

Everything is possible

Infinity Press Fabrics



The most advanced press fabric family

Infinity press fabrics

Voith's Infinity press fabrics are designed for the most challenging applications in today's world of papermaking. A full line of advanced press fabric designs suit every machine configuration and customer expectation.

Infinity press fabrics have an especially uniform, high-quality base fabric that results in a laminated structure with the ability to maintain void volume throughout operation. Infinity is the best choice for your paper machine.

Fast installation: engineered seam zone

Infinity products can be ordered with or without a seam. The Infinity seam loops are perfectly formed with identical loop length roundness and spacing.

Better sheet quality: pressure uniformity

The base offers a high degree of contact points and base uniformity.

Clean run: high compressibility

The Infinity base interaction allows for high compressibility and resiliency to improve dewatering and keep the fabric clean.

Benefits

- + Steady performance over lifetime, reliable outputs**
 - + Increased fiber anchorage**
 - + Opportunity for optimized nip dewatering**
 - + Reduces fiber loss even at the end of the felt life**
 - + Part of Advanced PRODUCTS**
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Perfect fit: extraordinary width stability

Attributable to the manufacturing process, the base fabric provides excellent in-plane stability.

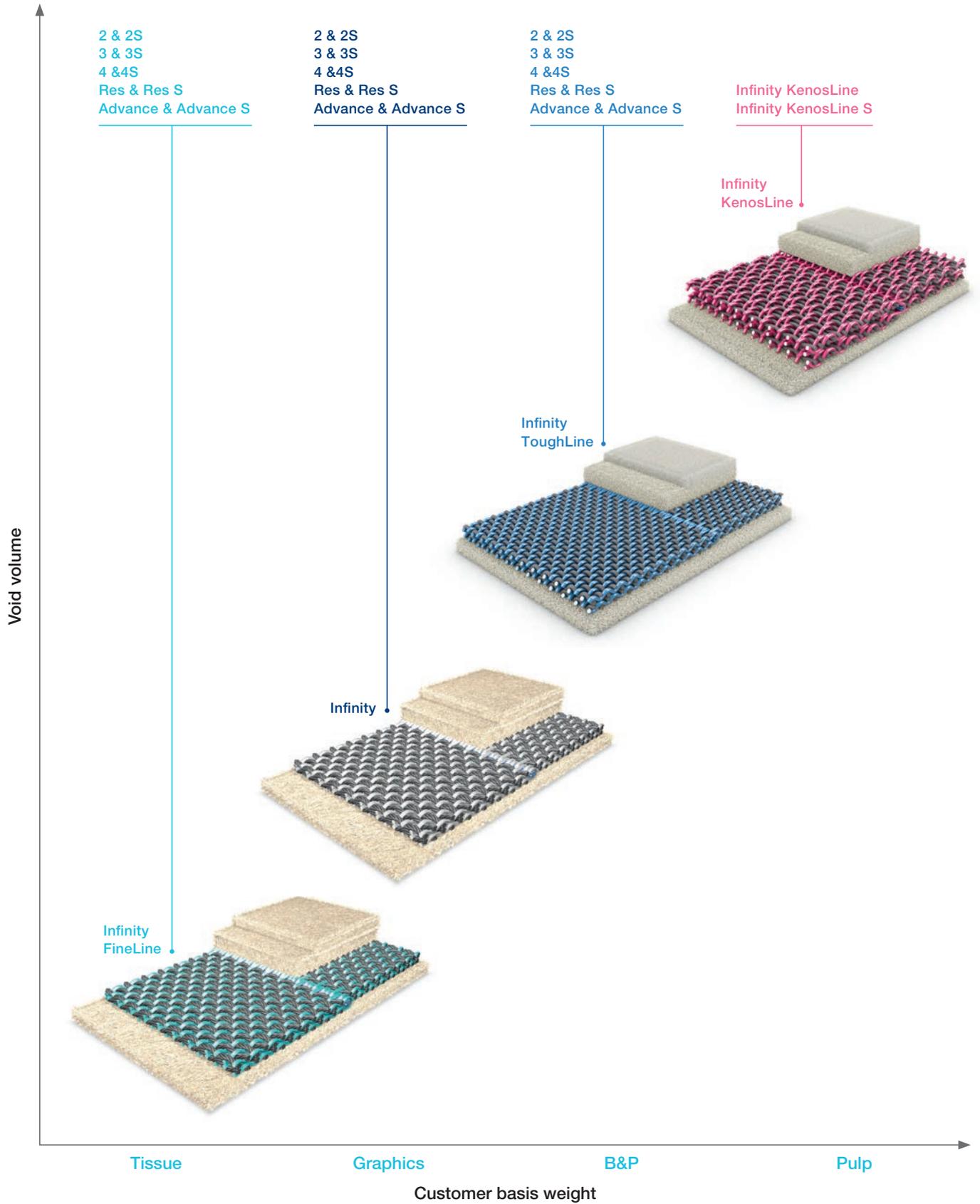
Quick start-up: steady state operation

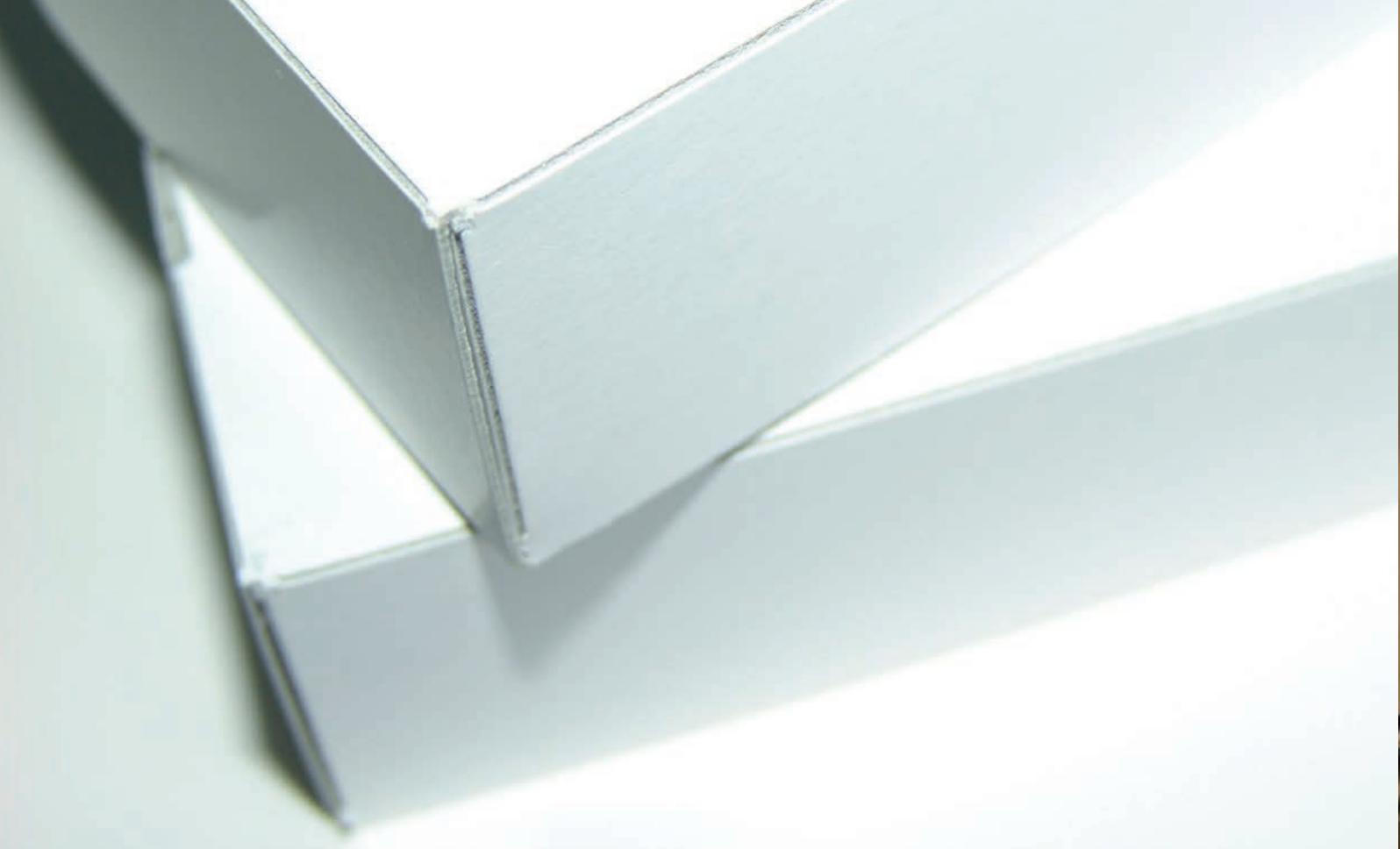
Desired machine speeds are reached faster due to the laminated structure of the fabric.

