

Press Release

Voith Paper Holding GmbH & Co. KG
Public & Media Relations
St. Poeltener Strasse 43
89522 Heidenheim, Germany
Tel. +49 7321 37-3858
Fax +49 7321 37-7008
www.voith.de

HydroSeal: Innovative sealing strip with integrated lubrication

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With HydroSeal Voith has launched a patented sealing strip system with integrated lubricating water feed that allows substantial savings to be made in lubricating water and drive power. For the first time, HydroSeal provides the option of dispensing with the conventional lubricating shower regardless of type of suction roll or manufacturer.

Until now, an upstream lubricating shower is used for lubricating up to five sealing strips. This results in an uneven lubricating water profile over the width of the strip and deficient lubrication of the strips at the back in the direction of rotation, resulting in faster wear and higher drive load. In addition, the overlapping nozzle fans of lubricating water impair the CD moisture profile. As a significant amount of water is wiped off at the first sealing strip the web is remoistened and paper quality suffers as a result. This is why Voith developed HydroSeal, a sealing strip system that has lubricant water distribution built into its design.

Thanks to HydroSeal the lubricating water is distributed continuously over the entire width of the sealing strip - allowing the sealing strip surface to continuously being covered with a homogeneous film of lubricating water. The efficient feed substantially reduces the amount of lubricating water required. Moreover, this new design prevents the remoistening of the paper web and also improves the CD moisture profile.

Trials carried out in the field on our customers' machines demonstrated that by using HydroSeal lubricating water consumption could be reduced by up to 87%. Specific energy consumption was cut by 9%. This means that even on just one suction roll, HydroSeal can achieve savings of 100,000 or more euros per year, offering a distinct economic benefit as well as an ecological advantage.

Further information is available at the Voith homepage:
www.voith.com/hydroseal

Voith Paper is a division of the Voith Group and the leading partner to and pioneer in the paper industry. Through constant innovations, Voith Paper is optimizing the paper manufacturing process, focusing on developing resource-saving products to reduce the use of energy, water, and fibers.

Voith sets standards in the markets energy, oil & gas, paper, raw materials and transportation & automotive. Founded in 1867, Voith employs almost 42,000 people, generates € 5.7 billion in sales, operates in about 50 countries around the world and is today one of the biggest family-owned companies in Europe.

Contact:
Julia Bachmeier
Head of Public & Media Relations
Tel. +49 7321 37-3858
julia.bachmeier@voith.com

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