

Success Story

Voith Paper

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Voith's TerraSpeed Supreme and SkyTop Plus provide stable performance and operational reliability in specialty paper production of Koehler Kehl's PM 1

HEIDENHEIM/KEHL, GERMANY. The German paper manufacturer Koehler Paper, headquartered in Oberkirch, produces specialty papers at five production sites using state-of-the-art technology. In particular, the production of SD and thermal papers at PM 1 at the Kehl site is demanding, as special fillers and auxiliary materials, such as PCC, AKD, and coated broke are used here. Due to the technological challenges, Koehler Kehl decided at the beginning of 2019 to switch from conventional rubber and ceramic roll covers from competitors to the newly developed Voith roll cover TerraSpeed Supreme in the center press roll position, which is a key performance point.

Together with the cleaning-active Voith SkyTop Plus blades, the roll cover has now been in continuous use for more than two and a half years and ensures stable performance in terms of sheet release and doctoring. In addition, the wear-resistant TerraSpeed Supreme shows stable roughness development and enables significantly longer roll operating times. Previously used roll covers from other manufacturers had to be removed and reworked after only a few months of operation due to performance and wear problems. The surface topography has also hardly changed since delivery due to optimum doctor conditions, thus contributing to very reliable and efficient paper production. As a result of the very good running results on PM 1 in Kehl, Koehler also opted for the TerraSpeed Supreme for the rebuild of PM 5 at the Oberkirch site.

"By switching to Voith's TerraSpeed Supreme in the center roll position, we have achieved very stable production conditions that could not be achieved at the press before," says Robert Lamm, production manager of PM 1 at Koehler Kehl. "Especially the uninterrupted use of more than two and a half years and the exceptional performance confirm that Voith's TerraSpeed Supreme and SkyTop Plus were the right decision."

About TerraSpeed Supreme

The functional layer of TerraSpeed Supreme provides very good stability of roughness values and excellent sheet release. With the improved layer structure, TerraSpeed Supreme reduces paper web breaks and can reduce free paper web draws. In addition, TerraSpeed Supreme enables significantly longer roll operating times.

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About SkyTop Plus

SkyTop Plus consists of a fiber composite containing particles graded by size and the proven combination of cleaning and support fibers. It creates a very good cleaned and finely conditioned roll surface, improves sheet release during web transfer, and optimally conforms to the roll surface. In addition, SkyTop Plus also withstands extreme mechanical loads.

Page 2 of 3



Optimum conditioning of the TerraSpeed Supreme with SkyTop Plus ensures for excellent sheet release and stable roughness values



Key point central press roll position

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Page 3 of 3