

TIRE BOX

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.

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.

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



COMPOSITION

SHREDDING



Compact Shredder : BDR 1245

GRANULATION



x 2 Compact Granulators :
BAT 845

SORTING



x2 Air Density Tables :
T600 x 1200



x 2 Sieving Tables :
TAM 700

FERROUS
EXTRACTION



Magnetic Separator

CLASSIFIED OUTPUT PRODUCTS*

* Classified non ferrous grades, ferrous, plastics



BIG RUBBER



FINE RUBBER



STEEL WIRE



TEXTILE FIBER

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 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 11770 CFM dust extraction unit (20 000 m³/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



TIREBOX

Technical Data



| TECHNICAL DATA | TIREBOX | SHRED'BOX 40' | SORT'BOX 20' | AIR'BOX 40' | 10' CONTAINER | GATOR BOX <small>OPTION</small> | Main equipment specs. | | |
|------------------|-------------------|-------------------|------------------|-------------------|----------------|------------------------------------|-----------------------|------------------|---|
| | | | | | | | PRESHREDDER | GRANULATOR | SHEAR & RIPPER <small>OPTION</small> |
| Lenght | 80' 05" / 24,40 m | 39' 12" / 12,19 m | 19' 10" / 6,06 m | 39' 12" / 12,19 m | 9' 8" / 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 / 54T | 66 000 lb / 31 T | 22 000 lb / 9 T | 24 000 lb / 11 T | 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" / 1160 mm |
| Blades | - | - | - | - | - | - | 24 | 28 | 20 |