



# Magnum Force Series

## Horizontal Hog

# 5800

### Features

- Compact
- Powerful
- Highly Productive
- Highest-Quality Construction
- CAT C-18, 765 HP or Electric Drive
- Portable, Stationary or Track Mounted
- Width & Weight Legal
- Optional Detachable Transport Dolly
- MDS (Metal Detection System)



### Description

The Magnum Force 5800 grinder is engineered for land clearing and logging companies, yard waste, demolition wood processors, and mulch yards who demand high-volume throughput and maximum reliability. The 5800 features a high lift upper roll for ease of maintenance; high torque, hydrostatic feed system; PT Tech PTO; and a 765 HP Caterpillar engine. High-strength drum rotor and anvil/screen system is protected by CBI's unique hydraulic release system that also make screen changes fast and easy. The entire system is controlled by CBI's IntelliGrind logic incorporating a variable infeed speed that automatically adjusts to engine load and an optional modem communications system that provides for real-time system diagnostics (provided proper cell coverage is available).

### Hog & Rotor

Bolt-in, replaceable 1" thick Hardox 450 wear liners fully protect the inside of the hog box and simplify maintenance. Other features include a 30" diameter upper feed roller with a built in high-torque MS35 Poclain hydraulic motor; hydraulic up and down pressure; 16 weld-on hammers with bolt-on reversible tips. Tips are arranged in a patented offset helix pattern that cuts the full width of the rotor, drastically increasing throughput over competitors' conventional pinned rotor design. CBI's Replace-A-Face™ hammer system allows operators to swap out the face independent of the rest of the hammer for quick, easy, and inexpensive repairs. Different tip widths and heights are available to change the cutting gap. The upper feed roll pivot also has replacable wear plates.

The rotor housing features the same spider bracing, rigged bearing housing, and cross members as CBI's larger machines. Large diameter pins and bushing are used for grate frame and top roll arm hydraulic cylinders. All holes are line bored to the highest tolerances, ensuring long bearing life and that parts fit as designed now and for the life of the machine. The rotor adheres to CBI's proven formulas for geometry and speed to maximize production rates while maintaining fuel economy. The rotor rides on the same bearings used in CBI's full sized machine which are capable of withstanding more than 1050HP.

### Frame

The frame accepts tracks, axles, or a quick-disconnect detachable dolly for portability and is prepared for hydraulic stabilizers, optional overband magnet, metal collection bin, or compressor - options can be added at anytime. The machine frame is constructed of hardox and weldox high-grade steel.

### Engine

Powered by a CAT C-18, 765 hp or electric motor for Stationary Applications, the diesel engine comes equipped with an extra large AKG radiator; auto-reversible fan; PT Tech extra heavy-duty PTO; and CAT Air Filtering System with Enginaire Pre-Cleaners. The engine features CBI's unique clutch-less design resulting in lower maintenance costs and weight. The entire engine carriage slides to automatically tension or release the belts.

# Magnum Force 5800 - High Volume Throughput and Maximum Reliability

## Feed & Discharge Systems

The 48" wide feed conveyor features high-troughing sides facilitating continuous feed; impact plate in bottom; head and tail pulleys; 4 strands of heavy-duty drag chain; and an extreme high-torque Poclain hydraulic motor. The open-ended design and large capacity simplifies feeding full-length materials and accommodates large material surges. The upper roller with internal drive has a crush force that is adjustable by radio control. The entire feed system is load regulated. There is also a diverter pan that allows for abrasive fines to bypass the rotor entirely and be fed directly to the discharge conveyor or be removed and diverted underneath the feed conveyor.

The 48" discharge conveyor is designed with forestry operations in mind. Its frame is extremely rigid and designed to keep the belt tracking straight in the most extreme off-road environments. It comes prepared for an optional bolt-in/plug-in over-band magnet for separating ferrous material. Belt scrapers are incorporated to clear debris and eliminate material packing at the pulleys.

## Hydraulics

The hydraulic system is the best money can buy. It features two hydrostatic closed loop circuits which greatly improves the hydraulic system efficiency by reducing the heat generated and complexity while providing perfect control of all machine functions, and saves on overall fuel consumption.. Each individual circuit features its own pressure filter to ensure long component life. The hydraulic cooler fan automatically reverses to purge built up debris.



