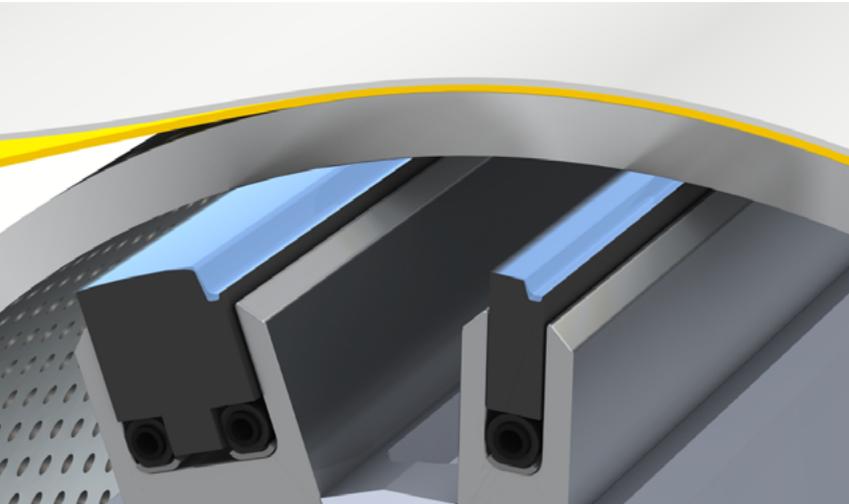
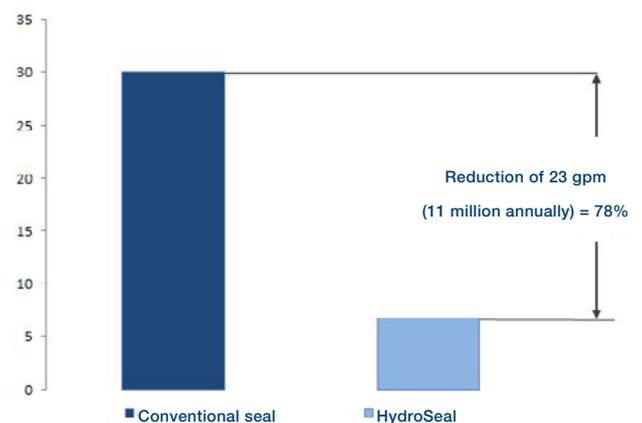


HydroSeal

Case Study: Voith's HydroSeal significantly reduces mill's resource usage



Water consumption in gallons per minute



Summary

A tissue mill in the Southern U.S. was looking for opportunities to save on production costs and asked Voith to make a proposal to achieve those savings.

Solution

Noting the mill's high draw on resources, Voith's experts suggested that the mill install HydroSeal seal strips in the suction pressure roll on the tissue machine.

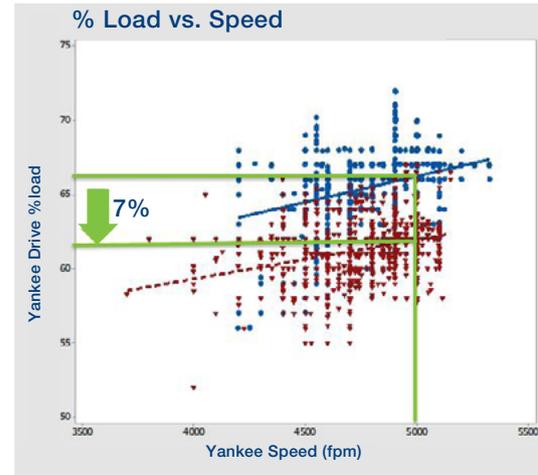
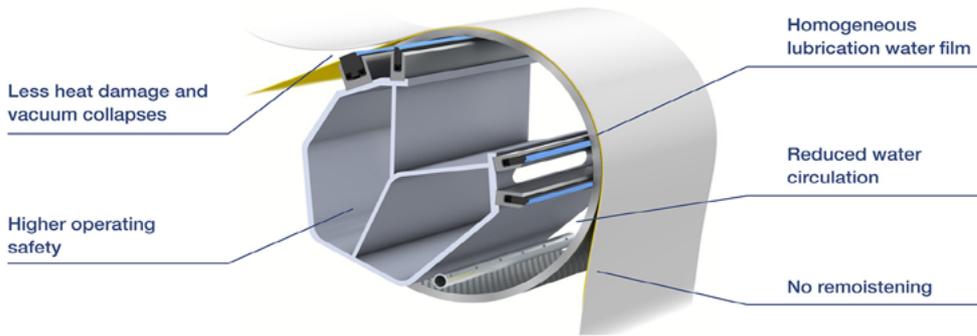
Details

HydroSeal is a seal strip and lubrication system that is designed to drastically lower water consumption in suction rolls in forming and press sections. Along with its water savings, it also increases the efficiency of drive operation, reducing energy costs.

Results

Upon installation of the HydroSeal seal strips, the mill realized the following benefits:

- **78% reduction** in water lubrication for sealing, creating a **\$17,500 and 11 million gallon annual savings**
- **6% to 7% drop in energy usage** on three drive motors, creating a **\$43,000 and 860,000 kWh annual savings**
- Improved seal strip lubrication performance for the mill's tissue production



About HydroSeal

Voith's HydroSeal delivers water and energy savings, reducing the mill's suction pressure roll water consumption and cutting the drive load energy.

Additional benefits & advantages:

- Improvement of moisture profile due to uniform lubrication
- No unwanted remoistening
- Constant and even lubricant feed at each seal strip
- Higher operational safety of roll, fewer downtimes, lower maintenance costs
- Homogeneous lubrication over the complete width

Why partner with Voith?

Voith's expertise, experienced personnel, hands-on service capabilities and continuous presence in mills helps our customers find the efficiencies they need to achieve their goals. Our quality of service and our paper production experts help Voith stand out from our competitors.

"HydroSeal has proven to be a successful product in numerous mills. It allows our customers to capture impressive annual cost savings and reduce resource use."

— Ian Meinke,
Product Manager,
Voith Paper FRS North America

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