

# Sealing Large Hydro Turbine with Chesterton AMPS and SpiralTrac™



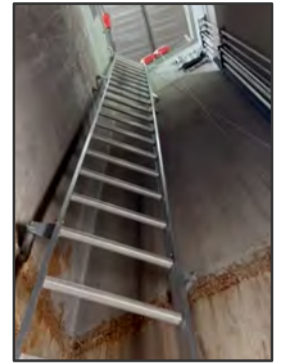
Hydro Power | River Water | Packing

## Application Info & Challenge

- **Location:** Sweden
- **Equipment:** Hydro Turbine
- **Shaft size:** 1140 mm
- **Product:** River water



Hydro Power plant in Sweden



Hard to access work area

The hydro power plant was having issues with packing adjustment. The stuffing box area was very hard to access and the gland had to be adjusted in a very narrow space, next to the 1140 mm shaft. Customer was looking for a more effective and safer way to seal the turbine. Turbine is located 44m under water level. Goal is to increase MTBR and create safer working environment.

## Solution & Result

- Chesterton AMPS™ System (8 units)
- 3 rings of Chesterton 377 CarbMax™ packing
- **Packing Version SpiralTrac**, split, part# PM114000RS119000(ESC)22-0183
- Chesterton Connect Monitoring System



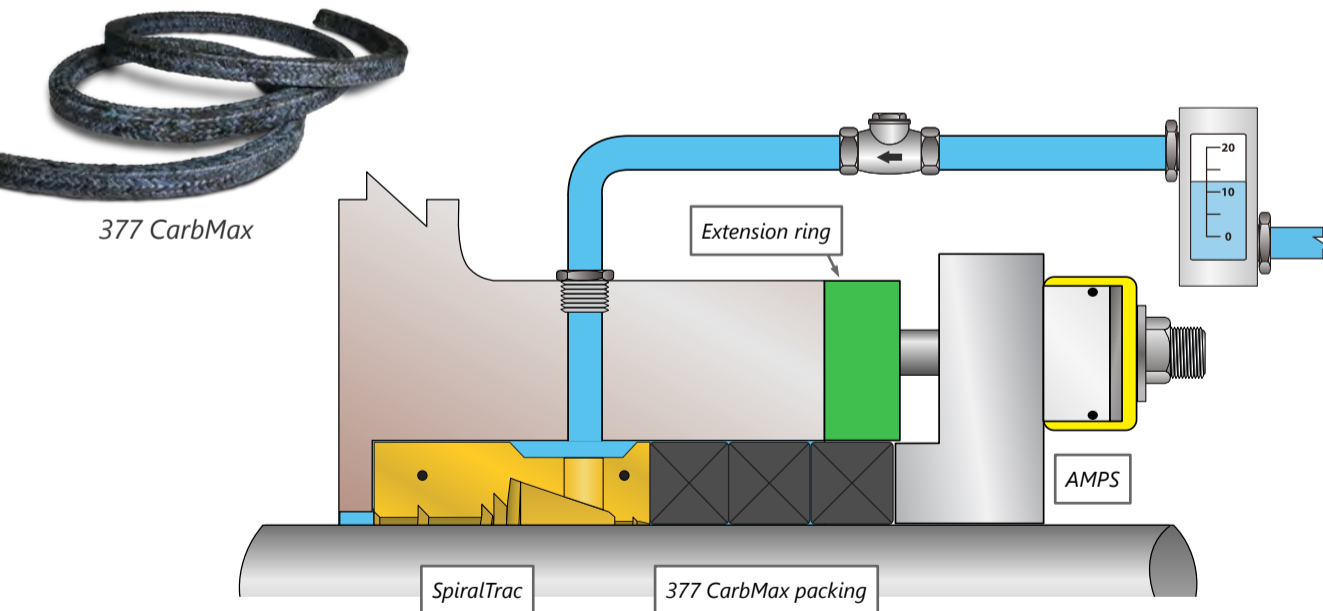
AMPS

This solution includes the largest SpiralTrac ever manufactured with a 1140mm ID and 1190mm OD.

Equipment startup was in September 2023, the application has been **running successfully ever since**. The controlled leakage is very clean thanks to the SpiralTrac. Customer is very happy with the ability to monitor and adjust gland force remotely and is already looking to implement the same solution at other equipment at the plant. Chesterton Connect is used to monitor the AMPS feed pressure.



Largest SpiralTrac manufactured to date (Jan 2025)



AMPS System Installed



Custom made control panel with Chesterton Connect monitoring

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



2456 Rocky Lake Drive • Waverley • Nova Scotia • CANADA • B2R 1R6  
 Tel: (902) 861-3464 • [info@enviroseal.ca](mailto:info@enviroseal.ca) • [enviroseal.ca](http://enviroseal.ca)  
 © 2025 EnviroSeal Engineering Products Ltd.  
 SpiralTrac is a trademark of EnviroSeal Engineering Products Ltd. • SS0087

