



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



## BDR 2400 U



## **1. DESCRIPTION:**

For 20 years, M.T.B. has developed reinforced Pre-Choppers called BDR.

The BDR range is the largest Pre-Choppers offered in the current international market.

BDR size range BDR 645, BDR 945, BDR 1600 and the largest BDR 2400 U (2400 mm denotes the feed hopper length).

The key feature of these Pre-Choppers is that they can handle large volumes of raw scrap, with reduction as fine as 5mm.

The BDR 2400 U is the most efficient of all and its technology is exceptional. The BDR 2400 U represents 20 years of R&D, and actual experience on the job processing at MTB's Trept, France wire chopping line. The BDR 2400 U is the ultimate proof of MTB's knowledge in the non ferrous Pre-Chopping and processing industry.

Our BDR shredders are able to process:

- Copper & Alum Cables
- ACSR
- Aluminium Scrap
- Wooden Spools
- Pallets
- Carpets
- Tires
- ICW/ASR
- Copper/Alum Rads
- Purges
- Electronics
- Industrial Wastes

## **2. TECHNICAL SCHEDULES :**

<u>Type:</u> .....	BDR 2400 U
<u>Power:</u> .....	220 kW (300HP) + 5.5 kW for the vibrating extractor
<u>Motor speed:</u> .....	1000 Rpm (900 Rpm NEMA if 60 Hz)
<u>Rotor speed:</u> .....	125 Rpm
<u>Section:</u> .....	2350 x 450 mm
<u>Opening field of the bin feeder:</u> .....	2350 x 850 mm
<u>Weight:</u> .....	about 26 tons
<u>Cutting blade:</u> .....	36 moving blades 12 fixed blades
<u>Screen:</u> .....	1 screen of about 250 Kg – easy change with a hydraulic jack
<u>Production:</u> .....	up to 20 T/h depending on screen and on products to be shred



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EUROPEAN FINE RECYCLING ASSOCIATION



THE ORIGINAL RECYCLERS



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### **3. DESCRIPTION OF FEATURES:**

The BDR 2400 U is equipped with 48 identical blades which can be rotated 4 times. The blades can produce 200 to 500 tons per edge (even more with larger screens, we have several customers using 50-100mm screens that go 4-5 million lbs per edge). It is also fitted with a screen that has a wear life of up to 10 000 tons. Blades and Screens are the only major wear parts of this Pre-Chopper.

### **4. STRUCTURE OF THE BUILDING:**

The Pre-Chopper is built on a frame of 3550 mm x 3500 mm (12' X 12'). The only preparation is a minimum 15' (feet) X 15' (feet) X 3" (inch) levelled and reinforced concrete pad. No need for bolting the Pre Chopper down, the design allows the BDR 2400 U to rest upon 6 Neoprene pads between it and the concrete pad. The BDR is stable and will not walk or shift.

### **5. TRANSPORT:**

The shredder is delivered in several parts which are the main units already pre-assembled. The weight of the biggest part is 18 tons. The transport requires one 40' open top container and one 20' open top container.

### **6. INSTALLATION AND STARTING:**

Our offer does not include:

- Electric cables and connections before main control panel
- Rental of equipments to unload and install the machine
- Assembly of the BDR

### **7. \*OPTIONAL CONTROLS:**

- \*- Main Control Cabinet, PLC Touch Screen
- \*- Soft Start, VFD, E-Stops
- \*- Downstream Equipment Connectivity
- \*-Remote assistance via VPN connection



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## 8. SPARE PARTS / MAINTENANCE:

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

<b>BLADES</b>	
Quantity	48 blades
Lifetime before rotating	From 150 to 500 tons
Number of use	4 times (1 on each edge of the cut)
Total lifetime	From 600 to 2 000 tons
Price	About \$29.00 per blade (price subject to change)
Time for changing blades	2 hours with 2 people

<b>SCREEN</b>	
Quantity	1 screen in 2 parts
Lifetime	From 5 000 to 15 000 tons
Price	About \$2500.00 per set (Price subject to change)
Time for changing	About 45 minutes

<b>SCREWS + GREASING</b>	
Lifetime	To be changed with the blades
Price	About \$150.00 (Price Subject to change)



OPERATING COST'S: Approximately .05 cents per ton



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DEPRECIATION: 50,000 hours or Twenty Years.



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## **9. GENERAL INFORMATION:**

- Sound level: The sound level depends directly on which materials are shredded.  
The medium level is 80 dB at 1 meter away, empty machine
- Discharge: Vibrating extractor
- Electric motors: For shredder, 200 kW, 400 V, 50 Hz, 1 000 Rpm (or 900 Rpm NEMA if 60 Hz).  
For motorization of the vibrating extractor, 5.5 kW, 400V, 50 Hz, 1 500 Rpm
- Greasing: 1 greasing every 200 hours working for the bearings of the rotor.
- Special equipment: NONE
- Using slot: Can be used in outside temperatures from  $-15^{\circ}\text{C}$  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. REDUCTION:**

The reduction depends directly on the kind of screen which is fixed to the Pre-Chopper, and this choice is up to the customer's requirement. 1"1/4 (30mm) to 2" (50mm) are the primary customer choices.



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