



100 % of MTB's expertise and performance in a box

**BOX SYSTEM**



**Plug'n'Run**



**BOX SYSTEM**

**CONTAINERIZED**

**TURNKEY RECYCLING PLANT**

March 2022



## Our recycling box solutions

### Plug'n'run

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Ready to use, our range of boxes integrate a complete recycling line within combined containers.

Compact, mobile, efficient and economical, the BOX's achievement is to retain all the equipment of a standard MTB recycling line and condense it all in containers.

This concept of Plug'n'Run is fully integrated and ready for use without any assembly operation required. Only a connection of containers will be necessary.

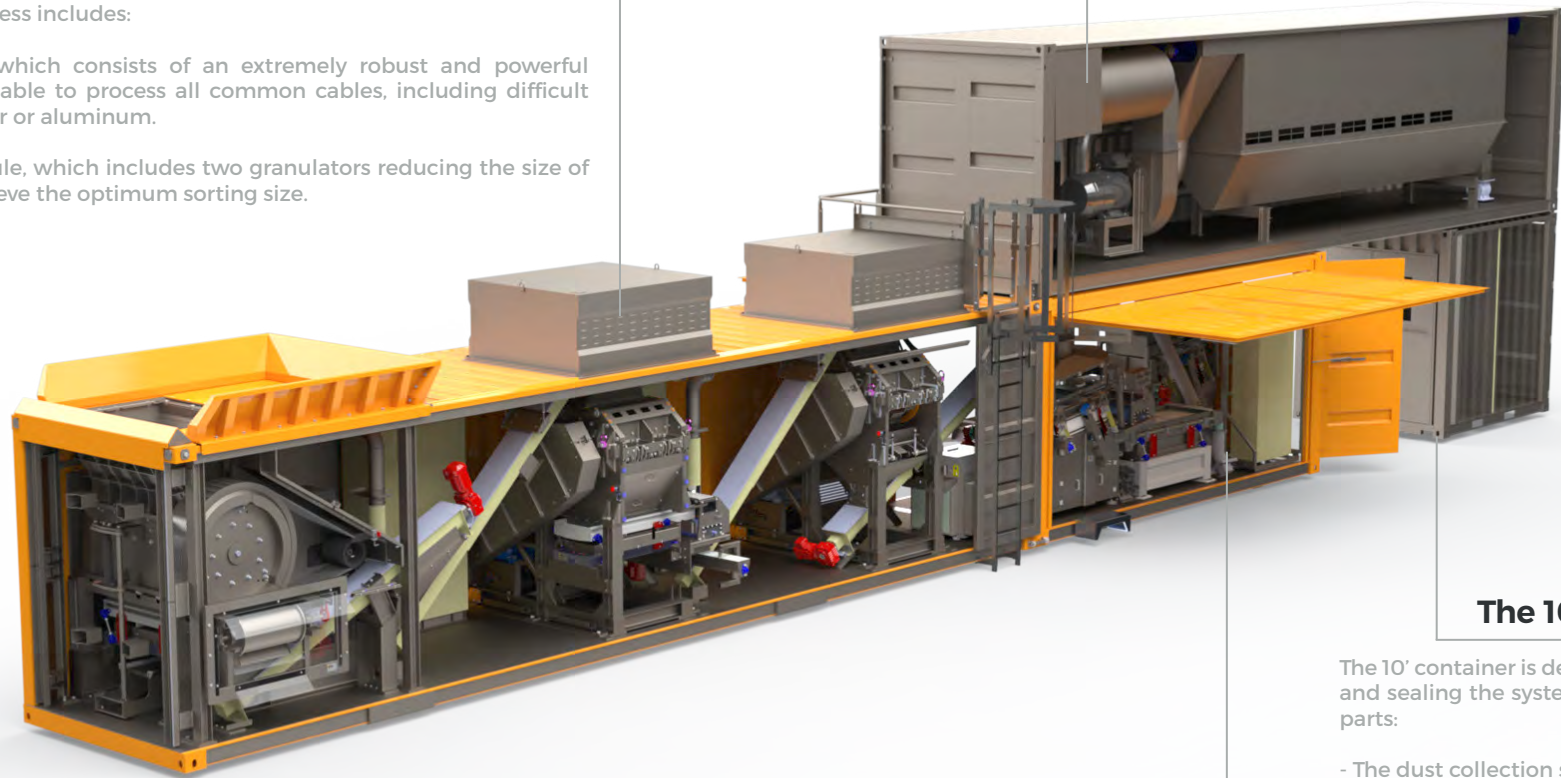
Equipment that is easily transportable and offers fast commissioning.

