



Cellwood Machinery

Enhancing recycling

**We make
the most
of nature**

..... **Recycling solutions** for paper and organic waste.

Cellwood – We make the most of nature

CELLWOOD MACHINERY WAS FOUNDED IN 1913, AND TODAY IT IS PART OF THE FAMILY OWNED CELLWOOD GROUP, TOGETHER WITH BRUZHOLMS BRUK. THE HEAD OFFICE IS LOCATED IN NÄSSJÖ, SWEDEN, WITH SUBSIDIARIES IN CANADA, CHINA, GERMANY, VIETNAM AND INDIA.

Cellwood plays an important part in the development of the modern pulp and paper industry. The company is the world leading supplier of dispersing systems, which are used in the process of recycling paper waste into new paper. More than 700 system installations have been delivered to paper mills worldwide. Each delivery is specifically designed with regard to the customer's process, and every business relationship is characterized by close collaboration on testing, installation, commissioning and service in the form of maintenance and spare parts.

KEY VALUES WITH OUR SOLUTIONS ARE HIGHER PAPER QUALITY AND LOWER ENERGY DEMAND.

Every day Cellwood equipment saves 1.5 million trees from being harvested.

Our systems enhance the waste paper recycling process and can be found in hundreds of mills worldwide. Key values with our solutions are higher paper quality and lower energy demand in the production. In the pulp and paper industry we are the world leading supplier of dispersion systems and we offer other products such as pulpers, microfilters and conveying systems.

We are also active in the bioenergy industry, with solutions for pre-treatment of organic waste.

Support throughout the whole product lifecycle.

Pulp & paper pilot plant trials

Test your material in our pilot plant and analyze machine performance in our lab.

Engineering and project based deliveries

Customized designs for your unique application.

Start-up

Full service on site with your machine delivery.

Global support

We have offices in Sweden, Canada, China, Germany, India and agents all over the world.

Service visit

Let us visit your plant and help you improve performance.

To us, waste is a natural resource

Sustainability has always been a natural part of Cellwood's business. Our early focus on recycling has in the pulp and paper industry made us a world leader in dispersion of wastepaper.

In the bioenergy sector, our pre-treatment systems deliver substrate with very low reject content.

As such the digestate fulfill law requirements and becomes useable as agricultural fertilizer.

Cellwood always strive to act in the best interest of the environment and our society. We also conduct extensive research and development - the ongoing challenge is to find new ways to recycle materials and resources even more efficiently.

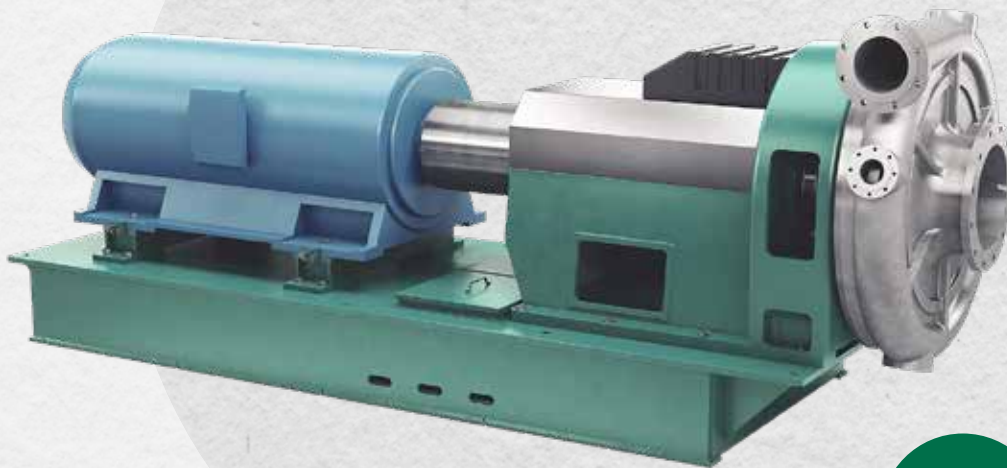
RECYCLING SOLUTIONS FOR PAPER AND ORGANIC WASTE.



DISPERSERS

Recycled paper made stronger and cleaner

The target of dispersion is to disperse – distribute – contaminants in the waste paper to a non-visible size. This is an economical method for elimination of impurities in the pulp – and it also develops strength properties in the fibers.



KRIMA

**KRIMA DISPERSING SYSTEMS ARE USED TO STRENGTHEN FIBER
AND REDUCE IMPURITIES IN THE PULP TO A NON-VISIBLE SIZE.**

PULPERS

Energy efficient paper dissolving

The Grubbens product line offers solutions for under-the-machine, bale and broke pulpers, and for high consistencies. Paper mills around the world often operate pulpers of old design which consume significant amounts of energy.

Cellwood specializes in rebuilding existing pulpers – a modernization that dramatically will decrease the energy consumption, and also lead to a much higher throughput.



ENERGY EFFICIENT SOLUTIONS FOR PAPER DISSOLVING. GRUBBENS PULPER RANGE OFFERS A HIGH PULPING QUALITY, SHORT PULPING TIME, AS WELL AS A VERY LOW POWER USAGE.

CONVEYING SOLUTIONS

Tailored solutions for the pulp and paper industry

Forty years' experience designing handling systems for the pulp and paper industries have enabled Metrans to accumulate a wealth of invaluable know-how. Many of our customers have come to see us as their prime advisers when planning new systems or modernization projects.



