



The screen-to-screen system

Double your capability for coating, impregnating and printing

Stork Prints

The Stork screen-to-screen system is a unique, innovative and extremely efficient means of achieving double-sided coating, printing and impregnation of fabrics and other materials. By treating both sides of the substrate simultaneously in the same run, process time is significantly reduced, which obviously cuts costs and decreases the possibility of errors.

Tremendous flexibility

A major feature of the Stork screen-to-screen system is its tremendous flexibility. You can work with closed- or open-weave fabrics as well as other substrates like paper. Sophisticated finishes can be achieved using water-based or PVC-based pastes.

Stable- and meta-stable foam can also be applied.

It is possible to apply the same amount of paste or foam to both sides of the substrate, or different amounts to each. The entire width of the substrate can be treated, or the edges left uncoated if required.

The Stork screen-to-screen system can even be used for one-colour coating, or as a printing unit with an engraved screen.

Suitable for delicate materials

Another significant advantage is the friction-free application of paste. The rotary screens moves at the same speed as the substrate, so a minimal amount of pressure is required for coating or impregnation.

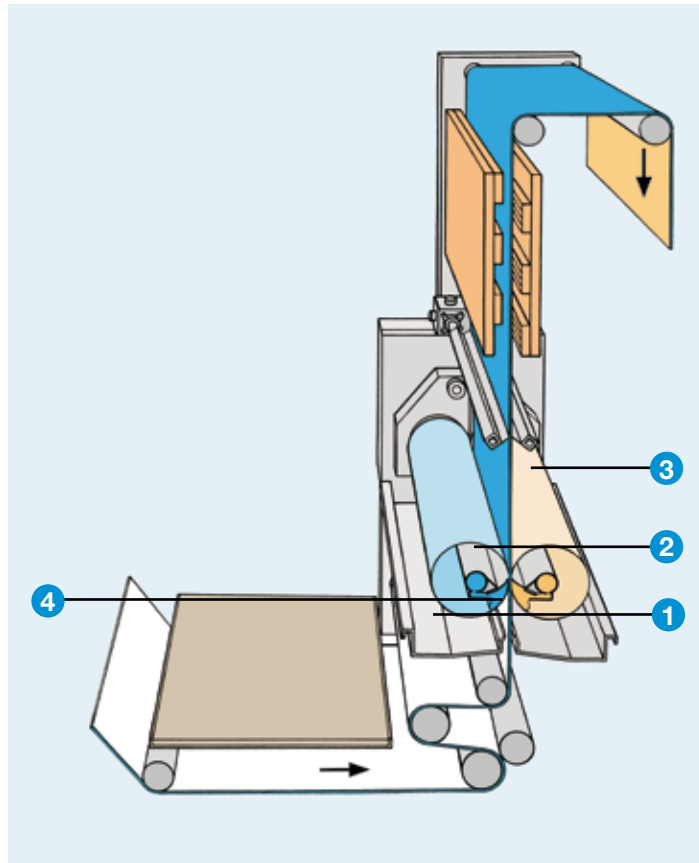
In this way, delicate materials such as woven glass fibre and wadding can be treated without problem.

Cost efficiency

Using rotary screen technology brings another significant benefit: lower costs. Rotary screens are considerably cheaper than the costly gravure rollers or knives used in other equipment. This means that even small production runs can be carried out cost effectively. In addition, the Stork screen-to-screen system is extremely compact, and requires a minimum of floor space. This makes it an even more attractive investment, as its return per square meter of production space is extremely high.

Greater convenience and increased machine uptime

The use of lightweight, easy-to-handle rotary screens means changeover times are extremely rapid, leading to increased machine uptime. The screens and squeegees can also be removed for cleaning, which is much more convenient and efficient than conventional in situ cleaning.



The principle of the screen-to-screen system

The main elements of the Stork screen-to-screen system are the seamless rotary screens (1). The substrate passes between the screens, and a squeegee (2) forces the paste (3) through the perforations in the screens and out onto the fabric (4).

A pump and level control system ensures a constant paste supply. The amount of paste applied to the fabric - and therefore the finish - can be varied by altering the squeegee pressure or using a different type of screen.

After the screen coating unit, the substrate passes through a double whisper blade, with both top and reverse sides, which smoothes the surface. The process can finish with an optional non-contact drying/gelling stage, which involves a vertical dryer or infrared heating panels.

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