



Compact system **Recycling solutions**

Proven MTB processing technology in a compact configuration

COMPACT SYSTEM

Making waste treatment accessible

In 2017, we set out to make the recycling of complex industrial waste accessible and efficient, regardless of the size of your business. Thus was born our range of compact BOX recycling systems, designed to integrate cutting-edge technologies into a limited number of container.

Approved by many companies around the world, our BOX solutions have become a benchmark in the industrial waste recycling sector.

MTB compact systems are pre-integrated recycling solutions designed for projects requiring limited footprint, controlled throughput and reduced on-site installation work.

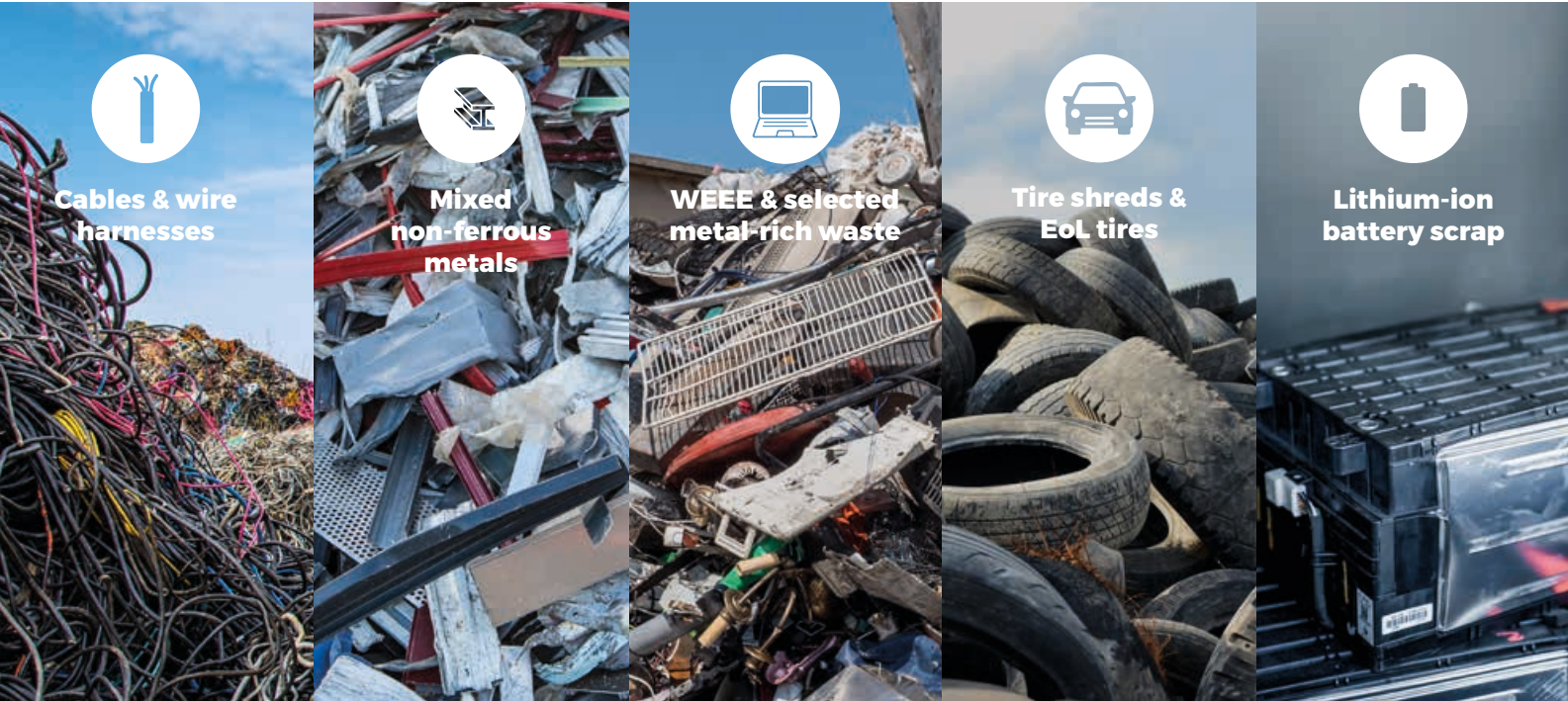
- + Plug & Run solution, ready for operation
- + Fast commissioning and easy transportation

Each solution is configured according to the input material, target output quality, required capacity and local installation constraints.



A recycling solution for every waste stream

Based on the same proven processes used in our large-scale recycling plants, our compact systems combine shredding, granulation, and separation technologies to ensure efficient recovery of a wide range of waste streams while delivering high-quality output materials.



