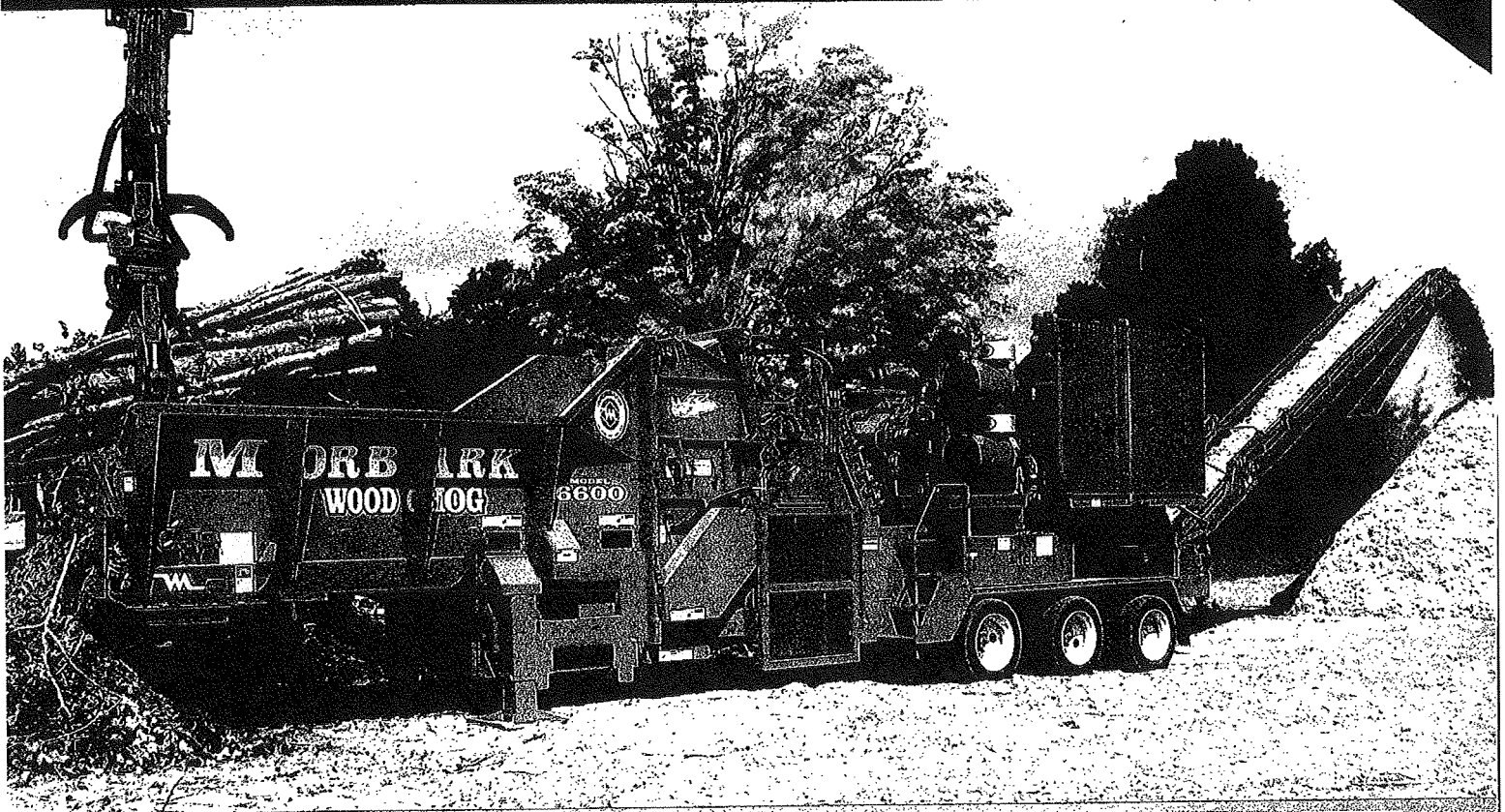




MORBARK®

BUILDING EQUIPMENT THAT CREATES OPPORTUNITIES



MORBARK® WOOD HOG

MODELS

2600
3800
4600XL
6600
7600B

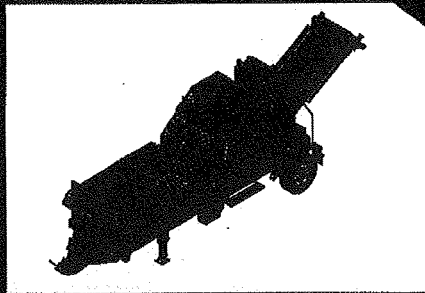
HEAVY-DUTY INDUSTRIAL HORIZONTAL GRINDERS FROM THE LEADER IN THE INDUSTRY



MORBARK®

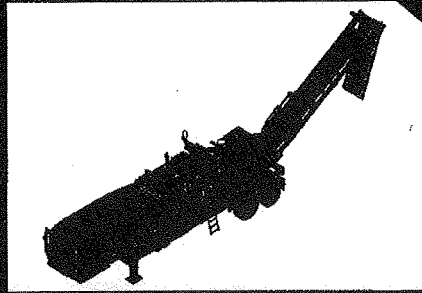
BUILDING EQUIPMENT THAT CREATES OPPORTUNITIES

MORBARK® WOOD HOG



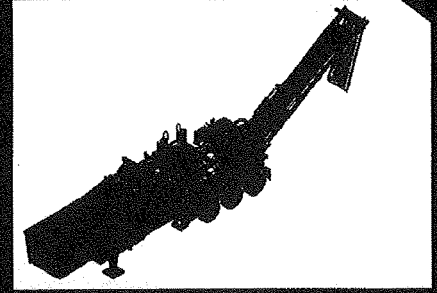
2600

Length (transport) 33'8"
 Height (transport) 11'6"
 Width 7'10"
 Gross weight 27,880 lbs.
 Horsepower 174 – 260 HP



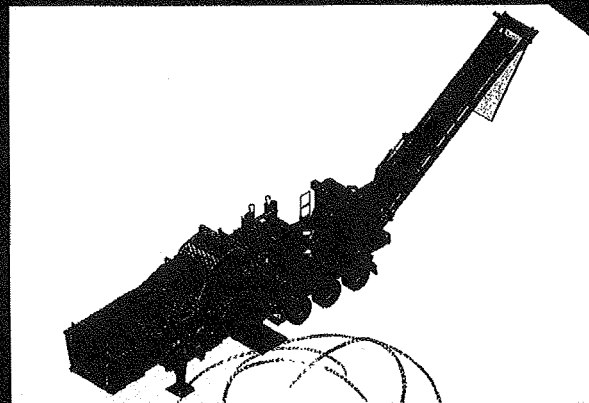
3800

Length (transport) 35'0"
