



Bast
fibers

FOR THE CHANGE

WE OPEN THE DOOR TO A SUSTAINABLE
NONWOVEN AND TEXTILE INDUSTRY
WITH BAST FIBERS PROCESSES

FLEXIBILITY

ANDRITZ provides customized solutions for all type of bast straw such as retted and unretted hemp, textile and oleaginous flax, jute, and many more. These lines are designed to coordinate with farmers' harvesting equipment and they can process many types of bast straw in rectangular or round bales depending on line configurations.

EFFICIENCY

We offer solutions that optimize the yield and quality of output materials (fiber and shives) as compared to conventional decortication lines on the market. Our solutions remove the hard foreign bodies, thus extending the service life of the equipment, and reducing the need for consumables and the risk of fire.

SAVING

Our customers benefit from economical equipment that requires only a few operators. When used in combination with dedicated harvesting equipment, our solutions for processing bast straw provide huge cost savings with regard to bale transportation and storage.

ANDRITZ

Benefit from a full suite for bast fiber processing

DRY CLEANING, DECORTICATION, AND REFINING PROCESSES

Our teXline bast fiber lines provide yield performance including:

- 50% of cleaned shives*
 - 25% of cleaned refined fibers*
 - 15 to 20% of dust*
 - About 5% of very short fibers*
- *assuming that you are processing French hemp*

TURNKEY SOLUTIONS

Benefit from customized solutions that suit your needs:

- Central air filtration and piping
- Bagging and packing of shives
- Fiber baling
- Dust bracketing
- Metris digital solution to optimize processes

FLEXIBLE SOLUTIONS

- Upgradeable line available with a capacity of 1 ton/hour
 - Once upgraded, the line can reach a capacity of 2.5 tons/hour
 - Available lines process 2.5, 5, or 10 tons of straw per hour
 - Lines can process rectangular bales of cut straw (max. 50 cm long) or round bales of uncut straw, or both
 - Required humidity of bast straw from 12 to 16%*
- *according to bast straw type*

FRANCE

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HIGH-QUALITY FIBER FOR VARIOUS APPLICATIONS

Benefit from high-quality fiber:

- Refined fiber with less than 1 to 5% shive according to bast straw type
- High-quality shive with less than 2% dust & fiber content for building applications** (brick manufacturing, coating) and for animal bedding (horse, chicken, rabbit) and for mulching.

***according to the French „Chanvribat“ label requirement for hemp.*

COTTONIZING PROCESS

Based on our 50 years of experience in flax cottonizing, we are able to offer cottonizing processes for all kinds of bast fibers with capacities from 0.1t/h to 1t/h.

Cottonizing processes can be used for various applications such as banknotes, in the spinning and nonwovens industry, and especially for hygiene (cotton pads, medical, wipes, etc).



YOUR BENEFITS

- Process expert support
- Flexible and gentle process to produce high-yield, high-quality fiber and shives
- Upgradeable and customized lines
- Small equipment footprint
- Dedicated solutions for manufacturing nonwovens and other end products from fiber and/or shive

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