



Cellwood Machinery

Metrans Conveying Solutions



Cellwood

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

Tailored solutions for the pulp and paper industry

Since its inception some 40 years ago, Metrans has focused on designing and engineering tailored solutions for the pulp and paper industry. Our innovative mindset has enabled us to consistently meet and strive to surpass customer expectations.

We are situated on the Swedish west coast and our main markets have historically been the Nordic countries and Central Europe. Even so, our products and solutions can be found all over the world. Since 2021 we are part of the Cellwood Group which provides us with the opportunity to expand into new markets, as Cellwood has offices and agent networks across the globe. Cellwood is a natural fit for us, allowing us to provide a combination of conveying and pulping solutions. With this synergy, we have every reason to believe that our future will be even more successful than our past.

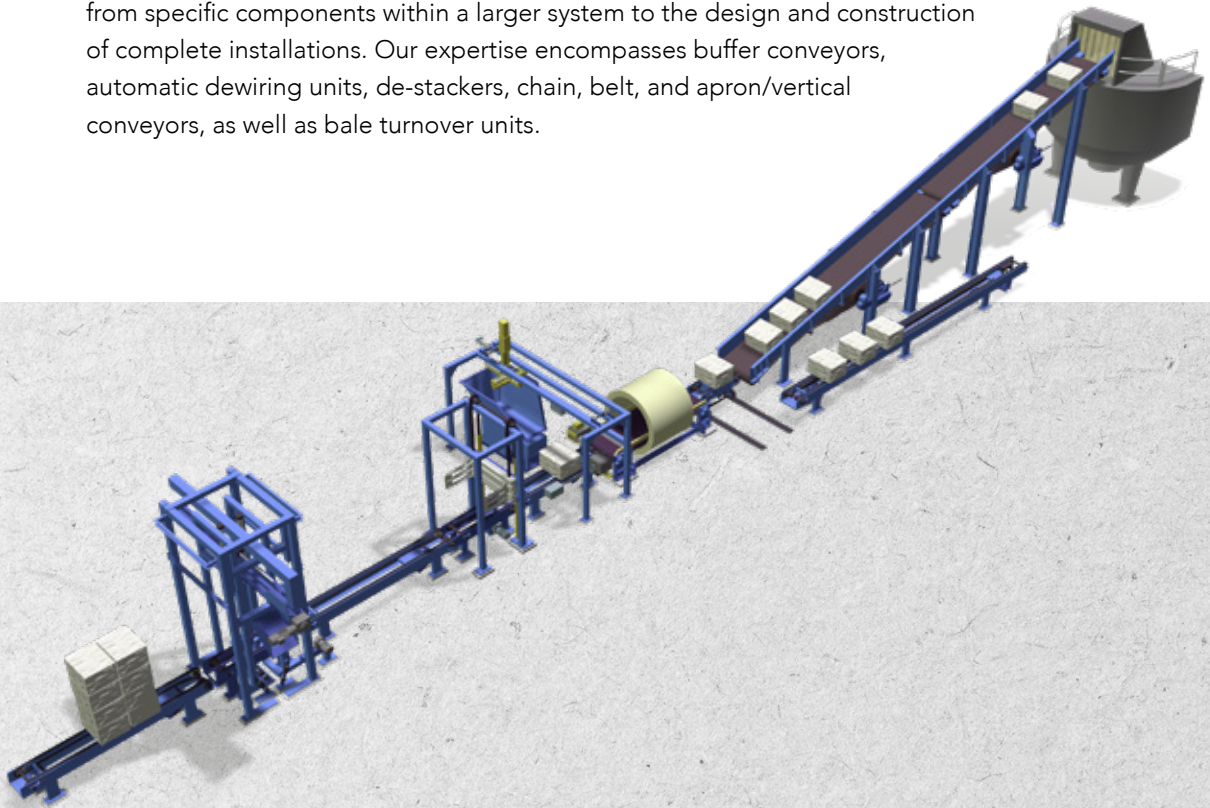
METRANS

Automatic pulp bale dewiring system

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. Our pulp bale handling systems exemplify the high-end technology and expertise we can offer the pulp and paper industries.