## Serviceability

Downtime is further reduced by incorporating features that make regularly scheduled service convenient and quick; the rotor housing has an oversized door for easy maintenance access behind the screen. The tip and screen changes can be performed quickly in the field. The 5800 also features a 24 volt auxiliary electric pump for moving components when the engine is off. The top feed roll is an ultra-high lift design that allows unobstructed access to the rotor for maintenance; no more crawling on your knees to service the rotor!



5800 Stationary

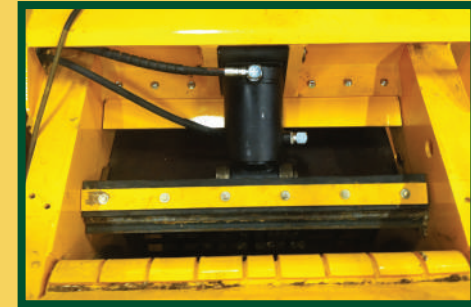


5800 Truck Mounted



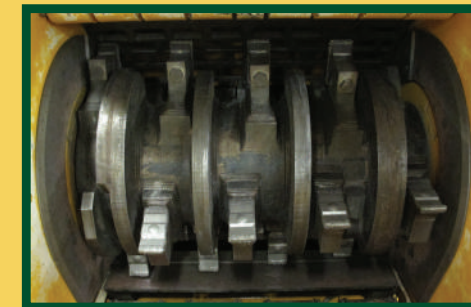
### Diverter Pan

Material that's screened out from the feed conveyor can either be diverted to the discharge conveyor or directly on the ground.



### Hydraulic Actuated Anvil & Screen

The metal detection system retracts the anvil and screen hydraulically in milliseconds should the rotor detect metal and provides for easy screen removal.



### Forged Drum Rotor

CBI's unique Forged Drum Rotor is 36" diameter x 48" long with 16 Replace-A-Face™ hammers with reversible tips for forestry debris and mulch manufacturing.

## Efficiently grind pallets, brush, stumps & logs into high-quality fuel and mulch!



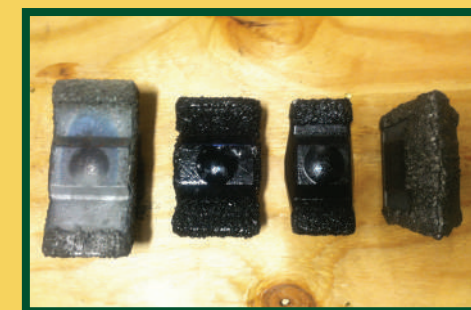
## Versatility Unmatched!

Unmatched ability to process a variety of different materials at a lower cost per ton than any machine on the market!

### Turn

- Brush, Slash & Tops
- Pallets & Construction Wood
- Stumps & Logs

Into High Quality Mulch & Fuel!



### Interchangeable Carbide Layer Tips

A variety of tips are available to maximize throughput and efficiency in all applications.

# Specifications

## Feed Conveyor

Length	15' 4" (4,673 mm)
Width	48" (1,219 mm)
Motor	High-torque Poclairn

## Top Feed Roll

Diameter	30" (762 mm)
Motor	High-torque Poclairn

## Discharge Conveyor

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

## Equipment Protection

Metal Detection System that automatically opens anvil and screen and reverses feed system hydraulically should rotor contact steel; shear pin backup.

## Shaft and Bearings

Diameter	6" (152.4 mm)
Type	Spherical #22228CCK/C3/W33 SKF

## Hydraulics

Hydrostatic high-pressure Rexroth, Sauer, Poclairn

## Tracks

Berco	D5-L (Standard) D5-HD (Optional)
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## Engine

Standard	CAT C18; 765 HP (570 kW)
Drive	8 groove, 8-V section Arimid belts with guarding
Flexxaire® Fan	Reversing pitch radiator fan that reverses airflow every 5-15 minutes automatically (adjustable)

## Fuel Tank

Capacity	360 gallons (1,368 liters)
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## Electrical

