

WePack PRIME

The highest stability and running performance.
Forming fabrics for packaging paper.



Your needs. Our motivation.

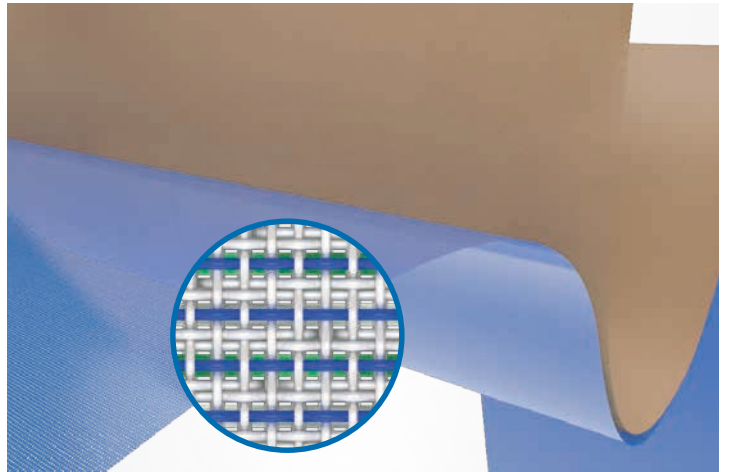
At ANDRITZ, we draw our motivation for innovative solutions from the requirements of our customers.

Our products offer

A fine surface

- A small yarn diameter
- A high number of yarns
- Low-marking designs

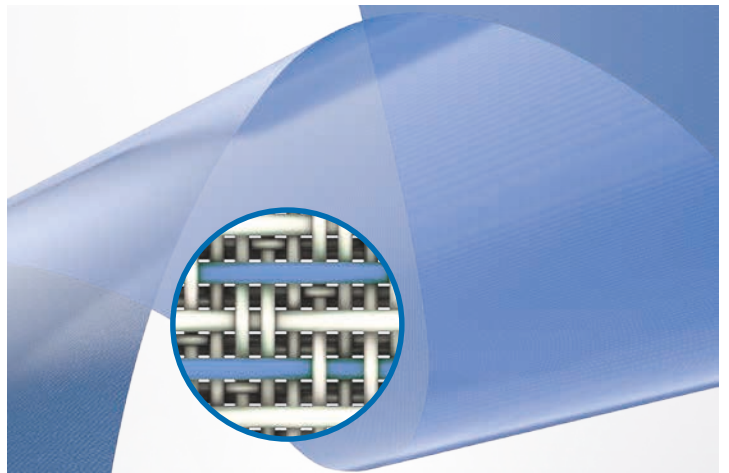
→ **The best printability**



Rugged bottom side

- Larger yarn diameters
- Long-floating designs

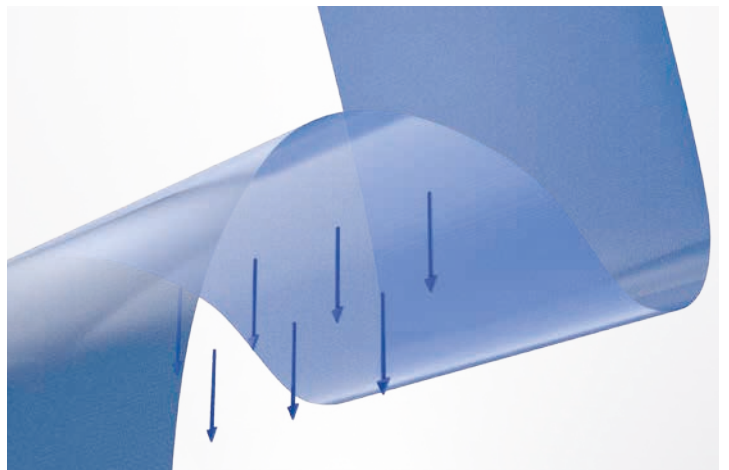
→ **High level of stability**



High dewatering performance

- Little flow resistance
- Low water restraint
- Lowest fabric caliper

→ **High dry content and machine speeds**



Positive impacts on your process

Energy savings

- Reduction of vacuum energy
- High dry content
- Reduction of friction losses due to special materials