 Height (transport) 13'9"
 Width 10'8"
 Gross weight 56,260 lbs.
 Horsepower 440 – 700 HP



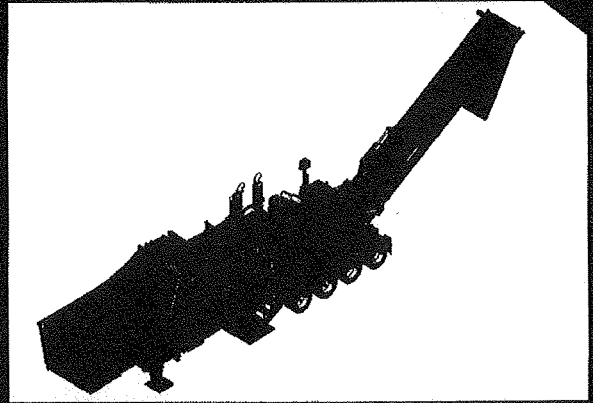
4600XL

Length (transport) 42'0"
 Height (transport) 12'10"
 Width 10'8"
 Gross weight 73,580 lbs.
 Horsepower 800 – 1050 HP



6600

Length (transport) 44'11"
 Height (transport) 13'0"
 Width 11'5"
 Gross weight 91,440 lbs.
 Horsepower 860 – 1200 HP



7600B

Length (transport) 47'0"
 Height (transport) 13'4"
 Width 11'0"
 Gross weight 106,500 lbs.
 Horsepower 860 – 1200 HP

NOTE: Equipment specifications may change, based on options chosen. Current specifications are available at www.morbark.com.

