



SEPARATION

HIGHLY ACID-RESISTANT AND DURABLE

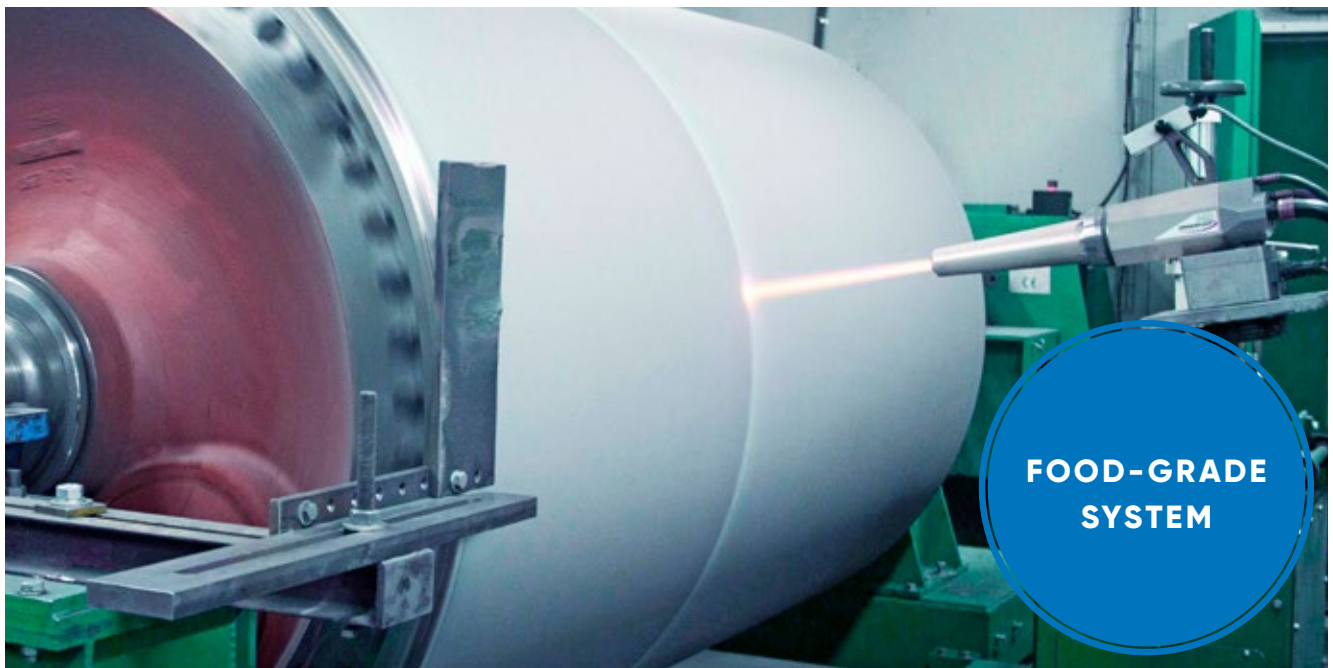
PROTECTIVE THERMAL SPRAY COATING
FOR DRUM DRYER

ANDRITZ

ENGINEERED SUCCESS

Optimum drum protection for longer lifetime

ANDRITZ Gouda drum dryers are designed for a long and continuous life cycle and manufactured to withstand high temperatures and corrosive materials. With its protective, food-grade thermal spray process, ANDRITZ meets the highest standards on the market.



Applying the hard layer by HVOF

PROVEN ALTERNATIVE TO CHROMIUM PLATING

Some food, chemical, or pharmaceutical products contain acids, which makes them unsuitable for normal cast iron drums. That is why chromium-plated drums have been used in the production processes for these applications for many years. Chromium is a good option for products with a low pH-value and for thin product films with strong adherence properties.

However, it is possible to go even further for better wear resistance with thermal spray coating as a perfect alternative to chromium plating, with the same properties in terms of surface finish and heat transfer. The combination of hardness and the dense structure of the layer makes the thermal spray coating less sensitive to impact damage and provides better protection against acidic products.

Our thermal spray coating technique for drum dryers provides a dense layer, harder than traditional chromium plating yet more ductile, and highly wear-resistant, which ensures a long life cycle. The thermal spray coating is available for all makes and models of contact drum dryers, regardless of whether it is for a new machine or as upgrade to an existing one.

IDEALLY SUITED TO ACIDIC FOOD, CHEMICAL, AND PHARMACEUTICAL APPLICATIONS

When strict production, quality, and safety parameters dictate how to operate your factory processing lines, your only option is state-of-the-art equipment. ANDRITZ thermal spray coating for drum dryers complies with European and US regulations. The technique is very suitable for parts coming into contact with food, chemical or pharmaceutical products.