Our bale handling systems, coupled with versatile control designs, offer the flexibility to manage advanced recipes with different pulp grades. These allow fully automatic bale management featuring multi-lane infeed's, traversing units, both manual and automatic dewiring capabilities, integrated magnetic wire detection, reject inspection stations, and tailor-made buffer and pulper feed conveyors.

We will be pleased to offer guidance on every aspect of bale handling, ranging from specific components within a larger system to the design and construction of complete installations. Our expertise encompasses buffer conveyors, automatic dewiring units, de-stackers, chain, belt, and apron/vertical conveyors, as well as bale turnover units.



METRANS **Dewiring of unitized bales**

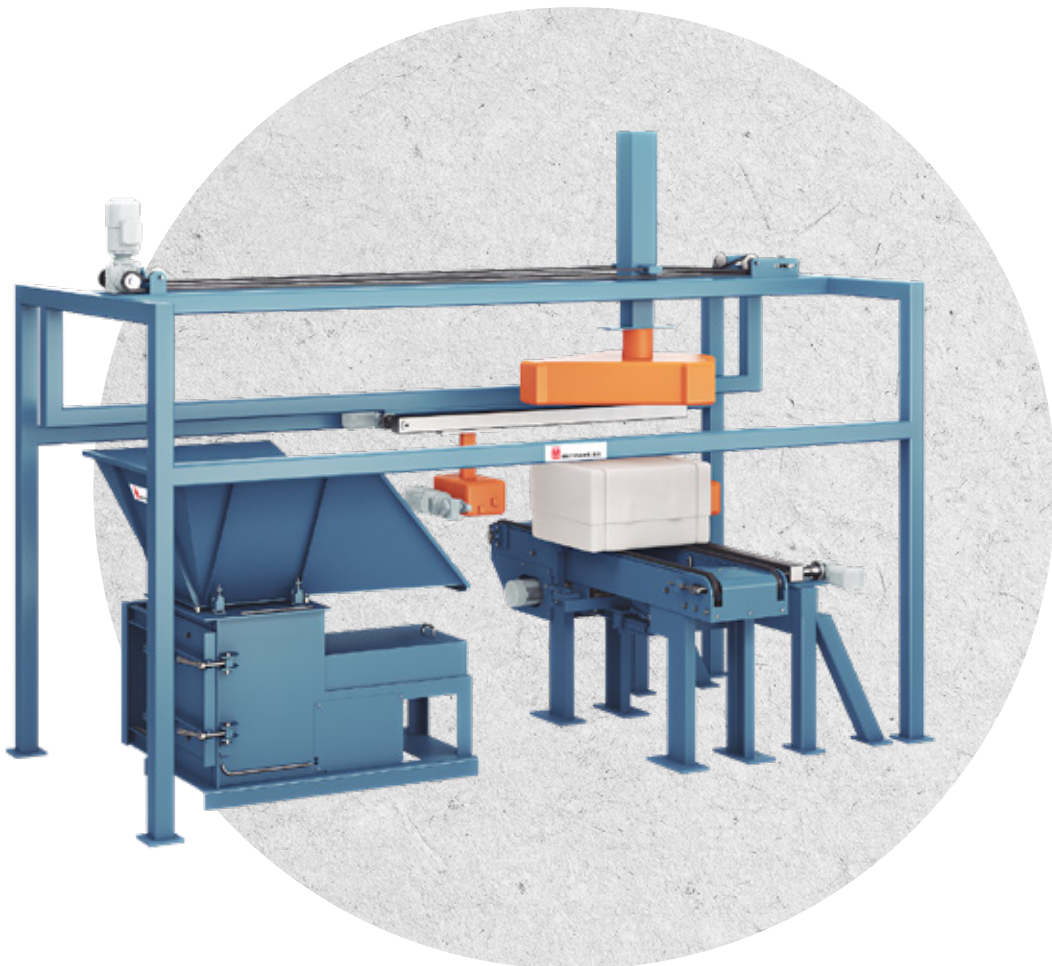


METRANS

Dewiring of single bales

Our extensive lineup of pulp bale handling equipment is designed to the highest standards, ensuring seamless integration with other system units to create a cohesive package. While all Metrans' products are crafted to work harmoniously together, they can also be used independently or in conjunction with equipment from other manufacturers.

