Quick Forging Press Sealing Solution Resolved

Steel Industry
Chesterton® 11K Rod Seals, 11K Spacer Rings, W21K Wiper Seals
Polymer Seals Case Study

Challenge

Background
A fast forging machine was originally sealed by a rubber V-stack set. The rubber seals leaked and required replacement in less than 1 year. Replacement of the V-stack set took nearly a week. In addition, the performance of the V-stack was found to be poor and needed frequent adjustment.

Solution

Product
The V-stack set was replaced with a **Chesterton® 11K Rod Seal** and **11K Spacer Ring.** A **W21K Wiper Seal** was used to exclude contamination and extend seal life.

- **11K Rod Seal** 980,00 x 1030,00 made from AWC805/AWC800
- **11K Spacer Ring** 980,00 x 1030,00 x 088,50 made from AWC800
- **W21K Wiper Seal** 980,00 x 1010,00 x 995,00 x 018,00 made from AWC800

Results

Improved Sealing Performance and Reliability
The leakage problem of the worn plunger cylinders was improved with the upgrade. The **Mean Time Between Repair** was increased from less than one year to 3+ years.

The user has already replaced all the seals from the rubber V-stacked rings to **Chesterton's 11K** combination for the return cylinders and auxiliary cylinders.

Fast forge press.

Original rubber V-stack rings.

Chesterton 11K rings and AWC805/AWC800: a combination of hard and soft materials.

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

EN602288
5/25