

Challenge

Background

A paper mill was having leaking issues from the gland bolts on a 4.25" washer vat re-pulper used to break down defective paper to then be reprocessed.

The gland bolts were difficult to access, making packing adjustments challenging and safety a concern while equipment was running.

Goal

To increase the length of continuous service to support plant cycle as well as improve safety.



Front view of stuffing box with safety guard during operation.

Solution

Application

- Three rings of ½" **Chesterton 377 CarbMax™ packing** were installed.
- Two bolts were fitted with **Chesterton AMPS™** double cylinder units and pressurized to 2 bar g (30 psi).

The addition of a pressure regulator allowed for adjustments to be made from outside the safety guard and helped ensure equal pressure was applied to both bolts.



Equipment before **AMPS unit** installation. It was very difficult to access bolts to make any adjustment, and unsafe to do while running.

Results

Less Leakage and Greater Safety

After installation and equipment restart, the **AMPS technology** helped seal the equipment with minimal leakage.

The customer is now able to safely adjust the packing while the equipment is running.

The customer is very happy with the results and has not needed to make any additional adjustments.



Equipment with **AMPS units** installed on both bolts, enabling constant, even loading and offering the ability to safely make adjustments.