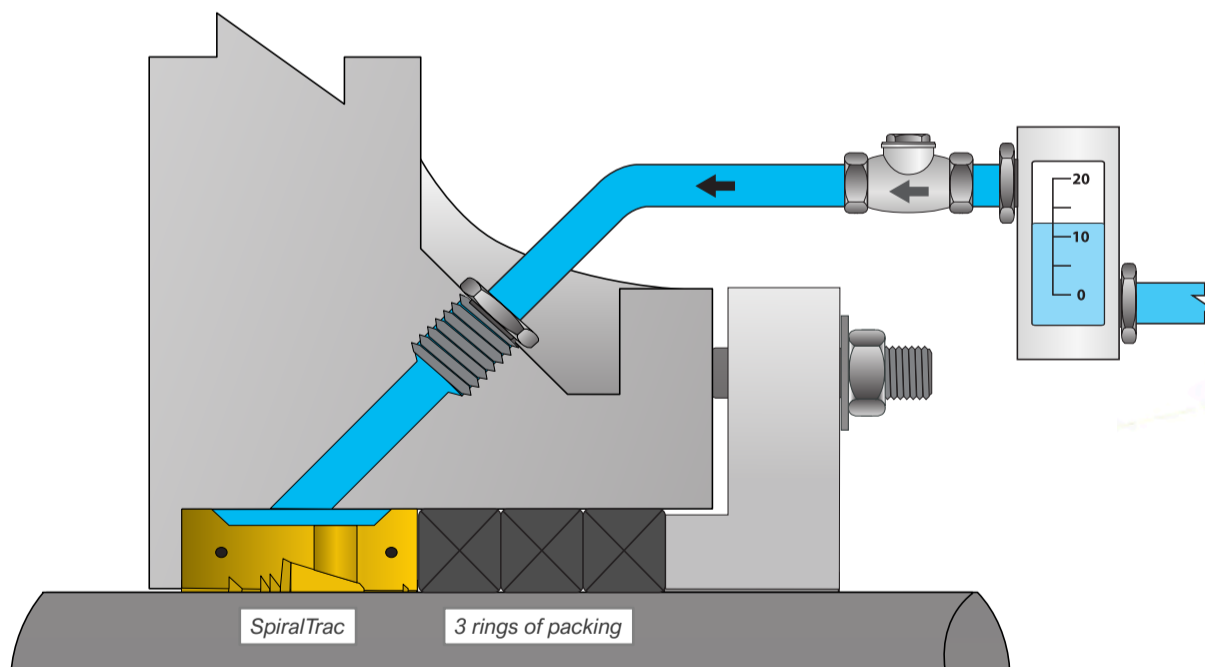
Removing lantern ring and adding SpiralTrac to the stuffing box prevents lantern ring misalignment issues and allows the application to run successfully with less flush water required. The spiral geometry prevents solids from migrating through the packing, maximizing packing life and reducing shaft sleeve wear and associated costs.

Estimated total annual maintenance cost per pump with SpiralTrac: \$7,356

On these two pumps, that is a total cost savings of: **\$85,672**



Spool of Chesterton GraphMax™ packing



Packing Version SpiralTrac, ESC material

* EnviroSeal always recommends flow controls when installing a Packing Version SpiralTrac.

For more information please send an email to us at support@enviroseal.ca. We hope to hear from you!



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