## The SHRED' BOX

This part of the process includes:

A shredding unit, which consists of an extremely robust and powerful compact shredder, able to process all common cables, including difficult cables, either copper or aluminum.

A granulation module, which includes two granulators reducing the size of the material to achieve the optimum sorting size.



## The AIR' BOX

In order to maintain a quick process and easy installation procedures, MTB has equipped the system with an air filtration unit in a separate container. Despite its relative compactness, the AIR'BOX contains a powerful dust collection system essential for an optimized separation of products.

## The 10' CONTAINER

The 10' container is dedicated to dust collection and sealing the system. The box is divided in 2 parts:

- The dust collection section
- Independent storage for spare parts or tools

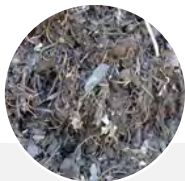
## The SORT' BOX

This space is composed of density air tables, sieving tables and magnetic pulleys, which is similar to larger scale recycling lines. 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.

## APPLICATION SPECIALTIES



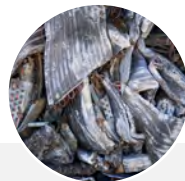
CABLES



SHREDDED WIRES



TRANSFORMER WIRE



RADIATORS



## COMPOSITION

SHREDDING



Compact Shredder : BDR 1245

GRANULATION



x 2 Compact Granulators:  
BAT 845



x2 Air Density Tables:  
T600 x 1200

SORTING



x 2 Sieving Tables:  
TAM 700

FERROUS  
EXTRACTION



Magnetic Separator

## Advantages

### COMPACT & GREEN

- Turnkey cable recycling line within containers
- Designed with an enclosed style system to reduce dust emissions drastically
- Intuitive and integrated monitoring system

### MINIMUM SIZE - MAXIMUM EFFICIENCY

- Feeding either by crane or dosing conveyor
- MTB's Heavy Duty machines
- Designed to reach up to 3 metric tons per hour capacity - may vary upon cable quality
- Output products: ferrous, non-ferrous and plastic

### PLUG & RECYCLE

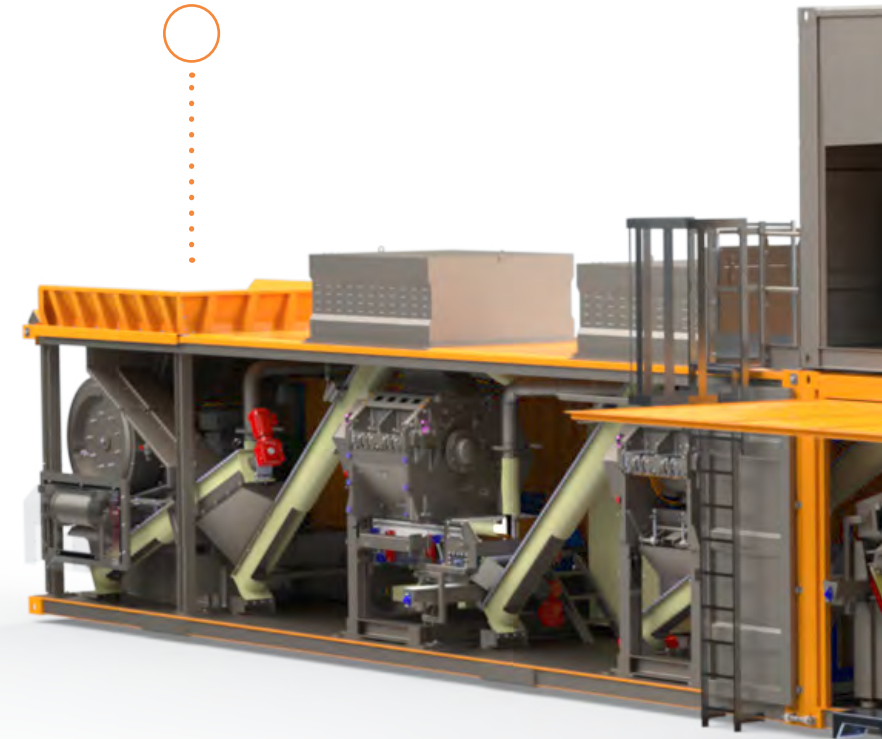
- User-friendly, just plug in and start recycling
- 1 assembly operation only: the external 11 770 CFM dust extraction unit (20 000 m<sup>3</sup>/h)
- Personalized customer support: Training of operators before BOX installation

