

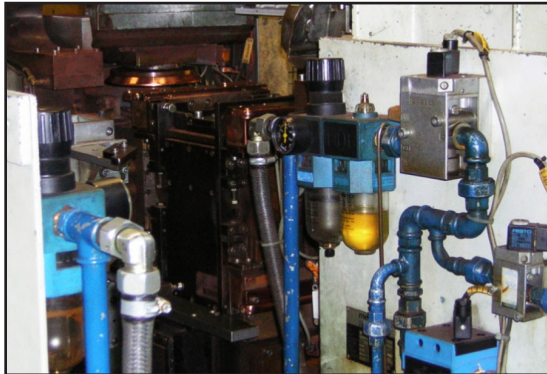
Challenge

Background

- The robotic welding line for industrial and residential white goods (ovens, refrigerators, etc.) had 30 shut-downs per year due to a pneumatic system failure.
- 15 directional valves and cylinders were replaced each year.

Cost of equipment:

30 shut-downs x 1.5 hours:	45 hours
Labor 45 hours x \$63:	\$ 2,845
Lost Production: 45h x \$1,379:	\$62,055
Total Cost:	\$64,900/yr.

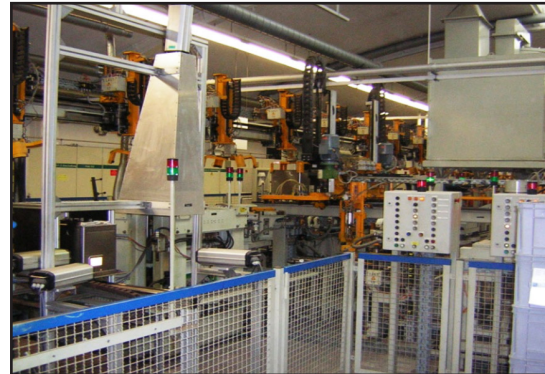


Sticky residue on the cylinders led to higher friction and wear of the pneumatic seals.

Solution

Product

- **Chesterton 652 Pneumatic Lubricant and Conditioner** was used to replace the conventional air tool oil.
- The pneumatic solenoids and cylinders began to operate more freely.
- Sticking was eliminated, and the weld guns ran more smoothly.



Immediate improvement, ran more smoothly.

Results

Increased Uptime

After 4 months, there were no unscheduled shutdowns due to failure of pneumatic equipment.

Savings (in 4 months): \$22,400

Projected Annual Savings:

Production savings: \$64,900

Solenoid and cylinders: \$ 3,750

Annual Savings: \$68,650+/yr.

\$=USD



Improved reliability, less unscheduled downtime.