Best-in-class thermal spraying technique

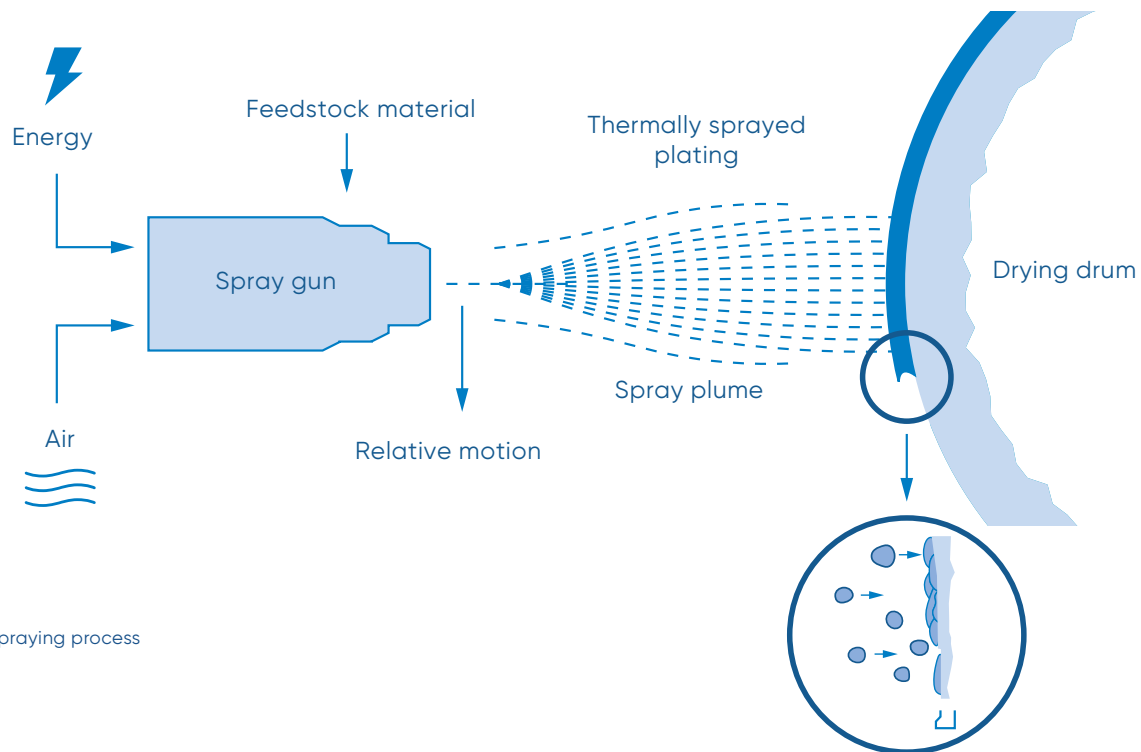
The ANDRITZ thermal spray process by means of high-velocity air fuel (or HVAF) heats and accelerates the carbide powder particles. It treats and protects the surface of a drum dryer in such a way that it maintains its quality for many years, preventing abrasion, erosion and corrosion.

IT'S ALL ABOUT KINETIC ENERGY

In this high-velocity, thermal spraying process, kinetic energy is a key parameter. The high-impact energy results in intense bonding with the basic material and provides a dense coating at relatively low temperatures. A gun sprays particles onto the drum at supersonic speed (>1000 m/s). This technique creates an ultra-hard protective layer that is highly resistant to erosion, corrosion, and abrasion, and – more specifically – to acidity.

YOUR BENEFITS

- Food grade-compliant contact material
- Anti-abrasion coating with high density for excellent durability compared to traditional chromium plating. Your drum dryer will last for many years
- Increased hardness and optimum corrosion resistance for less wear, meaning fewer repairs and thus, less downtime and reduced maintenance costs
- Strategic long-term investment with a guaranteed return, for both new and existing drum dryers



Thermal spraying process



WHAT'S YOUR SEPARATION CHALLENGE?

ANDRITZ Separation is the world's leading separation specialist with the broadest technology portfolio and more than 2,000 specialists in 40 countries. For more than 150 years, we have been a driving force in the evolution of separation solutions and services for industries ranging from environment to food, chemicals, and mining & minerals. As the OEM for many of the world's leading brands, we have the solutions and services to transform your business to meet tomorrow's changing demands – wherever you are and whatever your separation challenge. **Ask your separation specialist!**

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