

Vermeer®

Tub Grinder

TG9000



Bring relentless grinding power to your operations

The Vermeer TG9000 is designed for contractors and municipalities who demand more power and higher grinding production in their operations. Whether grinding trees and brush in a land-clearing project or large-scale processing of organic waste - the most powerful member of the Vermeer line of tub grinders will be ready.

For versatility in varying job applications, the TG9000 is available with two CAT twin-turbocharged diesel engine options: 800 hp (597 kW) and 1000 hp (746 kW).

A PT Tech wet clutch with 2:1 gear reduction is controlled by a microprocessor with built-in torque limiter to help protect vital engine parts.

A Vermeer-exclusive Duplex Drum increases hammer life and production, and eases maintenance. A pin and plate configuration is also available, giving the contractor choice based on application.

Our Best Ideas Gone to Waste



Thrown Object Restraint System (TORS). The patented conical TORS has a smooth underside for increased life and better material flow while reducing the quantity and distance of thrown objects when positioned above the tub.



To allow large loads, the TG9000 unit features the largest inside tub diameter in the industry. It has an 11' (3.4 m) inside diameter and a folding 13.6' (4.1 m) flare opening.

Tub Grinder



Two CAT diesel engine options.

A twin-turbocharged, electronically fuel injected engine provides either 800 hp (597 kW) or 1000 hp (746 kW) for exceptional power and fuel economy. Both engines are equipped with an extra-large cooling system, reducing the risk of overheating, even in the most demanding conditions.



PT Tech wet clutch.

Gear reduction clutch offers high productivity with a balance of increased torque to the mill and high efficiency due to limited slippage. Designed to handle up to 1000 hp (746 kW), the clutch runs in oil to stay cooler and reduce wear.



Control panel.

A centralized control station provides the operator real time performance information and full instrumentation. The control panel is also equipped with diagnostic ports for monitoring systems and troubleshooting.





Fallen Object Canopy. For enhanced operator safety, the Fallen Object Canopy helps protect operators from falling debris while positioned at the control panel.



Undermill conveyor. A smooth, 60" (152 cm) belt enables high-volume product removal. To resist tear and puncture, the conveyor is constructed of .5" (1.3 cm) thick rubber belt.



Radial stacking conveyor. The rear uploading conveyor oscillates 60 degrees allowing the operator to change placement of the processed material without moving the machine. The conveyor may be equipped with an optional magnetic head pulley to help remove steel metallic materials, resulting in a more useful end product.

TG9000 Primary Specifications



General

Approximate weight: 96,000 lb (43,546 kg)
 Weight at axles: 69,000 lb (31,298 kg)
 Weight at kingpin: 27,000 lb (12,247kg)
 Transport Length: 43' (13.1 m)
 Width: 11.9' (3.6 m) transport
 Height: 13.4' (4.1 m) transport

Engine

Model: CAT 3412 E
 Aspiration: Twin turbocharged
 No. of cylinders: 12
 Gross hp @ full load: 800 hp (597 kw); 1000 hp (746 kw)
 Electrical system: 24-volt
 Fuel-tank capacity: 465 gal (1760 L)
 Fuel consumption rate @ full load:
 800 hp — 39 gph (148 L/h); 1000 hp — 52 gph (197 L/h)
 Operating range: 800 hp — 12 hours;
 1000 hp — 10 hours

Trailer

Axle rating: 20,000 lb (9072 kg) each
 Axles: 4
 Tires: 255/70R 22.5 (4 per axle; 16 total)
 Brakes: Drum (air)

Controls

Radio remote control standard
 Functions: Emergency stop, engine throttle, tub speed, tub manual (forward or reverse) or auto-control, Thrown Object Restraint System position, rear-discharge conveyor speed, lift and swing
 Side-mounted manual control station w/ Falling Object Canopy System

Drive Line

PTO: Wet clutch w/ 2:1 gear reduction; microprocessor controlled
 Torque limiter: Microprocessor controlled
 Drive line: 10 C





The patented rotor system is designed to increase production and endure high stress with fixed block-style hammers. To cover a variety of applications and preferences, two different hammermill designs are available, including the Vermeer-exclusive Duplex Drum designed for easier maintenance than conventional rotors.