In-depth studies of customers' transport and handling demands have given us the experience necessary to meet the most demanding requirements of design and function. This is particularly evident in our solutions for bale-to-pulper handling. Consequently, we have developed systems with varying degrees of mechanization to suit different locations and production capacity requirements.

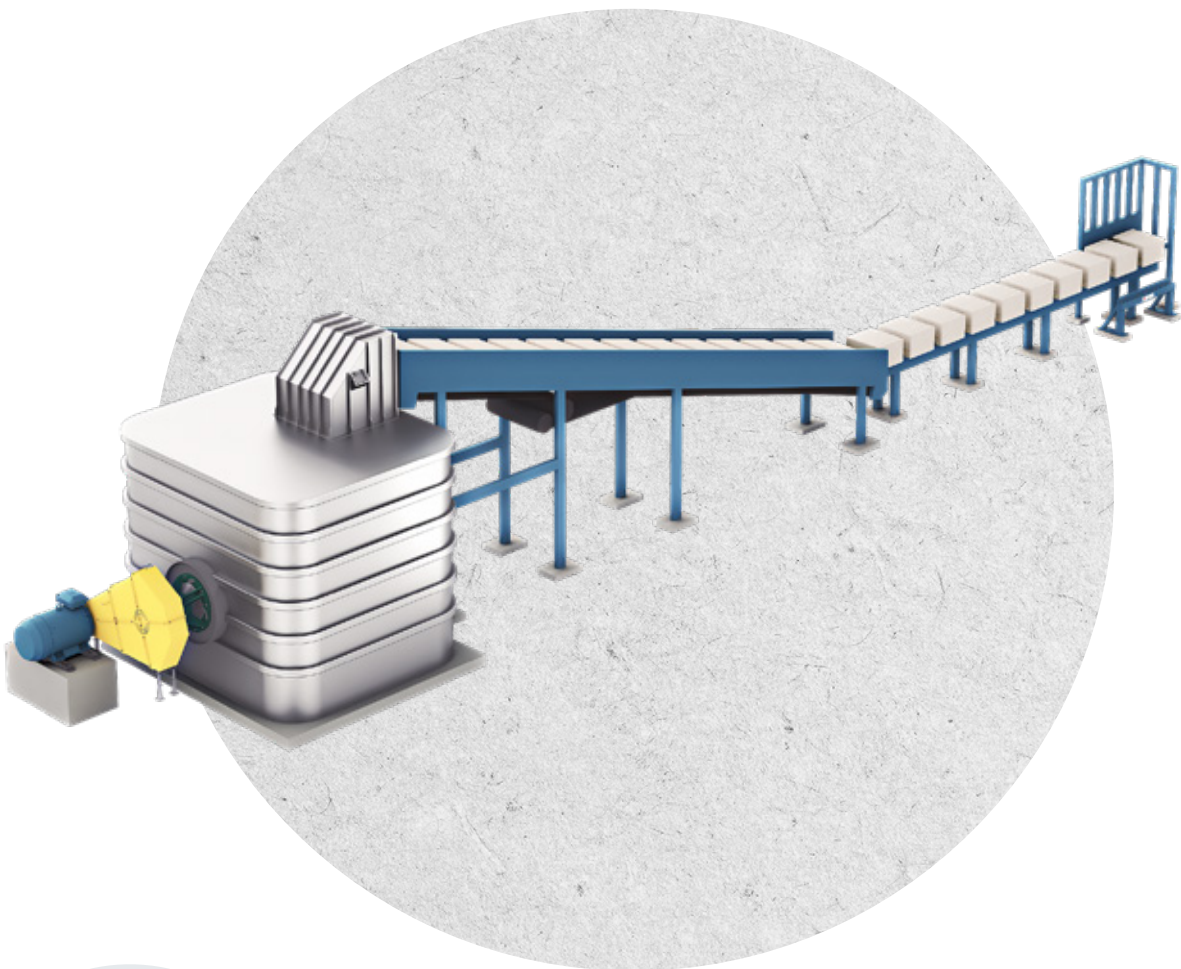


METRANS

Bale handling solutions

Enhance the efficiency of your operations with cutting-edge, energy-efficient solutions meticulously designed for bale handling and fiber dissolving. In an exciting merger, Metrans AB has become a part of the industry leader, Cellwood Machinery AB, and can now offer you a seamlessly integrated solution that combines the best of expertise and innovation.

With Metrans handling solutions and Cellwood's pulper offerings, we can provide a multitude of systems, each designed to deliver optimal results for specific paper materials: virgin pulp bales, paper machine broke, guillotine broke, and wet strength materials.



METRANS

Recycled paper