Our compact recycling systems

MAX
The most compact recycling system



Up to 1 T/h

CABLEBOX
Compact cable recycling system



Up to 3 T/h

COMPACTBOX
Versatile, multi-purpose system



Up to 2 T/h

TIREBOX
Compact tire recycling system



Up to 2 T/h

DRYCELLBOX *Innovation concept*
Compact battery scrap recycling system



Up to 1 T/h

WASTE PROCESSED	COMPLEX CABLES	CLEAN CABLES	RADIATORS	NON-FERROUS MIX METALS	TIRE / TDF	BATTERY SCRAP
MAX	×	×	×			
CABLE BOX*	×	×	×			
COMPACT BOX*		×	×	×	×	
TIRE BOX*					×	
DRYCELL BOX*						×



MAX

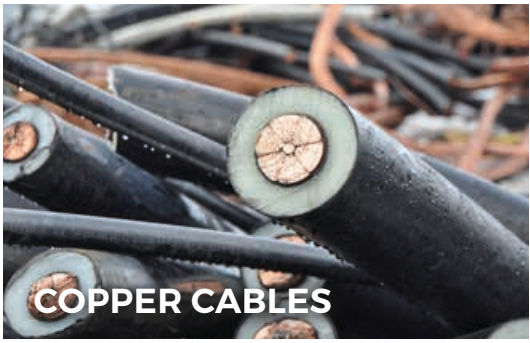
Our most compact recycling system

The MaX is a compact cable and metal processing line combining shredding, granulation, magnetic separation and density sorting on a pre-assembled base. It's designed for operators requiring controlled throughput and limited installation space.

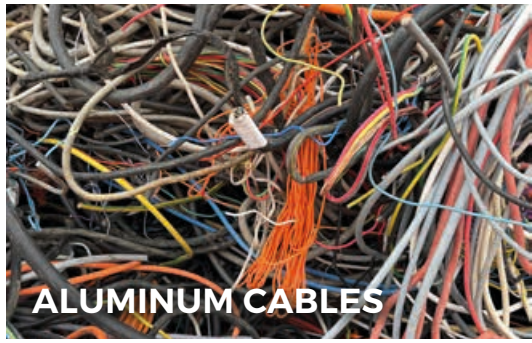
While compact systems may offer comparable capacities, the MaX stands out through the quality of its output.

It processes complex waste streams beyond the reach of conventional equipment, while maintaining consistently high material quality: wire harnesses, shredder wires, radiators...