### OPTIONS

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

## CAPACITY

From **1 to 5 T/h**



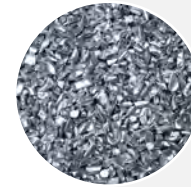
# CLASSIFIED OUTPUT PRODUCTS\*



BIG COPPER



FINE COPPER



ALUMINUM



NFE FLAKES



PLASTIC



FERROUS INSERT

\* Classified non ferrous grades; ferrous; plastics

CABLEBOX

# Technical Data



## Main equipment specs.

TECHNICAL DATA	CABLEBOX	SHRED'BOX 40'	SORT'BOX 20'	AIR'BOX 40'	10' CONTAINER	PRESHREDDER	GRANULATOR
Length	80' 05" / 24,40 m	39' 12" / 12,19 m	19' 10" / 6,06 m	39' 12" / 12,19 m	9' 81" / 2,99 m	-	-
Width	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	-	-
Height	19' 20" / 5,80 m	9' 6" / 2,90 m	9' 6" / 2,90 m	9' 6" / 2,90 m	9' 6" / 2,90 m	-	-
Power	500 Hp / 375 kW	345 Hp / 253 kW	35 Hp / 26 kW	125 Hp / 90 kW	-	125 Hp / 90 kW	100 Hp / 75 kW
Weight	121 000 lb / 55 T	66 000 lb / 30 T	22 000 lb / 10 T	24 000 lb / 10 T	6 600 lb / 3 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" / 1 245 mm	32" / 800 mm
Blades	-	-	-	-	-	24	28