Fiber anchorage: cabled yarn

The fiber anchorage is highly improved thanks to the new material and technology. It can be used as seamed and endless and has the most efficient twist level in the base fabric with mono loops in the engineered seam area.

Infinity product range sorted by customer basis weight





Infinity

The most multifarious press felt

Infinity is a full line of endless and seam press fabrics for highest performance on paper machines.

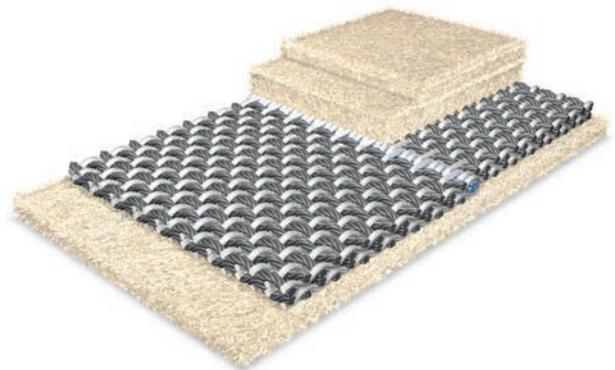
The high-quality base fabric of Infinity is woven in an especially uniform method. Additionally, the laminate structure retains its open volume during the entire running time due to a high level of compressibility and better rebound behavior in comparison with conventional press fabrics.

The characteristics increase the dewatering performance and reduce dirt deposits and fiber loss over lifetime.

Infinity is the most advanced seam concept on the market! The loop size in combination with the Voith-developed anchorage yarn and carefully sized seam closure pintle result in the lowest potential seam marks.

Infinity

The most multifarious press felt





Infinity ToughLine

State-of-the-art press felt for board and packaging

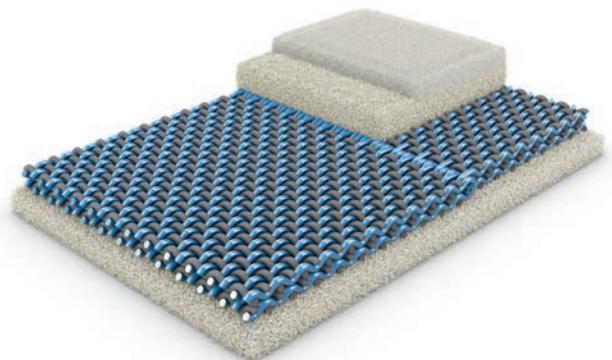
Designed especially for the most challenging applications, our Infinity ToughLine can withstand the most extreme conditions.

It offers the void volume the customer needs for the toughest paper machine environments. The press fabric can be supplied as an endless or a seamed design. Ours is the most advanced seam concept on the market, with extremely uniform loops that are more open, making installations easier and faster than ever before.

ToughLine is available for all Infinity fabrics and creates excellent compressibility resistance through its laminated structure. In conclusion, Infinity ToughLine delivers a reliable outcome throughout the fabric lifetime.

Infinity ToughLine

Withstand the most extreme conditions





Infinity FineLine

The finest seam on the market

Infinity FineLine has the finest loop size on the market and simultaneously offers superior seamability due to the engineered seam zone developed and patented by Voith.