Our durable and dependable, recycled paper and board, dewiring unit automatically removes wires from recycled bales of various types and dimensions. To boost plant capacity, the unit also splits the bales before feeding them into the pulper.

The recycled paper dewiring process utilizes an innovative wire unwinding mechanism, producing a wire coil that is easy to handle and that has a minimal environmental impact. Furthermore, the automatic cutting and removal of bale wire contribute to enhanced safety within the plant.

The recycled bale dewiring unit offers flexible installation options, allowing for freestanding operation in batch mode or continuous operation. This versatility facilitates integration with existing machinery.

Optionally, the unit can be equipped with a buffer conveyor before and after the dewiring process, reducing manual labor and optimizing overall plant performance.

METRANS
Dewiring unit
recycled paper



METRANS Roll-up conveyor

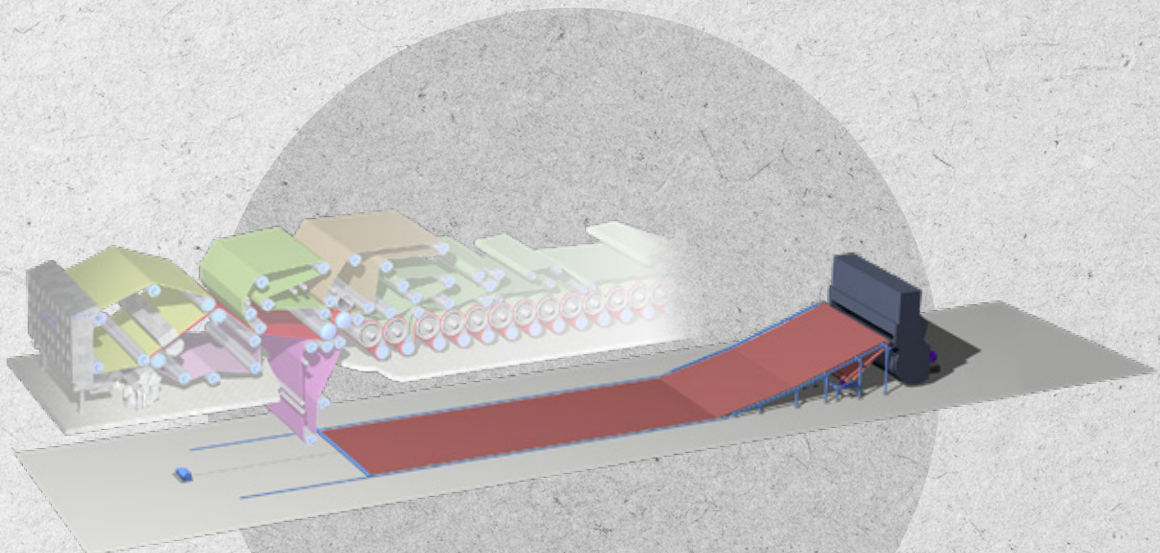
Under-machine conveyors have effectively addressed the three most critical challenges associated with paper machines. Firstly, in terms of the working environment, clearing up after a web break used to pose safety risks.