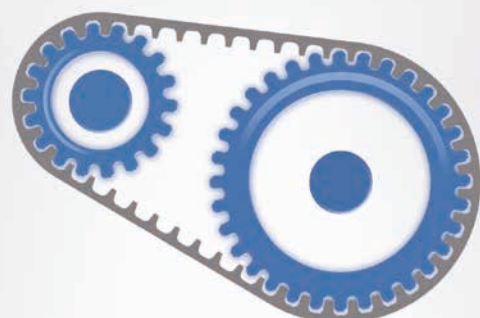
Machine hygiene

- Easy to keep clean
- No water/fiber carrying
- High process reliability



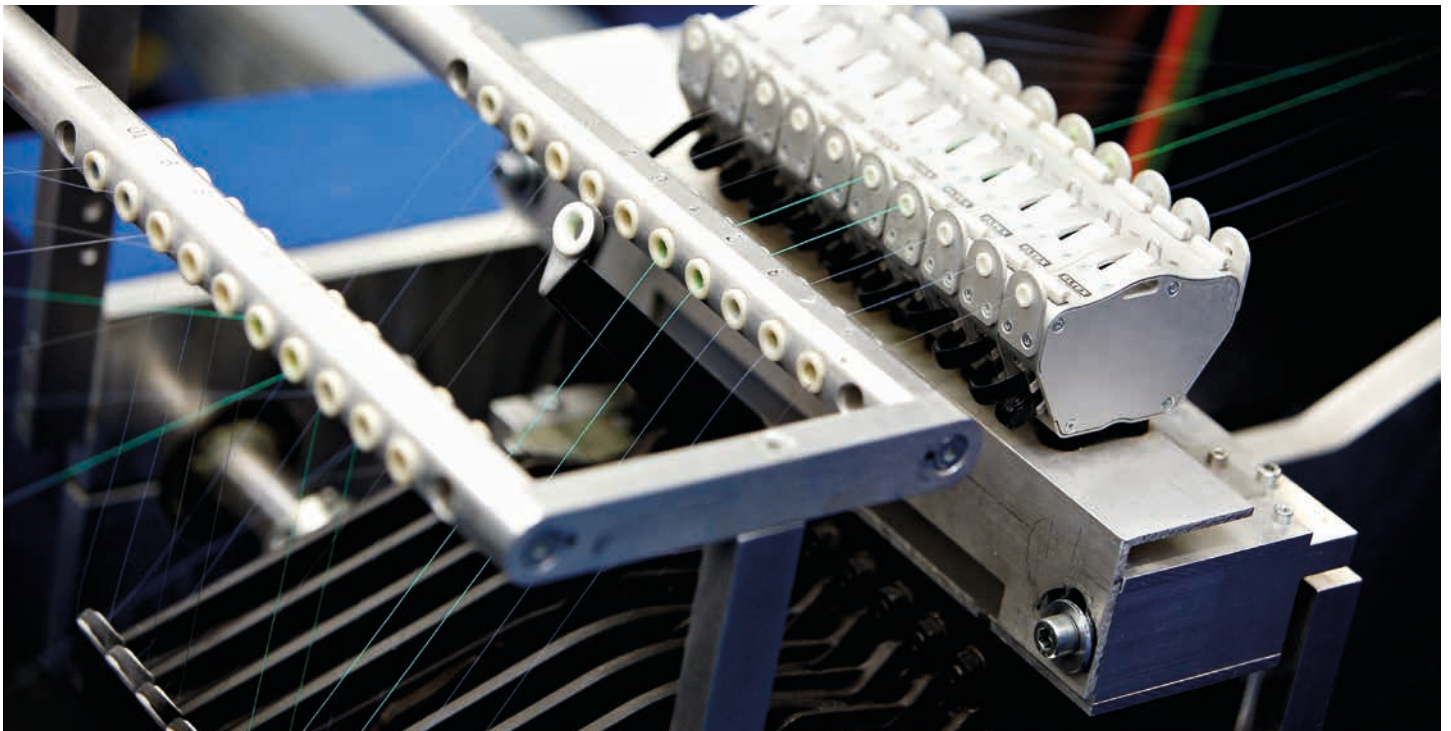
Machine efficiency

- Reduced shutdown times
- Optimal fabric life times
- Less breaks



The challenge

Stable fabric design for packaging paper with graphic surface qualities



Our goal

- Improvement of paper strength and printability with simultaneous reduction of basis weight
- Homogenization of the surface topography for better printability

