



Contaminated and cleaned Dryer Fabric. Contamination on the surface is effectively removed with the DuoCleaner Express.

Making a huge difference in the dryer section

Improving the drying process using PrintTech LFC with Linx technology

PrintTech LFC spiral dryer fabric with Linx technology combines into one fabric the advantages of different designs such as easy to clean and high abrasion resistance.

Higher machine speeds and increasing use of recycled fiber are placing greater demands on low permeability dryer fabrics for fabric cleanliness, better overall wear resistance, improved tail threading and reduced break frequency.

Fabric Cleanliness

To maintain a clean fabric in the early dryer sections has always been a priority for papermakers. Besides helping to achieve high sheet quality and maximum heat transfer, a clean fabric also ensures good transmission of under-pressure for effective sheet control and less sheet breaks. Fabrics are often removed prematurely due to heavy contamination.

In PrintTech LFC, the X-shaped stuffers have a special design. They work together with the spiral structure to ensure that high pressure cleaning water jets are deflected. Thereby, the surface scabs are removed effectively.

The cleaning effect of different fabric designs has been tested on a state-of-the-art Pilot Cleaner test rig at Voith Paper facility in St. Pölten, Austria. Test samples were cleaned with high pressure jets at 350 bar for 4 seconds. The test results confirmed PrintTech LFC with Linx Technology is the easiest to keep clean. During continuous dryer fabric cleaning, it is possible that too much water is carried on the surface of the fabric

causing re-wetting of the web and creating other paper quality issues. The tests also prove that the higher the surface void volume, the greater the risk of re-wetting.

Linx technology produces a spiral fabric with the lowest surface void volume among all the spiral designs in the market. Working together with modern cleaning systems, such as Voith's DuoCleaner Express, PrintTech LFC with Linx Technology consistently delivers a cleaner fabric with lowest re-wetting to meet the expectation of papermakers.

Better overall wear resistance

A further concern is reduced life and damage caused by abnormal wear.

For normal woven designs, the seam area, being the weakest link of the fabric, will experience quicker wear and fail prematurely, with potentially high risk of damage to the machine. PrintTech LFC with Linx Technology

is 250% stronger than most woven designs and has 40% more material to resist wear.

Successful on the machine

On a high speed graphic paper machine in Asia, the average fabric life on the 2nd dryer section had reduced from 95 days to 40 days due to abnormal roll side seam wear caused by pitted roll surfaces.

Due to its superior wear resistance, PrintTech LFC with Linx Technology improved the life by 68% and was removed safely at a scheduled machine shut after 160 days. This translates to a potential fabric cost savings of thousands USD per year. The customer was extremely pleased and rewarded Voith Paper Fabrics with repeat orders.

Summary

Many dryer fabrics have short lives due to either contamination or fabric

wear or sometimes, a combination of both. By choosing PrintTech LFC with Linx Technology, and combining it with a good cleaning system, these problems could easily be overcome. Longer life and fewer fabric changes translate to economic benefits, less machine downtime, higher production and lower operational costs.

The above benefits together with achieving reduced break frequency and improved sheet quality leads to happier faces in the paper mill. In conclusion, PrintTech LFC with Linx Technology can truly make a huge difference in the drying section.

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The structure of the PrintTech LFC is optimized with specially designed filler yarns.

