



Aluminum **Recycling solutions**

Machines | Projects engineering | Services & Secondary raw materials

TARGETED SOLUTIONS FOR ALUMINUM WASTE RECOVERY

For over 45 years, MTB has been recycling aluminum waste at its own industrial facility in France. With a processing capacity of up to 25,000 tonnes per year, we have developed comprehensive expertise across every stage of aluminium recovery and valorization.

This operational experience directly drives the design of our equipment and recycling plants. Our engineering team develops high-performance recycling solutions tailored to each customer's specific requirements and to a wide range of aluminum-bearing waste streams, including cables, profiles, sheet metal, beverage cans, Zorba, and many others.

We support our customers in two ways:

- ↳ By designing and supplying equipment and complete recycling plants tailored to their specific feedstock.
- ↳ By processing your aluminum waste at our own facility & producing high-quality secondary raw materials.



EQUIPMENT ENGINEERED TO MINIMIZE OPERATING COSTS

- + Electric drives adapted to the application
- + Controlled energy consumption
- + Easy maintenance
- + Repairable equipment and interchangeable parts

Looking to recycle **on your own site?**



Standalone machine or fully customized recycling line



Testing



Engineering



Installation



Support



Looking to **entrust your materials to us?**



Waste purchasing or toll processing



Material characterization



Material recovery



Supply of recycled raw materials



SOME REFERENCES



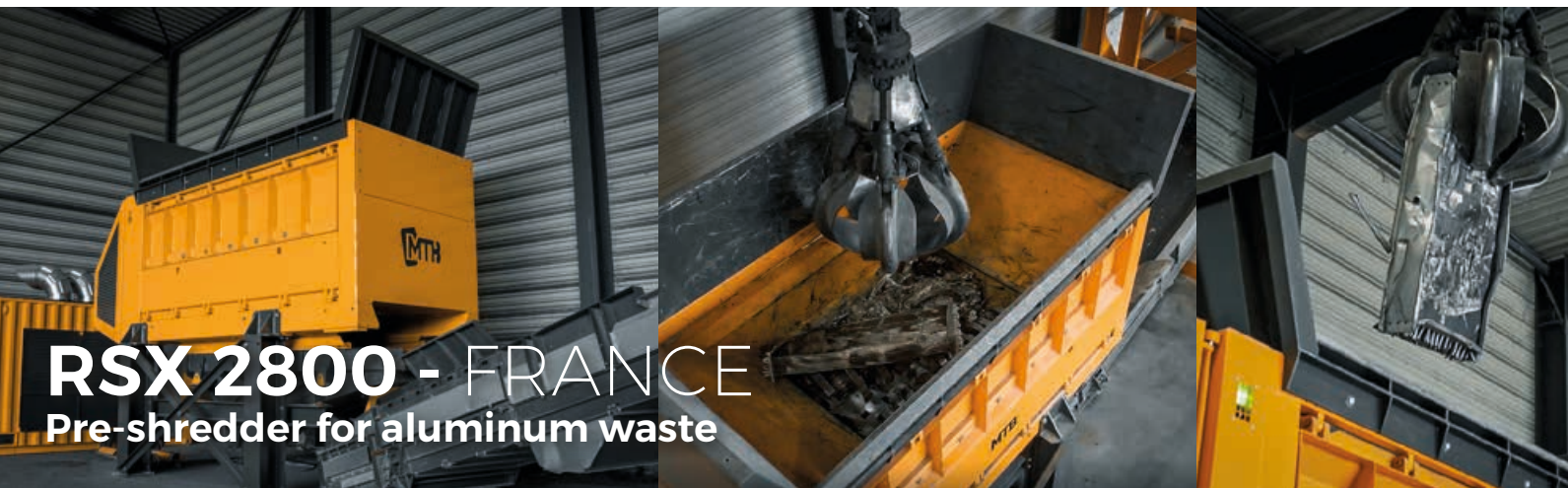
ALUMINUM WASTE - FRANCE
Shredding and metal separation line



ALUMINUM WASTE - FRANCE
Aluminium processing and refining line



ALUMINUM PROFILE - FRANCE
Shredding and metal separation line



RSX 2800 - FRANCE
Pre-shredder for aluminum waste



YOUR ALUMINUM WASTE

We analyze each waste stream to define the most suitable technical or commercial solution.



