

Media Release

Voith Paper

Mailing address:

J.M. Voith SE & Co. KG
Global Communications Voith Paper
St. Poeltener Strasse 43
89522 Heidenheim, Germany
Tel. +49 7321 37-2077

www.voith.com

Record running time: TerraGloss coating on hard calender roll at Lenzing Papier in Austria in use for more than 24 months

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HEIDENHEIM/LENZING. Lenzing Papier has achieved record running times with Voith's TerraGloss coatings on the hard calender roll at its paper mill in Lenzing, Austria. The PM 1 calender rolls with the TerraGloss hard metal coating from Voith enjoy a much longer service life and achieve record-breaking running times of more than 24 months.

"As well as a considerable extension to the grinding intervals, the TerraGloss coatings on our two calender rolls have also achieved a sustained improvement in roll quality in respect of the profiles of our broad range of paper grades," says Franz Gstettenhofer, member of the management board of Lenzing Papier.

The company specializes mainly in the sustainable production of offset and copying paper based on recycled fibers as well as envelope and packaging papers. Before it opted to use Voith's TerraGloss coatings, its uncoated chilled iron rolls had to be disassembled and reground every two to four months, depending on the paper grades involved, which was a very time-consuming and cost-intensive process.

By contrast, the wear-resistant thermal TerraGloss coating only needs refinishing after its long period in service, saving both time and money. In addition, using TerraGloss means that the surface quality of the calender rolls can be kept stable for a very long time due to optimum blade conditions, which helps ensure safe and high-quality production. This means that especially in the case of coated paper grades, doctoring with bronze blades like Voith's SkyTerra B coated bronze alloy blade can be readily optimized with TerraGloss.

Smoothing and calendering, which involves extensive use of various fillers and additives, is a very challenging process, especially in the case of specialty paper grades. The calender rolls coated with TerraGloss optimize paper finishing thanks to improved profile accuracy, unique smoothness and higher gloss level of paper, paperboard or corrugated cardboard.

The innovative hard materials of the TerraGloss coating are based on carbide and nitride. "This gives the rolls high resistance to chemical and mechanical influences," says Hasso Jungklaus, Senior Product Manager Thermal Coating at Voith. "Moreover, TerraGloss has exceptionally good heat transfer properties, which helps save energy use at the calender." TerraGloss is applied to hard calender rolls and is suitable for all paper grades. For optimum calendering the SkyTerra B blade should be used. It has a non-stick coating that prevents fouling on the rolls. SkyTerra B can be used with a large number of applications and is manufactured with very fine tolerances.

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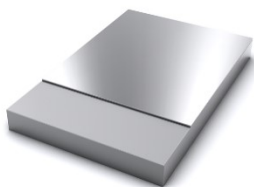
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About the Voith Group

The Voith Group is a global technology company. With its broad portfolio of systems, products, services and digital applications, Voith sets standards in the markets of energy, paper, raw materials and transport & automotive. Founded in 1867, the company today has more than 20,000 employees, sales of € 4.2 billion and locations in over 60 countries worldwide and is thus one of the larger family-owned companies in Europe.

The Group Division Voith Paper is part of the Voith Group. As the full-line supplier to the paper industry, it provides the largest range of technologies, services, and products on the market, and offers paper manufacturers integrated solutions from a single source. The company's continuous stream of innovations facilitates resource-conserving production and helps customers minimize their carbon footprint. With its comprehensive automation products and leading digitalization solutions from the Papermaking 4.0 portfolio, Voith offers its customers state-of-the-art digital technologies to improve plant availability and efficiency for all sections of the production process.



The calender rolls coated with TerraGloss optimize paper finishing thanks to improved profile accuracy, unique smoothness, and higher gloss level of paper, paperboard or corrugated cardboard.



SkyTerra B is a high-quality blade in a coated bronze alloy and prevents fouling on cylinder and thermal roll surfaces

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Contact

Anja Matuschka
Global Communication Manager Voith Paper
Tel. +49 7321 37 2077
Anja.Matuschka@voith.com

Twitter

<https://twitter.com/voithgroup>
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