

Press Release

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NipVision: A nip measurement system to make the invisible visible

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- **Real time system makes nip measurements possible while the paper machine is running**
- **Glass fiber embedded in the roll cover constantly transmits information from the nip**

In June 2012 Voith launched NipVision onto the market, an online and real-time measurement tool using the latest roll cover technology. It is the first system to measure nip pressure, profile and importantly the cover temperature while the paper machine is running.

The actual conditions in a pressed nip can now be analyzed. The NipVision glass fiber sensors are very small, non-aging, flexible and chemically resistant. They lie inside the cover, so that the roll application and dimensions remain unchanged. The sensors are so sensitive that they can detect the presence of paper in the nip.

The NipVision measurement is unique. It is the only system which can measure temperature within the cover while the paper machine is running. This is a real benefit to the customer, given that a large number of damages result from temperature-related issues. Until now the source of poor profiles and sheet quality, increased sheet breaks and sudden roll cover damages have often been linked to a given press nip but, without any proof. With the help of NipVision such problems can be detected and hence prevented.

The information from the sensors are transmitted to a computer which plots the profile across the width of the machine and over time. With specific software the conditions in the nip are shown simultaneously and

synchronously. The system is powered through induction, allowing NipVision to constantly transmit information, 24 hours a day, while the paper machine is running.

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 40,000 people, generates € 5.6 billion in sales, operates in about 50 countries around the world and is today one of the biggest family-owned companies in Europe.

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