

PROGRIND™ S100



TORO®

NEW! 750 HP Electronic Engine

PROGRIND™ S100

TUB GRINDING POWER AND EXPERTISE



- 750 hp Caterpillar 3412E DITA Turbo-charged Diesel engine
- Double-bolt hammer tips ensure hammermill durability and easy maintenance
- State-of-the-art cab on loader units with joystick controls and air conditioning
- Easy climb catwalk for access to loader cab
- Optional ProCommand™ remote control allows full operation from up to 500 ft.
- Easy to use test ports and gauges for all hydraulic pressure readings
- Tub raises 90 degrees for emptying and easy servicing of the hammermill
- Dual motor tub drive provides increased power and stability for heavy loads
- Tub drive guard protects system from spillage and errant materials
- Advanced control system, featuring PowerGrind™ technology, increases production and safety
- Triple 12" discharge augers easily remove material from mill area to conveyor

The most powerful, easy to use tub grinder in the industry. Designed with innovative features and advanced technologies to give you the power and production needed to tackle the most demanding grinding operations.

Ultimate Control, Comfort and Safety

The large cab on the loader unit allows full movement and comfort for the operator, as well as complete control of the grinder while loading. State-of-the-art joystick controls are incorporated with a fully adjustable, lumbar supported seat for maximum comfort. The front windshield, designed for high visibility, is 1/2" Lexan and backed by two steel bars for operator safety. Air conditioning is included as a standard feature.



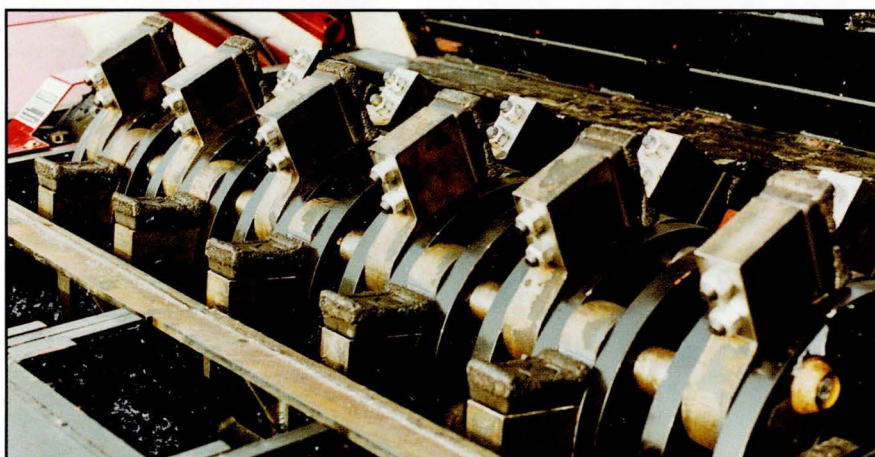
Clutch Protection

Our exclusive fluid coupler provides maximum clutch protection. If a jam occurs—even during start up—the engine throttles down and declutches before damage is sustained. This added protection also dramatically reduces clutch wear and virtually eliminates the possibility of clutch failures.

PROCOMMAND™ RADIO REMOTE

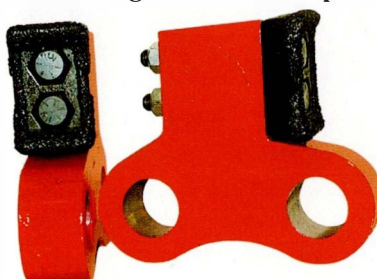


The ProCommand™ optional radio remote control is capable of operating the ProGrind 5100 at distances up to 500 feet away. It can be easily installed in the field in minutes.



Superior Grinding Performance

With one of the most aggressive hammermills in the industry, the ProGrind 5100 can cut through mountains of green waste at production rates of up to 90 tons-per-hour. Toro's special double-bolt hammer tips provide more durability and grinding ease, assuring high production rates, less wear on the hammermill and easy maintenance.



TORO®

Recycling Equipment Division

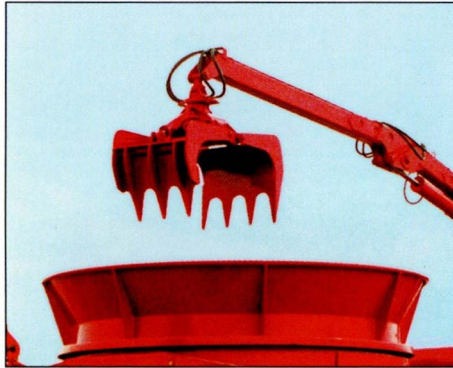
To learn more about the ProGrind 5100 and the full line of ProGrind tub grinders, contact your local Toro Distributor, or call Toro at:

(800) 525-0059



The ProGrind 5100 conveyor and grapple fold for transport, allowing quick and easy movement of the grinder from job site to job site.

The ProGrind 5100 offers superior grinding power incorporated with an expert design that delivers the high-production output needed to complete big jobs.



A variety of grapples, including continuous rotation, are available for different applications and materials.



Triple 12" discharge augers provide the needed movement of material from mill area to stacking conveyor for this high production unit.



