

**INTRODUCING!**

# **CBI MAGNUM CHIPPER**



**LARGE FEED OPENING FOR BRUSH  
AND OVERSIZED LOGS**

**LOWEST OPERATING COST**

**UP TO 600 CY PER HOUR**

**EASY MAINTENANCE**

**EASILY CONVERTED TO WASTE HOG**



- ⇒ **Caterpillar 3412 Electronic  
1050 HP Engine**
- ⇒ **Oversized Radiator**
- ⇒ **48" Diameter, 60" Long Heavy-  
duty Drum Rotor with two  
Rows of 60" Knives**



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## SPECIFICATIONS

***The following Magnum Drum Chipper is one of the largest mobile drum chippers in the world providing high volumes of chips for the boiler fuel market.***

### FEED CONVEYOR

16' x 60" Feed Conveyor with high troughing sides; impact plate in bottom; 18" head and tail pulleys; 440, 4-ply belt; hydraulic drive through gearbox.

### FEED SYSTEM AND HOG BOX

- Heavy-duty reinforced housing with bolt-in replaceable wear liners.
- 100% weld on all framing and supports on Hog box
- 40" diameter upper feed roller; high-torque Poclain hydraulic motor built into roller; hydraulic up and down pressure.
- 18" bottom feed roller; 3" shaft bearings, high torque planetary gear drive.
- Extra heavy duty swing-away screen frame made of Hard Ox 400

### CHIPPER DRUM

- 48" diameter x 60" long steel Chipper Drum
- 2 knife pocket assemblies
- (4) 30" long bolt-in knives
- (4) 30" long counter knives
- (4) 30" long wear plates
- 32 knife studs to hold knife clamps and chipper knives.
- 7" shaft with B-Loks, roller bearings.
- Adjustable cutting anvil with easy removal and replacement.
- Drum weight 10,400 lbs.

### ENGINE

Caterpillar 3412 **Electronic Diesel Engine** rated, 1050 HP at 2200 RPM with electric start, turbo charged and after cooled. The engine is equipped with:

- Twin Disc model HP900 extra heavy-duty PTO hydraulic clutch with outboard support bearing, electronic controlled engagement.
- Donaldson Air Filtering System with Enginaire Pre-Cleaners.
- 8" Critical Silencer.
- Electric dual battery 24 volt DC system
- Emergency shut down and all weather control enclosures.
- Extra-Large Copper Core® Radiator with 54" Fan

### DISCHARGE CONVEYOR

50' x 60", 20" troughing idler conveyor; 16" head pulley, lagged; 2 15/16 shaft and bearings; 18" wing tail pulley; 2 15/16 shaft and bearings; 5" idlers; 330, 3-ply heavy duty belt; hydraulically folded upper section; direct coupled series 6000 Char Lynn 24 HP hydraulic drive; 17'10" discharge height.

### TRAILER FRAME

Specially made wide flange structure for highest rigidity and strength; Hutchens H9700 tri-axle suspension; 3 axles, 10'6" spread; 6 sets of dual wheels to spread weight, and two front stabilizers with 5" cylinders.

FUEL TANK: 330 gallon

### HYDRAULIC SYSTEM

Complete with 80 gallon tank, 5000 psi pressure and flow compensated pump for feed system and gear pumps for feed roll up/down and discharge conveyor, valves, oil cooler, 6000 Char Lynn motor for discharge conveyor, 2000 Char Lynn motors for feed system, all neatly plumbed using steel tubing and hoses. Feed speeds vary proportionately to engine speed for maximum throughput.

### ELECTRIC

Radio remote control with digital display and run all functions of machine. Full mechanical backup of remote; 4 E-stops placed around machine; CAT engine RPM sensor that regulates feed system.

### CONTROL PANEL

- NEMA 4 enclosure
- Controls by Hydro Electric Devices (HED)
- Square D Heavy Duty Switches
- SJ cord/14 gauge, oil resistant and water proof
- Remote control for all operating functions with digital display.

### FLEXXAIRE FAN

Hydraulic Flexxaire fan, to replace Caterpillar standard fan, reverses airflow every 5-15 minutes to keep radiator clean from debris.

### FIRE EXTINGUISHER

Two 20 pound fire extinguishers mounted on machine, one on each side.

### PAINT

All appropriate surfaces (except for wear and machined surfaces) are sand blasted to S.S.P.C. SP 6-10 commercial to white finish; two coats of a three part epoxy primer to military spec and two coats of CBI yellow high gloss acrylic urethane paint.

### DIMENSIONS

Length: 48'6" in travel position  
Height: 13'-5" travel; 17'-10" operational  
Width: 11'  
Weight: 94,000 lbs.

### OPTION;

#### FIRE SUPPRESSION SYSTEM (POR)

- Three 30 lb. Dry Chemical A:B:C extinguishers.
- Twelve Sensors
- Eighteen Nozzles with stainless steel tubing
- Engine shut down hardware
- One circuit monitor alarm panel