



Magnum Force Series

Horizontal Hog

6400

Features

- Four interchangeable rotors: solid steel, drum, 2 pocket chipper, and 4 pocket chipper
- Metal Release System protects rotor, anvil, and screens
- Pre-screen conveyor transports fines screened out by bottom feed roll to mix with ground material or diverted to stockpile
- Clamshell opening for easier maintenance
- Track, portable, or stationary
- Choice of three CAT engines up to 1125 hp or electric drive
- Full radio remote control and full mechanical control backup
- CBI IntelliGrind™ control system
- Highest-quality components used throughout including CAT, Rexroth, Poclair, PT Tech, Brevini, Bonfiglioli, SKF, Hardox, Weldox, etc.



Description

The Magnum Force 6400 is the first of the next generation of grinders where owners can select from four 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 your clients demand—all with a single machine. Within a day, you can change from making high quality mulch from trees and stumps, to chipping stemwood into chips in custom sizes ranging from 2-50mm, to grinding highly contaminated C&D debris 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.

Feed Conveyor

The 14' long by 60" wide feed conveyor with high troughing sides facilitates the continuous feed of whole trees and large volumes of materials. Proven heavy-duty pulleys, belts, and top and bottom feed rolls provide tens of thousands of hours of trouble-free operation.

Pre-Screener

The feed system provides for pre-screening of abrasive fines and dirt prior to grinding. A bidirectional conveyor allows these fines to be mixed with ground product or be diverted forward and stockpiled.

Hog and Interchangeable Rotors

With the push of a button, the unique clamshell 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. All four available rotors are designed specifically for easy disassembly and reassembly to make rotor changes quick, easy and inexpensive.

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, 1" thick 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 roll, with its built-in high-torque Poclair hydraulic motor, is actuated hydraulically to provide adjustable grip force.

The downswing rotor design of the 6400 cuts the material against a heavy duty anvil, allowing it to process contaminated materials while providing an extremely robust grinder.

Electronic Control Systems

The second-generation IntelliGrind control system by Parker IQAN™ provides increased monitoring, protection, and control of a significantly large number of functions, moving the 6400 closer to the ultimate goal of a fully-automated grinder. The radio remote control, with full mechanical backup, runs all functions of the machine. It is set up to communicate both ways so the operator can see on the remote display all vital 6400 operating data from his loader or excavator. All set points are easily adjusted on the large operator interface screen to maximize performance.

The 6400 is built without a single compromise to be what other Grinders are not -

- Dependable
- Service Friendly
- Forgiving
- Productive
- Flexible
- Compact and Powerful

Discharge Conveyor

The hydraulically driven discharge conveyor is 33' long x 60" wide, with heavy-duty belt, head and tail pulleys. The cleated belt runs at variable speeds to accommodate high throughput and trailer loading conditions.

Power Unit

The 6400 is powered by one of three options:

- CAT C-18, 765 hp
- CAT C27, 1050 hp
- CAT C32, 1125 hp
- Electric Motors, 500 - 1000 hp for Stationary Applications

Diesel engines come equipped with:

- Extra large radiator using a Flexxaire® Auto-Reversible Fan to clean the radiator; fan pitch is tied to engine temperature to reduce HP and warm-up time, and increase fuel savings
- PT Tech extra heavy-duty hydraulic clutch with pump drive, electronic controlled engagement from remote
- CAT Air Filtering System with Enginaire Pre-Cleaners

Hydraulic Systems

The 6400 is designed using Rexroth hydrostatic closed-loop hydraulic systems on major components. This dramatically improves hydraulic system efficiency, reducing both fuel-wasting heat and the overall complexity of the hydraulic systems, while it provides perfect control of all functions.

Frame

Heavy-duty formed sections with tubular cross members properly reinforced for the highest torsional loads and strength, designed to accept tracks or axles for portability, and are prepared for hydraulic stabilizers, optional overband magnet, compressor, or metal collection bin. The portable 6400 features Super Single wheels on tri-axles and is designed to be European road legal with options that include ABS brakes, underrun protection, and a 24-volt electrical system.