Suitable input materials



COPPER CABLES



ALUMINUM CABLES



SHREDDED WIRES



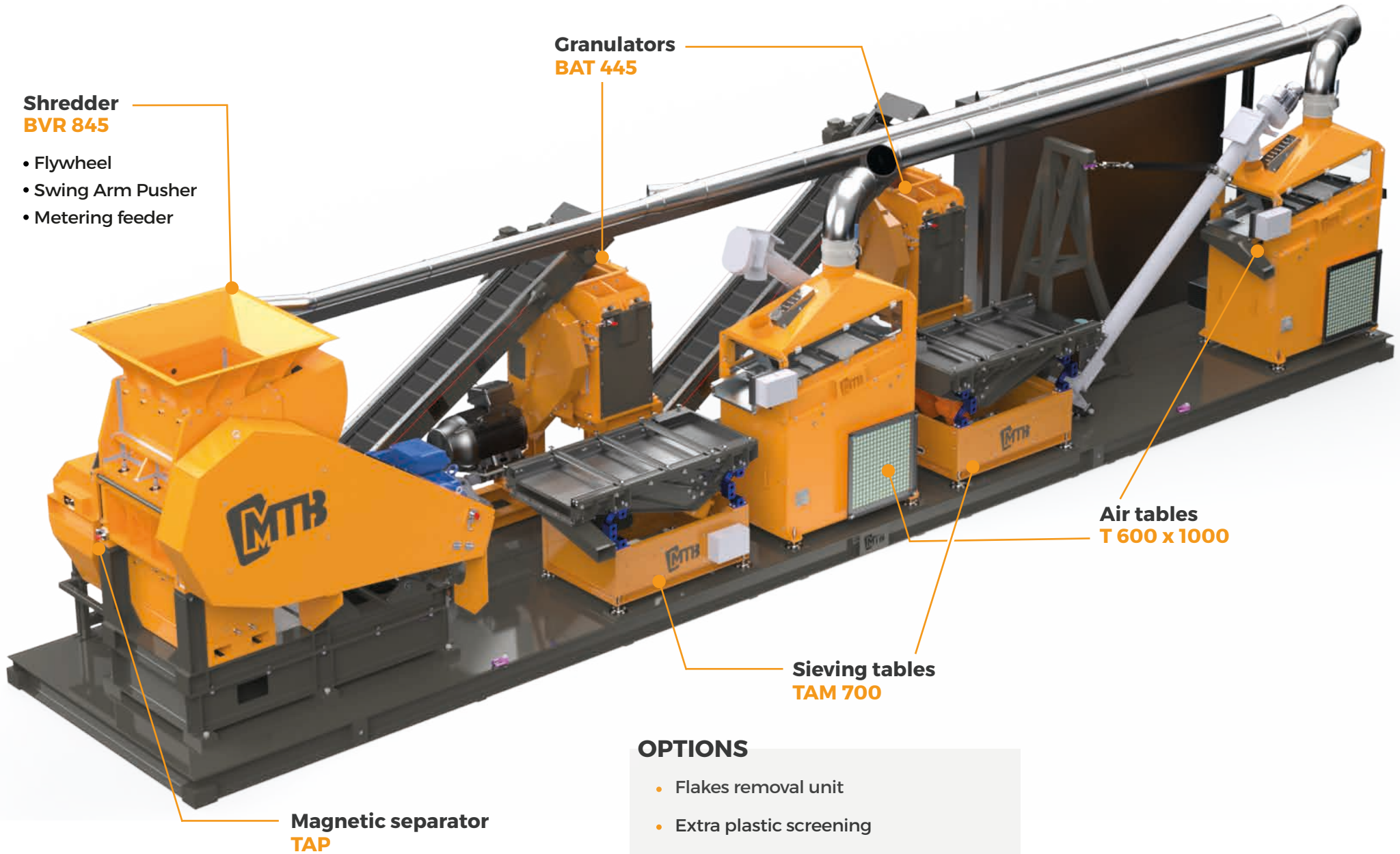
ACSR



WIRE HARNESSSES



RADIATORS



Separated output fractions*



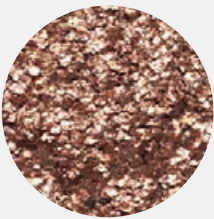
Big Copper



Fine Copper



Aluminum



Flakes (optional)



Plastics



Ferrous insert

OPTIONS

- Flakes removal unit
- Extra plastic screening
- Turbo mill
- Set of discharge screw conveyors

CAPACITY
up to **1 t/h***

* Capacity, final output distribution and quality depend on the input composition and selected options

3D visual non-contractual

A wide range of relevant features

PLUG’N’RUN SOLUTION

- The system is pre-assembled, pre-wired and pre-ducted to reduce on-site installation time.
- Site requirements are confirmed during project engineering and may include power supply, foundations, extraction, safety systems and material handling interfaces.

MAINTENANCE BENEFITS

- Common blade references between shredder and granulators,
- Ceasy access to cutting chambers,
- Screen replacement,
- Wear-part accessibility,
- Maintenance clearances.



MAX

Technical Data



Access to the cutting chamber on the BAT 445



Screen access on the BVR



Fixed and mobile blades access on the BVR



Easy screen tensioning on the sieving table TAM 700

MaX’s benefits at a glance

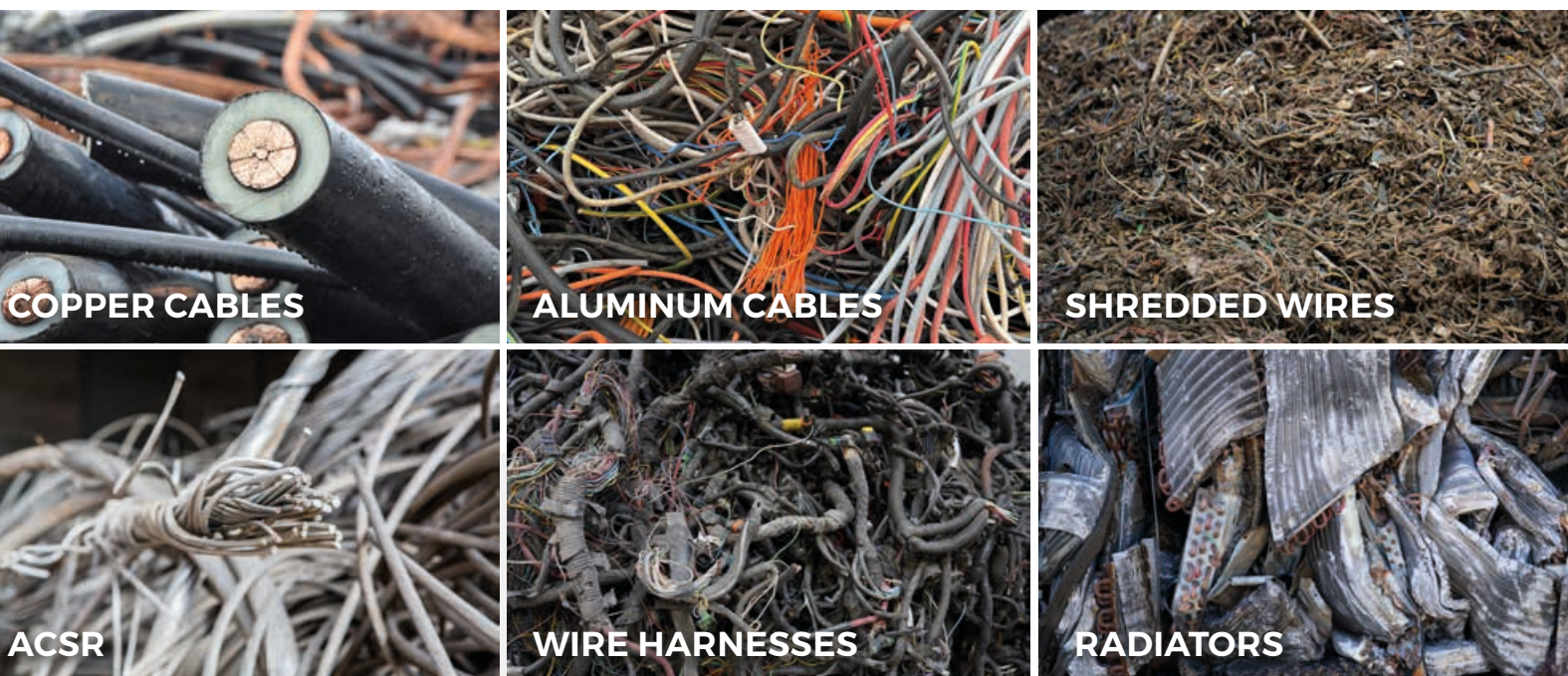
- Gradual size reduction in **3 steps** to increase **productivity**
- **One single blade model** for the entire process : the historical one at MTB
- Same robust design replicated from our larger shredders : **extended machines life**
- **Dedusting step** : hoses can be connected to existing systems (sourced by the customer) or with a filter unit supplied in option
- More flexible loading thanks to the **ram-equipped shredder**, eliminating the need of a grapple