EVERY PROJECT PRESENTS A FRESH CHALLENGE, AN OPPORTUNITY TO CRAFT SOMETHING DISTINCTIVE INFORMED BY PAST EXPERIENCES.

MICROFILTERS

Safe re-use of process water

Algas microfilters recover useable fiber and enable safe re-use of process temperature water. This reduces both heating energy and water consumption in the plant. We have been supplying filters world-wide for over 30 years, with hundreds of installations in the pulp and paper industry.



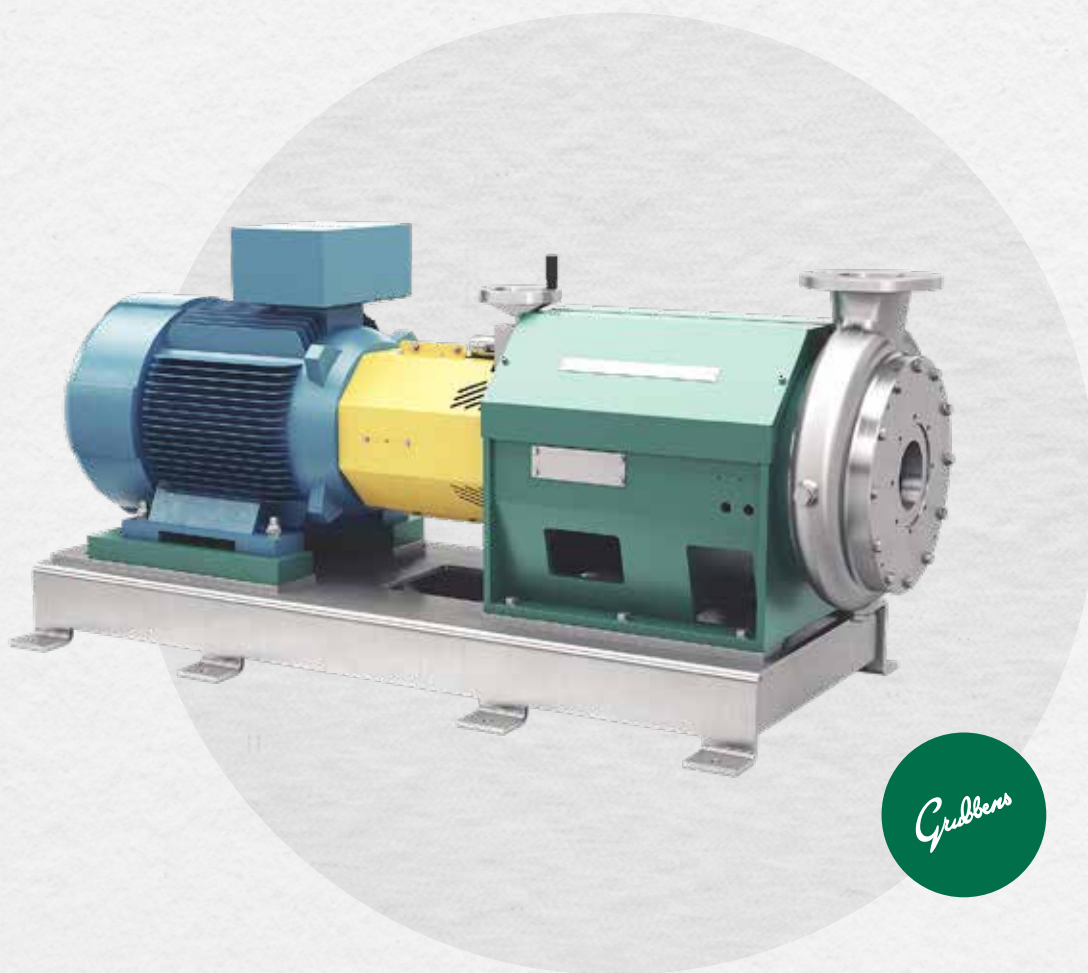
**ALGAS MICROFILTERS RE-COVER USEABLE FIBER, AND SAVE ENERGY
BY ENABLING SAFE RE-USE OF PROCESS TEMPERATURE WATER.**

BIOENERGY

Reject removal from organic substrate

For the bioenergy industry, Cellwood offers solutions for pre-treatment of organic waste from households and industries.

After pre-treatment, the substrate can be digested into biogas – which is converted into electricity or used as fuel for vehicles.



**PRE-TREATMENT OF HOUSEHOLD WASTE WITH EFFICIENT
REMOVAL OF PLASTICS AND GRIT.**

We put everything to the test

The company's strict specialization allows for extensive research and development within the field – the challenge is to find new ways of even more efficient recycling. In the head office in Sweden a complete set of Cellwood machines are installed in a state-of-the-art pilot plant – which is available for customer trials and training.



Research and Development Center

Our industrial scale pilot plant in Nässjö Sweden is available to customers world wide for trials and training purposes for stock preparation equipment and systems with a strong focus on waste paper recycling.



Cellwood Machinery

Cellwood is the world leading supplier of dispersing systems for the pulp and paper industry. We are also active in the bioenergy industry, with solutions for pre-treatment of organic waste. Through extensive research and development, we strive to find new ways of even more efficient recycling.

Recycling solutions for paper and organic waste.

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