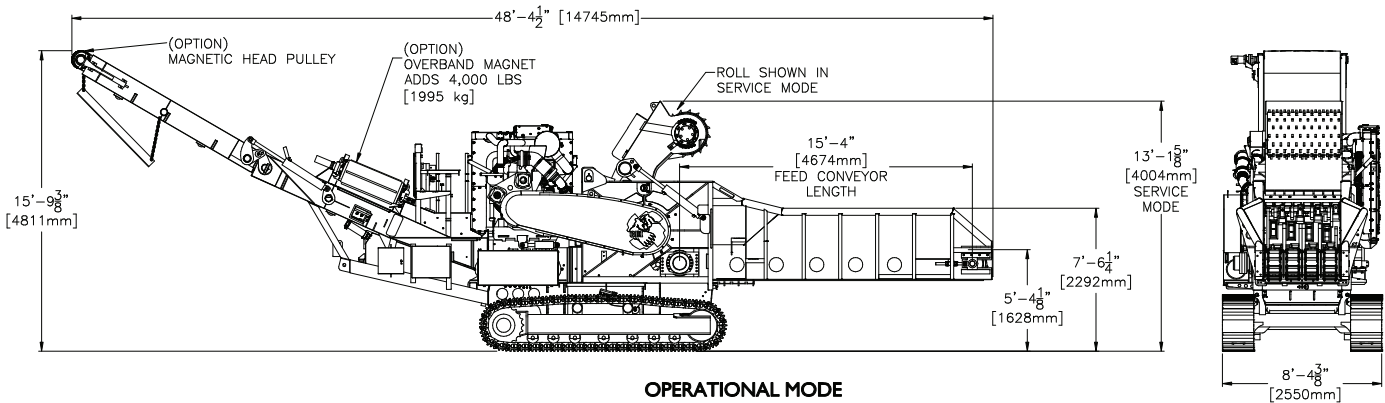
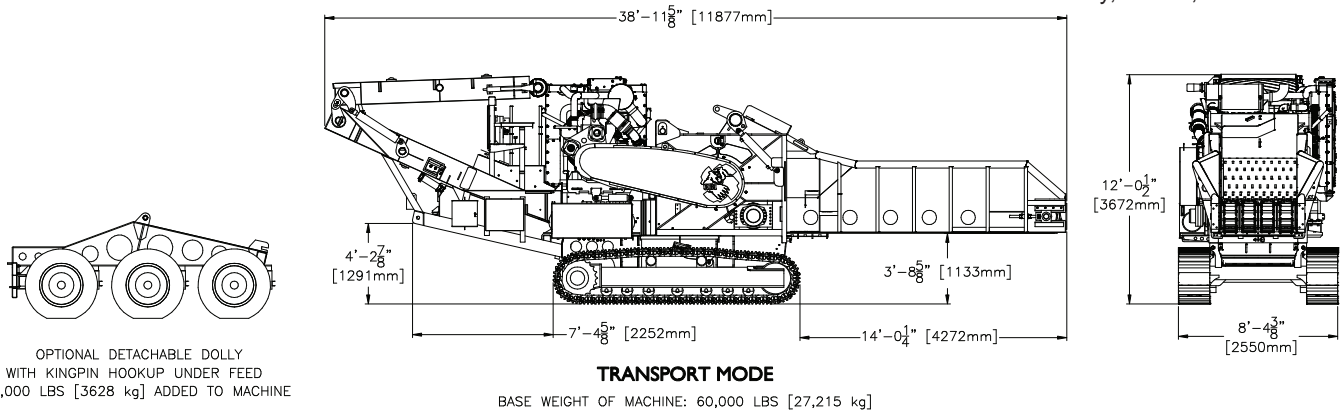
IQAN™/IMF PLC and a two-way that displays all vital machine info on remote. IntelliGrind proportional feed system

## Machine Weight

58,000-66,500 lbs.

## Options

(26,308-30163 kgs)  
Magnetic Head Pulley with Diverter Chute  
Overband Magnet  
Air Compressor  
Single or Double Grouser Pad  
Dolly, 3-Axle, Detachable



The CBI difference: Fuel the Future™

**Continental Biomass Industries, Inc.**

World's Best Stationary and Portable Material Recovery Systems

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