It gives the possibility to use seamed products even for the most sensitive paper grades and leaves nearly no marks. Due to the reduced yarn diameter, the press felt becomes more energy efficient.

Infinity FineLine Superior seamability





Infinity KenosLine

The innovative high void volume press fabric

Machine dewatering is maximized and water savings are achieved by maintained void volume due to the innovative modular double-layer structure built into the Infinity family press fabric designs.

Infinity KenosLine incorporates a new multi-dimensional base component with each base containing large diameter robust yarns in combination with a double-layer weave, supporting strength and durability for an increased open press fabric structure.

Infinity KenosLine is also very dimensionally stable in low pH, high temperature conditions, exhibiting additional benefits such as excellent life, water savings and a steady production output on which the customer can rely.

Voith offers the four-layer Infinity KenosLine with a single robust seam and in an endless variation. The modular structure of the fabric allows it to be tailored precisely to the customer requirements.

Infinity KenosLine

Highest void volume possible



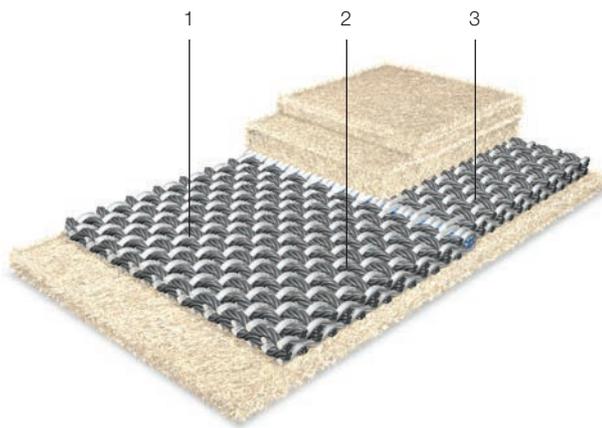
Infinity 2 & 2S

Dynamic press fabric for fast start-up

Quick installation, short break-in times and maintained drainage are the keys to reaching production goals. The Infinity 2 & 2S are the best press fabrics for all press sections, including straight through, cluster and shoe presses to reach production and quality goals at the same time.

Records are set in the press section!

Construction



- 1 Fast start-up The two-layer compressible, resilient laminated bases provide fast fabric saturation
- 2 Dryness Base uniformity maintains sheet characteristics, and more contact points improve drying
- 3 Easy seaming Seam loop spacing and shape allow quick installation and time savings in the range of 25%

Paper grades graphics: coated, uncoated board, packaging tissue, bathroom, towel

Applications all press positions

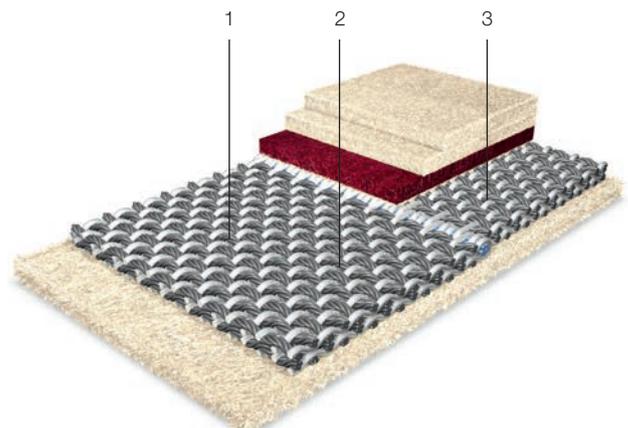
Infinity 3 & 3S

Great dewatering and sheet smoothness

The special talent of the Infinity 3 & 3S is to adjust to the water handling needs of each application while maintaining optimum sheet contact.

The adaptable Vector layer gives fast start-up and a clean run. As with all of the Infinity Series, it is easy to seam and a fast installation is guaranteed.