Non contractual data







# CAPACITY

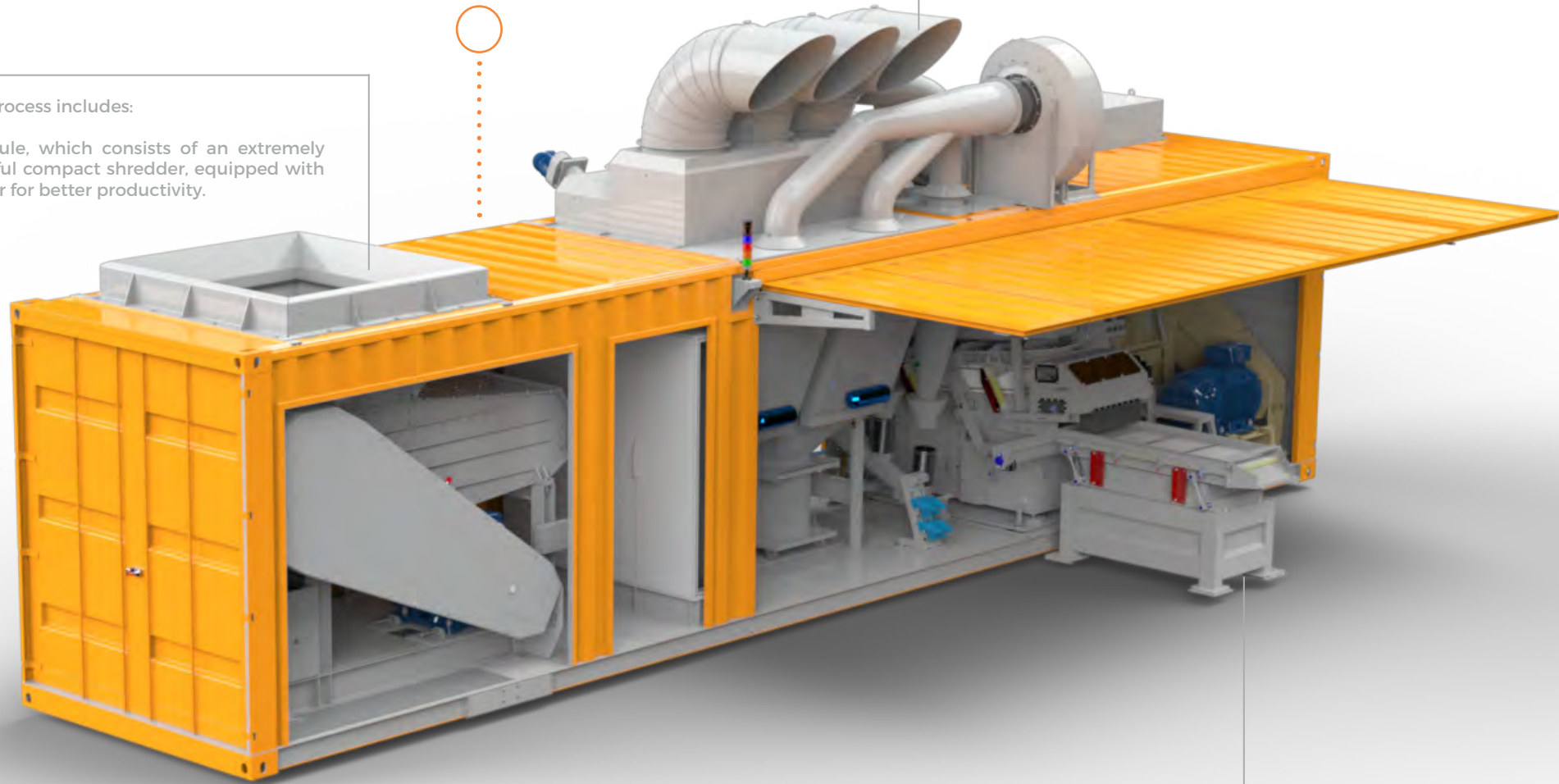
up to **2 T/h**

## AIR DEDUSTING SYSTEM

### 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.



### 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.

## APPLICATION SPECIALTIES



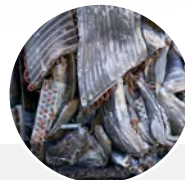
CABLES



SHREDDED  
WIRES



ACSR



RADIATORS



INDUSTRIAL WASTE



# COMPOSITION

## SHREDDING



Compact Shredder : BVR 1200

## GRANULATION



Compact Granulator :  
BAT 845

## SORTING



Air Density Table :  
T600 x1200



Sieving Table :  
TAM 700

## FERROUS EXTRACTION

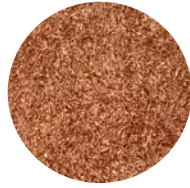


Magnetic Separator

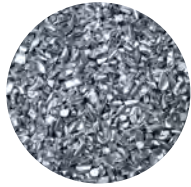
# CLASSIFIED OUTPUT PRODUCTS\*



BIG COPPER



FINE COPPER



ALUMINUM



NFE FLAKES



PLASTIC



FERROUS INSERT

\* Classified non ferrous grades, ferrous, plastics



CABLEBOX ONE



# Advantages

## 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
- Designed to reach up to 0,5 to 2 tons per hour capacity may vary upon cable quality
- Output products: ferrous, non-ferrous and plastic
- Automatic bin feeder with visual control and level sensor

## COMPACT & GREEN

- Turnkey cable recycling line in a container
- Designed to reduce dust emissions drastically
- Intuitive and integrated monitoring system

## PLUG & RECYCLE

- User-friendly, just plug in and start recycling
- No assembly operation, time is money!
- Training of operators before BOX installation





# Technical Data



TECHNICAL DATA	CABLEBOX ONE	SHREDDER	GRANULATOR	AIR DEDUSTING SYSTEM
Length	40' / 12,2 m	-	-	-
Width	8' / 2,44 m	-	-	-
Height	9,5' / 2,89 m	-	-	-
Power	300 Hp / 220 kW	50 Hp / 110 kW	100 Hp / 75 kW	-
Weight	64 000 lb / 30T	18 700 lb / 8,5T	12 000 lb / 5,5T	-
Cutting diameter	-	485 mm / 19"	607 mm / 24"	-
Rotor length	-	1200 mm / 47"	800 mm / 32"	-
Blades	-	24	28	-
Air flow	-	-	-	8500 m3/h - 5000 cfm

Non contractual data

### The SHRED' BOX

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.