Creating Opportunities: Past, Present and Future

At Morbark[®], we have always been there for our customers, providing new opportunities throughout our long history, and we always will be.

In 1957, Norval Morey founded the Morbark Debarker Company in Winn, Michigan. Since then, Morbark has grown from a simple blacksmith shop to a huge manufacturing complex; from two workers to hundreds of employees; and from one product to hundreds of heavy equipment designs. From our roots in the sawmill industry, we've expanded into forestry, recycling, tree care and the biomass energy market.

We get to know you by listening to you, then improving our products based on what you say. Our equipment is durable, dependable and productive, and our name is the most trusted in the industry. When you choose Morbark, you make a commitment to excellence – and we're committed to helping you achieve success by creating new opportunities for you: unexplored revenue streams, untapped markets and better uses of byproducts.

We recently invested in Heat Transfer International (HTI), extending our capabilities from making the finest wood reduction equipment to producing systems that generate usable electricity and steam from wood and other organic materials. It's yet another example of how we apply innovation to bring us – and you – new opportunities for today, and far into the future.

Customer Testimonials



"Morbark equipment sets the standard. It is well engineered and well built. In this business, you have to run an efficient operation. Morbark delivers that efficiency and the product specifications our customers are looking for, particularly in the biomass fuel chip and sawdust area. We've been around for 21 years and have run Morbark equipment for the last eight. We regularly test-run competitive brands. We continue to place our trust in Morbark today."

Art Saylor
Art Saylor Logging
Oak Hill, OH



"That's one of the real strengths of the 4600XL: its ability to give us high-quality recycled asphalt shingles and do so consistently. On a regular basis, we are generating anywhere from 28 to 34 loader buckets of material per hour. That translates to anywhere from 70 to 110 tons/hour of excellent product created by a single pass through the grinder. We've been extremely satisfied with what we're getting with the Morbark unit."

Jeff Wanic
Sustainable Pavement Technologies
Houston, TX



"Some of the sites were newer developments, so all the contractor had to do was create piles for us to access with the Track Wood Hog. That was much better than bringing the material to the machine, and allowed us to maintain that three-truck-an-hour pace."

George Partlow (left, with Wesley, Stephanie, & Emily Partlow)
Green Waste Recyclers
Culpeper, Virginia

MODELS, FEATURES AND OPTIONS FOR EVEN THE MOST CHALLENGING GRINDING JOB

We offer a full line of Morbark® Wood Hog horizontal grinders in a range of sizes, on tracks or tires, diesel or electric powered. Add to these choices a wide variety of available options, and you've got the flexibility to customize the perfect grinder for your particular needs.

All models are aggressive, highly productive, and engineered to give you the power and features you need to maximize output and enhance your profitability. In addition, they:

- Are reliable under even the most extreme conditions
- Are durable and long lasting
- Are known for high resale value

The Wood Hog is the best industrial-grade grinder you can get for processing brush, yard waste, clearing debris, storm debris, C&D waste, other mixed woody feedstocks, and asphalt shingles into saleable products. The proven

breakaway torque limiter protection system protects against catastrophic damage from contaminants, so you can make money and not spend it on frequent repairs and replacement equipment. And with the optional Morbark Quick Switch Grinder-to-Chipper Conversion Kit, you can use your Morbark Wood Hog to produce high-quality – and highly profitable – biomass fuel chips or sawdust. These are just some of the reasons that Morbark is the largest and most respected name in grinding.



Take a look at some of the **unique** Morbark features that **help** you reduce downtime, increase your **profit** per job, boost resale **value**, and gain **peace of mind**.