Paint

All appropriate surfaces are sand blasted to S.S.P.C. SP6-10 commercial-to-white finish, epoxy primed and covered with CBI yellow high gloss Dupont® polyurethane enamel paint. All components are painted while completely unassembled for 100% coverage. After painting, the equipment is assembled using only plated, Grade-8 hardware.

The control systems are pre-wired for an optional satellite modem link that will allow a CBI Technician to have direct access to your Magnum Force 6400, where ever its location. All 6400 systems can be monitored and analyzed, and the required spare parts identified if necessary, before a technician is dispatched to your site, dramatically reducing downtime. (Service not available in all areas.)

The World's Most Rugged Rotors...



SOLID STEEL



FORGED DRUM



2-POCKET CHIPPER



4-POCKET CHIPPER

Twenty-four 6" x 8" striker 3" thick, with twenty-four Two rows of knives for chip plates held in place by two weld-on Replace-A-Face™ average chip lengths of 3/4" lengths of 1/16" to 1/2" (2 1-1/4" bolts, designed spe- hammers with reversible to 2" to produce fuel chips mm to 12 mm) to produce cifically short chips suitable for pelletizing or pulverized fuel from stem wood.

for demolition debris, RR ties, mulch manufacturing, and MSW.



Clamshell design provides full access for maintenance and a direct line to lift and remove grates. (Shown in service position.)

60" wide discharge conveyor for high volume throughput and 14' 9" discharge height for loading trailers

Mounting brackets and plumbing for overband magnet is standard

CBI proven Metal Release System with four shear pins to protect rotor, anvil, and screens

Tracks (shown) are available in 600 mm and 500 mm widths. Portable units feature Super Single wheels, providing high on-site flotation with no trapped debris or blowouts that can occur with dual-wheel systems.



Solid steel rotor with striker plates

In The Field



Grind stumps, logs, and brush into usable end products such as mulch



Chip logs into various size chips at rates up to 200 tons per hour!

