

Nonwoven Roll Shaft Coatings

The demanding environments of today's wet section strip processing have presented issues for carbon based nonwoven roll cores.

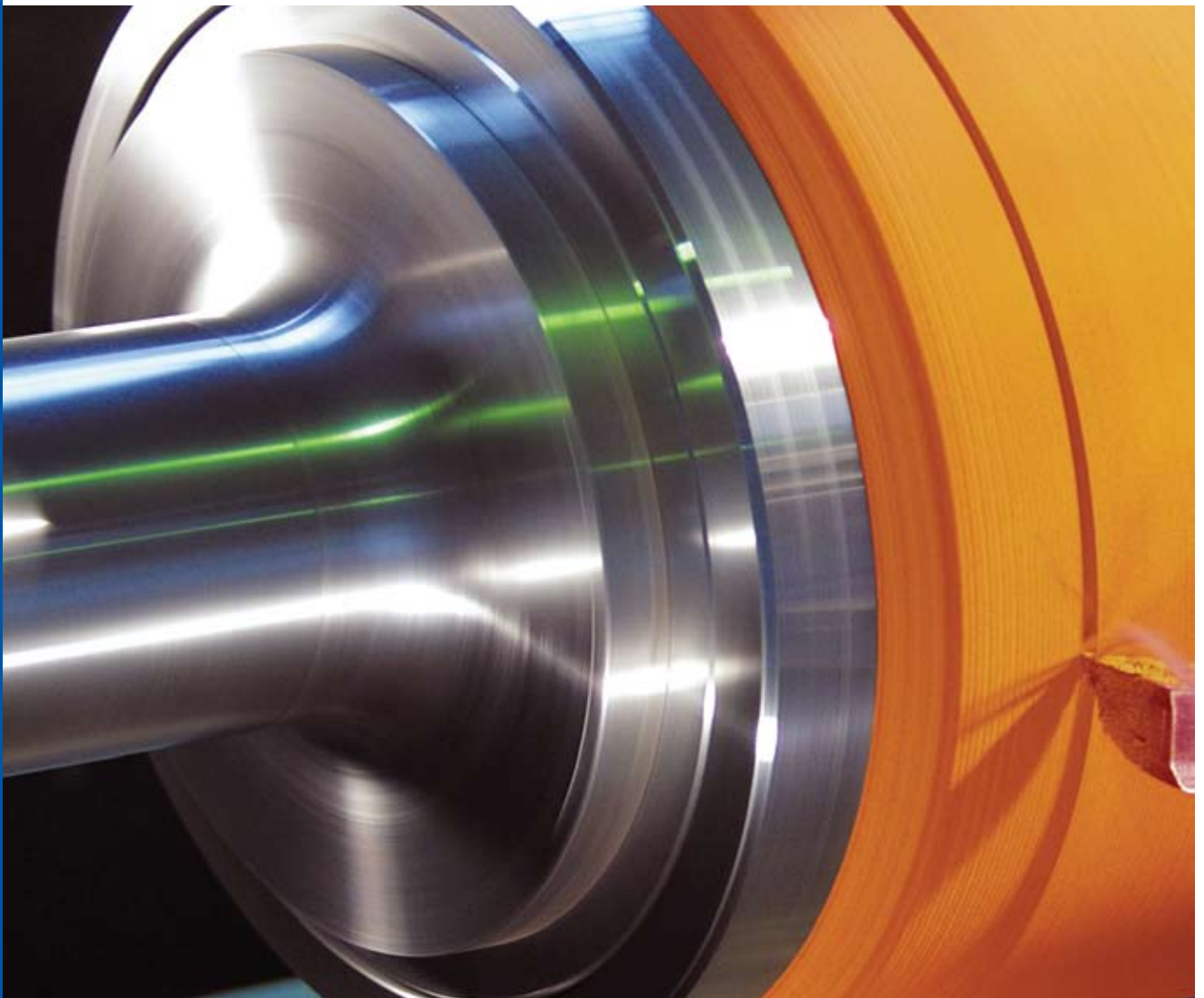
In many cases corrosion can destroy or dramatically reduce the roll core body diameter that is covered with the nonwoven fabric. This is particularly true in de-ionized rinse systems and slightly acidic solutions. Many roll users have resorted to the use of expensive stainless steels to resolve the corrosion issue.

FKM USA has newly developed Teflon, Thermal Spray, and Epoxy coating systems that are resistant or impervious to various types of corrosive environments. The coatings additionally act as an electrical or current barrier for electroplating conductor roll wringers. The

coatings are placed over cost effective carbon based metals eliminating the need for expensive alloy cores.

The process is simple and effective for applications in both high and low pH and aggressive rinse environments. The coatings can be applied to existing shafts that are already badly corroded or newly constructed shafts. The nonwoven lock collar systems can also be protected using the same coating technology.

FKM USA can review your application by simply submitting the roll core drawing and a detailed description of the operating solution environment.



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FKM USA, LLC.



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FKM Profile

FKM USA, founded in 2000 by Dr. Ulrich Freudenberg, owner/operator of FKM Walzentechnik in Germany, has strong ties to the Freudenberg Nonwovens division of the Freudenberg Group. Dr. Freudenberg pioneered the formulation of purposefully developed fabrics designed for cleaning, deoiling and tensioning of steel strip and blanks. These proprietary fabrics are exclusive to FKM's roll business. This level of product control and consistency has proven to be a substantial advantage for FKM customers and had led to the development of materials used in a variety of other, diverse industries.

Another key to success is FKM's popularity with many domestic and more recently new domestic automakers in North America. A high level of engineering service and support, as well as product quality and economy has

made FKM the choice of many of the world's automakers and their suppliers. Not limited only to automakers, you will find FKM products in a wide range of production environments.

FKM is active in the development and the manufacture of new coatings, finishing techniques and production process improvements for rolls used in a variety of diverse applications. This dedication to innovation is evident in the recent introduction of FKM's rotary casting process for the production of polyurethane roll products. Knowledge shared between FKM facilities in the USA, Germany and China aids to strengthen and unify product production and delivers FKM customers a high level of global service.

Personal service, attention to detail and a customer-centric business attitude make FKM a reliable business partner.

Contact us anytime to set up an evaluation of your current roll process.



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