[1] Dual-belt discharge system

All Morbark Wood Hog models except the 2600 use a dual-belt discharge system with slick-back belly belt. This improves tracking, reduces wear, and keeps your Morbark Wood Hog running better, with less need for maintenance. It also gives you the option to use a pivot conveyor.

[2] Morbark Integrated Control System

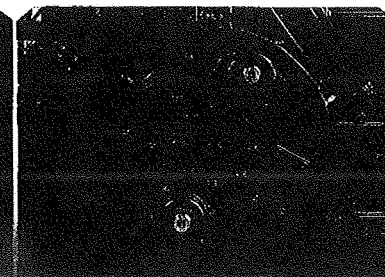
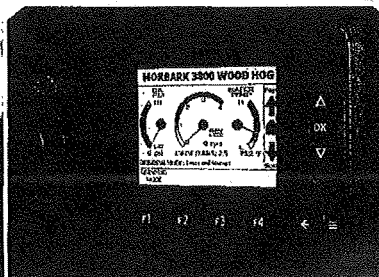
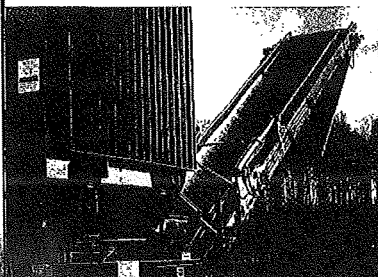
Morbark Integrated Control System (MICS) monitors hydraulic pressures, temperatures, clutch systems and engine efficiency to maximize performance and decrease downtime. MICS is the ultimate diagnostic tool, allowing onsite and remote troubleshooting – it's like always having a mechanic onboard to look out for and solve problems. It also tracks operational data and fuel usage.

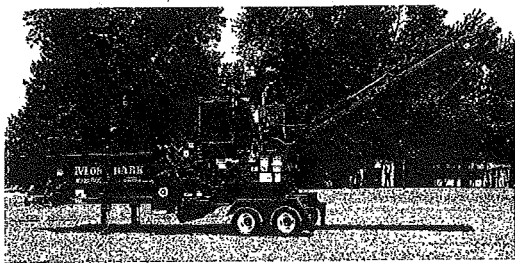
[3] Torque limiter protection

When properly maintained, torque limiter protection can help prevent severe damage and catastrophic failure to the driveline and hammermill, saving you money and reducing downtime. It can be easily and quickly adjusted for the different materials that you process, and its reaction time is instantaneous. All Morbark Wood Hog models include Morbark's exclusive externally adjustable safety element. This advanced feature enables you to reduce the torque for easy release when you grind heavily contaminated material, or tighten it to grind uncontaminated material, without special tools.

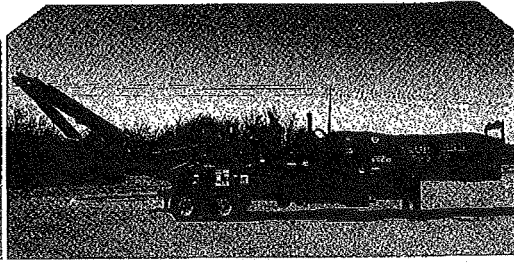
[4] Grates

Each Morbark Wood Hog uses two to five grates, giving you multiple variations for a better end product, as well as easy access for changing grates, saving you valuable time and money.