Secondly, there were issues related to time loss and raw material waste, especially when returning broke to the pulper, leading to significant production losses due to frequent machine stops and starts.

Thirdly, the limited accessibility for servicing rolls and threading equipment as well as utilizing the dead space beneath the machines. This due to the messy environment and the need for moving heavy machinery during clean-up.

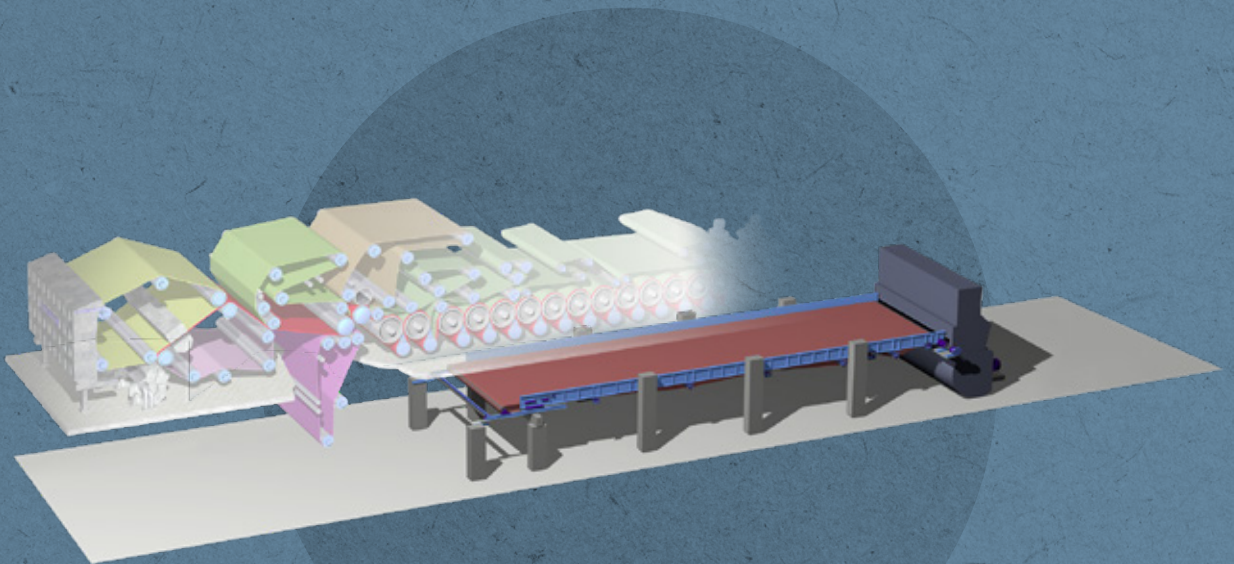
The Roll-up conveyor collects the broke and discharges it into the pulper at a suitable time, primarily used on machines producing lighter grades. After discharging the broke, the conveyor belt is returned to the collection position. Cleaning under a paper machine is an unpleasant and hazardous task due to factors such as heat, moisture, and the potential breakage and falling of a roll journal. Additionally, there are risks of fire, and manual systems can result in the paper becoming excessively dirty.

The first discontinuous broke conveyor was patented by Metrans in some thirty different countries. The idea is, in fact, very simple. The most expensive part is free! A used dryer fabric is utilized to convey the broke back to the pulper.



