

Fabrics and roll covers for pulp drying machines

Perfect fit for all pulp grades





CellForm forming fabrics with best drainage

The CellForm product family includes well proven designs that are capable of handling the demanding requirements encountered in the forming section of pulp machines.

This forming fabric range holds unique designs that distinguish themselves through damage resistance, stability and dewatering capacity. Many quality issues can thus be solved.

In various applications, CellForm products were able to improve runnability and performance parameters. Optimized machines equipped with CellForm fabrics could thus achieve record production levels.

CellForm OP

- Optimal support and damage resistance
- Unlimited dewatering capacity
- High stability
- Highest wear potential in the market
- Easy cleanability
- Fast and save installation with an optional pin-seam



Design CellForm OP



- 1 Voith has the right forming fabric for your production process...
- 2 ... no matter the resources used.

CellForm O

- Highest damage resistance
- High drainage capacity
- Industrial high stability
- Good life potential
- Easy cleanability
- Fast and save installation with an optional pin-seam



Design CellForm O

CellForm N

- Highest mechanical retention
- Controlled drainage
- Low marking
- Very good stability
- Good life potential



Design CellForm N



Press fabrics and roll covers for pulp production

Voith's CellFlex press fabrics for pulp machines stand out due to their unprecedented dewatering capacities over the entire lifecycle.

In addition to the most recent family addition, CellFlex VMax, there exists a broad range of pulp press fabrics. Their open structure offers high dewatering with lower vacuum levels and requires less chemical cleaning. CellFlex fabrics have helped to improve production significantly at various installations worldwide.

All CellFlex fabrics are available in both seamed and endless versions.

When it comes to efficient pulp production, the right combination of press fabric and roll cover can maximize the customer's benefit.

The broad choice of rubber and polyurethane covers from Voith enhances dryness with the highest operating void volume, an increased open area and optimum surface stability even under the extreme nip conditions in the press section.

Voith press roll covers for pulp thus result in higher production levels, reduced maintenance costs, maximum energy savings and improved felt performance.



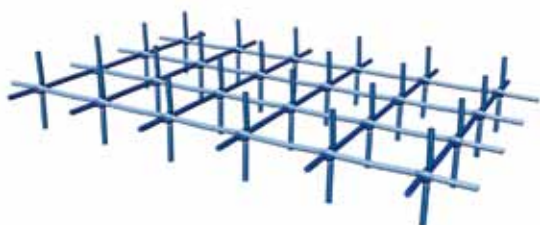
CellFlex VMax

The innovative press fabric

No other press fabric for pulp has ever shown a comparable dewatering performance and consistency over such a prolonged operational period: Don't miss out on CellFlex VMax!

The new multi-dimensional base component with alternating dynamic filaments for an increased open structure allows a considerable reduction of vacuum. This not only maximizes dewatering but also reduces the consumption of energy, water and chemicals.

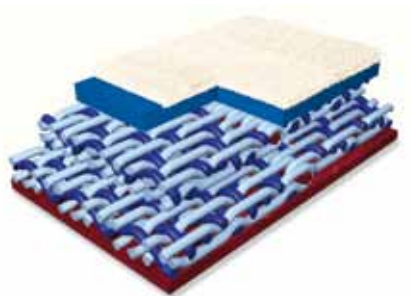
The special structure supports strength and stability, thus reducing wear and ensuring a steady-state operation at high output levels over a long time.



Technology CellFlex VMax

CellFlex VMax or CellFlex VMax Seam

- High compaction resistance
- Outstanding dewatering capacity
- Very good wear resistance and long durability
- Continuous, high performance level
- Improved pore volume density
- Seam option: user-friendly seam for easy installation
- Very good cross directional stability



Design CellFlex VMax Seam

More CellFlex press fabrics for improved dewatering

CellFlex V4 or CellFlex AS V4 Seam

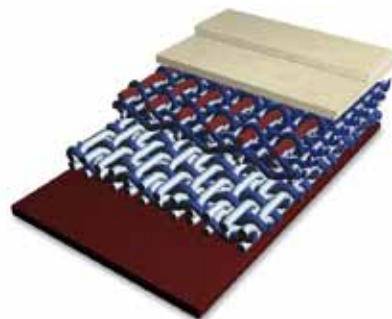
- Woven double-layer base structure with double Vector technology
- Large MD and CD compaction-resistant base yarns
- Open-base cloth structure with excellent void volume
- Two layers of Vector to facilitate macro pressing in the nip
- Seam option: user-friendly seam for easy installation
- Very good cross directional stability



Design CellFlex AS V4 Seam

CellFlex Marker or CellFlex Marker Seam

- Marking felt designed to clearly groove the pulp sheet and increase surface area for better drying
- Open-base cloth structure with excellent void volume
- Coarse batt for better wear and effortless water flow
- Seam option: user-friendly seam for easy installation
- Very good cross directional stability