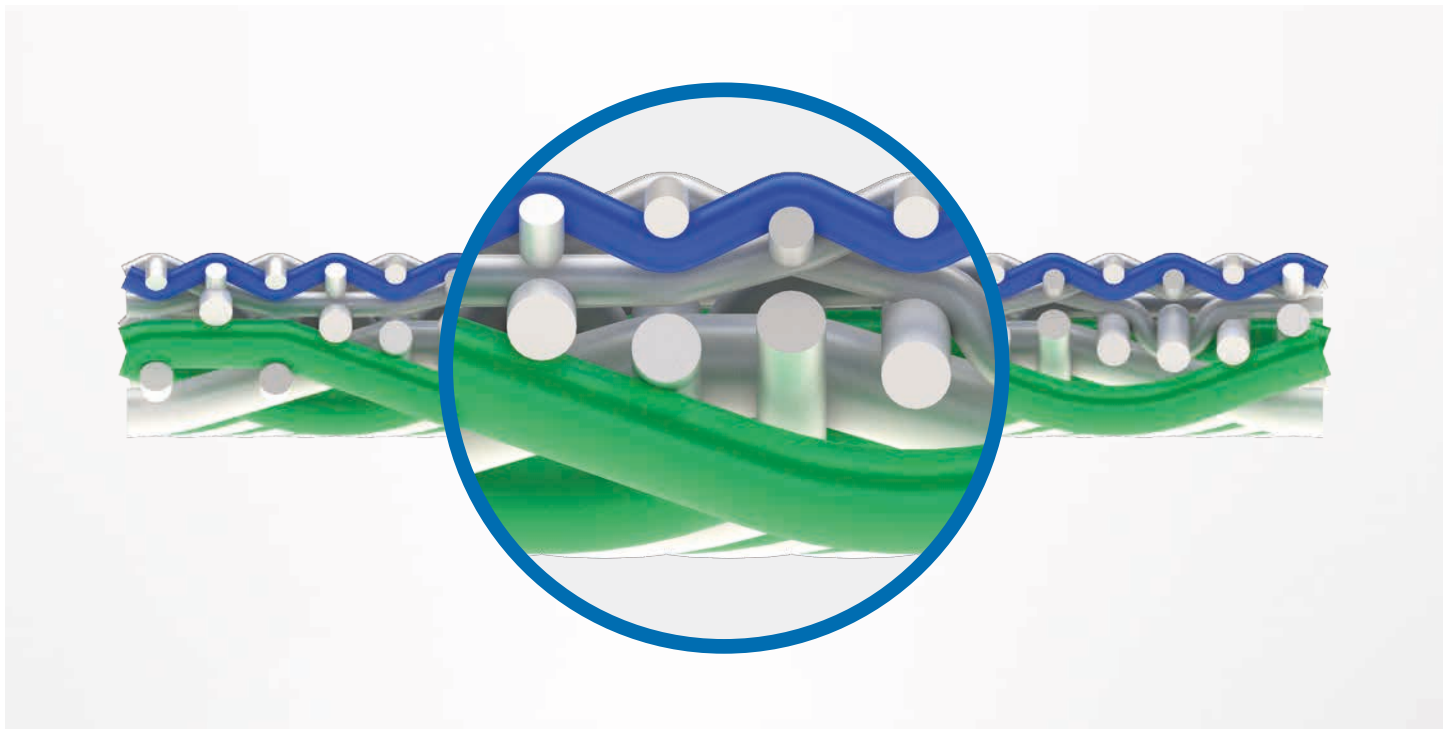
The key to success

- Combination of two completely different fabric layers in one functional design
- One is oriented to the requirements of graphic paper, the other to the high expectations regarding running time in the production of packaging paper

