



MTB-Recycling . QUARTIER DE LA GARE
38460 TREPT . FRANCE

BAT 1600 U



1. DESCRIPTION:

BAT Granulators cut the pre-shredded scraps to final product size.

The BAT is of extra heavy construction, with a large rotor diameter providing high torque and reduced power cost.

This, combined with its unique multiple edge blades, give the BAT much lower operating costs than any other design.

**THE GRANULATOR CAN NOT PROCESS MASSIVE METALLIC PARTS
(MAXIMUM THICKNESS 15mm)**

2. TECHNICAL SCHEDULES:

<u>Type:</u>	BAT 1600 U
<u>Power:</u>	160 kW + 1, 5 kW (for the vibrating extractor)
<u>Motor speed:</u>	1 000 Rpm
<u>Rotor speed:</u>	400 Rpm
<u>Rotor diameter:</u>	640 mm
<u>Weight:</u>	14 tons
<u>Cutting blades:</u> ..	40 moving blades 16 fixed blades
<u>Screen:</u>	1 screen of about 50 Kg – easy Change with an hydraulic jack
<u>Production:</u>	2 to 8 T/h depending on Screen and on products to be shred

3. DESCRIPTION OF FURNITURES:

The BAT 1600 U is equipped with 56 identical blades (40 on the rotor and 16 fixed) which can be used 4 times thanks to the multiple cutting edge design of this part.

The blades can produce 150 to 500 tons per edge.

It is also fitted with a screen which can work till 5 000 tons.

These blades and screens are the only wearing parts of this shredder.



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4. STRUCTURE OF THE BUILDING :

The shredder doesn't need any specific fixation on the ground.

It is recommended to dispose the shredder on a 150mm thick reinforced concrete screed.

60 Shore Neoprene pads are supplied with the machine and need to be inserted between the frame and the concrete screed.

5. TRANSPORT :

The shredder is delivered in several parts which are the main units already pre-assembled.

The weight of the biggest part is 9 tons.

For transportation, the machine needs to be settled in a 20" open top container.

6. INSTALLATION AND STARTING :

In our offer are not included:

- Installation and starting,
- Electric board,
- Electric cables and connections.

The starting of the machine can require one of our technicians, to be planned when ordering.

7. CONTROL:

An electric control can be made through a main electrical control cabinet which can be delivered as an option with the shredder.



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8. SPARE PARTS / MAINTENANCE :

THE FOLLOWING DATAS ARE GIVEN FOR INFORMATION ONLY.
MANY OTHER PARAMETERS CAN LEAD TO MODIFICATIONS.

BLADES	
Quantity	56 blades
Lifetime before turning around	From 150 to 500 tons
Number of use	4 times (1 on each cutting edge)
Total lifetime	From 600 to 2 000 tons
Price	About 29 USD per blade
Time for changing blades	About 3 hours with 1 person

SCREEN	
Quantity	1 screen
Lifetime	From 3 000 to 6 000 tons
Price	About 1400 USD
Exchange	About ¼ hour

SCREWS + GREASING	
Lifetime	To be changed with the blades
Price	About 200 USD

DEPRECIATION : the machine is thought to work for 50 000 hours, means 20 years.



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9. GENERAL INFORMATION :

- Sound level: The sound level depends directly on the kind of materials that will be processed.
The medium level is 80 dB at 1 meter away from the empty machine (noisier when full)
- Discharge: Vibrating extractor
- Electric motors: For shredder, 160 kW, 400 V, 50 Hz, 1 000 Rpm.
For motorization of the vibrating extractor, 1,5kW, 400V, 50 Hz, 1 500 Rpm
- Greasing: 1 greasing every 100 working hours for the bearings of the rotor.
- Special equipment: NONE
- Using slot: Can be used in outside temperatures from -15°C to $+40^{\circ}\text{C}$.
and a medium hygrometry of 65%
- Running: 24 hours a day, 7 days a week.
- Cleaning: Can be done with a high pressure nozzle.
- Qualifications required for employees:
1 man without any special skills in charge of materials feeding
1 technician to head up the maintenance.

10. GRANULE SIZE:

The granule size depends directly on the kind of screen which is fixed on the shredder, and this choice is up to the customer's requirement.



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