RIMS



CASINGS



RADIATORS



ALUMINUM BALES



ALUMINUM PROFILES



ZORBA

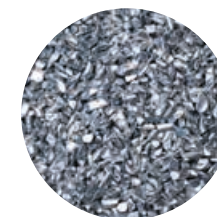


ACSR



CANS/ PACKAGING

PRODUCED MATERIALS



Aluminum
1000 series

Up to
99,76 %
purity



Aluminum
6000 series

Up to
99 %
purity



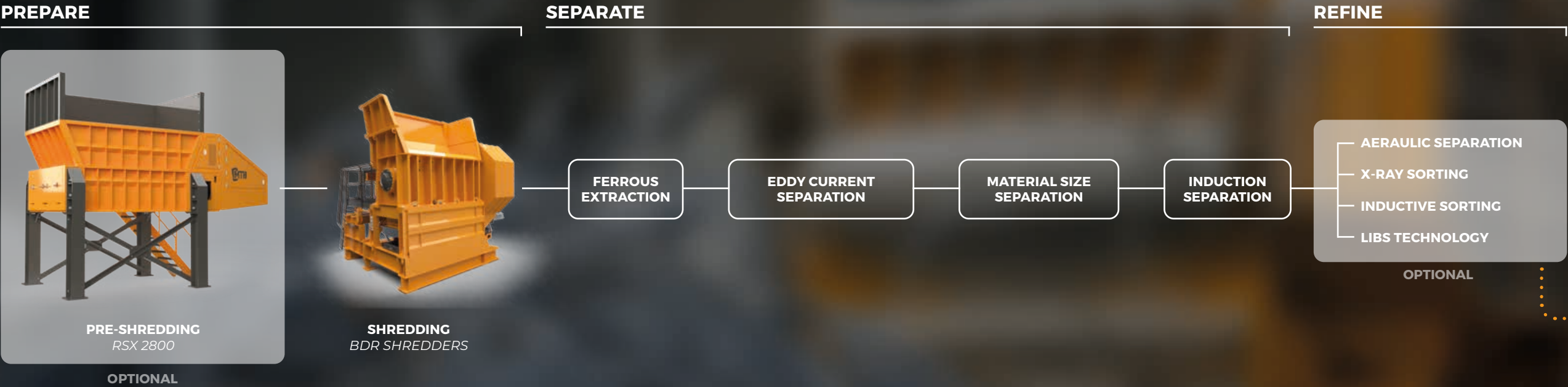
ALMELEC
alu / steel

Up to
99,5 %
purity

Performance depends on the composition of the input material and the target quality requirements. Results can be confirmed through material characterization and testing.

A PROCESS CONFIGURED AROUND YOUR FEEDSTOCK

THE COMBINATION OF PROCESSING STAGES DEPENDS ON THE NATURE OF THE WASTE, ITS DENSITY, PARTICLE SIZE AND THE REQUIRED QUALITY OF THE OUTPUT MATERIALS.



YOUR BENEFITS

- Reduce residual iron, copper, or zinc content depending on the feedstock
- Improve the recovery of valuable material fractions
- Produce more consistent materials tailored to market requirements
- Reduce operating costs through reversible blade technology

OUR SOLUTIONS

- Integration of partner technologies for enhanced material sorting
- Eco-efficient process design
 - Optimized operating costs
 - Low energy consumption thanks to eDrive electric motor technology

*CAPACITY DEPENDS ON:

- Type of waste
- Average size and weight of the material
- Sorting process configuration

WHY CHOOSE MTB EQUIPMENT?