Our solution

Fineness combined with stability

Structure-bound triple-layer fabrics in warp-bound or weft-bound design

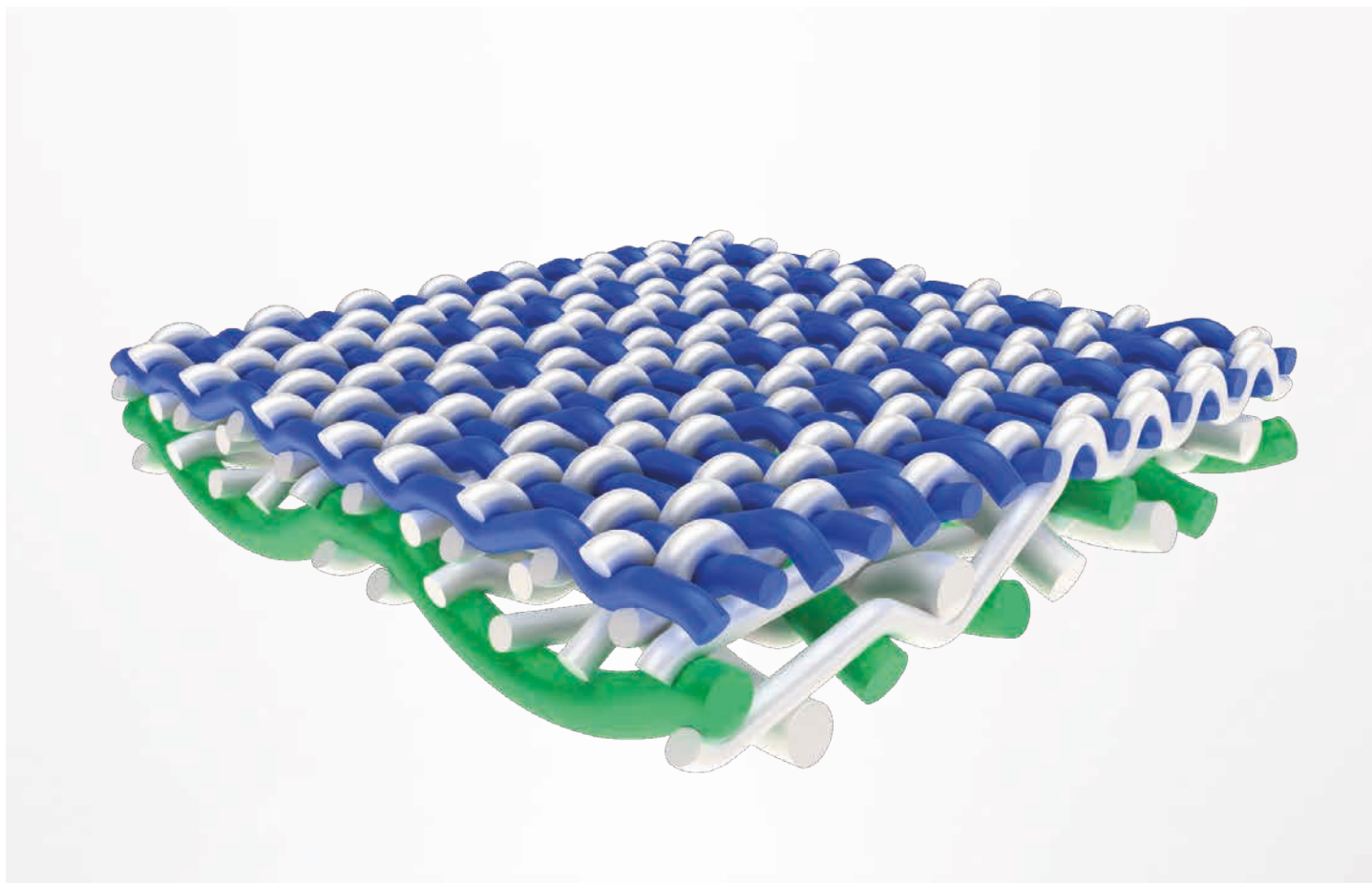


The result

- A fine paper side due to two-shaft design and use of comparatively thin yarns
- Rugged machine sides with noticeably higher yarn diameters, an abrasion resistant material combination and longer floating designs

WePack PRIME HX

Direct cost savings due to the reduced number of fabrics used and thus a reduction of overall downtimes

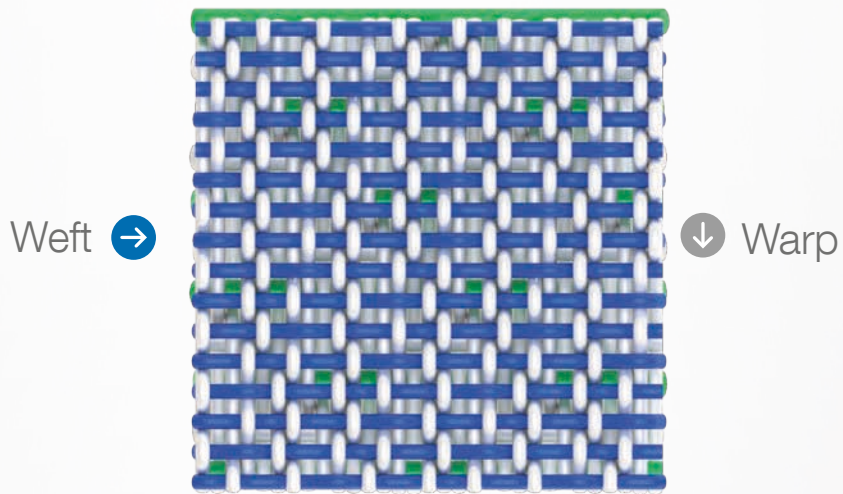


Characteristics

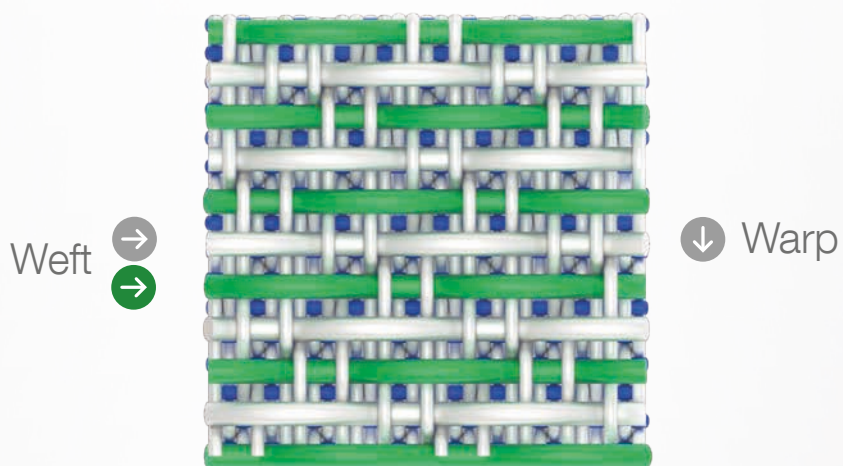
- High level of cross-stability and an enormous material volume due to 0.45 and 0.50 mm bottom weft diameter.

