

# **Extrusion Press Upgrade**

Chesterton Fluid Power Equipment Sealing Solutions

Aluminum Extrusion Chesterton 27K Case Study 012 FP

### Challenge

#### Background

A large manufacturer of aluminum extrusion products experienced excessive leakage on the main ram of their presses leading to unplanned downtime and lost production.

- The OEM stacked rubber seal sets had to be constantly readjusted and lasted an average of only 2 months between replacements
- The unplanned maintenance required three men to rebuild over a 6-hour period, leaving production at a standstill

## Solution

#### Recommendation

- A sealing upgrade to a Chesterton 27K stacked set made from proprietary thermoset polymer (AWC 800) offers excellent wear and tear characteristics
- This pressure-sensitive, single-acting stacked set with a positive rake design provides optimum operating performance
- Unlike conventional stacked sets, this design contacts through the center of the set to ensure even loading with minimal gland pressure-leading to longer seal life and improved equipment performance

### Results

#### Improved Performance & Reliability

- Eliminated ram leakage and constant packing adjustments
- Dramatically improved reliability

#### MTBR improvements: 8X

### Savings

- \*Savings in first 18 months (labor and rebuild):
- \$7,500
- Production stand stills ended
- Plant productivity improved

\*Does not include cost of lost productivity

#### \$=USD



Extrusion Equipment - 950 x 1000 mm (~37 x 40") Pressure - 400 bar (5800 psi) Oil Temperature - 50° C (122 F°)



Chesterton 27K split-stacked, pressure-sensitive v-ring set. Made from the Chesterton 800 thermoset polymer.



Main ram upgraded with the Chesterton 27K design operating leak-free.

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.

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