



MORBARK®
BUILDING EQUIPMENT THAT CREATES OPPORTUNITIES



MORBARK® TUB GRINDER

MODELS

950
1000
1100
1200XL
1300B
1600

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

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



"We've owned five Morbark tubs – they're great machines! With technology growing so rapidly since our last purchase in 2004, when we went to purchase again, we went to Morbark. My local Morbark rep is very good, too. I even contact him when I have questions about other machines I own. Morbark has a great reputation in our industry. They get a lot of repeat customers, and that speaks for itself. They have been there for us through thick and thin."

Scot Smith
CST Organic Recycling
Redlands, CA



"The dependability of the equipment and parts is excellent. Everything we've come to expect for support from Morbark has been there for us. We've been very happy with our tubs and would buy one again."

Sam Viola
Vico Construction Corp.
Chesapeake, VA



"This machine is easy to feed and easy to operate from the cab of the loader, so one man can really do the whole grinding operation himself. We really like the fact that so many of the functions of the grinder can be monitored from a different location. Now, if we have any issues, it is easy to get on the phone and have someone at the Morbark plant or one of their facilities monitor the machine's performance and identify any problems. That's a lot better than having to make someone come all the way out to Puerto Rico."

William Perez Sr.
PDM Recycling
Palmas del Mar, Puerto Rico

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

Morbark® introduced the first industrial tub grinders in 1990, and has led the industry ever since. We offer the most complete line of tub grinders available, in a range of sizes and in several configurations – with cab and loader (WCL) or no cab and loader (NCL), 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 Morbark Tub 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 compact for easy transportation between job sites
- Are durable and long lasting
- Are known for high resale value

Morbark Tub Grinders are designed for the most challenging recycling applications. They excel at processing yard waste, pallets and

other mixed woody feedstocks into saleable products. We've taken the lessons we've learned from decades of experience in the forest products industry, and applied them to the design and manufacture of Morbark Tub Grinders that not only give you best-in-class performance when they're new, but also continue to perform and produce after several thousand hours of demanding work. 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] 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.

[2] Hydraulic stabilizers

Hydraulic stabilizer legs and optional outriggers (standard on loader-equipped machines) provide superior stability during operation.

[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 adjusted for the different materials that you process, and its reaction time is instantaneous.

[4] Hydraulic tub tilt

The hydraulic tub tilt provides access – safe and easy for all personnel – to grates, anvil and hammermill for changing and routine maintenance, reducing downtime so you can keep working and making money.



WHEN YOU CHOOSE MORBARK, YOU GET MORE THAN JUST THE BEST TUB GRINDER IN THE INDUSTRY.

You also get the benefit of more than a half-century of experience, unmatched expertise in waste wood grinding, 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 Tub 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.



[5] Hammermill

All Morbark Tub Grinders 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] Hydraulic augers

Durable, hard-surfaced steel hydraulic augers quickly remove product from beneath the mill. During material surges, pressure sensors on the auger system automatically slow tub rotation to prevent stalling. This advanced design feature prevents belts from tearing and slipping when material transitions to the mill, resulting in lower replacement costs and decreased downtime.

[7] Optional cab

The optional all-weather cab, with its six-way adjustable seat, is the most operator-friendly and comfortable cab in the industry. It increases productivity by reducing operator fatigue, and its backlit controls, clearly labeled functions, and all-digital MICS display ensure easy operation.



[8] Optional loader

At Morbark, we manufacture a complete line of hydraulic knuckle-boom loaders for our equipment to ensure that we can offer essential design requirements for loader speed, reach and lift capacity. Building our own loaders also guarantees our customers the quality control and parts availability that they have come to expect from Morbark.

[+] 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.

[+] Additional options

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





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950

Length (transport) 22'0"
Height (transport) 12'5"
Width 8'4"
Gross weight 13,720 lbs.
Horsepower 174 – 213 HP



1000

Length (transport) 28'1"
Height (transport) 12'11"
Width 8'6"
Gross weight 28,940 lbs.
Horsepower 350 – 540 HP



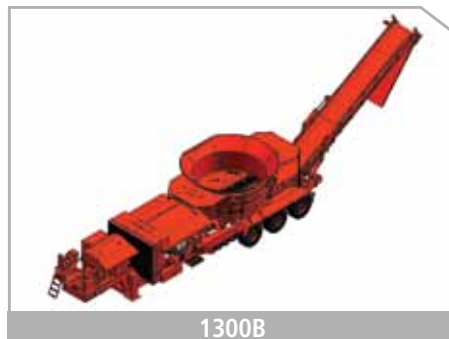
1100

Length (transport) 37'2"
Height (transport) 12'9"
Width 11'2"
Gross weight 45,720 lbs.
Horsepower 440 – 700 HP



1200XL

Length (transport) 38'2"
Height (transport) 13'6"
Width 11'11"
Gross weight 55,620 lbs.
Horsepower 700 – 875 HP



1300B

Length (transport) 45'0"
Height (transport) 13'6"
Width 11'11"
Gross weight 75,120 lbs.
Horsepower 800 – 1050 HP



1600

Length (transport) 49'9"
Height (transport) 13'6"
Width 12'0"
Gross weight 94,180 lbs.
Horsepower 1050 – 1200 HP

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