- + **Reduced energy consumption:** up to 35% lower than hydraulic drive systems*
*and up to 15% lower than conventional asynchronous electric motors.
- + **Machine availability above 95%,** supported by simplified maintenance operations
- + **Efficient handling of unshreddable materials and blockages:** 200% starting torque available from 0 rpm
- + **Service life exceeding 25 years,** with fully interchangeable components

RSX 2800

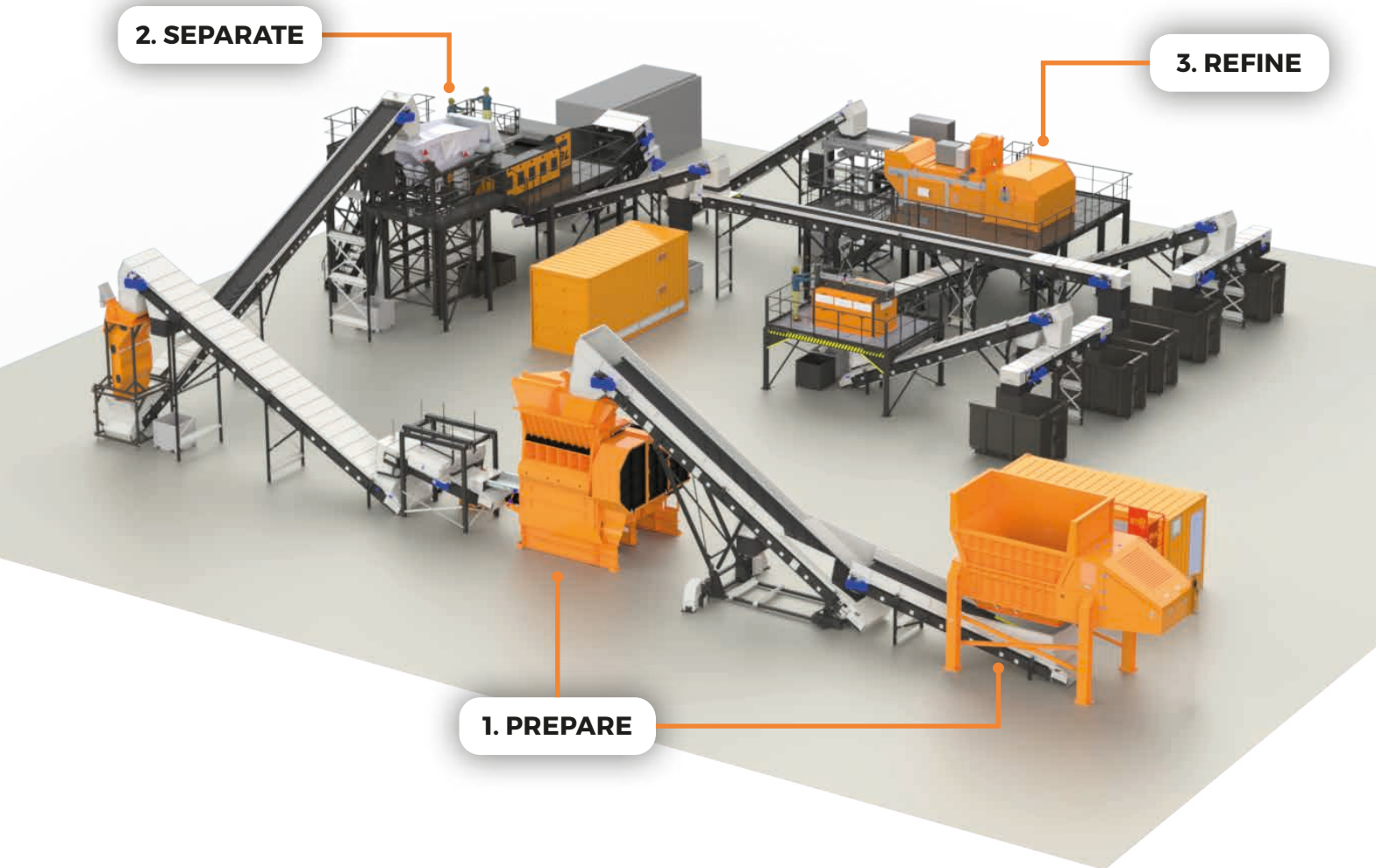
RSX 2800



BDR shredders



ALUMINIUM RECYCLING SYSTEMS



GO FURTHER

Take your material recovery to the next level with a range of advanced processing options.

