



Magnum Force Series

Horizontal Hog

5400T

Features

- Five interchangeable chipper and grinding rotors
- Metal Release System protects rotor, anvil, and screens
- Infeed equipped with two replaceable screen sections to allow fines to be screened out before rotor or solid floor sections for mulch production
- 90° top feed roll opening for ease of maintenance
- Choice of two CAT engines 540-765 HP, or electric drive
- Road legal width and weight
- Designed for optional detachable dolly



Description

The Magnum Force 5400 is the latest offering in the new generation of grinders, where owners can select from five different field-swappable rotors to accommodate changing materials and processing demands. This unique design provides the flexibility to process an exceptionally wide variety of materials and generate the products that your clients demand – all with a single machine. To further its unique design, the PT Tech hydraulic PTO and hydraulic engagement replaces the need for a clutch.

You can go from making high quality mulch from trees and stumps, to chipping stemwood into chips in custom sizes ranging from a constant 2 mm fiber length to constant 30 mm fiber length, to grinding highly contaminated C&D or railroad ties with the tie plates attached just by swapping rotors and screens. This unbelievable versatility guarantees that you will always have the right machine for the job when market demands change and opportunities come knocking on your door. There is no machine on the planet that will give you more bang for the buck or a better return on your investment.



Hog and Interchangeable Rotors

With the push of a button, the unique design of the hog box provides service-friendly, full access for easy daily maintenance (say “goodbye” to scraped knees, sore backs, and banged heads). This feature offers a direct line to lift and remove screens, and greatly simplifies rotor removal through the top of the machine. The screen has been specially designed to be easily removed by unbolting the support plate and pulling the screen out without having to remove the screen frame. The hog chamber is a heavy-duty reinforced housing with 100% continuous welds for maximum strength and corrosion resistance. After fabrication, the hog box is line-bored for perfect fit of all components throughout the life of the machine, such as the bolt-in, Hardox 450 wear liners. An extra heavy-duty screen frame with a bolt-in Hardox 450 screen and anvil are protected by four shear pins. A large diameter upper feed roller features an extreme high-torque Poclair hydraulic motor built into the roller. The downswing rotor design of the 5400 cuts the material against a heavy duty anvil that allows it to process contaminated materials, while providing an overall extremely robust grinder.

Electronic Control Systems

The second-generation IntelliGrind control system by Parker IQAN™ provides increased monitoring, protection, and control of a significantly larger number of functions, moving the 5400 closer to the ultimate goal of a fully-automated grinder. The radio remote control, with full mechanical backup, runs all functions of the machine. All set points are easily adjusted on the operator interface screen to maximize performance.

Specifications

Feed Conveyor

Length	16' (4,477 mm)
Width	48" (1,219 mm)
Motor	High-torque Poclairn

Top Feed Roll

Motor	High-torque Poclairn
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Discharge Conveyor

Length	33' (10,058 mm)
Width	48" (1,219 mm)
Discharge Height	15' 3" (4,650 mm)
Motor	Char-lynn

Equipment Protection

Metal Detection System that automatically reverses feed system should rotor contact steel. Shear pins for anvil and screens

Shaft and Bearing

Diameter/Type	6"/SKF
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Hydraulics

Type	Hydrostatic
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Throughput

Up to 140 TPH

Engine

Engine	
Standard:	CAT C18; 765 HP (570 kW)
Option:	CAT C15; 540 HP (400 kW)

Drive	8 groove, 8-V section Kevlar® belt, with guarding
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Flexaire® Fan	Reversing pitch radiator fan that reverses airflow every 5-15 minutes automatically
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Fuel Tank

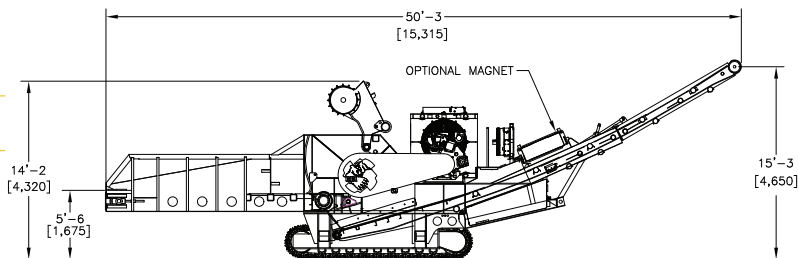
Capacity	330 gallons (1,254 liters)
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Electrical

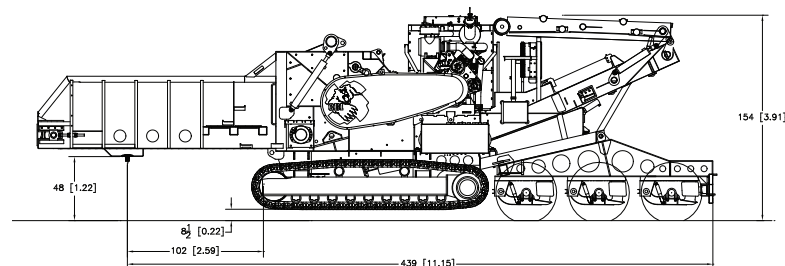
IQAN™ PLC and radio remote control for all functions; full, independent mechanical backup; IntelliGrind proportional feed system

Options

Magnetic Head Pulley	with diverter chute
Overband Magnet	hydraulic drive; with diverter chute



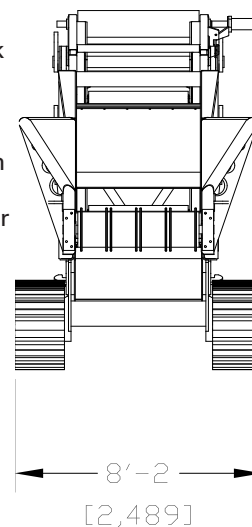
OPERATION MODE



TRANSPORT MODE

Dolly

5400 is designed to accept an optional quick disconnect 3 axle Dolly. Dolly comes with a bolt-on king pin and all electrical and air system components. It can be ordered with machine or purchased later.



The World's Most Rugged Rotors...



SOLID STEEL

16, 6"x 8" striker plates held in place by two 1-1/4" bolts, designed specifically for contaminated demolition debris, RR ties, and MSW.



FORGED DRUM

3" thick, with 20 weld on Replace-A-Face™ hammers with reversible tips for forestry debris and mulch manufacturing.



**2-POCKET
Single Twist**

Two rows of knives for average chip lengths of 3/4" to 1-1/4" to produce fuel chips from stem wood.



**2-POCKET
Multi Twist**



4-POCKET CHIPPER

Four rows of knives for short chip lengths of 1/16" to 1/2" to produce short chips from stem wood suitable for pelletizing or pulverized fuel, etc.



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World's Best Stationary and Portable Material Recovery Systems

22 Whittier Street, Newton, NH 03858

Phone: 603-382-0556 Fax: 603-382-0557

Web: cbi-inc.com Email: info@cbi-inc.com

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