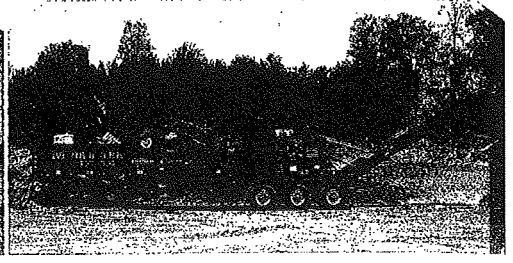




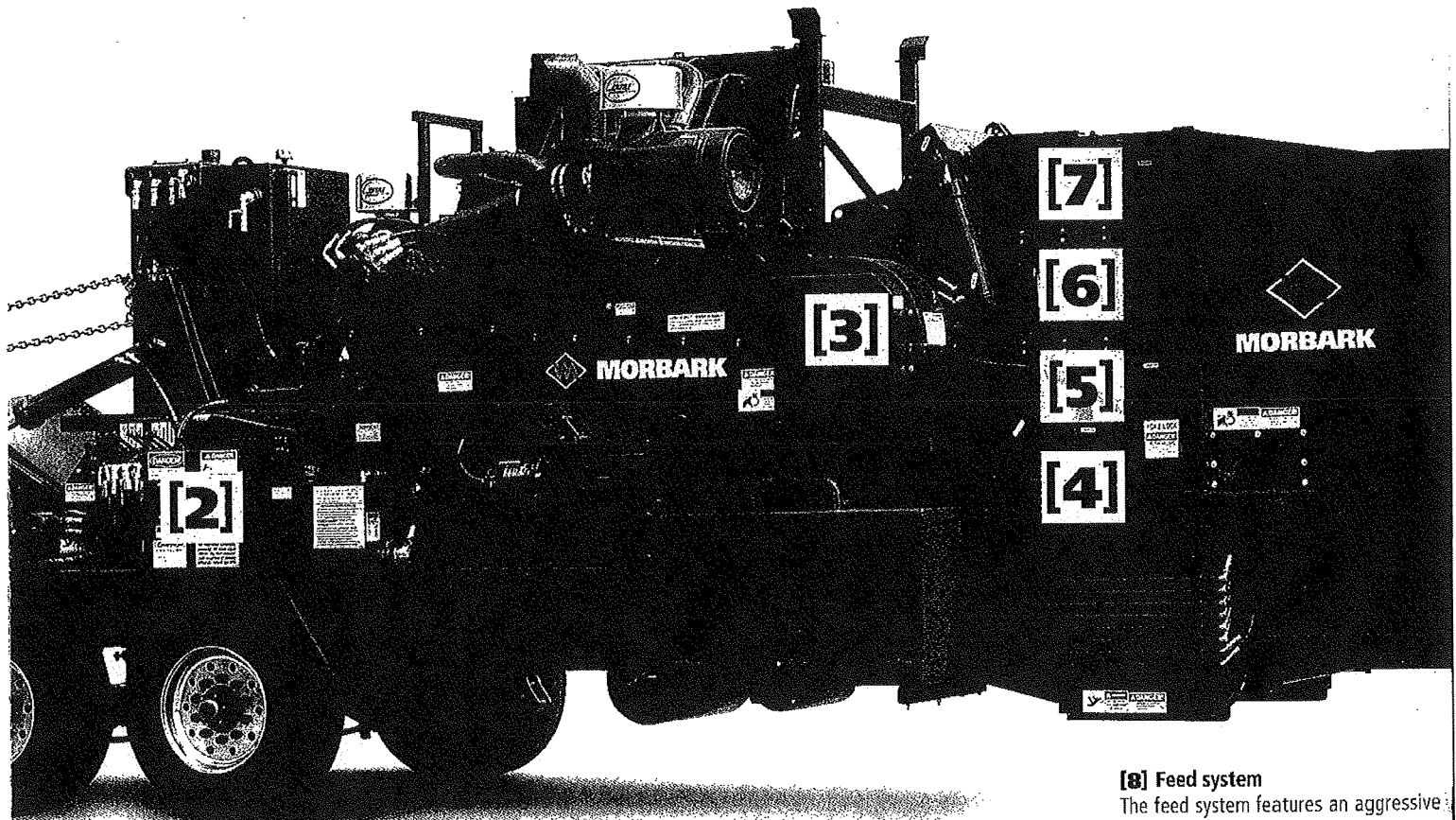
2600



3800



4600XL



[5] Hammermill

All Morbark Wood Hogs include a pinned rotor system that allows the mill to be set up in a variety of configurations with different hammer patterns, inserts and screen combinations. This versatility enables you to achieve the precise specifications you need for your end product, so you can meet your customers' needs and maximize your profits. The laser-cut rotor, factory-balanced with forged hammers, offers unsurpassed durability and smooth operation.