Main equipment specs.

TECHNICAL DATA	MaX	BVR 845	BAT 445
Length	40'12" / 12 m	-	-
Width	8' / 2.44 m	-	-
Height	9'10" / 3.3 m	-	-
Weight	20 t	-	-
Power	200 HP - 150 kW	60 HP - 45 kW	50 HP - 37 kW
Cutting diameter	-	14.6" / 370 mm	20.3" / 515 mm
Rotor length	-	31,5" / 800 mm	15,8" / 400 mm
Blades	-	16	14

Compact cable recycling system

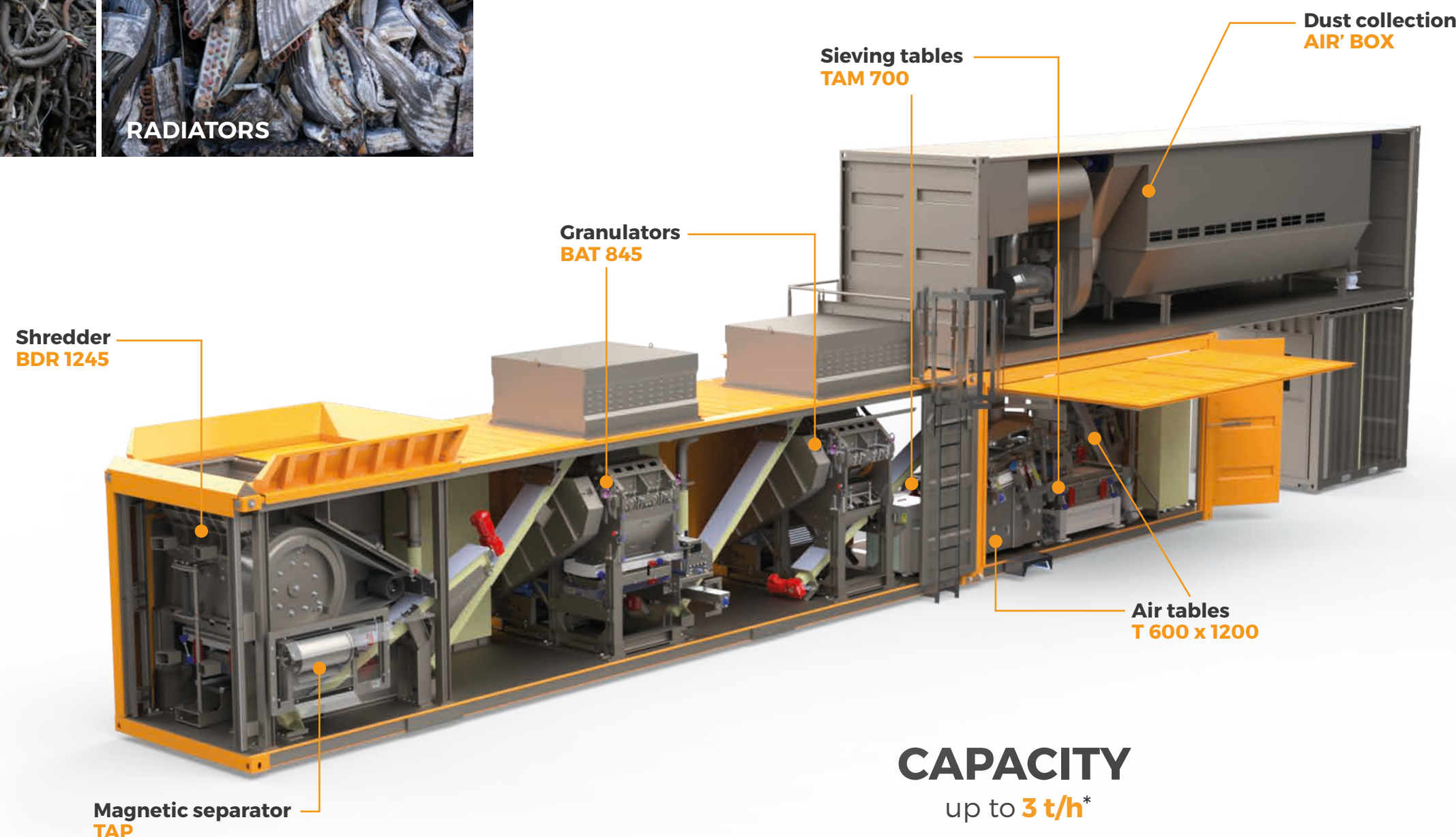
Suitable input materials



Separated output fractions*



Technical Data



CAPACITY
up to **3 t/h***

* Capacity, final output distribution and quality depend on the input composition and selected options

Main equipment specs.