### APPLICATION SPECIALTIES



TIRES



TDF



### The AIR' BOX

In order to maintain a quick process and easy installation procedures, MTB has equipped the system with an air filtration unit in a separate container. Despite its relative compactness, the AIR'BOX contains a powerful dust collection system essential for an optimized separation of products.

### The 10' CONTAINER

The 10' container is dedicated to dust collection and sealing the system. The box is divided in 2 parts:

- The dust collection section
- Independent storage for spare parts or tools

**CAPACITY**  
up to **2 T/h**



### The SORT' BOX

This space is composed of density air tables, sieving tables and magnetic pulleys, which is similar to larger scale recycling lines. It allows the recovery of sorted material at the end of the process as follows: steel wire, fine and big rubber granulate, and textile fiber.

OPTION



### GATOR BOX

The Gator Box incorporates, in its 20-foot container, the RSX, a two-rotor grinder that can be used both as a rotary shear and a shredder. Its high cutting power and robust reducers allow the RSX to crush a wide range of complex kinds of waste:

Tires, E-Scraps, Large Household Appliances non-cold waste (LHA non-cold), NHIW In order to reach optimal productivity, the Gator Box provides a quick access to the RSX shafts, allowing an easy replacement without disassembling the hopper.





## COMPOSITION

## CLASSIFIED OUTPUT PRODUCTS\*

\* Classified non ferrous grades, ferrous, plastics

### SHREDDING



Compact Shredder : BDR 1245

### GRANULATION



x 2 Compact Granulators :  
BAT 845

### SORTING



x2 Air Density Tables :  
T600 x1200

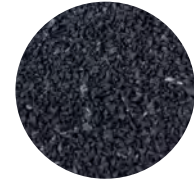
### FERROUS EXTRACTION



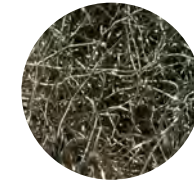
Magnetic Separator



BIG RUBBER



FINE RUBBER



STEEL WIRE



TEXTILE FIBER



# Advantages

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## 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
- Designed to reach up 2 tons per hour capacity may vary upon tire quality
- Output products: rubber granulate, steel wire and textile
- Automatic bin feeder with visual control and level sensor

## OPTIONS

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

## PLUG & RECYCLE

- User-friendly, just plug in and start recycling
- 1 assembly operation only: the external 11 770 CFM dust extraction unit (20 000 m<sup>3</sup>/h)
- Personalized customer support: Training of operators before BOX installation

## COMPACT & GREEN

- Turnkey cable recycling line in a container
- Designed to reduce dust emissions drastically
- Intuitive and integrated monitoring system