Construction



- 1 Performance The three-layer laminated modular structure for high, medium and low water volumes
- 2 Better paper Tailored Vector top layer for uniform nip pressure, improved moisture profiles and better paper quality
- 3 Easy seaming Seam loop spacing and shape allow quick installation and time savings in the range of 25%

Paper grades linerboard corrugating medium boxboard coated and uncoated freesheet

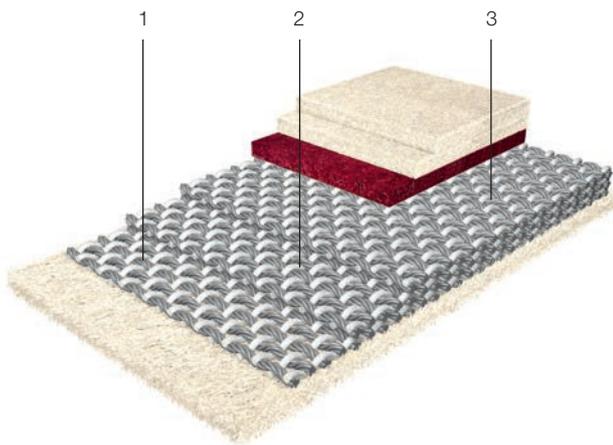
Applications all press positions

Infinity 4 & 4S

Built for challenges

The Infinity 4 & 4S can play a major role in your press section. This four-layer modular composition of the Infinity family is at home in the rough conditions of any paper mill press section to defend paper quality and paper machine efficiency. The Infinity 4 and 4S are very sturdy felts that are consistent over lifetime and focused on results giving highest water removal volume and targeted performance at any speed range.

Construction



- 1 Dewatering The laminated modular structure resists compaction for maintained drainage
- 2 Versatility Tailored bases can be finetuned for smoothness needs
- 3 Durability Laminated structure is extremely durable for high load positions

Paper grades graphics: coated, uncoated board, packaging pulp

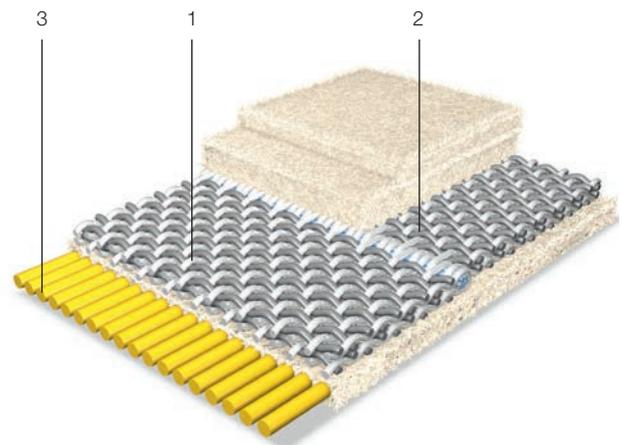
Applications shoe press, jumbo press, LNP press

Infinity Res & Res S

Extraordinary width stability

The ability of the Infinity Res & Res S runs in a variety of press sections, providing a wide operating window on water removal levels and press load options. The specially developed hightech Res layer delivers outstanding resiliency, providing the press section a smooth and efficient run. Key benefits are high compressibility, resilience and vibration resistance to improve dewatering and keep the fabric clean.

Construction



- 1 Dewatering Due to its modular design, the fabric reaches saturation in the mid nip, which allows for increased drying
- 2 Versatility The ability to maintain void volume eliminates the chance for crushing and allows for increased life up to 34%
- 3 Durability High-tech Res layer has outstanding resiliency, providing the press section a smooth and efficient run. Vibration reduction in the range of 50% is possible

Paper grades CFS, UCFS, LWC, MWC, SC containerboard

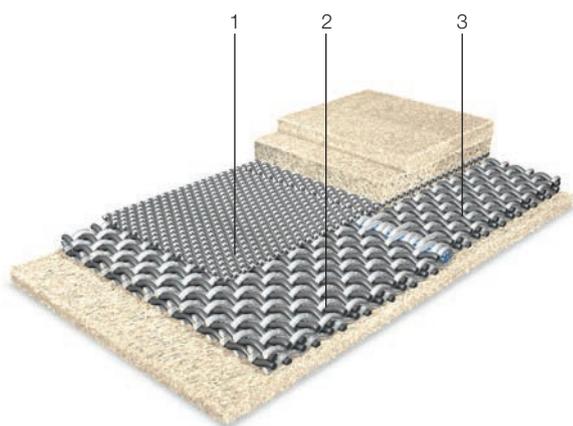
Applications all positions prone to vibrations LNP press

Infinity Advance & Advance S

Controlled dewatering

Infinity Advance manages dewatering and sheet quality in your process. Controlled dewatering in the press section can increase your dryness after press by more than 1% and save a lot of dryer energy.

