



PANELBOARD

# ANNUAL PLANTS FOR MDF PRODUCTION

KNOW-HOW AND EXPERIENCE TO MEET  
SPECIAL RAW MATERIAL PROPERTIES

## **SPECIAL RAW MATERIALS NEED SPECIAL TREATMENT**

Annual plants such as bagasse, bamboo and straw are an excellent alternative furnish for the production of high-quality panelboard products that fulfill not just market but also sustainability aspects. ANDRITZ has extensive experience and know-how

in handling annual plants and coping with their special biological properties. High levels of impurities (like silica and other solids) can cause excessive wear on process equipment and have a negative effect on final product quality. Bulk weights that differ significantly from wood chips as well as the special material

flow behaviour make it essential to install a tailor-made process, especially in the first part of the production line. ANDRITZ provides complete capabilities ranging from engineering to equipment supply to erection and start-up of the system.

**ENGINEERED SUCCESS**

# Extensive experience and know-how in processing annual plants

## DEPITHING AND PRE-TREATMENT

The first key process step is the depithing system in order to remove pith entirely and avoid any later negative impact on the final MDF product. The ANDRITZ PithBull depither ensures efficient separation of the raw material into a bagasse and a pith fraction. The latter is collected for further thermal use. Bagasse residuals pass through wet storage as well as cleaning and are dewatered to maximum dry content before they enter the centerpiece of the fiber preparation line – the pressurized refining system.

## PRESSURIZED REFINING

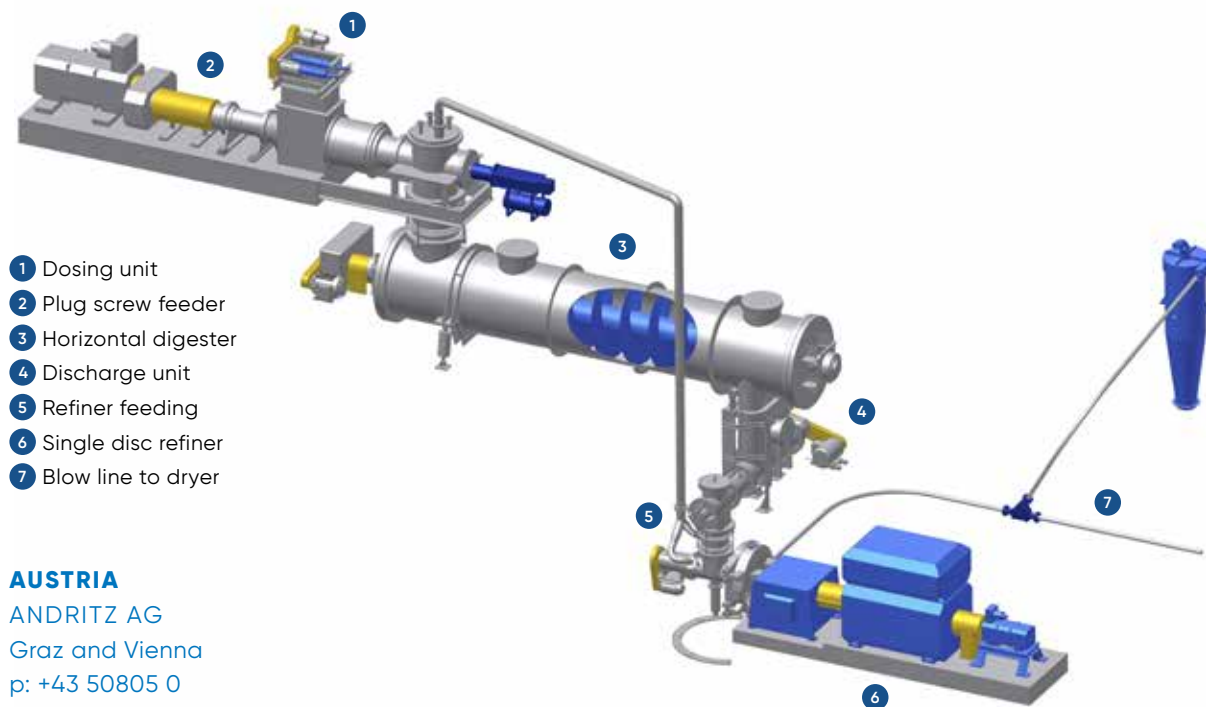
A special dosing unit enables stable feeding to the ANDRITZ plug screw feeder, which transports the raw material to the pressurized horizontal digester by building a pressure seal. The horizontal design is suitable for the special flow behaviour of annual plant residuals.

The ANDRITZ series of flat disc refiners – the widely valued ICP or S2000 refiners – finally produce high-quality fiber with optimized energy input.

## YOUR BENEFITS

- Everything from a single source: engineering, equipment, erection, start-up
- Extensive process know-how
- Supply of spare/wear parts, including refiner plates manufactured by ANDRITZ
- Various reference systems worldwide for the MDF and Pulp & Paper industry

Typical set-up of the ANDRITZ pressurized refining system for annual plants



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