OPTIMIZE PLASTIC SEPARATION
WITH OUR TURBO SYSTEM

SEPARATE DIFFERENT PLASTIC TYPES
TO INCREASE MATERIAL RECOVERY

SEAMLESS INTEGRATION OF
PARTNER TECHNOLOGIES



OUR SERVICES

Eco-Innovation support

Our Eco-Innovation team supports industrial companies in their eco-design and circularity initiatives:

- **Optimize resource utilization**
- **Reduce the environmental footprint of products and services**

Our resources dedicated to eco-design:

- **An industrial-scale testing center supported by a dedicated machine fleet.**
- **A scientific approach to ensure high-quality support.**



Implementation of a **ski recycling stream** enabling material reintegration and improving the recyclability rate from 6% to 77%.



Decarbonization and recycling of automotive cockpit components.



Recycling of critical metals contained in electric vehicle motors.



Development of a solution for **recycling composite materials from wind turbine blades**.

Customer trials

Our recycling facility includes a dedicated area for customer trials. Before finalizing the purchase of one of our systems, **customers have the opportunity to test their own materials using our technologies.**

This step makes it possible to:

- Optimize machine processing parameters.
- Assess system performance under real operating



Laboratory

A laboratory is also available at our facility. It is equipped with advanced analytical instruments that enable:

- **Quality control of recycled materials,**
- **Validation of process parameters for informed decision-making.**



Scan to discover a raw material analysis.



Commissioning - MTB Service

Our team of technicians travels worldwide to commission your installations.

Specialized in installation and repair, and able to respond quickly, they support you in your day-to-day operations.



Support - Training and coaching

A team of process experts that:

- Trains your personnel to master your equipment's operating parameters for optimized performance.
- Provides refresher training programs to maintain and enhance skills.
- Delivers guidance to adapt your equipment to the evolving characteristics of your feedstock.



Maintain performance - Customer support

A dedicated team that:

- Schedules predictive maintenance for your equipment based on the line's required availability rate.
- Organizes troubleshooting interventions and supplies wear parts with short lead times.
- Provides expert advice and technical guidance.



MYMTB Plateform

The connected dashboard for your MTB equipment, providing comprehensive monitoring and reporting:



Equipment inventory



Document library



Access to historical data



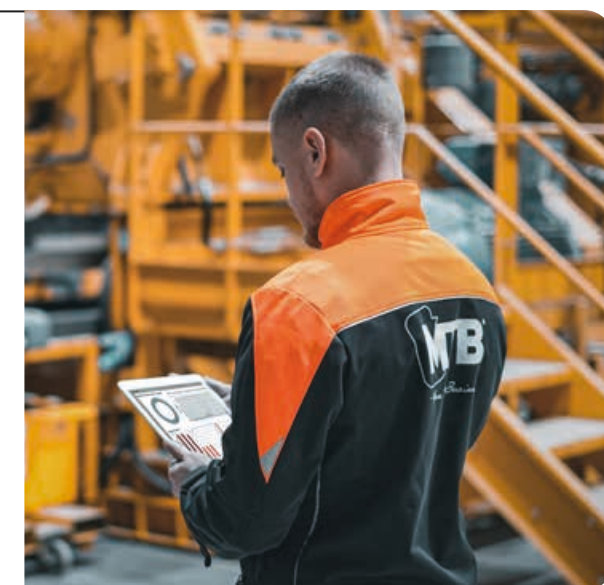
Support center



Notification center



Production overview



KEY BENEFITS OF MTB EQUIPMENT

- Our solutions are developed and optimized based on our own industrial experience in aluminium recycling.
- Each installation is tailor-made to match the characteristics, volumes, and recovery objectives of your specific feedstock.
- Our testing facilities allow us to validate process performance and output material quality before any investment is made.
- From design to commissioning, MTB controls the entire value chain to ensure performance, reliability, and execution quality.
- Our teams support you throughout the lifetime of your project with dedicated services for technical support, process optimization, and maintenance.

Do you have a machine or recycling plant project?

Looking to recover a waste stream or source recycled materials?

Contact our experts :



info@mtb.fr



+33 474 928 768



Visit our website



Address : Parc d'activités des Balmes Dauphinoises, 38890, Saint-Chef, FRANCE

Mail : info@mtb.fr

Phone : +33 474 928 768