[6] Solid anvil

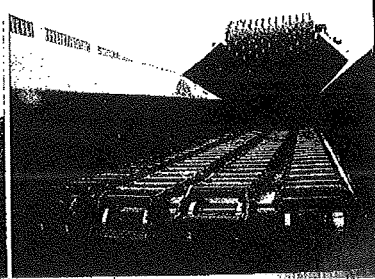
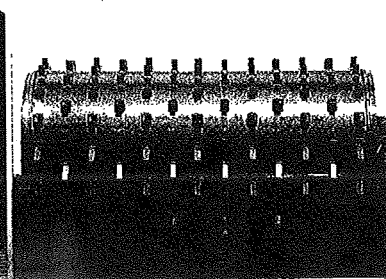
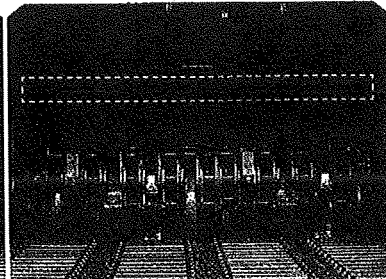
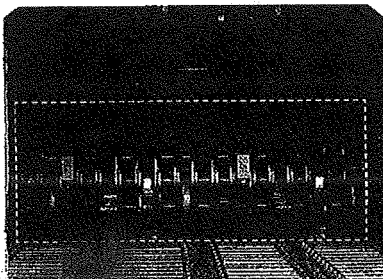
A one-piece, slide-through anvil eliminates bolts and other unnecessary hardware in the grinding chamber.

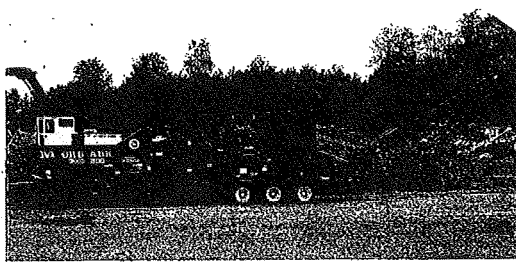
[7] Top pivoting feed-wheel

The Morbark Wood Hog's pivoting feed-wheel allows you to better contain material, creating a safer working environment and the ability to take on more work, including applications where traffic is present, such as roadside and mulch jobs.

[8] Feed system

The feed system features an aggressive feed-wheel with an internal planetary drive that has no chains or sprockets, giving you more torque, greater durability, and less need for maintenance. The infeed bed uses heavy-duty, long-lasting WDH infeed chain. The wide, unobstructed feed openings work with a live infeed and the feed-wheel to process large, bulky and tangled material, allowing you to grind full-length logs without investing the time and expense needed to cut them, and giving you a positive feed for a consistent product.





6600



7600B



[+] Optional CAT undercarriages

Track models feature CAT undercarriages, providing excellent ground clearance, low ground pressure, and high tracking power, so you can traverse almost any terrain to tackle tougher jobs. Morbark track models can track and grind at the same time, increasing your production and helping you make more money.

[+] Optional Morbark Quick Switch Grinder-to-Chipper Conversion Kit

All Morbark Wood Hogs are available with the optional Morbark Quick Switch, which converts your grinder to a chipper in less than a half-day, without special tools or heavy equipment. The Morbark Quick Switch lets you produce high-quality biomass fuel chips or sawdust – virtually doubling your market opportunities without having to buy a second machine.

- Thick, high-quality steel for superior durability
- All knife pockets are identical, so you don't need to balance them in the field
- Knife pattern is adjustable, saving you the expense of a whole pocket/knife assembly

[+] Additional options

Customize your Morbark Wood Hog with a variety of options: magnetized end pulley with collecting slide tray for ferrous metal removal, different grate sizes, hydraulic reversing fan, hydraulic rod puller, air compressor, ESPAR heater, and much more.

