

Challenge

Due to severe conditions in the stuffing box, the packing set leaked often. The equipment's water consumption was very high. Because of environmental regulations, all injected water had to be removed from the process and treated as industrial waste water. This was a costly and energy-intensive process.

Goal

Help MDF manufacturer extend maintenance cycles on their Sunds defibrators and reduce water/energy costs.

Solution

A 3-Ring **Chesterton 1730** Packing Set combined with **SpiralTrac™**.

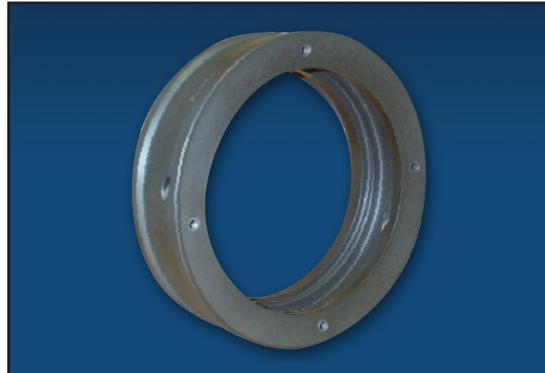
- In a traditional packing set consisting of 5 or more rings, the gland load gets mainly transferred onto the first few packing rings. The rings at the bottom of the stuffing box receive very little of the gland force
- The **SpiralTrac** Environmental Enhancer fills up the rest of the stuffing box. Because of its unique and patented design, it directs solid particles away from the packing set, assuring a prolonged life of the set

Results

- The flush rate was reduced to a controlled 5.5 liters/minute
- Leakage was reduced considerably — extending maintenance cycles and the life of the defibrators
- When the packing set needs to be replaced, only the 3-ring packing set needs to be exchanged. The **SpiralTrac** can be re-used
- Reduced maintenance and downtime



Defibrator.



SpiralTrac P.

Why use the Chesterton water saving Solutions for rotating equipment?

- Repeatable, predictable, lasting sealing performance
- Reduced water and energy consumption
- Minimize costly, unplanned maintenance
- Improved asset management

SpiralTrac™ is a trademark of EnviroSeal Engineering Products Limited.

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A.W. Chesterton Company
860 Salem Street, Groveland, MA 01834 USA

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