

# Morbark Tub Grinder

Product Information

Model 1300



Decision makers who invest in organic grinding equipment find a very attractive option with the Morbark Model 1300 Tub Grinder, the best selling tub in the industry. With the most advanced grinding technology, the Model 1300 delivers an unparalleled blend of power, torque and productivity.

While production varies depending on the type of material being processed, output as high as 320 cubic yards per hour has been documented with the Model 1300. A standard 750 HP diesel from Caterpillar or Cummins supplies the power, while torque to the hammermill is increased by a factor of 1:6 through a gearbox drive. The engine, clutch and drive train are protected with a full break away torque limiter. Dual tub drive motors provide consistent feeding of material and dual 16-inch augers remove processed material quickly and efficiently. Oil pumping capacity to the knuckleboom loader has been enhanced for the additional loader speed required to keep pace with this grinder.

All these features and more are brought together in just the right combination to make an impact on the organic grinding industry. Calling on years of experience as the top selling tub grinder manufacturer, Morbark designers score another big hit with the Model 1300 Tub Grinder.



## Morbark Sales Corporation

8507 S. Winn Road  
P.O. Box 1000  
Winn, MI 48896

(800) 233-6065  
(517) 866-2381  
Fax (517) 866-2280

E-mail: [morbark@worldnet.att.net](mailto:morbark@worldnet.att.net)  
Web site: <http://www.morbark.com>



# Morbark Tub Grinder **Model 1300**

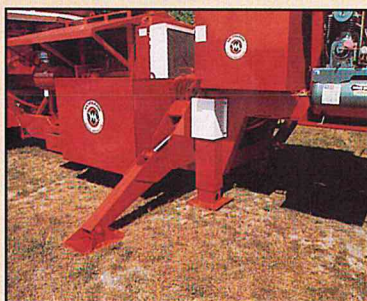
*20" heavy duty hammermill rotor is equipped with 24 T-1 steel fixed hammers with double-edged, replaceable carbide cutting tools.*



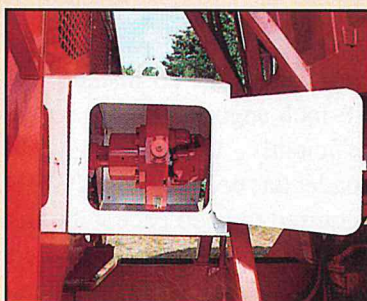
*Full hydraulic tub tilt provides safe and easy access to hammermill during routine maintenance.*



*Two hydraulic stabilizing legs and two hydraulic outriggers provide added stability during operation.*



*Full break away torque limiter protects engine and clutch against shock or overload.*



*Dual 16" diameter underneath discharge augers require less maintenance and provide longer life than a belt.*



## GENERAL

Length	38'6"
Height	13'4"
Width (transport)	11'11"
Gross weight	72,000 lbs.
Tongue weight	21,000 lbs.
Axle weight	51,000 lbs.
Tri-axle trailer	67,500 lbs. suspension
Tires (12)	255 x 70R x 22.5, 14-ply radial
Brakes	air
Stabilizer legs (2)	hydraulic
Outriggers (2)	hydraulic
Drive	direct w/full break-away torque limiter
Towing arrangement	fifth wheel
Engine	Caterpillar or Cummins
Horsepower	650 - 900
Fuel tank capacity	500 gallon
Hydraulic oil tank capacity	240 gallon
Water spray dust suppression system	
Auxiliary air compressor	11 HP

## CAB & LOADER

Enclosed weatherized operator's cab, 6-way adjustable seat, complete with all controls  
 Morlift model 400 knuckleboom loader with 29' extended reach and 280° continuous swing bypass grapple with 360° turn  
 Lift capacity 8,300 lbs. at 10'

## TUB

Full hydraulic tilt  
 13' diameter tub opening, 10' diameter at inside base, and 56" deep  
 Walls constructed of 3/8" thick reinforced steel plate, floor constructed of 1/2" thick T-1 steel  
 Tub supported by (16) rubber tire guide rolls, carried on a 1-1/2" diameter chrome shaft  
 Hydraulic forward & reverse  
 Safety shutdown system  
 Electronic RPM sensor for tub drive

## HAMMERMILL & SCREENS

31" x 55" hammermill opening  
 20" diameter x 54" long rotor with (8) 2-1/4" heat-treated hammer retaining rods mounted on a 7" diameter rotor shaft  
 Equipped with (24) 2" thick T-1 steel fixed hammers with double-edged, replaceable cutting tools  
 1" thick wear form steel split screens  
 Wear plate & screen area 3,025 sq. inches

## DISCHARGE SYSTEM

Two (2) 16" diameter augers discharge onto a 36" wide x 28' long heavy duty belt conveyor, discharge height of 17'

## OPTIONS

Electric power  
 Air conditioner/heater  
 Joy stick controls  
 Wireless remote control  
 Heavy duty 36" grapple  
 Magnetized end pulley with collecting slide tray for ferrous metal extraction  
 Hydraulic reversing radiator fan