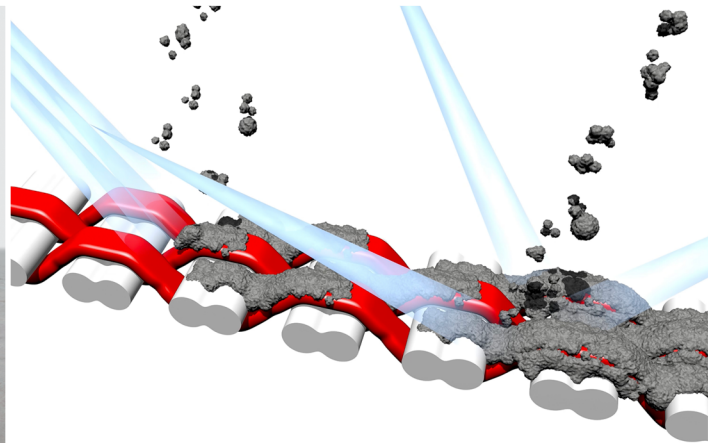
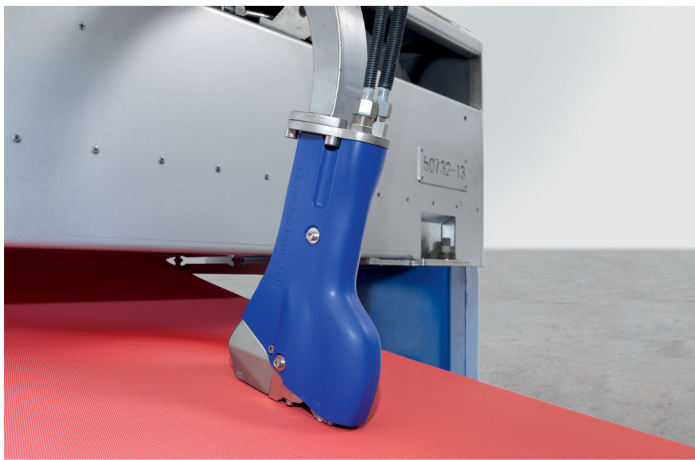


CleanLine Extract4D

Case Study: Installation of CleanLine Extract4D on linerboard machine doubles dryer fabric runtime



Summary

A mill in the Northeastern U.S. was continually seeing a large buildup of stickies and scabs on its dryer fabrics when processing highly recycled material into linerboard. Due to this buildup, the dryer fabrics were being replaced at a frequency of every 45 to 60 days, causing not only considerable downtime to remove the fabric, but also high runnability costs from excessive steam usage and quality issues.

Solution

Voith recommended the installation of the CleanLine Extract4D fabric cleaning system along with the adoption of Voith MultiTech LAC dryer fabrics. CleanLine Extract4D uses high-power water jets from four directions to eliminate fabric contamination. When paired with a Voith dryer fabric, CleanLine Extract4D can be even further optimized thanks to perfect alignment between the wet-jet angles of the cleaning head and the design of the Voith fabrics.

Details

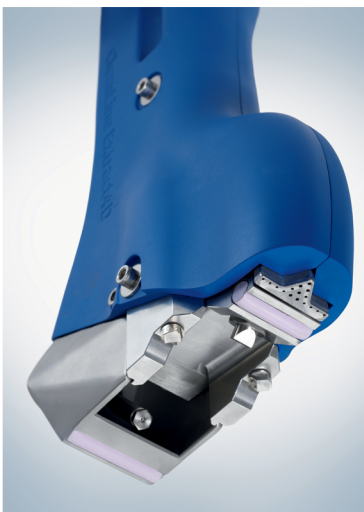
CleanLine Extract4D offers the following benefits:

- Improved retention of fabric permeability
- Increased drying efficiency
- Better sheet stability and tail threading
- Optimized sheet quality

Results

The mill saw the following results after installing CleanLine Extract4D:

- Fabric life went from 45 to 60 days to more than 120 days and beyond.
- At start of run, the Voith MultiTech LAC fabrics were supplied new at 950cfm permeability. After 116 days of operation, the top fabric measured at 873cfm, a drop of only 8.1%.



About CleanLine Extract 4D

CleanLine Extract4D continuously cleans a running fabric, allowing the highest fabric performance and optimal productivity. The system operates on a traversing beam, utilizing small-volume, high-pressure needle jets of water in four directions to reliably remove stickies and contamination from the surface and internal structure of the fabric.

- Cleaning jets are aiming at the surface, inside the structure and through CMD voids.
- Surface contaminants are removed via vacuum.
- Structure contaminants are pushed through the fabric into a fixed catch pan underneath.
- An air knife removes residual cleaning water from the fabric.

Why partner with Voith?

Paper machine operators turn to Voith, the leading full-line supplier for the paper industry, thanks to Voith's world-class products, unparalleled service and knowledgeable experts. Backed by this level of know-how, operators can rely on Voith to deliver the solutions they need to improve their operational efficiency and improve the sustainability of the paper making process.

The CleanLine series of products from Voith are available for the former, press, dryer and coater sections of the paper machine. These systems deliver consistent, uniform cleaning by removing contaminants to improve quality of end products, efficiency and productivity.

"The customer was absolutely thrilled with the outcome of the CleanLine Extract4D installation, and continued to use the fabrics through the next outage, putting them at a 124-day run life. The fabrics actually are expected to wear out before needing to be removed for contamination issues. That is a great result!"

Alexander Aerts
Local Product Management, Manager

Voith Group
2200 N. Roemer Road
Appleton, WI 54911-8687

T +1 920 358 2227
Alex.Aerts@voith.com

<http://voith.com/corp-en/papermaking/cleanline.html>



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