

Media Release

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DynaLayer – The first curtain coater with outstanding coating quality to work completely without additional enclosure

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- **Stable process and product quality**
- **Low running and maintenance costs**
- **Optimum runability for online and offline installations**

Heidenheim, Germany. The new easy-to-use coater from Voith achieves excellent color application without an additional enclosure. As a result, the DynaLayer from Voith improves the cost efficiency of paper production and offers an efficient alternative to conventional coaters.

The new curtain coater achieves a particularly uniform coverage of the web with just one layer. In addition, unlike previous curtain coaters, DynaLayer can be operated without an enclosure, which not only improves access for the operator but also results in much lower costs for operation and maintenance.

A nozzle insulation cover specially developed by Voith and featuring air purging on both sides prevents condensation on the nozzle lips which could impair the quality of the coating application. In addition, Voith has introduced the concept of air shielding, where a transparent air barrier shields the sensitive curtain against disruptive outside influences and therefore makes an additional enclosure unnecessary. Moreover, the operator can reach through the air shield at any time without causing turbulence or impairing coating quality.

At the same time, the latest generation of curtain coaters allows even more uniform CD and MD profiles to be achieved. This has a positive effect on the printability of the paper and produces a more homogeneous printed

image. The number of costly web breaks is also reduced when using DynaLayer thanks to the non-contacting application of the coating.

Cost savings at paper manufacturers

“Several manufacturers of specialty papers have already reported cost savings to us as a result of considerably reduced color consumption,” explains Christoph Henninger, Product Manager Coater Stations at Voith. The uniform color application by the new curtain coater is also useful when producing white board with a two-layer coating. To achieve a high surface opacity in these kinds of papers, most manufacturers currently use titanium dioxide. However, this is an expensive pigment, so any reduction improves the economic efficiency of the system. For example, a paper manufacturer that has been using the DynaLayer for some time now cut the costs for titanium dioxide by about half for the production of board with a white top layer by completely dispensing with the titanium dioxide in the bottom coating layer while ensuring the same quality of coverage. A similar effect was achieved by a manufacturer of specialty papers that is saving up to EUR 150,000 per year thanks to the uniform application of the coating of the expensive functional layers, because the total color application could be reduced as a result of better CD profiles.

DynaLayer product family to meet different customer requirements

According to the individual requirements and applications of paper producers, Voith offers the new curtain coater in various models. This means that DynaLayer can be supplied as the latest model without enclosure or in the previous variant with enclosure. The coating unit generally achieves a perfect application with just one layer. If required, for example in the case of two different coatings, DynaLayer is available as a two-layer concept that can also be easily retrofitted.

About the company

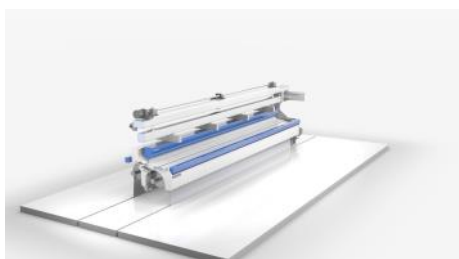
Voith Paper is a Group Division of Voith and the leading partner and pioneer in the paper industry. Through constant innovations Voith Paper is optimizing the paper manufacturing process and facilitating resource-conserving production. The company's Papermaking 4.0 concept ensures that equipment is optimally networked, while the effective and secure use of the generated data enables paper manufacturers to improve their competitiveness. With its Servolution concept, Voith Paper offers its customers tailored service solutions for all sections of the production process.

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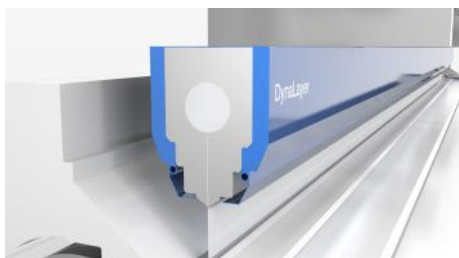
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DynaLayer is the first curtain coater to be operated completely without enclosure while ensuring optimum coating quality.



An insulation cover developed by Voith and air purging on both sides prevent condensation at the nozzle lips.



An invisible uniform air barrier protects the color curtain from external influences.



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The operator has constant access and can reach through the air stream at any time.

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