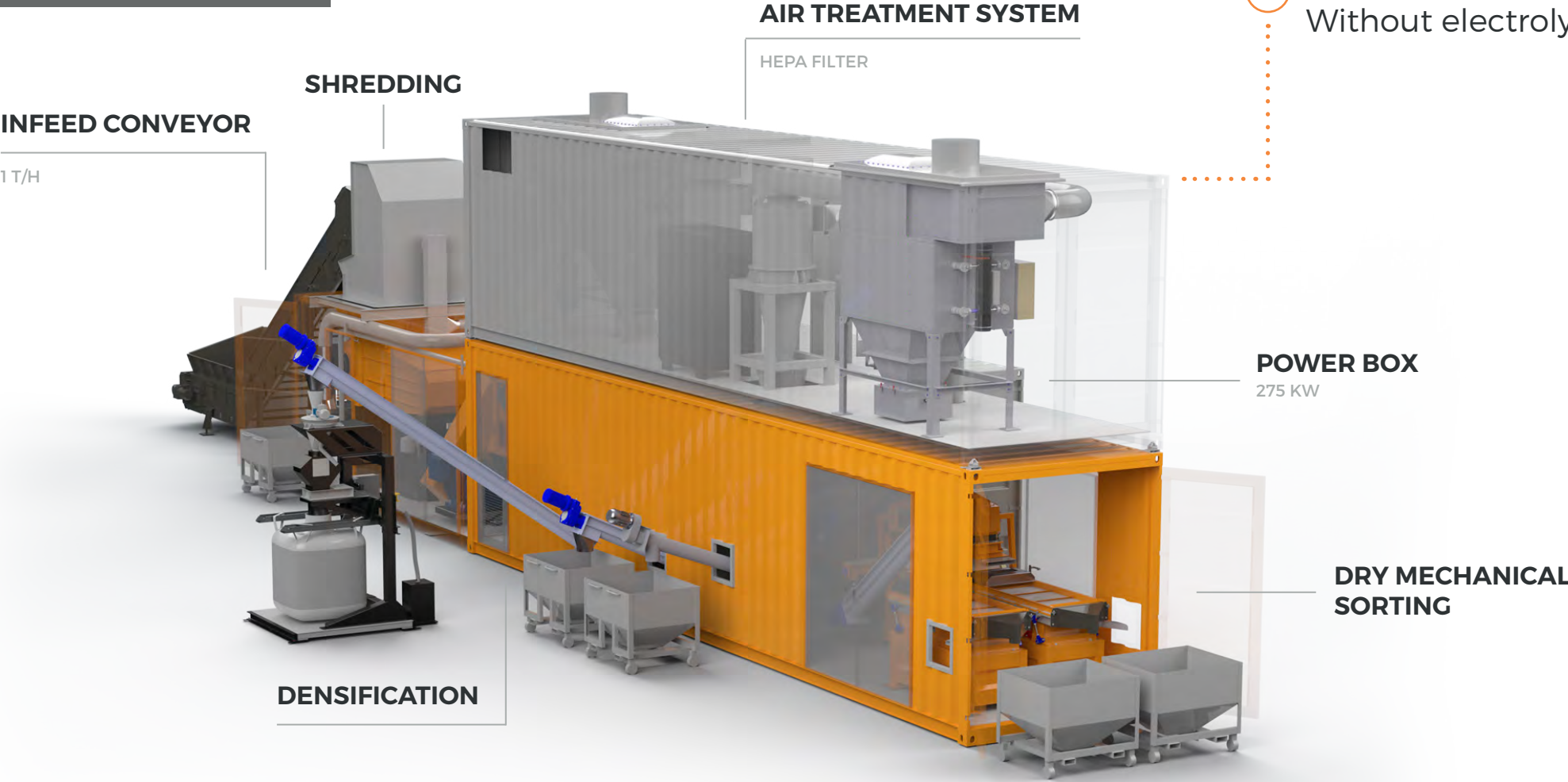
# Technical Data



TECHNICAL DATA	TIREBOX	SHRED'BOX 40'	SORT'BOX 20'	AIR'BOX 40'	10' CONTAINER	GATOR BOX	Main equipment specs.		
							PRESHREDDER	GRANULATOR	SHEAR & RIPPER
Lenght	80' 05" / 24,40 m	39' 12" / 12,19 m	19' 10" / 6,06 m	39' 12" / 12,19 m	9' 81" / 2,99 m	19'10" / 6,06 m	-	-	-
Width	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	8' / 2,44 m	-	-	-
Height	19' 20" / 5,80 m	9' 6" / 2,90 m	9' 6" / 2,90 m	9' 6" / 2,90 m	9' 6" / 2,90 m	9'6" / 2,90 m	-	-	-
Power	500 Hp / 375 kW	345 Hp / 253 kW	35 Hp / 26 kW	125 Hp / 90 kW	-	74 Hp / 2 x 55 kW	125 Hp / 90 kW	100 Hp / 75 kW	74 Hp / 75 kW
Weight	121 000 lb / 55T	66 000 lb / 30T	22 000 lb / 10T	24 000 lb / 10T	6 600 lb / 3T	49 000 lb / 22 T	16 000 lb / 7,5T	12 000 lb / 5,5T	42 000 lb / 19 T
Cutting diameter	-	-	-	-	-	-	16.5" / 415 mm	24" / 607 mm	21" / 545 mm
Rotor length	-	-	-	-	-	-	49" / 1 245 mm	32" / 800 mm	46" / 1 160 mm
Blades	-	-	-	-	-	-	24	28	20