Design CellFlex Marker Seam

CellFlex V6 or CellFlex AS V6 Seam

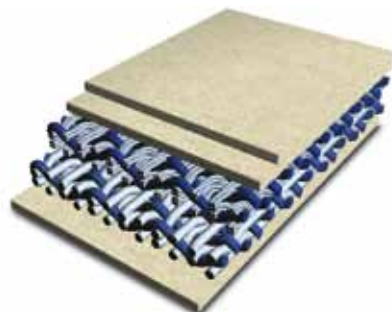
- Two double-layer woven bases with double Vector technology
- Excellent life potential
- Very high dewatering capacity
- High compaction resistance
- Maintained permeability for improved drainage
- Two seams for durability and safety
- Very good cross directional stability



Design CellFlex AS V6 Seam

CellFlex O4

- Laminated four-layer endless structure
- Durable compaction-resistant bottom base to maintain void
- Top base for additional void and wear resistance



Design CellFlex O4

- 3 Continuously high performance level
- 4 Advanced press fabric technology
- 5 Fabrics for all requirements and pulp grades

Roll covers for increased performance

SolarPress and SolarFlow

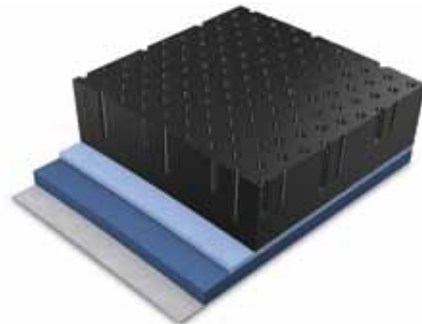
- Cost savings: Enhanced polyurethane properties provide highest abrasion resistance which leads to stable nip conditions over the complete lifetime.
- Energy savings: The efficient surface layout with high void volume reduces the consumption of energy needed for drying. Furthermore, it is possible to switch off the inner cooling and thus save additional energy and resources.
- Reliability: WebNet Technology and improved abrasion resistance assure steady-state operation.




SolarFlow polyurethane roll cover for suction press rolls

MegaPress and MegaFlow

- Safety: Secure Technology enhances bonding strength over the standard method by four.
- Lifetime: Heat dissipation at a rapid pace results in less wear to the cover, improving aging and after-hardening resistance.
- Dewatering efficiency: Increased open surface area results in higher void volume, improved dewatering and dry content.



MegaPress rubber roll cover for press rolls



The unique CellFlex product family of advanced press fabrics unites unparalleled dewatering capabilities with ease of installation. In combination with one of Voith's specialty roll covers, dewatering is increased significantly. The results speak for themselves: Pulp fabrics and rolls from Voith thus represent the perfect fit for your success!

Cost savings

The press section utilizes a tremendous amount of water. Even though most pulp machines have closed-loop water systems, there is still a cost to this and a regular injection of fresh water is required. With the use of CellFlex products, up to 31% of conditioning water can be saved.

Improved dewatering

Dewatering in pulp machines relies on void volume and the ability of the press fabric to transport this water efficiently. The right combination of roll covers and press fabrics has been able to achieve an increase in production of up to 2.3%.

Proven technology

Voith strives to improve the efficiency and operation of pulp machines with an integrated approach to product selection. New technologies are verified on the modern MasterFlex Press at the Voith Pilot Drying Machine in Sao Paulo and validated with successful customer operation.



CellTech broke conveyors for good grip and stability

CellTech is a stable broke conveyor belt used on pulp machines. It is extremely wear resistant and guarantees efficient transport of broke, even on inclined surfaces.

The coarse multi-filament yarns on the surface give a high level of grip and thus offer reliable broke transport. Thanks to its high level of dimensional stability, CellTech is able to transport heavy loads. With broke conveyor belts that run on concrete floors, multi-filament warp yarns provide protection against surface wear for the load-bearing machine direction yarns. CellTech is suitable for broke conveyor belt applications with inclined surfaces.

CellTech

- Strong fabric
- Very good grip
- High seam strength



6 Efficient pulp production

7 High quality pulp with Voith products

AirTape threading tapes for demanding environments

The threading of the pulp web through the dryer is a critical step for pulp machines. Voith thus developed high-performance threading tape for demanding environments.

AirTape V is used in air-floated dryer sections of pulp machines. As its purpose is to feed the tail through the dryer section, AirTape V has to withstand intense conditions. Among them are high degrees of heat and moisture and strong tension from the faster-running pull press rolls. Thanks to its composition of Nomex material and thorough chemical treatments, AirTape V resists all difficulties and helps to produce first-class pulp sheets.

AirTape V threading tape

- Composition of 100% Nomex material in cross and machine direction gives excellent resistance to heat and moisture
- Low elongation and high breaking strength of 22,300 daN/m
- Temperature resistance of up to 230°C
- Chemically treated for improved wear and moisture resistance

Headquarters

Voith Paper Holding GmbH & Co. KG
St. Poeltener Str. 43
89522 Heidenheim, Germany

Further Information



paper@voith.com
www.voith.com/paper

Regional Contacts

Asia

Voith Paper in Kunshan, China
Tel: +86 512 577 61 858

Europe

Voith Paper in Heidenheim, Germany
Tel: +49 7321 37 7490

North America

Voith Paper in Wilson (NC), USA
Tel: +1 252 291 3800

South America

Voith Paper in São Paulo, Brazil
Tel: +55 11 3944 4089

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Engineered Reliability