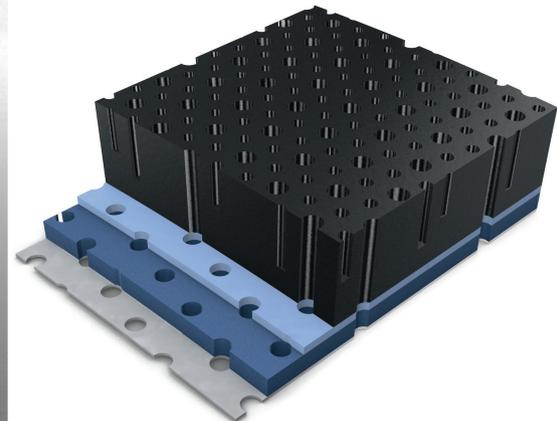
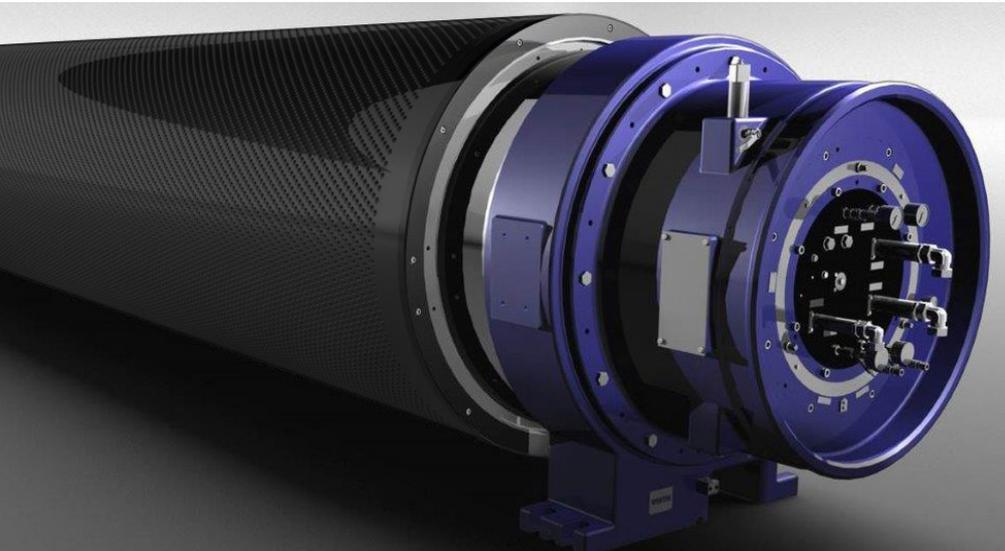


MegaFlow Roll Covers

Case study: MegaFlow rubber roll cover delivers stability, uniform profile and wear resistance to U.S. board mill



Summary

A board mill in the eastern United States was experiencing chemical degradation issues on its suction press roll cover, which was made of a low-grade polyurethane from another roll cover supplier. A combination of felt cleaning chemicals, chlorine, and the operating conditions on the machine led to cupped suction holes and unusual edge wear on the roll covers. The edge wear was so extreme that the machine had a build-up of polyurethane that disbonded from the surface of the roll cover. The roll cover lifespan was limited to eight months and the customer experienced an unacceptable level of sheet marking.

Solution

Voith recommended changing out the competitor's polyurethane cover for a **Voith MegaFlow rubber cover**.

Details

The MegaFlow is engineered for greater stability, improved wear resistance, and low heat generation to extend the life of the cover in demanding suction press roll applications. Additionally, MegaFlow offers an open area of up to 35 percent for excellent dewatering performance and energy reduction. The mill had already tried a rubber cover from another supplier before utilizing that supplier's polyurethane cover, then they decided to try Voith's MegaFlow.

Results

The MegaFlow cover started up well and ran without issue. It showed minimal signs of wear, uniform profile from edge to edge across the face of the roll, greatly reduced cupping of the suction holes, and no sheet marking.

MegaFlow rubber roll covers meet customer needs.



About MegaFlow

This premium rubber roll cover is for use on suction press rolls. The surface design can also include blind-drilled holes and grooves, if desired.

- Available with suction holes
- Polymer matrix comb creates more contact points
- Outstanding hardness stability and wear resistance
- Resilient surface qualities (stable hole volume)
- Excellent mechanical characteristics
- Low heat development for reduced aging and less wear
- Long runtimes
- Reduced maintenance
- Lower downtime risk
- Up to 35 percent open area for superior dewatering performance and energy-use reduction

**For further information,
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Voith service teams offer superior technical expertise.



Why partner with Voith?

Voith offers superior technical expertise, experienced personnel, hands-on service capabilities and ongoing presence in partner facilities. This delivers a quality of service that differentiates us from our competitors. With Voith, our customers can see improvements in mechanical roll service and cover performance.

Voith's MegaFlow suction press roll covers, which are infused with a unique polymer bonding matrix structure to deliver a bonding strength four times more powerful than older systems, allow for high capacity paper production. These covers offer high levels of wear resistance, heat resistance and bonding strength.

“MegaFlow is a high quality rubber roll cover that is produced at all Voith roll shops across North America. The MegaFlow cover is designed to provide our customers with benefits in demanding suction press positions. It provides the extended run times, consistent performance, and excellent dewatering characteristics that paper makers need.”

— Ian Meinke
Product Manager, Voith Paper FRS North America

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