



Debarker PD

Effective log debarking for the MDF-/HDF and OSB industries

Infeed Material

Wood Logs

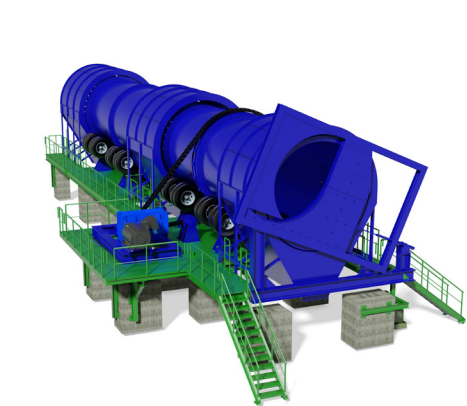


Final Product

Debarked Wood Logs



Maximum utilization of short and long logs. Drum debarker type PDD.



Decisive Advantages

- Modular design concept
- Delivery in half shells possible to save freight charges
- Reliable and sturdy drive concept
- Easy and safe bark discharge by bark slots in the drum
- Prefabrication reduces erection time - low labor and time requirement; fast and easy to install
- Easily adjustable to different wood species, conditions and throughput by frequency controlled motors and moveable discharge gate
- Easy startup after shutdowns or cases of power failure - no removing of the logs to restart

Area of Application

The Pallmann drum debarker is used for logs of any length and diameter at high throughput capacities.

Design and Method of Operation

According to local conditions, the infeed can be either gravity fed through a chute or horizontally in conveying direction from the rear. The drum is a steel-bodied construction in which the entrainers and bark removal slots are arranged as a standard feature. The retention time of the wood in the drum determines the degree of debarking and can be regulated by the exit door opening. Optionally, the drum can be delivered without the bark removal slots whereby in doing so the bark must be separated after the debarking drum.

Behind the discharge gate the logs are transported by a chain conveyor to the downstream cleaning roller. The robust modular construction is designed as individual assemblies or half shells that are then completed onsite or individual large-scale assemblies can be fabricated onsite.

The Pallmann drum debarker comes in two different basic drive designs. Both designs have electrical motor drives. One has a power transmission by a chain around the drum body, whereby the transmission of the other is done by a cardan shaft. Truck tires are supporting the drum in both designs.

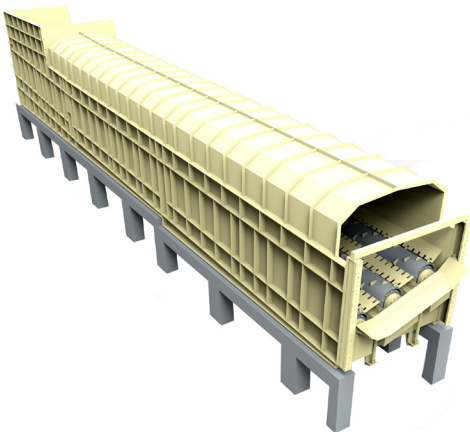


| PDD | | 3-18 | 4-21 | 5-24 |
|---------------|-------------|-------------|-------------|--------------|
| Drum diameter | mm | 3000 | 4000 | 5000 |
| Drum length | mm | 18.000 | 21.000 | 24.000 |
| Capacity * | t b. d. / h | 20,0 - 40,0 | 50,0 - 70,0 | 80,0 - 100,0 |

* Depending on the wood species, conditions and machine settings



Rotor debarker PDR reliably and cleanly debarked logs even if fibrous or frozen.



Decisive Advantages

- Modular design
- Each rotor is driven by its own hydraulic drive → rotation direction and rotating speed can be separately controlled for each rotor
- Low energy demand
- 2 or 3 main rotors with exchangeable debarking tools
- Easy changing of the tools
- Different type of debarking tools available
- Hydraulically controlled outlet gate
- Debarking degree influenced by rotor revolution speed, numbers and type of tools and adjustment of the end gate

Area of Application

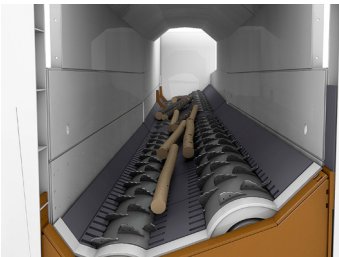
Pallmann debarkers allow for proper log debarking for the MDF-/HDF- and OSB industries as well as for all other high demanding applications and processes that require properly debarked round wood as a raw material.

Design and Method of Operation

Pallmann combines rotary action and friction by log-to-log contact for efficient bark removal. The results are properly debarked logs even from difficult and widely varying wood species in any operating condition. High throughput rate is guaranteed even for small diameter logs. The Pallmann Rotor Debarker is designed as a modular system to be adapted to the requirements of the customer. It consists of a stationary trough shaped housing and 2 or 3 rotors in parallel arrangement. Each rotor group is equipped with a separate drive.

Because of the compact design, space and foundation requirements of the debarker are minimal. The single assembled components are delivered to the site thus reducing labor costs to a minimum. Round wood can be fed either parallel to the rotors, laterally or in conveying direction from the rear.

The logs are grasped by the debarking tools (cams) mounted on the rotors and set into rotation as a whole bundle of logs whereby the individual logs are spinning on their own axis. This concept allows for smooth, simultaneous debarking of small and large diameter logs with little wood breakage or loss. The rotors can be hydraulically inclined to affect the debarking degree. The bark is discharged between the intermeshing tools of the rotor. It is pressed through the slots due to the rotor rotation with the debarking elements and is size reduced when passing through the slots.



| PDR | | 01/26 | 02/52 | 03/78 |
|------------|-------------|-------------|-------------|-------------|
| Sections | pieces | 1 | 2 | 3 |
| Length | mm | 10.187 | 19.440 | 23.535 |
| Capacity * | t b. d. / h | 15,0 - 20,0 | 20,0 - 35,0 | 35,0 - 55,0 |

* Depending on the wood species, conditions and machine settings

System solutions for:

- Flake production
- Fiber production
- Recycling of waste wood
- Annual plants preparation
- Thermal usage

Engineering and Service:

- Design and Manufacturing
- Research and development
- Control Systems
- Process monitoring
- Spare and wear parts for size reduction machines in PALLMANN quality
- Installation, commissioning, start - up
- Maintenance and repair service
- Operator training
- Technological training
- Retrofit and modernisation
- Warehouse stocking programs and logistic concepts



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PALLMANN

PALLMANN is the leading manufacturer of size reduction machinery for the wood products industry. PALLMANN designs, manufactures and supplies tailor-made, individual or complete solutions for the processing of raw material for MDF, OSB and particleboard plants. At its headquarters in Zweibrücken, PALLMANN company operates the world's largest research and development center for size reduction technology as well as a training and service center. Numerous machines are available for the preparation of various raw materials including subsequent laboratory analysis on individual scale. Our global presence is ensured by our sales network for machinery as well as spare parts and after-sales service.

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