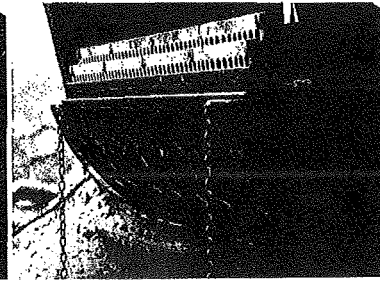
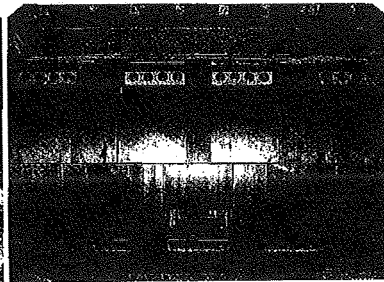
When you choose Morbark, you get more than just the best horizontal grinder in the industry.

You also get the benefit of more than a half-century of experience, unmatched expertise in wood processing, and world-class parts, service and support. Morbark has a global network of dealers that ship, start up and support our equipment, wherever you are. If you need a replacement part, you get it when and where you need it. If you have a problem, our service team gets you up and running quickly, onsite or remotely, saving you time and money.

Create new opportunities with a Morbark Wood Hog horizontal grinder. Give us a call now at 800-831-0042, or visit us at www.morbark.com for more information, including spec sheets and videos, and to find a dealer near you.

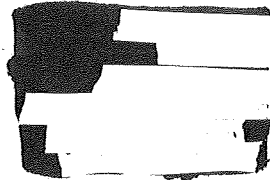
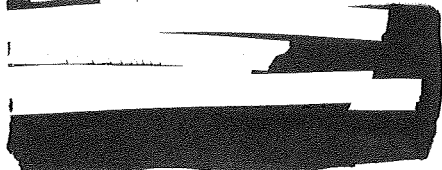
[!] Attention to detail

Morbark's attention to detail is evident in the meticulous craftsmanship of the Morbark Wood Hog. Our craftsmen – some of the most seasoned and highly skilled in the industry – use only the finest components and materials. Each pipe is hand-bent to precise uniformity, each hammer in the hammermill is forged to exacting specifications – it's this kind of painstaking care that has given us our reputation for making the best horizontal grinders available.



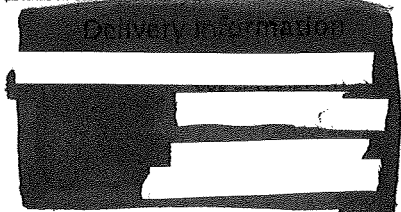
Invoice 074093

08/09/2013



Qty	Description	
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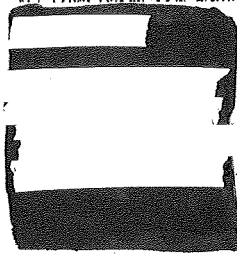
1	MORBARK 6600 WOOD HOC	186-1144
	<p>ENGINE S/N: TLD01083</p> <ul style="list-style-type: none"> -42" x 66-5/8" Hammermill system constructed of heavy duty 28" diameter rotor, (18) 7-3/8" thick 2-piece laser-cut rotor plates to ensure precision and enforce steel strength. The plates are keyed on an 8-1/4" diameter shaft with 5-3/16" bearings and (8) 2-1/2" hammer retaining rods -Variable speed infeed system consists of one (1) 36" diameter top compression feed roll with internal drive and a 20' long x 64" wide live floor equipped with five (5) strands of WDH-120 chain with teeth in a staggered configuration -Poclain drive -Floating deflect plate in yoke -Hammermill drive includes all belts, sheaves, bushings and shields -Discharge system consisting of a hydraulically driven, horizontal 48" wide x 19' long aggregate belly belt conveyor -Heavy duty tube type frame with hydraulic stabilizers and rear pushing bumper -Tri-axle trailer with 75,000# air-ride suspension, includes 32" adjustable fitch wheel towing arrangement, with air brakes and lights to ICC specifications -430 gallon fuel tank -238 gallon hydraulic oil tank with a remote hydraulic cooler -M.I.C.S. (Morbark Integrated Control System) located in the instrument panel -Dust suppression system -Hydraulically operated debris containment door -Remote control with a tethered remote back-up system <p>ADDITIONAL FEATURES:</p> <ul style="list-style-type: none"> -Hammermill pattern complete with (18) 7-1/4" balanced forged steel hammers, (18) 3-5/8" wide double-edged replaceable hammerhead inserts and (18) forged rakers -40" wide x 31' long stacking conveyor with hydraulic fold for transport -One set of four (4) 6" hexagon holes x 1" thick wear-form steel heavy duty split-screens -255/70R/22.5, 16-ply radial tires with steel rims -Saylor-Beall split air compressor complete with lockable enclosure and 11-HP gasoline Honda motor -Magnetized end pulley for discharge conveyor, complete with collecting slide tray for ferrous metal removal 	





