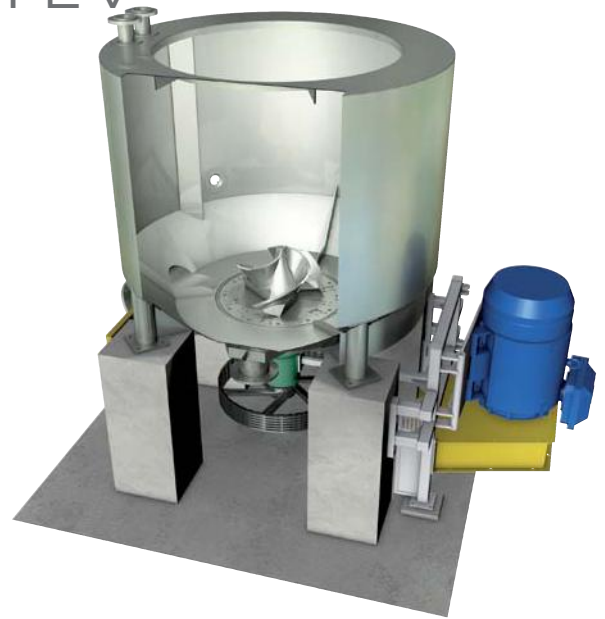




Cellwood Machinery  
FOR BETTER PULP AND PAPER

# Grubbens Vertical Pulpers

TYPE V



CELLWOOD  
MACHINERY

# Grubbens Vertical Pulpers

## TYPE V

Grubbens V-Pulpers are used in the following positions:

Pulping of Bales

Broke handling

Trim handling

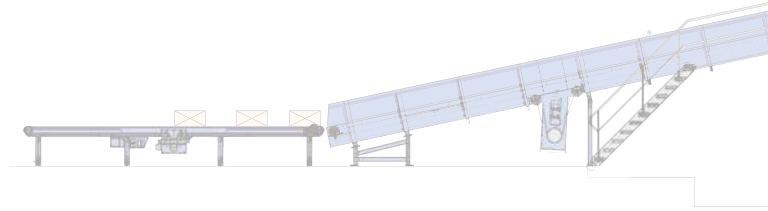
Pulping of Wet Strength material

## GRUBBENS S-ROTOR



### GRUBBENS S-ROTOR OPTIMIZED FOR:

- Mechanical processing
- High Pulp Consistency
- Low Energy consumption



Bale Pulper



- Cellwood Machinery AB has over 50 years of experience with different Pulper installations and offers the most energy efficient and flexible pulping solutions.
- The design of the Grubbens vertical Pulper and S-Rotor allows for a high operating consistency in both batch and continuous operation.
- The optimal pulping conditions result in high pulping quality, short pulping time as well as a very low power usage (kWh/ton).
- High pulping quality is a very important condition for optimum function of the following Refining stage.

## TECHNICAL INFORMATION

### OPERATION

Grubbens Pulper units are designed for use with either a belt drive or a gear drive.

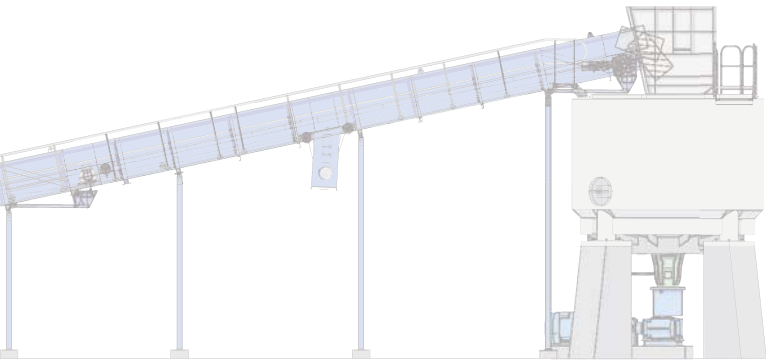
As the rotor unit has its own bearings, when using a gear drive, the coupling is connected to the rotor shaft. This means that the gear only has to sustain torque forces.

A belt drive provides quieter operation and increased flexibility, while a gear drive is used when higher power demand is required.

### PROCESS ENGINEERING

Grubbens Vertical Pulpers can be used for both batch and continuous operation. Continuous operation requires a slightly lower operating consistency, but the shorter retention time results in much higher capacity in the same volume. In batch operation it is recommended to use a VFD to facilitate the emptying of the Pulper and to produce a more even discharge consistency.

The surrounding controls and logics are designed in close cooperation with the customer to achieve optimal functionality.



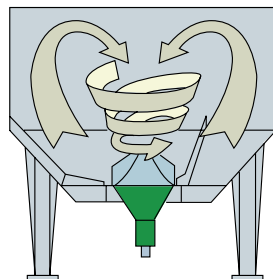
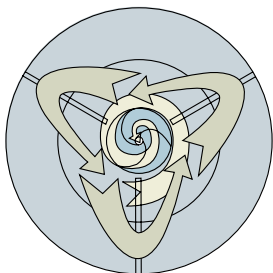
## GRUBBENS PULPERS: THE RESULT OF 50 YEARS OF EXPERIENCE AND CONTINUOUS DEVELOPMENT



- Customized solutions allow flexible installations in regards to design and placement of feed hood, Pulper tub and motor frame.
- The design of the Grubbens vertical Pulper and S-Rotor results in complete movement of the pulp. Three main streams assure high fibre friction and high velocity towards the rotor centre.

## GRUBBENS PULPERS FULFILL MARKET REQUIREMENTS, SUCH AS:

- Gentle disintegration of pulp
- High pulping consistency
- Disintegration of wet-strength material without the use of chemical additives or steam
- Low energy consumption
- Low maintenance costs
- Unique technical features such as reversible strainer plates, wear strips and counter knives
- Customized solutions



# CELLWOOD MACHINERY

World Leader of Dispersing & Pulping Technology



Cellwood Machinery AB develops, manufactures and supplies machinery and systems for the pulp and paper industry. Our aim is constant development, leading to cost-effective machinery and energy savings for our customers. Cellwood Machinery always provides an operational guarantee and undertakes everything from engineering and drawing documentation to complete installations.

Cellwood Machinery is a world leader in pulper design and dispersing systems. We are represented in all countries by our own personnel or agents. For further information, visit our website [www.cellwood.se](http://www.cellwood.se).

Cellwood Machinery is part of the Swedish family-owned industrial group The Cellwood Group, which has around 350 employees.



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