TECHNICAL DATA	CABLEBOX	BDR 1245	BAT 845
Length	80' 05" / 24.40 m	-	-
Width	8' / 2.44 m	-	-
Height	19' 20" / 5.80 m	-	-
Power	500 HP / 375 kW	120 HP / 90 kW	100 HP / 75 kW
Weight	121 000 lb / 54 t	16 000 lb / 7.5 t	12 000 lb / 5.5 t
Cutting diameter	-	16.5" / 415 mm	24" / 607 mm
Rotor length	-	49" / 1 200 mm	32" / 800 mm
Blades	-	24	28

Main Advantages

REDUCED ON-SITE INSTALLATION

- Pre-assembled and pre-wired containerized units

CONTROLLED OPERATING ENVIRONMENT

- Enclosed process and integrated dust collection interfaces

COMMISSIONING AND TRAINING

- On-site start-up, operator training and process setting

OPTIONS

- Hydraulic system for BDR 1245 and swing doors
- Set of output belts conveyor or screws conveyors for easy conditioning of chops
- Plastic screening stage
- Automatic bin feeder with visual control and level sensor



A versatile, multi-purpose system

Designed for selected cables, radiators, non-ferrous metal mixtures and tire shreds (in option), subject to prior material testing.

The exact configuration and performance depend on the selected application.

MINIMUM SIZE - MAXIMUM EFFICIENCY

- Feeding either by crane, belt conveyor or fork lift
- MTB's Heavy Duty machines
- Power and reliability for both granulation and sorting
- Output products: ferrous, non-ferrous and plastic
- Automatic bin feeder with visual control and level sensor

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Composition



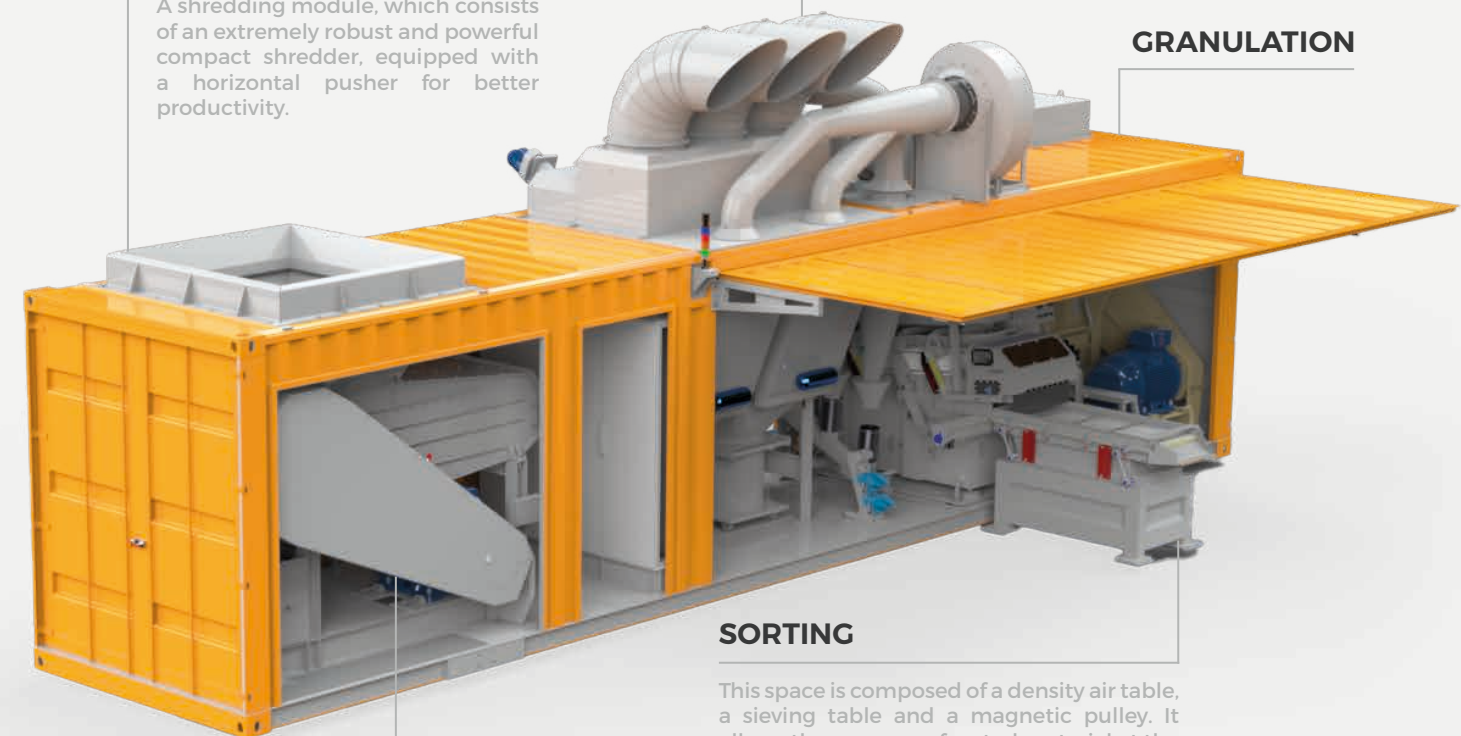
SHREDDING

This space of the process includes:

A shredding module, which consists of an extremely robust and powerful compact shredder, equipped with a horizontal pusher for better productivity.

