

EvoDry Y and EvoDry M Steel and cast iron Yankee and MG cylinders



Perfectly coordinated processes and products are necessary to ensure production of high-quality tissue or specialty paper. The dryer section with Yankee cylinder or MG cylinder plays an important role in reaching the required dry content and paper quality. In the drying process, energy is one of the main cost drivers. Therefore it is necessary to equip your dryer section with cylinders that fulfill your technical requirements while using less energy.

Steel cylinders

For more than 50 years Voith has been a reliable partner for cast iron EvoDry Y Yankee and EvoDry M MG cylinders. In addition, since 2012 EvoDry Y and EvoDry M have been available in steel. Due to the thinner wall thickness of the steel cylinder a higher

heat capacity and therefore a better dryness can be reached. EvoDry Y and EvoDry M persuade with many benefits whether you choose the steel or cast iron version.

Benefits at one glance

- Higher dry content and temperature profile
- Insulated journals for bearings protection
- Thermally insulated heads for energy savings
- Higher dryness with less energy consumption
- Spoiler clips/bars for better thermal transfer
- Perfect runability

International manufacturing standards

Experience in manufacturing of large cylinders associated with a continuous development of casting and welding technologies allows Voith to produce EvoDry Y and EvoDry M, which meet the highest quality demands of the paper industry worldwide. All cylinders are manufactured with state-of-the-art methods in order to comply with the pressure vessels standards in force in the countries they will be installed. These standards include ASME, PED, GB, AD 2000 and JIS.

Furthermore, Voith manufactures cast shells with special alloys, and conducts a quality check by completely scanning the finished products by means of ultrasonic. For the steel plate cylinder, modern welding techniques are used.

High paper quality, energy efficiency and perfect availability

Voith cylinders ensure high dry content, excellent paper surface and perfect softness. During operation the vibration of the rotating cylinder can be minimized due to the high production quality. The thermally insulated heads enable a better temperature profile and ensure that energy lost through the heads can be saved. Besides, spoiler clips or bars also improve the heat transfer and increase the whole drying capacity. In addition, EvoDry Y and EvoDry M are equipped with insulated journals for bearings protection that prevent inner ring cracks.

Fields of application

Whether you decide on a steel or cast iron cylinder, Voith provides you with the perfect solution for the drying process of tissue and specialty paper. In the most technologically advanced tissue R&D center in the world, at São Paulo, Brazil, Voith offers a broad range of customer-specific trials and research facilities to test new technologies in advance of actual production.

Successful operation

Voith Yankee and MG cylinders have operated successfully for more than 50 years. During this time about 350 cylinders have been installed worldwide.

In July 2012 the tissue manufacturer Sepac started to produce paper with the new TM4. This was the first machine worldwide equipped with the new steel EvoDry Y cylinder.

Further equipment

For highest dry content and optimized energy consumption Voith offers dryer hoods and air systems for the perfect fit. The portfolio comprises standard hoods as well as the high-capacity hood Voith Ultra-Hood. The standard Yankee hoods are used for an operating temperature up to 510°C. Higher production output is achieved with Voith Ultra-Hood, which is applicable for an operating temperature up to 650°C.

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