

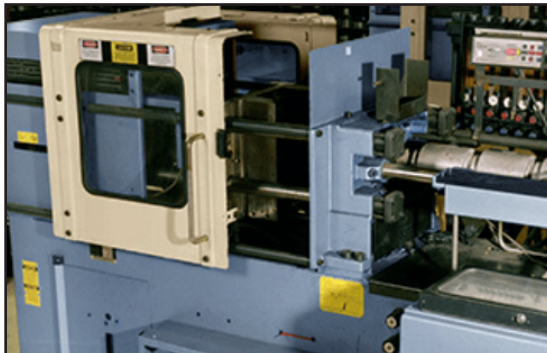
Challenge

Issue

A plastic injection molding manufacturer in the USA was experiencing poor performance on an older, severely scored ram which continuously leaked, causing performance, safety and reliability issues.

A competitive stacked v-ring set (i.e., cotton and rubber) only lasted between 3-6 months before excessive leakage required unplanned maintenance.

The staff wanted to minimize leakage until they could reach a planned maintenance cycle and conduct a complete equipment overhaul to address the severely scored ram.



Represents typical hydraulic plastics injection molding machine.

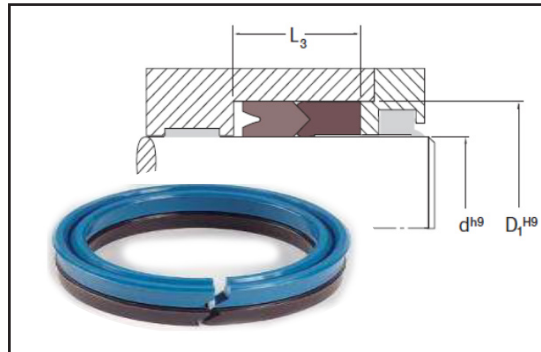
Solution

Recommendation

The Chesterton Sealing Specialist recommended the unique Chesterton 11K Split Seal with a strong dual material combination.

This industry requires solutions that allow faster, more precise, repeatable cycling for higher production runs and extended service life, while eliminating environmental and safety concerns related to leakage.

- Design: R11K - split
- Size: 8.000 X 8.750 X 1.035 SH SPLT
- Material: AWC800/AWC825



11K seal set image with a cross sectional view installed into the seal cavity.

Results

The customer reported that although leakage is still present, seal performance has improved which has enable them to maintain production and schedule a planned maintenance and overhaul over the coming months.

Given that the ram is severely scored, the Chesterton 11K split sealing solution is still performing and in operation after 6 months in use and counting.

Increase Reliability

Reliable, dual material combination offers a solution for older worn equipment

Minimize Downtime

Split design eliminates the need to completely disassemble equipment; Only two rings to install, no gland adjustments, no shimming

Maximize Production

Patented design, offers latest proven technology

Key attributes of the Chesterton 11K Sealing Solution.