Debarking lines for low quality wood are mainly designed for debarking and chipping pulp wood, extremely curved logs or logs, which cannot be used for mechanical woodworking for any other reasons. Such logs are to be chipped for further processing.

Singulated log feeding is not required here. The line is specially designed for debarking of heterogeneous batches, its capacity being 30-70 m³ of logs per hour, depending on the debarker and the chipper capacity and desired debarking quality.

**TECHNOLOGY**

The structure of the line main machine comprises three rotating rotors with debarking teeth and a bark removal conveyor under the debarker.

Logs of different diameters are fed to the debarker from above – from log deck and elevator normally used at sawmills. Theoretically a manipulator or a wheel loader can also be used for log batches loading, however, in this case it can be difficult to reach continuous high capacity production level.

The machine rotors constantly turning in one direction rotate the logs and push them up and down. Due to logs rub against each other and their contact with abraders (rotor teeth) logs debarking is performed. Thus, bark removal is based on a combination of mechanical and log to log contact. The removed bark falls to a bark conveyor placed under the debarker through special slots.

Debarking quality is regulated by the amount of logs fed to the debarker and debarking time. For that hydraulically adjustable shield is used. Over the shield logs are dropped to conveyor to be transported to further processing. Depending on the season, debarking quality can also be regulated by means of adjusting (by hydraulic jack) the angle of the debarking machine position.

**FEEDING TO CHIPPER**

The debarked logs are fed out from the debarker to ‘chain-carpet’ conveyor of special heavy-duty design. Prior to feeding the debarked logs to the chipper, a belt conveyor brings them through a metal detector. Logs rejected by the metal detector are removed from the line by means of a manipulator.

There are several models of log chippers currently available in the market. Our choice of solution for our customers is always based on a combination of the new chipper capacity, maintenance and price.
BOTTOM-ROTOR DEBARKING - A SOLUTION FOR PELLET MILLS

The technical solution, which we offer, is especially good for modern pellet mills, where debarking of raw materials should be relatively cheap, but efficient to allow pellet manufacturers to meet one of the main demands – pellets should be cheap, but high quality fuel.

Debarking lines designed and manufactured by Hekotek are successfully operating at several leading European pellet mills.

SERVICE

Rotors with abraders are the main tools of the debarker. Although being very rugged, they still need regular service – approximately once a year it is necessary to re-weld hard-alloy brazed-tools. Most of the components used in our lines are available in our spare parts stock.

According to agreement between Hekotek and Canadian company Savico, Hekotek is using Savico’s technology, developed and proven during over 10 years.

REFERENCE LIST OF DEBARKING AND CHIPPING LINES DELIVERIES

Estonia:
Graanul Invest Helme
Graanul Invest Osula
Graanul Invest Imavere

France:
Biosylva
(Cosne-Cours-sur-Loire)

Latvia:
Graanul Invest Incukalns
Graanul Invest Launkalne
Pellets 4 Energia (Broceni)

POWER OF COOPERATION

OUR CUSTOMERS’ SUCCESS IS OUR ULTIMATE GOAL

Increased value of processed timber can only be achieved through effective solutions ensured by close cooperation with our customers and suppliers. We strongly believe that best solutions are based on cooperation.

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