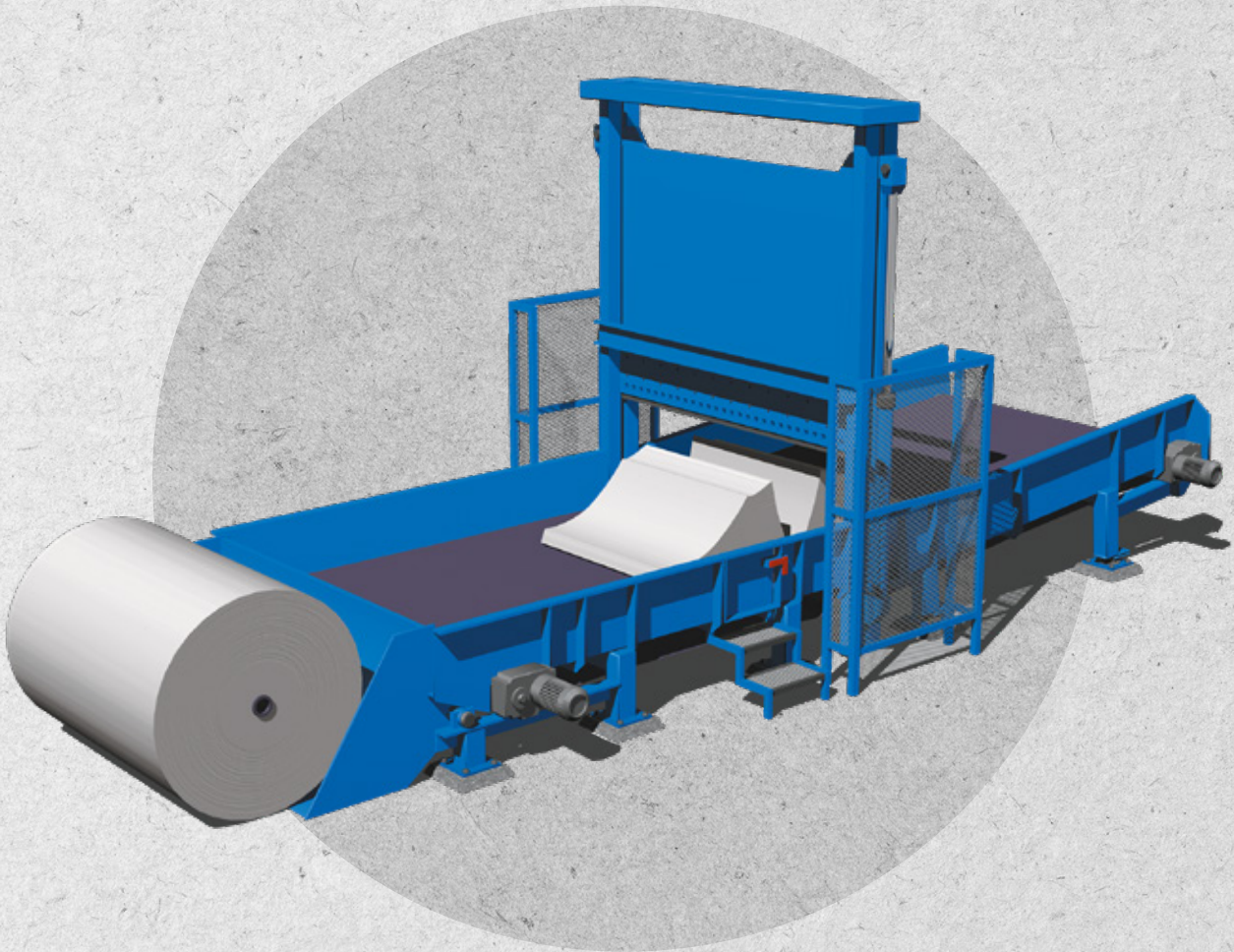
METRANS **Fast runner conveyor**

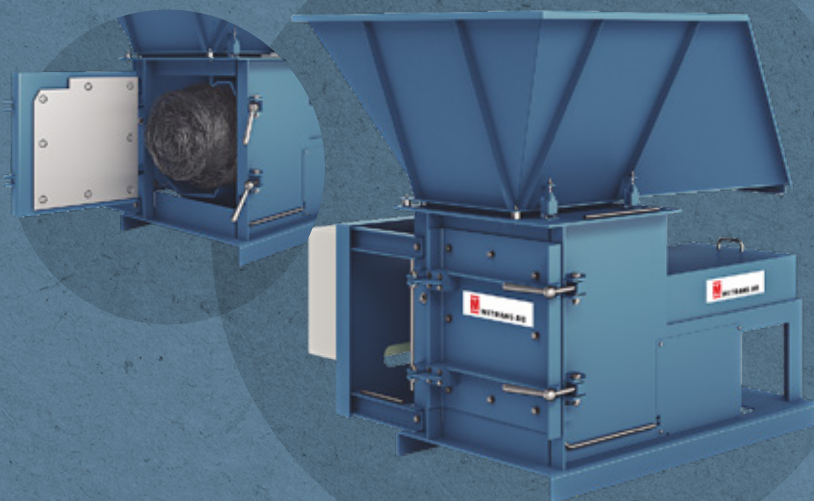
The Fast Runner is a continuous conveyor that starts automatically in the event of a break, continuously transporting the broke to the pulper. Mainly used on machines producing heavy grades and on pulp dryers, it offers the flexibility to operate continuously in proportion to machine speed or to be controlled by web breaks. Opting for a continuous broke conveyor also creates additional space under the paper machine for fan systems, lubrication equipment, or other installations.



METRANS Reel Guillotine

The Reel Guillotine is designed to cut defective or surplus paper reels to separate the residual paper from the cores. The cut paper