AIR DEDUSTING SYSTEM

GRANULATION



SORTING

This space is composed of a density air table, a sieving table and a magnetic pulley. It allows the recovery of sorted material at the end of the process as follows: ferrous scrap, big copper nugget, copper fine fraction, caps (aluminum, brass, tin) and plastic.

FERROUS EXTRACTION

CAPACITY
up to **2 t/h***

* Capacity depend on the input composition and selected options

Suitable input materials



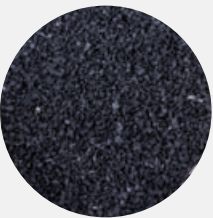
Separated output fractions*



Big Copper



Plastics



TDF granules



Aluminum



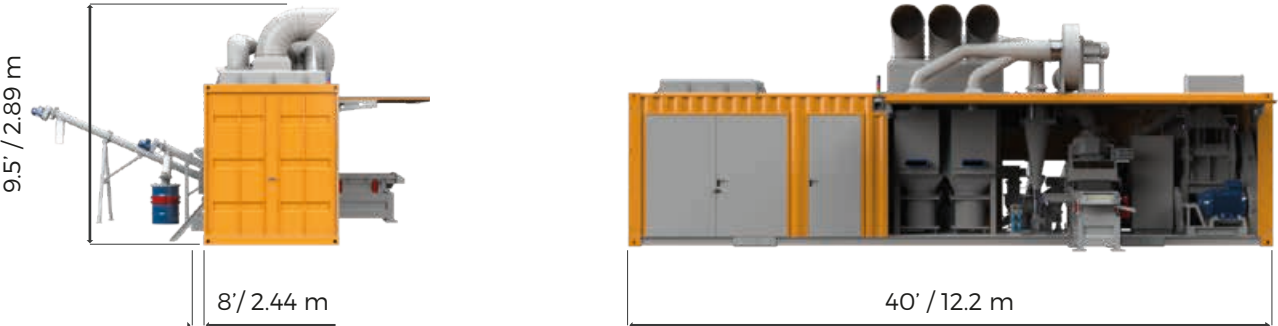
Ferrous insert



RDF granules

* Final output distribution and quality depend on the input composition and selected options

Technical Data



Main equipment specs.

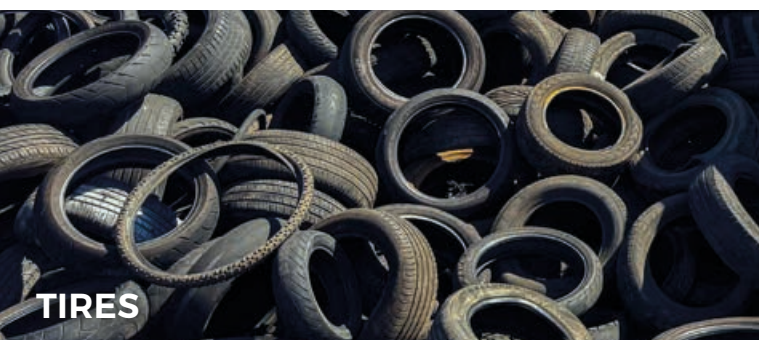
TECHNICAL DATA	COMPACTBOX	BVR 1200	BAT 845
Length	40' / 12.2 m	-	-
Width	8' / 2.44 m	-	-
Height	9.5' / 2.89 m	-	-
Power	300 HP / 220 kW	147 HP / 110 kW	100 HP / 75 kW
Weight	64 000 lb / 30 T	18 700 lb / 8.5 T	12 000 lb / 5.5 T
Cutting diameter	-	19" / 485 mm	24" / 607 mm
Rotor length	-	47" / 1 200 mm	32" / 800 mm
Blades	-	24	28



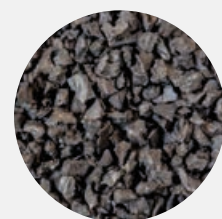


Compact tire recycling system

Suitable input materials



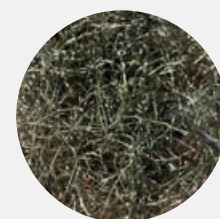
Separated output fraction*



Big Rubber



Fine Rubber



Steel Wire

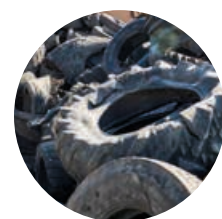


Textile fiber

OPTION RSX 1600 - ROTARY SHEARS

Integrated upstream of the TIREBOX, the RSX 1600, a two-rotor rotary shear combines cutting power and robustness to efficiently process the most demanding tire waste streams.