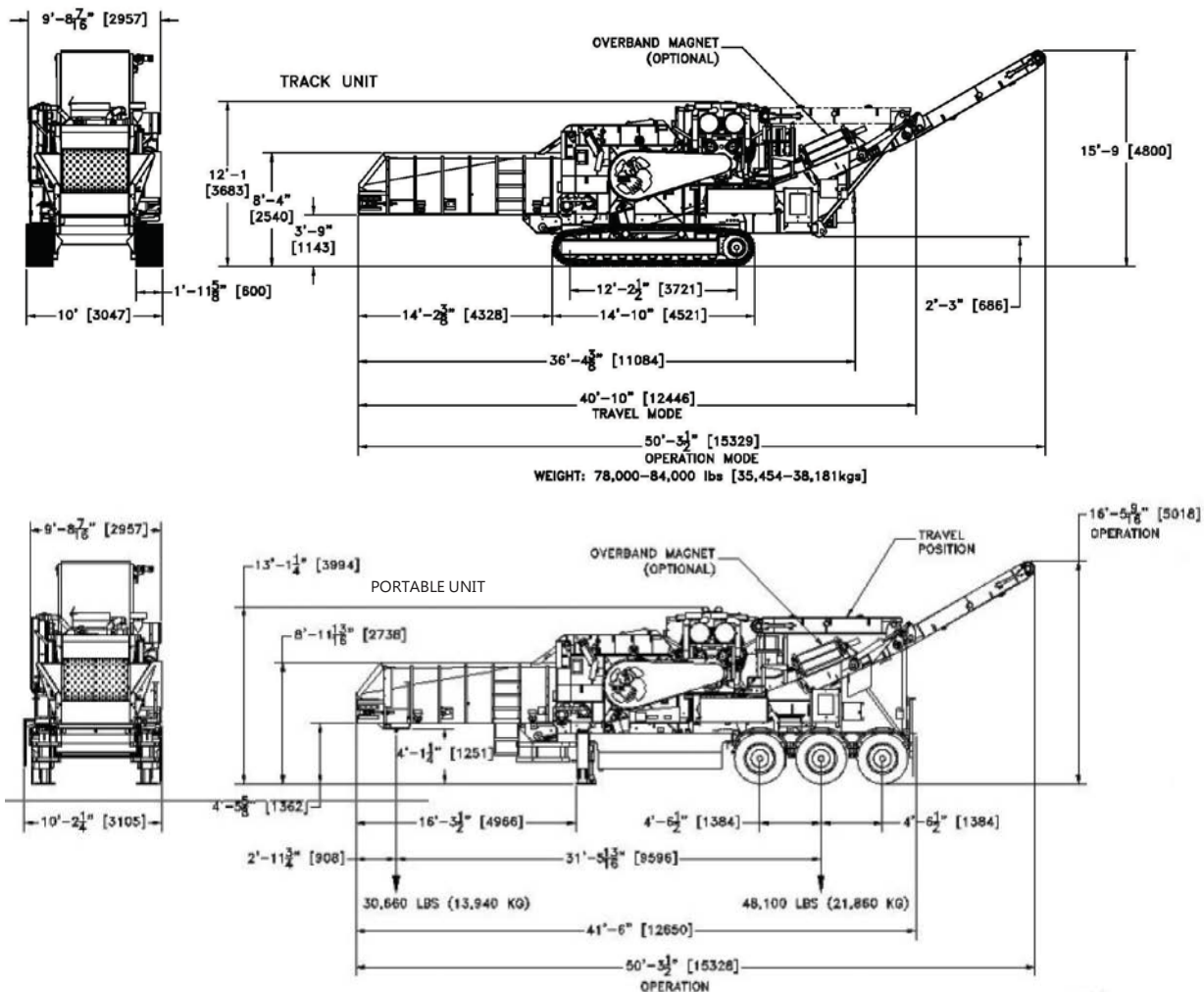


Grind ties with metal plates or contaminated C&D with the solid steel rotor and C&D screen

Specifications

Feed Conveyor	
Length	14' (4,267 mm)
Width	60" (1,524 mm)
Motor	High-torque Brevini planetary with Char-Lynn hydraulic motor
Top Feed Roll	
Motor	High-torque Poclairn
Bottom Feed Roll	
Motor	High-torque Brevini planetary with Char-Lynn hydraulic motor
Discharge Conveyor	
Length	33' (10,058 mm)
Width	60" (1,524 mm)
Discharge Height	14' 9" (4,495 mm)
Motor	High-torque Char-Lynn
Metal Release System	
	Shear pins for anvil and screens
Shaft and Bearing	
Diameter/Type	6"/SKF
Hydraulics	
Type	Hydrostatic/Rexroth, 95 gallon tank
Throughput	
	Up to 200 tons/hour (182 metric tons/hr.)
Fuel Tank	
	450 gallons (1,701 liters)

Power	
Engine	
Standard:	CAT C27; 900-1050 hp
Options:	CAT C18; 700-765 hp CAT C32; 1050-1125 hp
Stationary:	500-1,000 HP electric
Drive	12 groove, 8-V section Kevlar® belt, with guarding
Flexxaire® Fan	Reversing pitch radiator fan that reverses airflow every 5 minutes automatically, adjustable
Electrical	
	Radio remote control for all functions; full, independent mechanical backup; IntelliGrind automatic variable speed feed system
Options	
Magnetic Head Pulley	with diverter chute
Overband Magnet	hydraulic drive; with diverter chute
Air Compressor	
Tracks	Berco track frames with Bonfiglioli planetary and Rexroth motors; 2-speed option; 500 mm and 600 mm track width options
Wheels	Super Single wheels on tri-axes



The CBI difference: Fuel the Future™

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