Also available as E-Line (WePack PRIME HE)

You can find information on E-Line from page 10 on.



▲ Paper side



▲ Machine side

Paper side

Warp and weft with the same yarn diameters were woven together in a plain weave. This guarantees a very uniform surface and a high number of fiber support points.

Machine side

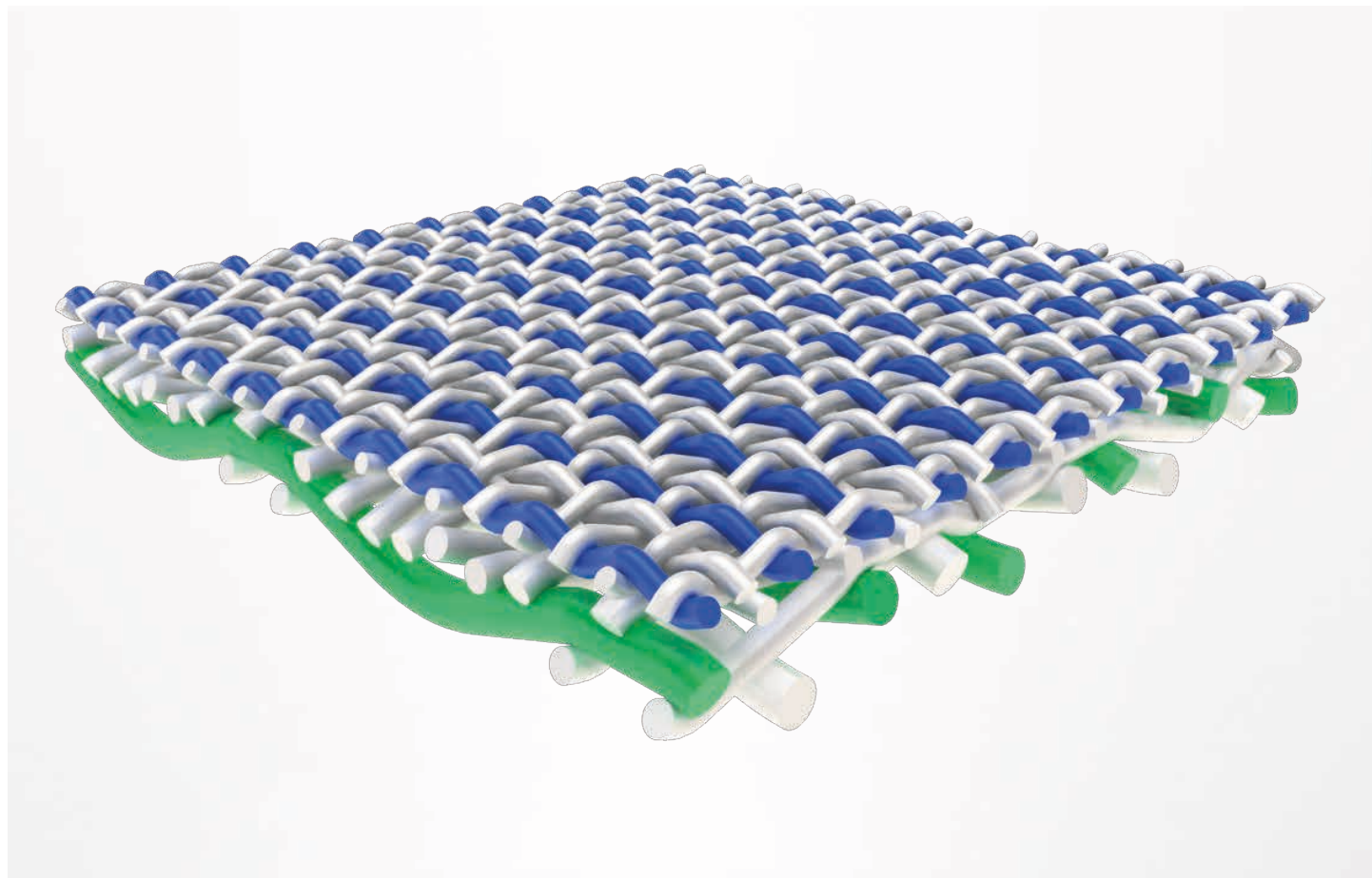
The open structure of the fabric bottom side in connection with high yarn diameters guarantees the highest dewatering performance and dimensional stability of this extremely rugged and durable design.

