CHESTERTON
Global Solutions, Local Service.

The AMPS™ System

Automatic Packing Compression Device

The AMPS (Automatic Mechanical Packing System) unit automatically keeps a constant force on the braided packing rings at all times, so your essential piece of rotating equipment remains in service. This process, known as *Active Loading*, maintains a uniform and consistent load that eliminates the need for manual packing adjustments, maximizes performance, and increases packing life.

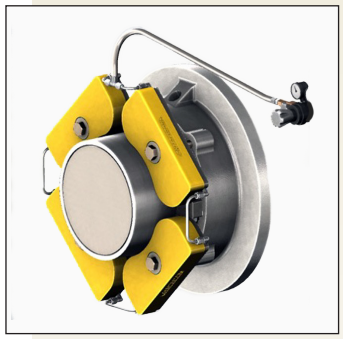
The AMPS System consists of two components that work together to automatically and efficiently seal braided packing in packed rotating equipment.

AMPS Unit

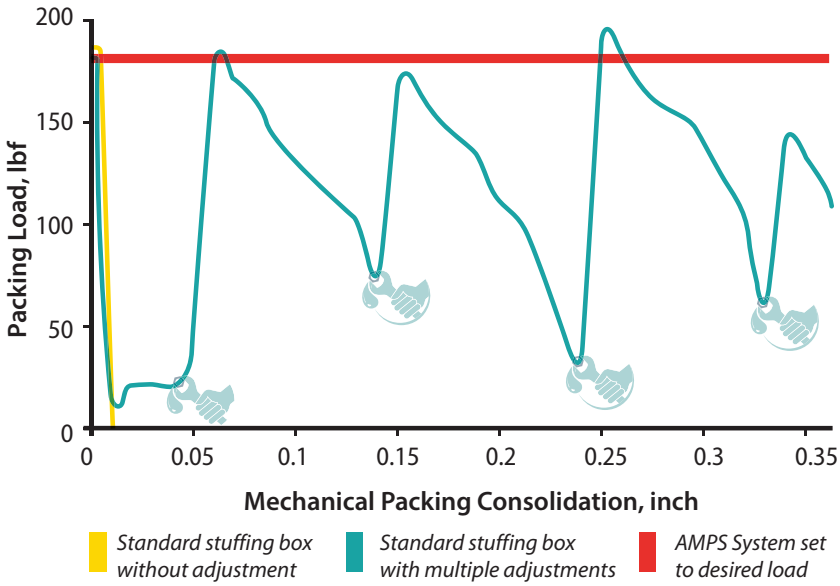
- Dual piston actuators
- Attaches to existing stuffing box glands and bolts
- Provides constant energizing force to packing rings

Control Unit

- Single-point adjustment of pressure regulator
- Mounted remotely at a convenient and safe location
- Powered by compressed air or bottled gases



The AMPS unit uses Active Loading to help ensure accurate, constant load is applied to the packing ring set. These tensioners will maximize sealing performance by making continuous auto adjustments to compensate for consolidation and wear of the packing rings.



- Keeps leakage low
- Reduces maintenance
- Improves sealing performance
- Remote gland load management
- Increases operator safety

Case Studies

Chesterton® AMPS™ Technology Reduces Leakage and Improves Safety in Paper Mill

Challenge

A paper mill had leaking issues on a 13" hydro repulper, used to break down any defective paper to then be reprocessed, requiring air to constantly be blown on the shaft to clear any pulp debris. The equipment is very hard to access, making any packing adjustments difficult and safety a concern.

Solution

All four bolts were fitted with Chesterton AMPS™ double cylinder units and pressurized to 2 bar g (30 psi). A pressure regulator was mounted outside of the repulper "pit" so it can be adjusted without hunching over in the oily water.

Result

After installation and the equipment restart, the AMPS technology is sealing with minimal leakage. The packing can be adjusted from outside the "pit," improving safety and ease of maintenance. The customer is looking to install AMPS technology on another repulper.

Paper Mill Improves Equipment Reliability and Safety with Chesterton® Solutions

Challenge

A paper mill was having leaking issues from the gland bolts on a 4.25" washer vat repulper 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 the equipment was running.

Solution

Three rings of 1/2" Chesterton 377 CarbMax™ packing were installed. Two bolts were fitted with Chesterton AMPS™ double cylinder units and pressurized to 2 bar g (30 psi).

Result

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. Customer has needed to make few additional adjustments.

Chesterton ISO certificates available on chesterton.com/corporate/iso

Distributed by:

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