

Challenge

Background

A vegetable processing plant had leakage issues with their steam peelers. The packing set had to be changed monthly and the worn shaft was replaced on a regular basis. Steam peelers have a rotating shaft sealed with a stuffing box.

There is a lot of wear on the packing set from dirt on the vegetables. The customer was using an abrasion-resistant packing that was wearing the shaft. The high pressure steam leakage caused bearing issues.



Steam peelers remove the skin from fruits and vegetables by exposing them to high pressure and high temperature steam.

Solution

Recommendation

Chesterton 1730 Synthetic Packing and Chesterton 5150 Rotary Live Loading

A 3-ring **Chesterton 1730™** packing set was selected as it is very resistant to abrasion but will not damage the shaft.

The spring-loaded **Chesterton 5150 Rotary Live Loading** system helps prevent particles from entering the stuffing box and maintains a constant sealing force.



Chesterton 1730 and 5150 Rotary Live Loading.

Results

Increased Reliability & Lowered Costs

- The Chesterton system has eliminated leakage, shaft wear, and bearing problems
- The solution has been running for 9 years without problems
- The customer replaces the 3-ring **Chesterton 1730** packing set yearly as part of their preventative maintenance program



Chesterton's 5150 Rotary Live Loading system avoids leakage by automatically maintaining the correct sealing force on the packing set.