



# MOLD YOUR IDEAS INTO SUSTAINABLE GROWTH

Dry Molded Fiber technology

**ANDRITZ**



# Dry Molded Fiber solutions for a wide range of plastic replacement

Together with the technology expert PulPac, ANDRITZ delivers innovative Dry Molded Fiber technology that transforms pulp into solid packaging and single-use products without the need for water. This offers a range of sustainability benefits, including energy efficiency, a reduced carbon footprint, and minimal water usage compared to traditional wet molding and plastic alternatives.

## DRY MOLDING APPLICATIONS

Dry Molded Fiber is revolutionizing packaging by offering a versatile and eco-friendly alternative to single-use plastics. Its ability to create recyclable and customizable products makes it ideal for a wide range of applications across different industries.

Dry Molded Fibers are widely used in food and beverage packaging, including coffee cup lids, trays, bowls, and cutlery. They also replace plastic and foam in takeaway containers, allowing food to be transported safely with minimal impact on the environment. Flexible, strong, and sustainable, Dry Molded Fibers are driving eco-conscious product design across all sectors.

## ENVIRONMENTAL IMPACT

Dry Molded Fiber represents an innovative approach to manufacturing fiber-based products. This technique drastically reduces water and energy consumption compared to conventional fiber-forming methods. By utilizing a dry process, production speeds are up to ten times faster with up to 80% lower CO<sup>2</sup> emissions.

These efficiencies make fiber-based alternatives more economically viable compared to plastic packaging, driving their adoption in the market.

## TEST WITH THE EXPERTS

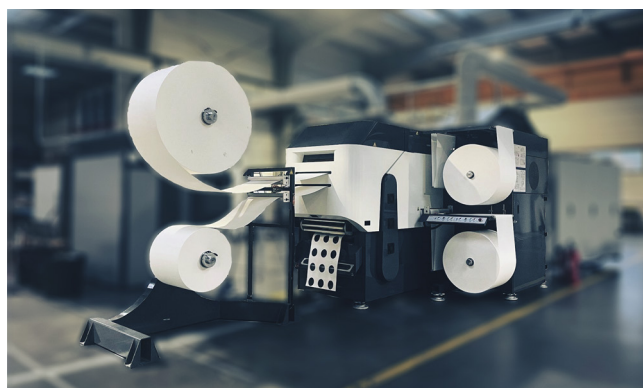
At our test facility in Montbonnot, France, we provide the equipment for you to conduct trials and test your process and product parameters, or even create completely new products, thus helping you to maximize your investment.

## BENEFITS

- 95% less water consumption compared to wet molding
- Reduced carbon footprint
- Efficient energy utilization
- ANDRITZ as a single source for complete lines
- Scalable lines for pilot and industrial solutions



Dry Molded Fiber cutlery by ©PulPac



Dry Molded Fiber pilot line at ANDRITZ Perfojet

# Dry Molded Fiber lines

## AIRLAID FORMING

The ANDRITZ neXline DMF eXcelle pro line with an airlaid forming unit includes proven and unique drum forming technology. This state of the art process is based on rotating, perforated drums that are fed with a fiber mixture. The rotation of the drums in combination with the internal rotating needle rolls creates a fluidized stream of fibers inside the drums. The fiber or fiber mixture is extracted from the drums by a vacuum underneath the forming drums and placed on a wire to produce a uniform web.

## MILL TO WEB FORMING

ANDRITZ also offers the alternative neXline DMF aXcess and eXcelle lines with a mill to web unit instead of an airlaid forming unit. This forming unit is a cost-optimized, all-in-one solution. The space-efficient neXline DMF aXcess approach is designed for smaller production volumes. The eXcelle alternative is built for higher production volumes, which is why it requires more space. The aXcess line has lower initial investment costs, while eXcelle offers higher flexibility with its modular technology.

