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.

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

**TYPE W**
Grubbens W pulpers are used in the following positions:
- Pulper for disintigration of bale pulp
- Couch pulper
- Press pulper
- Size press pulper
- Pulpers before and after coating
- Pope pulper
- Winder pulper
- Trim pulper
- Broke pulper

**Grubbens W pulpers**
- Mechanical processing
- High pulp consistency
- Low energy consumption
- Lower dry content, such as in couch and press pulpers
- Low energy input
- High flows

**Grubbens S-rotor**
- Optimized for:
  - Technical information
  - Operational costs

**Grubbens G-rotor**
- Optimized for:
  - Process engineering
  - Energy efficiency

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**Grubbens S-rotor**
- The overall height is much lower than a vertical pulper, shorter and less costly bale conveyor can be used. This results in a better, more compact and simpler layout for the entire system.
- The Grubbens horizontal design consumes less energy than a traditional vertical pulper, under the same operating conditions.
- The unique design of the unit and tub yields optimum operation with minimal maintenance costs.

**HORIZONTAL PULPER FOR BALE PULP**
- Because the overall height is much lower than a vertical pulper, a shorter and less costly bale conveyor can be used. This results in a better, more compact and simpler layout for the entire system.
- The Grubbens horizontal design consumes less energy than a traditional vertical pulper, under the same operating conditions.
- The unique design of the unit and tub yields optimum operation with minimal maintenance costs.

**Grubbens G-rotor**
- The design of Grubbens pulpers allows flexible and fully custom engineered installation solutions.
- Grubbens S-rotor are installed in pulpers that process broke with a dry content of 50 percent or higher.
- Cellwood designs and configures showers, venting systems and chutes in order to achieve optimum pulper operation.

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**COUCH AND PRESS PULPER**
- A Grubbens pulper unit provides a significantly reduced work volume and higher pulping consistency than an agitator.
- Grubbens G-rotors are installed in pulpers that process broke with a dry content of less than 50 percent. The design of the G-rotor enables optimum performance without strainer plate, resulting in minimal energy consumption.
- To further reduce energy consumption in trim processing, a frequency converter can be installed.

**PULPERS UNDER AND AROUND PAPER MACHINES**
- The design of Grubbens pulpers allows flexible and fully custom engineered installation solutions.
- Grubbens S-rotors are installed in pulpers that process broke with a dry content of 50 percent or higher.
- Cellwood designs and configures showers, venting systems and chutes in order to achieve optimum pulper operation.

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**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.

**PROCESS ENGINEERING**
Under machine pulpers require optimum level and pulping consistency. For more stable operations, the pulping consistency is controlled via flow metering.

Venting systems are fitted so that a partial vacuum is created in the chute. This helps convey the web into the pulper, resulting in quick submergence and minimizing the risk of condensation on paper machine parts.