Construction



- 1 Dewatering The fine top base combined with the rigid bottom base provides consistent uhle box dewatering
- 2 Performance High pressure uniformity gives higher water removal from the sheet
- 3 Easy seaming Seam loop spacing and shape allow quick installation

Paper grades CFS, UCFS
corrugating medium
foodboard, boxboard

Applications shoe press / LNP press / tandem press

Add-Ons

Our modular Efficiency Add-Ons for press fabrics address different requirements in paper production and increase the efficiency and/or performance of our felts.

+Up guarantees a smoother and especially faster startup performance. These positive aspects result in increased production and stable running conditions.

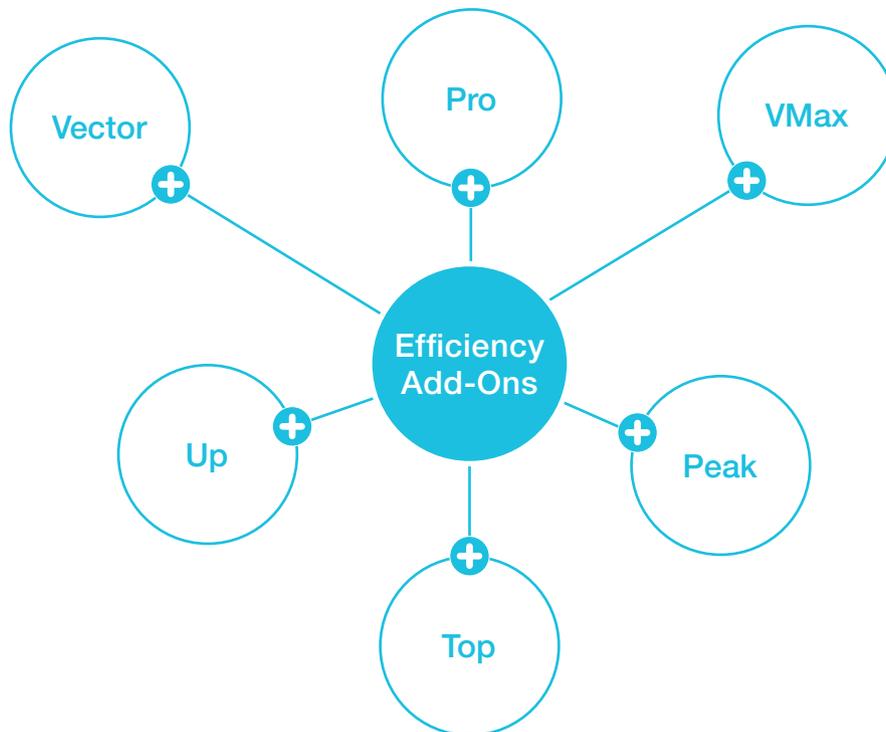
+Peak technology is a unique Voith developed application of elastomer material for press fabrics. With +Peak, the felt does not permanently deform. This guarantees more resilience and a maintained caliper and void for consistent overall efficiency. Additionally, +Peak will help to achieve great lifetimes.

+Pro has an excellent, smooth and non-marking premium surface with high wear resistance and stable running conditions. These improvements guarantee high-quality paper with best printability properties.

+Top was developed to supply an optimized seam package to ensure best paper quality and significantly less seam marks.

+VMax incorporates a new multi-dimensional base component with alternating dynamic filaments to support strength and stability for an increased open press fabric structure.

All Infinity designs are available with our efficiency add-ons



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