# BATTERY SCRAP RECYCLING

Without electrolyte

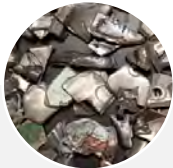


## APPLICATION SPECIALTIES

## CLASSIFIED OUTPUT PRODUCTS\*



BATTERY SCRAP



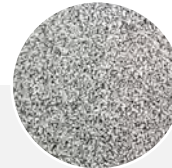
CASINGS



BLACK MASS



LIGHT PLASTIC FOILS



ALUMINUM



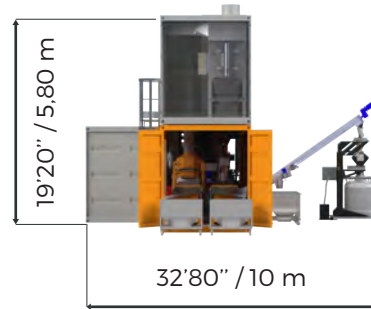
COPPER

\* Classified non ferrous grades, ferrous, plastics



# Advantages

- Compact turnkey system
  - Rapid and easy installation and startup
  - Complies security norms
  - Centralized control cabinet POWERBOX
  - High quality of output products
- 
- Custom-made MTB concept
  - Duplicated robustness of our large scale installations
  - Depth sorting of cases or foils baling option available
  - Training and ultra-responsive customer service





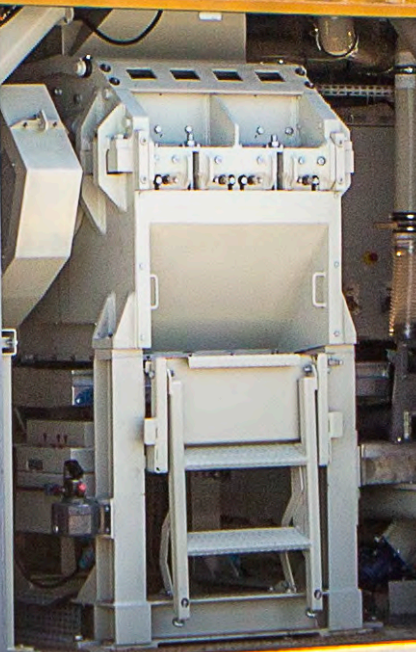






SGCU 333083 2  
25G1

MAX GROSS	30,480 KG 67,200 LBS
TAKE	2,315 KG 5,100 LBS
NET	28,165 KG 62,100 LBS
CU CAP	174 CU M 6,152 CU FT





# A keen sense of customer service

## Listening, technical expertise, support

As both a manufacturer and operator of recycling equipment, we completely understand the daily operations of our customers. This is why we support you from the beginning of your project, during the commissioning of your equipment and throughout the operation of your machine or line until the training of your teams.

## Make your project a reality

Our technical-sales team helps you to define your needs. With expertise in a wide range of recycling processes, they will advise you to define and build your customized projects.

Our engineers will study your constraints and characterize your products in order to develop the recovery process that fits to your needs.

## Installation, commissioning and training

Our team of MTB technicians travel the world to commission your installations. Specialized in maintenance and repairs, they will support and advise you in your daily activity.

Our Training & Coaching team, made up of process experts, trains your employees after commissioning the machines to give them the keys to success. The team ensures that your employees master all the parameters of our equipment for an optimized performance.

## Customer service

Available and reactive, the customer service team is at your side to give advice, organize a breakdown service, a maintenance operation and provide you with wear parts within a short time.

To improve your yields and avoid any unexpected maintenance, our experts set up periodic preventive maintenance controls. Our annual orders provide more fluidity and serenity in the management and delivery of your spare parts, ensuring your deliveries are scheduled in advance.



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