Benefits

- Long running times
- High dewatering performance

WePack PRIME GX

Distinctive fiber retention capability and optimal fiber orientation with a lower raw material input. For saving fibers and a comparatively long running time

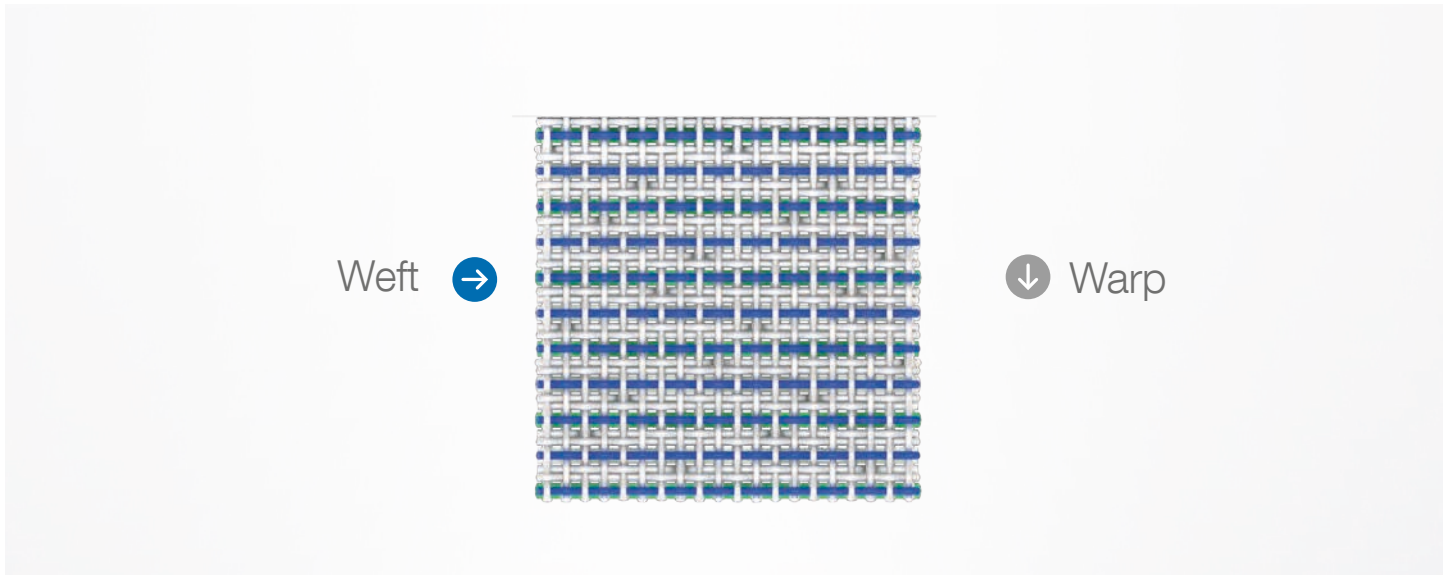


Characteristics

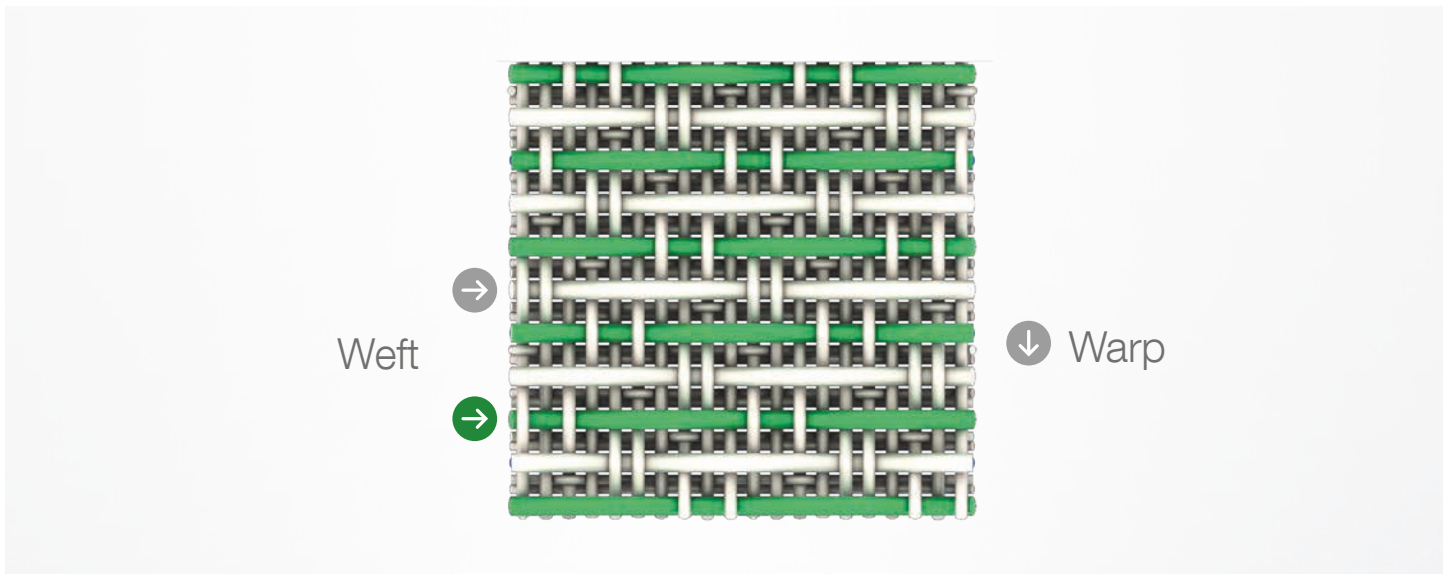
- Finely structured surface with a high level of fiber support
- Rugged bottom side due to 0.40 mm bottom weft diameter

Also available as E-Line (WePack PRIME GE)

You can find information on E-Line from page 10 on.



