



Maximum dryer productivity CleanWeave is a perfect match for CleanLine Extract 4D

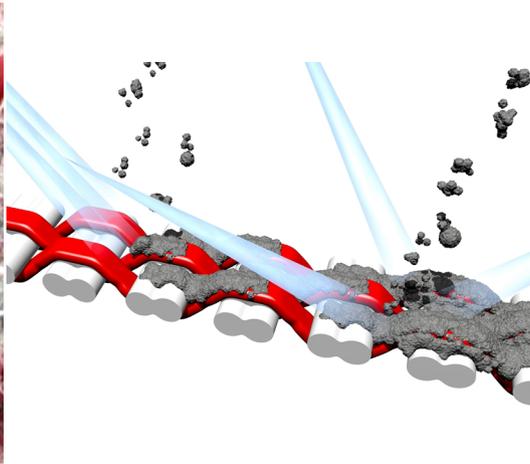
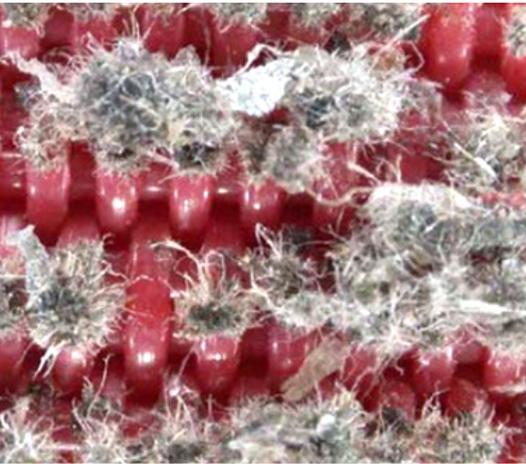
Finding the perfect mix of the right dryer fabric and the perfect cleaning system is the key to meeting your productivity and sheet quality expectations. The proven combination of our contamination-resistant CleanWeave dryer fabrics and our highly efficient CleanLine Extract4D is the perfect solution!

Mismatched dryer fabric and cleaning system pairings cannot only cause insufficient results in your product quality, they can also reduce your productivity. At best, the fabric does not get as clean as possible, at worst, the cleaner can fibrillate the fabric and reduce its performance and lifetime.

This is the reason Voith has synchronized its CleanLine Extract4D cleaning system in extensive trials perfectly with CleanWeave and Spiral fabrics to provide you with perfectly clean

fabrics and keep your runnability at peak level.

- The benefits & advantages of the pairing**
- + Improved runnability and drying efficiency
 - + Increased productivity
 - + No fabric fibrillation
 - + Improved moisture profile
 - + Increased system and roll cleanliness



Before, at left: The competitor cleaner after 10 days of operation. In middle: A close up look of the cleaning process. After, at right: CleanLine Extract4D after 10 days of operation.

About CleanWeave

CleanWeave dryer fabrics were developed to reach better results in drying efficiency. They are characterized by strength, durability and hydrolysis resistance throughout their whole lifetime. The design is targeted to minimize the build-up of contamination within the fabric structure, enable easy cleaning and to manage the extreme conditions in a dryer section.

About CleanLine Extract 4D

CleanLine Extract4D continuously cleans a running fabric, allowing highest fabric performance and productivity. The system operates on a traversing beam, utilizing small-volume, high-pressure needle jets of water in 4 directions to reliably remove stickies and contamination from the surface and internal structure of the fabric.

- + Improved moisture profile
- + Cleaning jets are set up to clean the surface, inside the structure and the cross machine direction voids
- + Surface contaminants are removed via vacuum.
- + Structure contaminants are pushed through the fabric into a catch pan underneath.
- + An air knife removes residual cleaning water from the fabric.

CleanWeave/CleanLine Extract4D case studies

Voith has several installations with paired CleanWeave dryer fabrics and CleanLine Extract 4D in operation at customers. Here are some examples of the results:

Case Study 1 - A 1800m/min, 10.40m wide paper machine: The CleanWeave/CleanLine Extract4D section proved far cleaner than the previously installed competitor cleaning system. With 60% fabric permeability retention before, the CleanLine Extract4D-Cleanweave combination achieved a retention rate of 88% - a plus of almost 50%. On the top fabric it eliminated 20mm bitumen spots, which was not possible before.

Case Study 2 - A 1700m/min, 11m wide paper machine: This case study directly compared competitor's cleaner vs. CleanLine Extract4D. Achievements realized are:

- + Cleaner fabric surface and structure.
- + Eliminated wet streak in the sheet.
- + One extra day of paper production.
- + Fabric removal at planned shutdowns instead of using unplanned washdowns.
- + 2x higher fabric cleanliness than before at an achieved 76% permeability retention.

For further information or case studies, please contact your local sales manager.

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