This option extends the system's processing capabilities to larger and more challenging tires, such as truck, agricultural, and industrial tires, while ensuring a consistent feed throughout the process.



COMPLEX
TIRES INPUT



Composition

Shredding



BDR 1245

Granulation



x2 BAT 845

Sorting



x2 T 600



x2 TAM 700

Ferrous extraction



STMO

DUST COLLECTION SYSTEM

SHREDDING

This part of the process includes:

A shredding unit, which consists of an extremely robust and powerful compact shredder, able to process all common tires, including truck tires and OTR tires.
A granulation module, which includes two granulators reducing the size of the material to achieve the optimum sorting size.

SORTING

The sorting section combines density tables, sieving tables and magnetic separation to recover rubber granules, steel wires and textile fiber.

The size distribution, the capacity and purity of the output fractions depend on the tire type and selected configuration.

CAPACITY

up to **2 t/h***

* Capacity, final output distribution and quality depend on the input composition and selected options

Main Advantages

MINIMUM SIZE - MAXIMUM EFFICIENCY

- Feeding either by crane, belt conveyor or forklift
- MTB's Heavy Duty machines
- Power and reliability for both granulation and sorting
- Designed for capacities up to 2 t/h, depending on tire type, input preparation and required output size
- Output products: rubber granulate, steel wire and textile
- Automatic bin feeder with visual control and level sensor

REDUCED ON-SITE INSTALLATION

- Pre-assembled and pre-wired containerized units

CONTROLLED OPERATING ENVIRONMENT

- Enclosed process and integrated dust collection interfaces

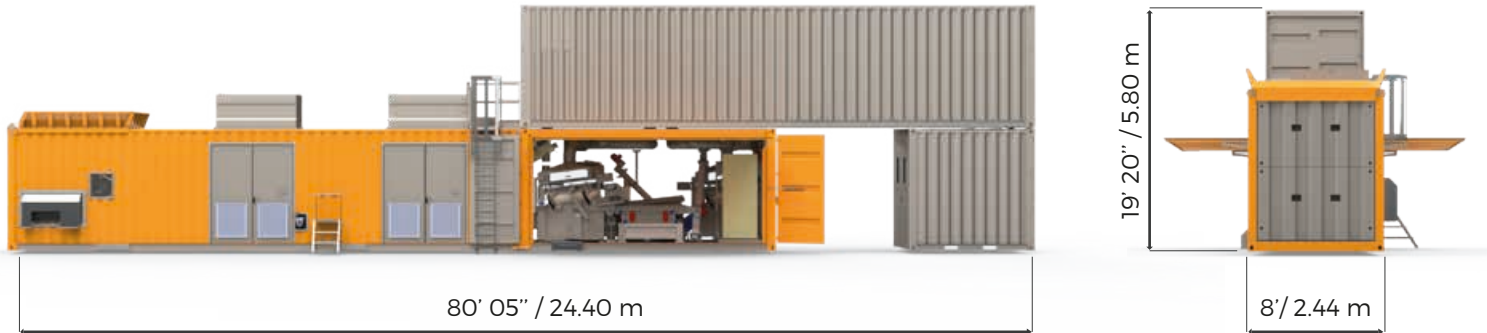
COMMISSIONING AND TRAINING

- On-site start-up, operator training and process setting

OPTIONS

- Gator Box
- Hydraulic pusher option available on the Gator Box
- Optional hydraulic system for BDR 1245 and swing doors
- Dust collection bin
- Output containers
- Intermediate magnetic separator
- Maintenance tool assistance

Technical Data



Main equipment specs.

TECHNICAL DATA	TIREBOX	BDR 1245	BAT 845
Length	80' 05" / 24.40 m	-	-
Width	8' / 2.44 m	-	-
Height	19' 20" / 5.80 m	-	-
Power	375 kW / 500 HP	120 HP / 90 kW*	100 HP / 75 kW
Weight	54 T / 121 000 lb	7.5 T / 16 000 lb	5.5 T / 12 000 lb
Cutting diameter	-	415 mm / 16.5"	607 mm / 24"
Rotor length	-	1 245 mm / 49"	800 mm / 32"
Blades	-	24	28

