The Acrowood Continuous Rotary Debarker is fine tuned for your tree species and climate, in order to minimize white wood loss when removing the bark. The whole log debarker system is customized for capacity and bark levels for your mill; the rotor diameter, the number of rotors, the rotor profile and rotor disc spacing are all considered when crafting your machine.

CONTINUOUS ROTARY DEBARKER FEATURES

- Same log flow characteristics as a drum debarker
- Stringy bark, crooked, small diameter, or contaminated wood easily processed
- Low loss of usable fiber
- Highly effective debarking
- Low energy requirements and relatively low noise levels
- Open bottom design passes bark and sand readily to discharge conveyor
- Effective debarking of frozen wood without requiring de-icing
- Much quieter than drum debarker
- Significantly improved up-time
- Remarkably improved debarking in all operating conditions

APPLICATIONS

- Chip Plants
- OSB Plants
- Pellet Plants
- Pulp Mills
- Sawmills
- Shavings Mills
ACROWOOD ROTARY DEBARKERS

SITE SPECIFIC DESIGN

Each debarker is sized and designed for the specific capacity and bark level requirements of the individual mill. The appropriate rotor diameter, the number of rotors, the rotor profile, and rotor disc spacing are all considered when sizing and designing a debarker, as are log species, diameter, and operating conditions.

EXPERIENCE LEADING THE INDUSTRY

Acrowood and our predecessors, Sumner Iron Works and Black Clawson, have supplied debarkers for decades. A variety of mechanical debarker types have been supplied, including the industry leading (at the time) Bellingham Hydraulic debarker.
The live-bottom rotor design has no plates between rotors to restrict the removal and passage of bark and sand. This results in maximum capacity for the footprint required. Simple chuting and conveyor provide bark removal beneath the debarker.

- Linear stem management
- Easily retrofitted to existing wet or dry drum process flow
- Debarks shorts and tree length stems in the same flow
- Shorter footprint than drum debarkers

Simple, robust drives use heavy duty roller chain and sprockets to drive individual rotors.

Rotary debarkers use a stationary bin and a variety of shaft-based rotating tooling. This method provides controlled agitation and abrasion of the logs or fibrous materials inside the bin. The tooling can be aggressive or passive, depending on the application.

Debarking occurs both due to the action of the tooling directly on the logs affecting the bark-to-wood bond and by the log-on-log abrasion as they rotate and move inside the bin.

The rotary debarker process is dry, with no effluent treatment or water source required. Occasionally a minimal water spray to control dust is used. The process does not require de-icing or thawing of frozen logs to effectively debark during winter months, resulting in savings in capital and related infrastructure. As well, a facility employing rotary debarking would see savings in overall maintenance costs compared to a drum debarker and deicing deck combination.
DEBARKER CONFIGURATION OPTIONS

DEBARKING
- Random sized logs
- Continuous & Batch style
- Low whitewood loss
- No de-icing or washing required

CHIPPING & RESIZING
- For chips, logs, residuals & veneer
- Slant & Vertical Disc styles
- Chippers, Crackers, Rechippers & Slicers

DISTRIBUTING
- Air Density Separator Systems
- Screw, Star Feeders, Conveyors

SCREENING
- For bark, chips, flakes, strands, particles, pellets, etc.
- DiamondRoll Thickness & Fines Screens
- Welded-Disc Thickness Screens
- Suspended Rotary Screens
- Trillium™ OSB Strand Screens
- Heavy-Duty Disc Scalpers

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