will be further processed in a pulper. The Reel Guillotine stands out for its compact design, offering exceptional strength and durability.



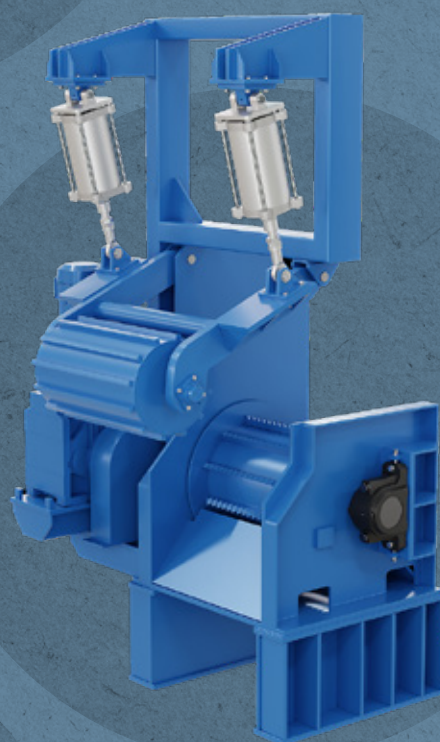


METRANS Wire winder

The wire winder bundles scrap wire into coils, making them easy to handle and appealing to the recycling industry.

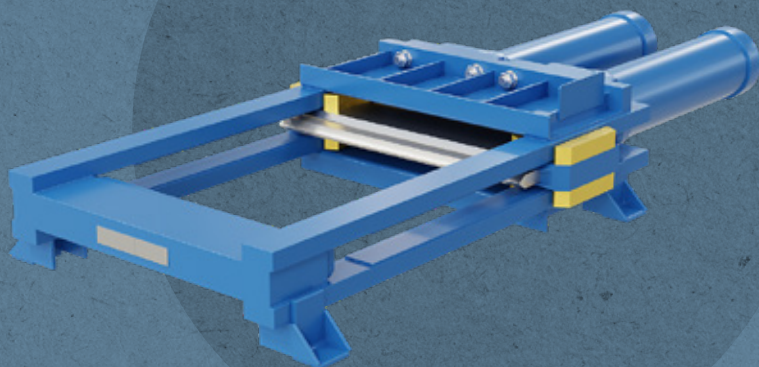
METRANS Ragger puller

Automatically, in either continuous or discontinuous mode, the unit extracts the ragger tail from the pulper.



METRANS Tail cutter

Cuts the ragger tail into pieces with a robust construction and few moving parts.



Recycling solutions for paper and organic waste.

Enhancing recycling

We make the most of nature

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