▲ Paper side



▲ Machine side

Paper side

The greatest possible number of fine yarns form a network that is retentive and supportive of fibers.

Machine side

Rugged and noticeably thicker yarns characterize the machine sides of these fabrics. They are the guarantors of the necessary cross machine stability and a correspondingly high running time potential.

Benefits

- Very low marking tendency
- Very good printability
- Good running time potential

E-Line technology for forming fabrics



The idea

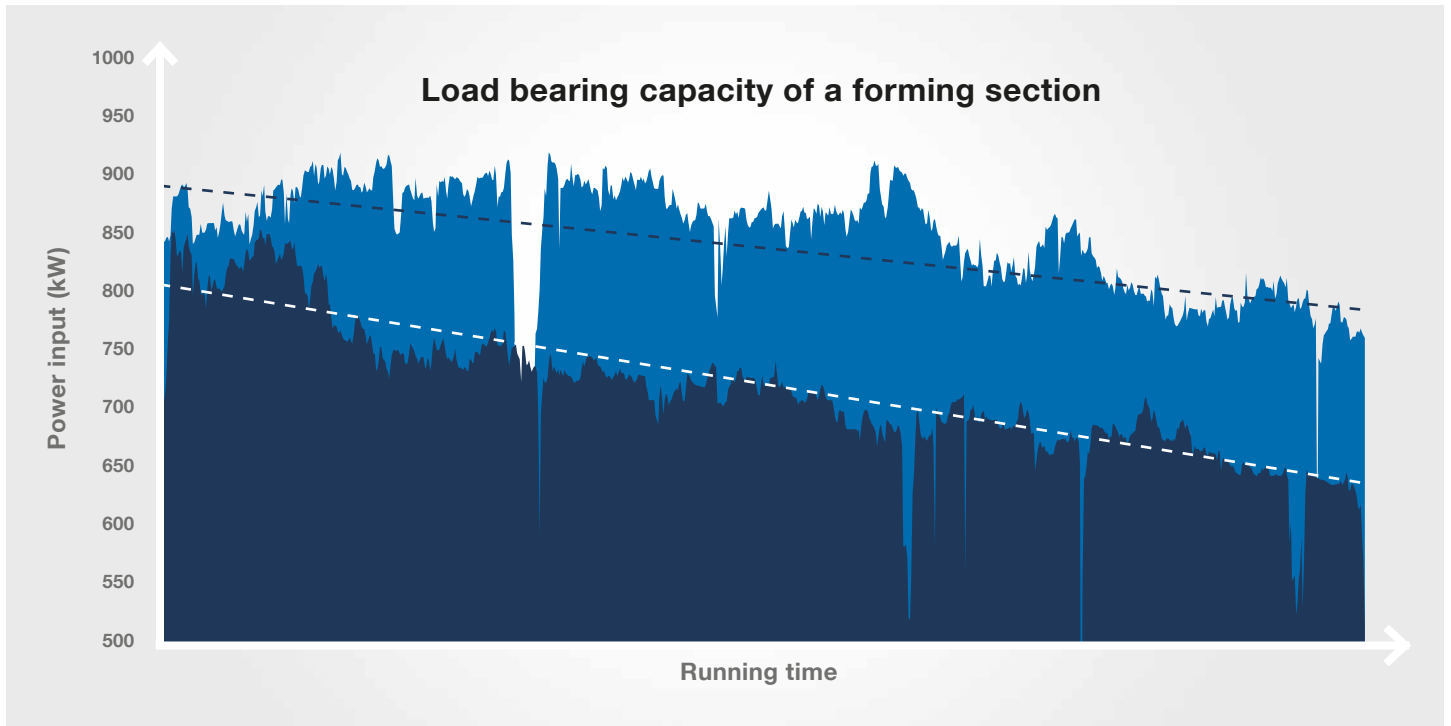
In the last decade, reduction of energy consumption has become the most important aspect of sustainable development for the paper industry. Not just due to environmental relevance, but also as a significant cost factor in today's paper production. This demands an increase in efficiency through new materials and designs because reduced energy consumption of course means cost savings. Depending on the paper grade, the average energy

consumption of a paper machine fluctuates around 90 kWh/t. In general, around 15% of this energy is used in the wet section. Because the fabric drive and suction units consume 70-80% of this portion, substantial energy savings become possible through the use of ANDRITZ Kufferath E-LINE fabrics due to their lower friction coefficient.