*Option available 147 HP / 110 kW motor

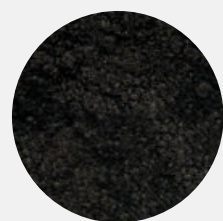


DRYCELL BOX - INNOVATION CONCEPT **Li-ion battery scrap recycling**

Suitable input materials



Separated output fractions



Blackmass



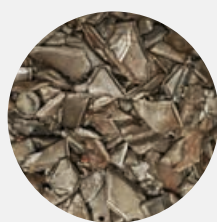
Copper



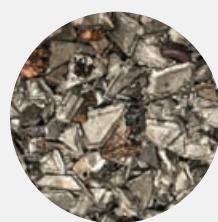
Aluminum



Plastics



Ferrous



Heavy non-ferrous

BATTERY SCRAP RECYCLING

Without electrolyte

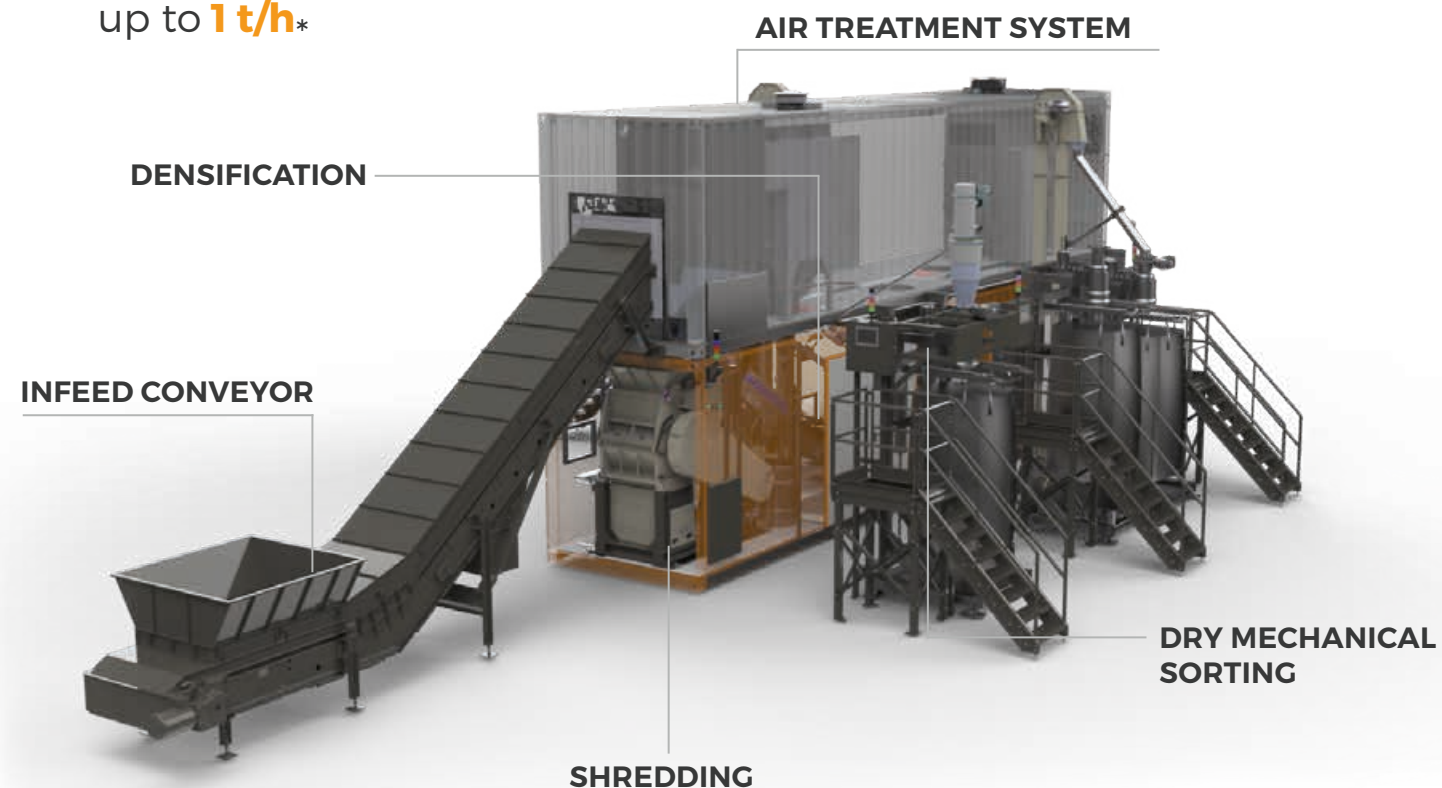
The DRYCELLBOX is an innovative solution currently under development and undergoing validation trials at MTB's recycling facility. Continuously improved through real operating conditions, the system is designed to efficiently process lithium-ion battery production scrap without electrolyte, while maximizing the recovery of high-quality material fractions.

The equipment design may evolve as development progresses. DRYCELLBOX is exclusively intended for the treatment of lithium-ion battery materials free of electrolyte.

CAPACITY

up to **1 t/h***

** Capacity, final output distribution and quality depend on the input composition and selected options*



Main Advantages

- Compact turnkey system
- Rapid and easy installation and startup
- Designed to meet applicable safety requirements
- Centralized control cabinet POWERBOX
- High quality of output products
- Custom-made MTB concept
- Robust design derived from MTB's larger-scale installations
- Depth sorting of cases or foils baling option available
- Training and ultra-responsive customer service



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



MAIN ADVANTAGES OF OUR EQUIPMENT

Reduced **footprint**

- Pre-integrated configurations designed to limit on-site space requirements.

Faster **project deployment**

- Assembly, wiring and ducting are completed as far possible before delivery.

Proven MTB **processing stages**

- Shredding, granulation and separation technologies derived from MTB industrial solutions.

Configuration **adapted to the feedstock**

- Capacity and output quality are defined through characterization and testing.

Long-term **support**

- Share with us your material sample, target capacity and available footprint. Our teams will identify the most suitable compact configuration.