Qty	Description
	-FLEX Caterpillar C32, Tier II, 1125-HP electronic diesel engine complete with PT Tech HPTQ hydraulic clutch and Morbark automatic reversing fan system with reversing fan on oil cooler -Externally adjustable break-away torque limiter -Morbark automatic reversing fan system with reversing fan on oil cooler -CATERPILLAR STANDARD WARRANTY FOR "C7 - C32" IS FOR 24 MONTHS OR 3,000 HOURS, WHICHEVER OCCURS FIRST (WITH THE FIRST YEAR BEING UNLIMITED HOURS) AND A 36 MONTH LIMITED WARRANTY ON MAJOR COMPONENTS LESS 20% DEALER DISCOUNT
-1	FREIGHT (NON-TAXABLE)
1	SPARE PARTS KIT
	-(1) Wireless remote transmitter, #39252-349
	-(1) Tether remote, #39252-172
	-(1) Leverhoist come-along, #24712-343
	-(1) Wrench for torque limiter, #52124-762
	-(1) Compressor/Impact kit, #29834-397
	-(1) Fan pump filter, #24517-023
	-(1) Hydraulic clutch filter, #26838-861
	-(3) 1-1/2" hex grates, blemished #35007-186

*This machine is in stock ready for delivery
 it exceeds all specs in current bid.
 Excluding TRADE.*



Delivery Information

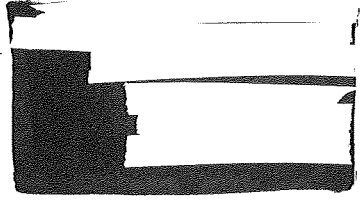


Exhibit A

It is not a question of if, but when and how often damaging contamination makes it to the mill. Metal sensors are available to stop and reverse the infeed on impact, but by then it could be too late. Shear pins and swing away grates as well as "break away" hammers are other options for protection for catastrophic damage, but the contamination must be able to fit thru the "swing away" area for that to work and always after it has passed completely thru the mill causing damage. **Morbark** has a patent on using the Brunel Torque Limiter, the only device we have found to work consistently. We have been using this device now for well over 20 years. Upon sudden impact this device releases the engine, clutch, belts, and drive sheave from the mill allowing the mill to stop without shutting down a hot engine or disengaging the clutch at high rpm. Once the Torque Limiter disengages, a sensor tied to our MICS will automatically idle the engine down and disengage the clutch, you can then back the feed out, raise and lock the feed wheel and shut the cooled engine down to check for and clean out the contamination. Once done all you do is line up the grooves in the sheave and Torque Limiter, push in the pockets, grease, and you are back up and running without having to replace parts. This Torque Limiter is designed to take hundreds of releases before servicing. The Torque Limiter quoted is also an Externally Adjustable unit allowing you to set for different grinding conditions. Improved from older versions of this Torque Limiter, the Externally Adjustable unit allows for ease of release for greasing/maintenance without any disassembly. This new style system with sensor tied to MICS, eliminates the possibility of burning out the bearing due to excessive time running released at full rpm.