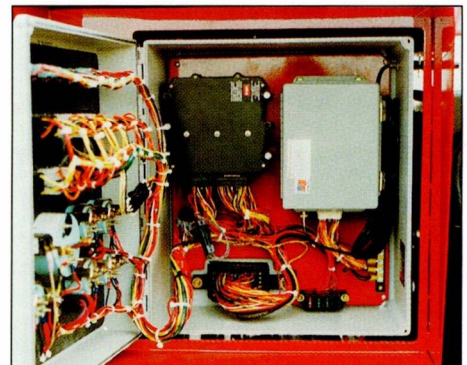
The tub and table tilt 90 degrees for emptying and easy servicing of the hammermill.



A protective canopy provides safety for operators by guarding against falling objects.



Conveniently located and easy to understand, the control panel provides maximum operational information to make grinding efficient, simple and safe.



Advanced technologies make this smart machine the safest in the industry and easy to operate.

SPECIFICATIONS

GENERAL DIMENSIONS

TRANSPORT LENGTH	42'-6"
TRANSPORT HEIGHT	13'-5 1/2"
TRANSPORT WIDTH	11'-11"
LOADING HEIGHT	10'-9"
TONGUE WEIGHT	12,500 lbs.
AXLE WEIGHT	44,500 lbs.
GROSS WEIGHT	57,000 lbs.
TONGUE WEIGHT W/LOADER	19,000 lbs.
AXLE WEIGHT W/LOADER	48,000 lbs.
GROSS WEIGHT W/LOADER	67,000 lbs.

ENGINE

MODEL	Caterpillar 3412 & 3412E DITA
	Turbo-charged Diesel
HORSEPOWER	650, 750 Electronic
AIR CLEANERS	Donaldson Dry Type
FUEL CAPACITY	300 gal.

DRIVE TRAIN

CLUTCH	Twin-Disc 14", 3 Plate
FLUID COUPLER	Transfluid
DRIVE SHAFT	Spicer 1880; Rated @5000 ft-lb
FINAL DRIVE	1:1, 2100 RPM

HAMMERMILL

OPENING	27" X 63"
LENGTH	60"
DIAMETER	16 7/8" With 8 1/4" Diameter Center
SHAFT	7" Diameter Hardened Alloy Steel
MILL PLATES	2" Thick, Machined to 1 5/16" in Hammer Swing Area
HAMMERS	36 lb. Fixed W/2-Bolt Replaceable Tips (32); Heat Treated and Hard Surfaced
HAMMER SWING DIAMETER	26 3/4"
HAMMER RODS	2 1/4" Alloy Steel (12)
BEARINGS	4 7/16" Double Row Spherical; Ductile Cast Iron Housing; Oil Lubricated
SCREENS	Four 1" Thick, 3100 SQ. IN.; Various Sizes Available

TUB

INSIDE WIDTH	10'-0"
FLARE WIDTH	11'-11" or 13'
DEPTH	56"
WALLS	7/16" Channel; Eight 3/4" Stiffeners Welded Vertically to Support Tub and Flares
AGITATORS	Six 3/4" X 5"
SPEED	Variable, Up to 9 RPM Forward and Reverse; Auto-Reverses if Jammed
DRIVE	3000 ft-lb Torque; Double-Orbital Hydraulic Motor; Planetary Gearbox; 140 Chain

DISCHARGE SYSTEM

AUGERS	Three 12" Hydraulic Driven
STACKING CONVEYOR	26' Long, 42" Wide; 15'-0" Stacking Height

CONTROL PANEL

CONTROLS	Ignition, Engine Speed, Clutch, Tub Controls, Outrigger Controls, Conveyor Controls, Table Control
GAUGES	Oil Pressure, Oil Temp, Engine Temp, Voltmeter, Tach/Hourmeter, Mill Hourmeter, Fuel Gauge, Hydraulic Pressure Gauges

OPTIONAL LOADER

REACH	25'-4"
LIFT CAPACITY	9650 lbs. @ 10' 6650 lbs. @ 15' 5100 lbs. @ 20'
CAB CONTROLS	Pilot Operated Joystick Controls, Engine Speed, Clutch, Tub Controls, Conveyor Controls, Outrigger Controls, Cab Height Controls
CAB GAUGES	Oil Pressure, Tachometer, Engine Temp, Fuel Gauge
CAB FEATURES	1/2" Lexan Windshield, Wiper, Washer, Defroster, Dome Light, Fan, Horn, Insulation, Heater, Air Conditioner; raises for loading
GRAPPLES	1/3 Cord Bypass or Claw Non-Continuous Rotation; 1/3 Cord Bypass or Claw Continuous Rotation

OPTIONAL EQUIPMENT

SCREENS	2", 3", & 4" Round; 4" X 6", 1 1/4" X 6", 8" X 9, Progressive
MAGNETIC ROLLER	12" X 44" Magnetic Roller & Nail Chute
HAMMER BODY/TIPS	Single or Double Bolt tips, 4-row mill
OTHER	Air Compressor, ProCommand Radio Remote

Sales & Service By

For more information, call: (800) 525-0059

TORO

Recycling Equipment Division

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