CASE STUDY: STRIPPING COMB WEAR

Modified comb blocks add a blast of air directly at the problem area to help keep the combs clear of scrap.

Pin Seal added to keep paper from building up around stripping pins.

CHALLENGE

Bernal has a customer that supplies folding cartons to a fortune 50 company and they were repeatedly in danger of missing delivery commitments to their largest, most important customer because of constant maintenance issues. They were losing valuable run time when they had to stop production to clear the scrap buildup from around stripping pins, in the comb slots, and replacing worn stripping combs. Bernal was called in to evaluate the problem. We went to the customers plant to observe and quickly realized that paper fibers were building up around the pins and this was not allowing the scrap to be properly impaled. This buildup was causing the edges of the comb slot to wear rapidly which significantly reduced the stripping efficiency of the comb.

SOLUTION

Bernal designed and manufactured a seal to fit tightly around the stripping pins so that the paper fibers would no longer be able to build up around the pins. We also modified the existing comb assembly to include an air manifold that allowed us to install nozzles that would direct air precisely into the comb slots and keep them clear.

RESULTS

The customer was able to run for extended periods of time without having to stop production to preform maintenance and replace worn or broken parts. More uptime, more production, no missed delivery commitments!
WORLD LEADER IN ROTARY CONVERTING TECHNOLOGY

Bernal performance is the benchmark for high-speed rotary die-cutting and has established a new standard for inline web-printing and converting. Bernal’s full line of rotary dies (RP® Dies, Fusion, Flexible Plate and Crush Cut Dies) and Rotary Die Cutting Modules combined with it's advanced product and packaging automation equipment, offer a unique system solution for a wide variety of applications. The web-fed converting equipment we design and manufacture is for you, your needs, your facility—not someone else’s. When you call Bernal, we talk about your goals and what you need to reach them. Then, we design, manufacture and ship your customized converting equipment quickly and cost effectively. Whether your company makes medical products, paperboard packaging, automotive parts, aseptic & liquid packaging, lead acid batteries, snack foods or general consumer products and goods, ask Bernal how we can help you.

OUR EXPERTISE

- Rotary Converting Systems
- RP® Rotary Dies
- Alcohol Swab Machines
- Crush Cut Rotary Dies
- Die Cutting Modules
- Food Processing Machinery
- Folding Carton Systems
- Finger Bandage System
- R & D Proof of Principle
- Innovative Engineered Solutions

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