

Revolution press fabric
Higher dry content
for Board & Packaging



+ Maximum dewatering
 + minimum re-wetting
 + longer steady-state performance
 + highest stability
 + quick start-up
 + higher paper surface quality

Revolution press fabric

New superiority: Revolution press fabric

A revolution represents a drastic change from the norm. The Voith Revolution press fabric sets new standards in the production of board and packaging paper.

The Revolution press fabric enables higher production speeds, maximizes dry content, maintains performance and can enhance sheet surface properties. These results can translate into energy and cost saving benefits by lowering steam consumption, increasing tonnage and producing a smoother sheet. The Revolution press fabric represents a step change in the way a press fabric is perceived to perform.

Properties	Revolution	Standard
Maximum dewatering	●●●	●
Minimum re-wetting	●	●
Longer steady-state performance	●●●	●
Highest stability	●●	●
Quick start-up	●●●	●
Higher paper surface quality	●●	●



Increased efficiency: More dryness

The Revolution press fabric has improved the dewatering of board and packaging paper to maximum levels. The Revolution layer enhances and manages hydraulic pressure to increase dewatering in the press nip. Additionally, the resiliency of the polymer layer minimizes rewetting to maintain the dryness exiting the nip.

Gained time: Quick start-up

The Revolution press fabric converts time in to money in two ways:

- Fast fabric saturation allows for rapid transition to high speed and production
- Resiliency in the structure allows for maintained operational machine speeds

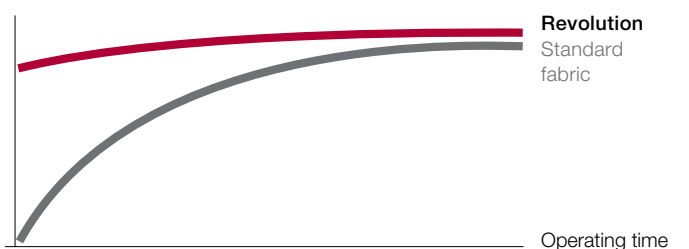
Achieving high speeds and maintaining them is an economical solution.

Production of test liner and corrugated medium

Dry content in percentage

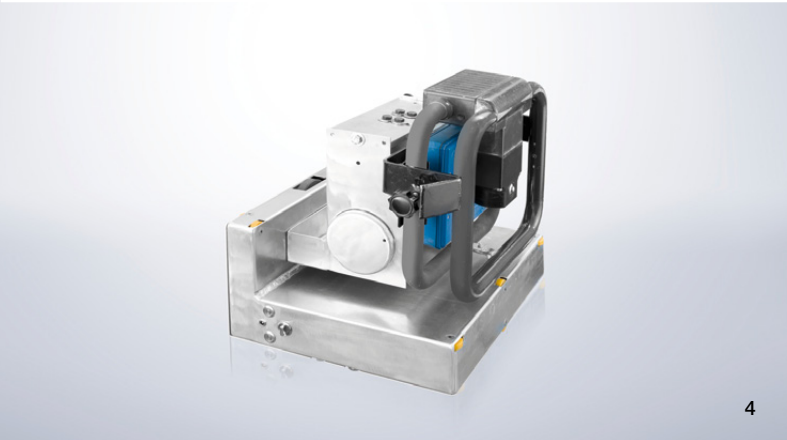


Nip dewatering over fabric lifetime





- 1 All benefits of Revolution at a glance.
- 2 Higher paper surface quality with Revolution.
- 3 Board – a market with a wide future.
- 4 ProTect – press fabric measurements easy and safe.
- 5 A new standard for press fabrics.



ProTect for safe press fabric measurements

Due to Voith's extensive know-how as a system provider, its products are perfectly coordinated with one another. Production costs can thus be lowered and consumption of resources reduced.

For increasing the operational safety during press fabric measurements while the paper machine is running, Voith has developed ProTect. With the fabric measurement system, dangerous manual measurements are a thing of the past. ProTect is safe, easy and extremely flexible.

The system consists of a self-propelled carriage, fixture and any number of traverse beams. It allows a precise measurement of fabric moisture and permeability at various sites. To carry out the measurement, the manual measurement device attached to the carriage is fitted into one of the firmly installed traverse beams. The system is operated by simply pressing a button; no more manual measurements are necessary. ProTect can be used with all commercially available manual measurement devices, but without endangering the maintenance team or service personnel.



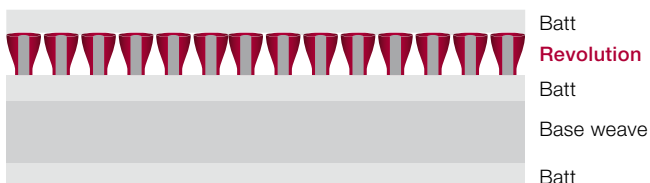
Advantage Revolution: Perfect properties

The Revolution technology incorporates a specialized polymer layer which maintains a consistent pore volume density within the fabric matrix. The Revolution layer controls water flow before, during and after compression to effectively promote dewatering and self-cleaning.

High structural stability + self-cleaning effect

= maintained performance

Design of Revolution



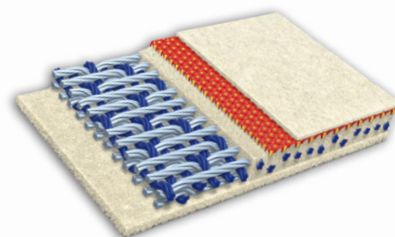
Superior quality: Efficient compressibility

The polymer technology of Revolution makes it superior in two aspects. On the one hand the fabric surface must have high contact area with the paper web to reach improved sheet smoothness. On the other hand the Revolution layer can be applied so that under compression, the pressing uniformity of the press fabric is significantly improved. The resiliency and water management capability of the Revolution layer translates to longer steady-state performance of the fabric.

Higher contact area + increased resiliency

= increased economic efficiency

Revolution for superior board and paper quality



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