### AIRLAID UNIT ANDRITZ neXline DMF eXcelle pro

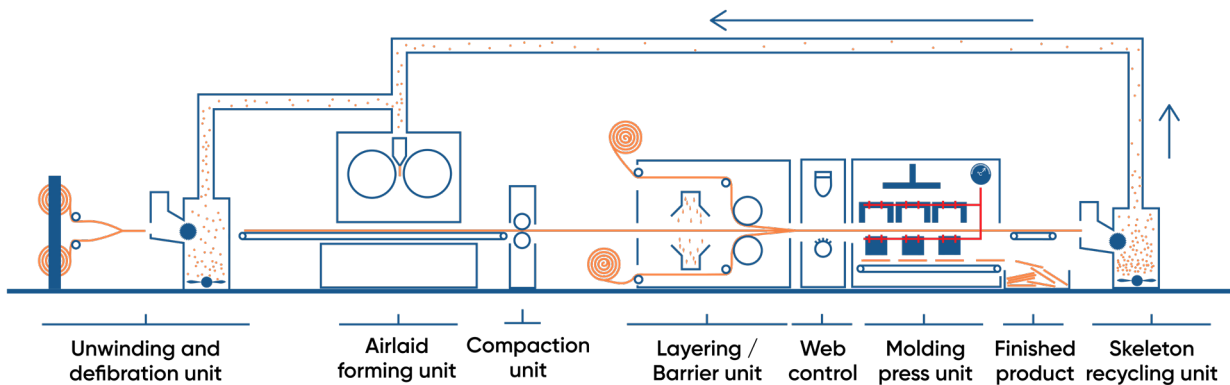
- 850 tons (lids) per year
- 900 mm + pulp rolls
- 40 cold lids at a time

### MILL TO WEB UNIT ANDRITZ neXline DMF eXcelle

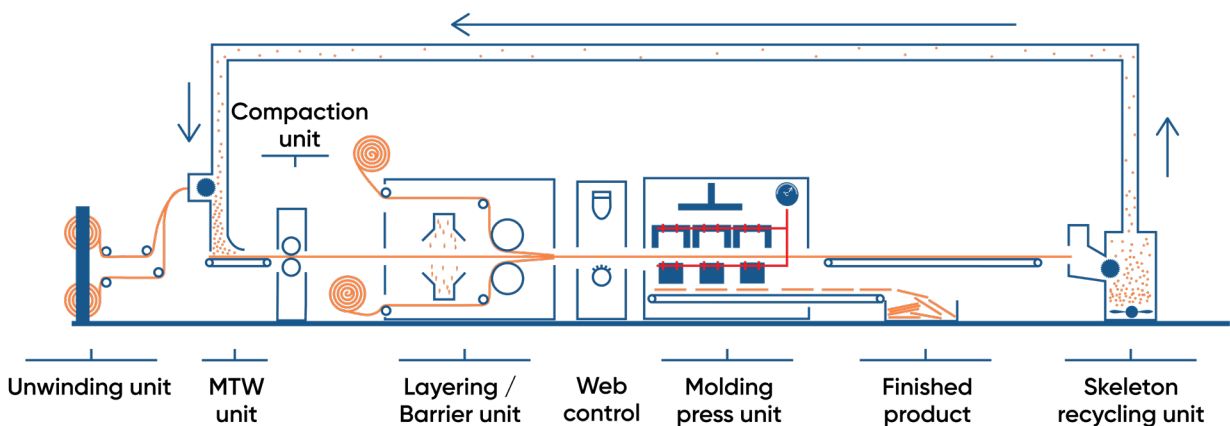
- 510 tons (lids) per year
- 600 mm + pulp rolls
- 24 cold lids at a time

### MILL TO WEB UNIT ANDRITZ neXline DMF aXcess

- 190 tons (lids) per year
- 490 mm + pulp rolls
- 9 cold lids at a time



ANDRITZ neXline DMF eXcelle pro line



ANDRITZ neXline DMF eXcelle line



## GET THE MOST OUT OF YOUR INVESTMENT

At ANDRITZ Nonwoven and Textile, we know that your business depends on satisfied customers and efficient processes. That's why we support you in every aspect of your nonwoven and textile production. Take advantage of technology that will let you produce consistent quality for decades to come. Benefit from the highly efficient use of energy and raw materials that our production provides. You can rely on our responsive service teams to protect your investment and optimize your processes. Experience how innovative approaches and digital services give you more control than ever before. With ANDRITZ, the leading supplier for the nonwoven and textile market, you get the most out of your investment.

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