

Press Release

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New screen plate designs from Voith increase pulping and screening efficiency

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The special structural features of Voith's two new screen plates, NDuraPlate D and NDuraPlate B, achieve a higher pulping and screening efficiency of up to 30%.

NDuraPlate D was specifically developed for machines utilizing flat screening plates for separation. With this screen plate, there is a lowered hole at the center of the overall pattern in addition to six conventional round holes. Due to the different height of the holes, the rotor, turning above the flat screen plate, creates micro-turbulences at the screen surface. This hydraulic action provides for a much improved way to keep the holes clean compared to standard screen plates and thus facilitates a throughput that is higher by up to 10%.

In place of the potential increase in machine throughput, the quality of the accepted fiber suspension can be improved by reducing the size of the hole. Current hole size offering with NDuraPlate D is between 1.8 and 4.0 mm. In addition, the flake content can be reduced by up to 20%. The clearly improved quality of the accepts unburdens the downstream process stages and reduces fiber loss.

With NDuraPlate B for pulpers, both the productivity as well as the quality of the pulp suspension is increased. The longer working edges of the new bean-shaped hole design bring about a gentle fiber pulping. They allow substantially higher pulping and energy efficiency than a conventional hole screen plate. The specific energy consumption drops by up to 15% with use of the new screen plate. In addition, better deflaking is possible by around 30%.

Further information is available on the Voith website at www.voith.com/paper. Voith Paper is also on [Twitter](#) and [YouTube](#).

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. Furthermore, Voith Paper offers a broad service portfolio for all sections of the paper manufacturing process.

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.

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