The key to success

Due to innovative yarn technologies, the required drive energy is significantly lowered without having to put up with restrictions in the running behavior of the forming fabrics or in their sheet formation characteristics.

The new generation of fabrics for higher yields



30% savings

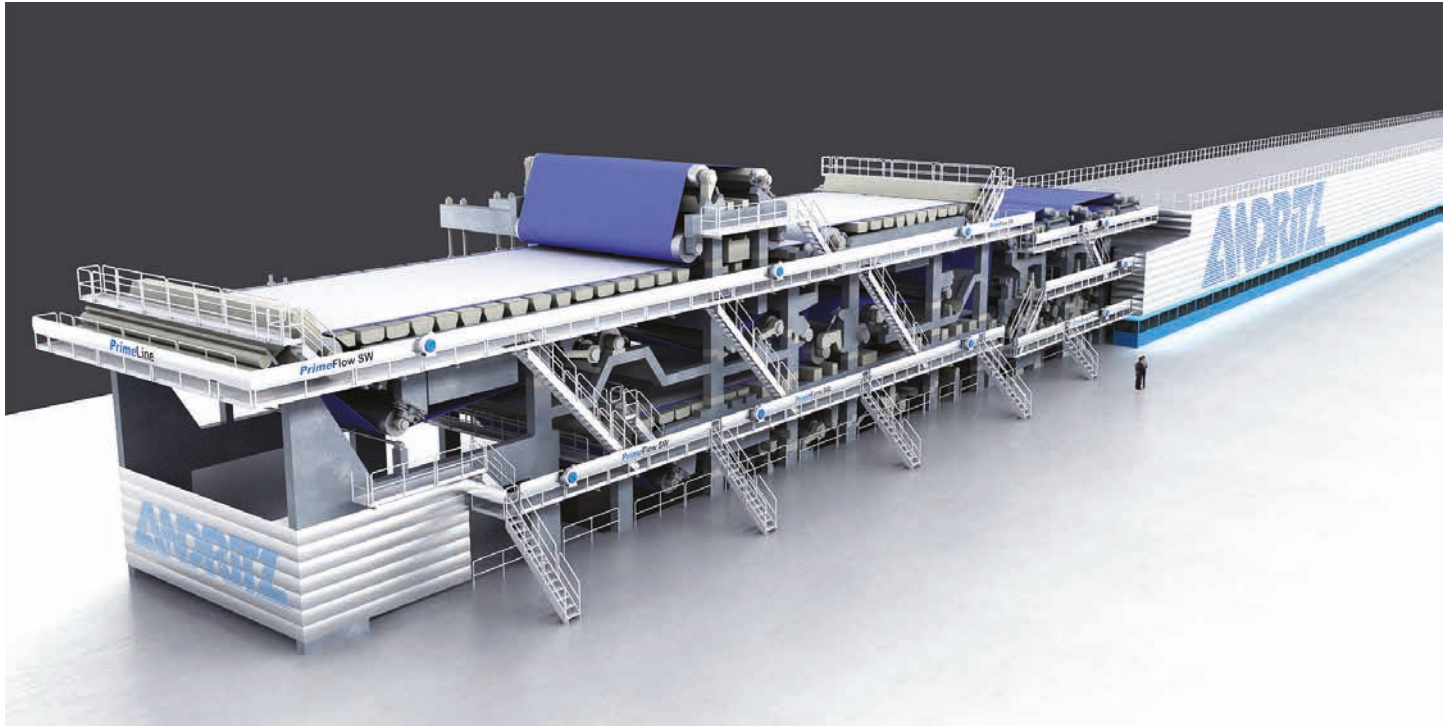
In comparison to the polyester/polyamide fabrics still predominantly used today, a paper produced with E-Line yarns achieves savings of up to 30%. Abrasion-related changes in fabric properties appear substantially later due to lower friction between fabric and vacuum-aided dewatering elements. The preconditions for optimal sheet formation similar to that of a new fabric are preserved longer.

Benefits

- Reduction of energy costs
- Improved running characteristics
- Increase in paper production
- No change in operation of the paper machine
- Easy unchanged handling of the fabric

ANDRITZ

Take advantage of sound process know-how from a single source



Experienced in innovation

With more than 200 years of experience in paper manufacturing, our current products are perfectly tailored to ensure a positive and lasting influence on your process performance. All design innovations focus on quality, productivity and energy efficiency, regardless of the manufacturer and type of your paper machine.

WePack PRIME

- Very good printability
- High level of abrasion resistance
- Better dimensional stability
- High level of paper strength

ANDRITZ Kufferath GmbH

Lommessesmstraße 32
52353 Düren, Germany
Phone: +49 (2421) 8010
kufferath@andritz.com
www.andritz.com

ANDRITZ AG

Stattegger Strasse 18
8045 Graz, Austria
Phone: +43 (316) 6902 0
pulpandpaper@andritz.com
www.andritz.com