TG9000 Feature Specifications

Tub

Outside diameter at top (flares unfolded/flares folded): 13.6' (4.1 m)/11.9' (3.6 m)
 Inside diameter at bottom: 11' (3.4 m)
 Depth: 55" (140 cm)
 Loading height: 11.2' (3.4 m)
 Drive: 2 hydraulic motors, positive chain drive

Tongue

Weld-in king pin: 2" (5 cm)

Hammermill

Opening: 32.5" x 64" (82.6 cm x 163 cm)
 Speed: 1100 rpm
 Cutter tip diameter: 36.4" (92.5 cm)
 Main bearings: 5.5" (14.0 cm) spherical rollers
 Breaker bar: 2.5" x 4" (6.4 cm x 10 cm) T-1
 Screen: 1" (3 cm) Hardox 400 w/ T-1 breaker bar w/ variable-size hole

Pin & Plate Rotor Option

Main shaft: 8" (20 cm) 4140 alloy
 Hammers: quantity of 22, 79 lb (36 kg) ea., fixed-block
 Number of cutter blocks: 22
 Cutter block options: 2.5" (6.4 cm) narrow, 3.5" (8.9 cm) wide
 Cutter retention: 2 bolt 3/4" (1.9 cm) x 6-1/2" (16.5 cm) grade 8 [for 2.5" (6.4 cm) cutter block], 2 bolt 7/8" (2.2 cm) x 6-1/2" (16.5 cm) grade 8 [for 3.5" (8.9 cm) cutter block]
 Rods: 2.5" (6.4 cm) 4140 HTSR steel

Duplex Drum Option

Drum skin thickness: 1.8" (4.4 cm)
 Hammers: quantity of 10, hardened 74 lb (34 kg) ea., fixed-block
 Hammer dimensions: 2" x 4" x 34.8" (5 cm x 10 cm x 88 cm)
 Drum/hammer/cutter: reversible
 Cutter block: 2.8" (7.0 cm) wide, carbide impregnated
 Cutter retention: single bolt 7/8" (2.2 cm) grade 8

Undermill Conveyor

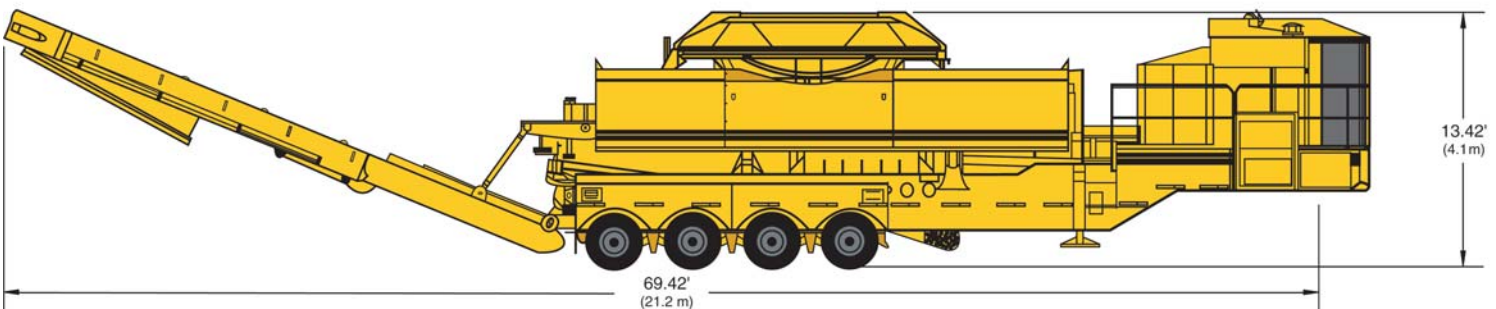
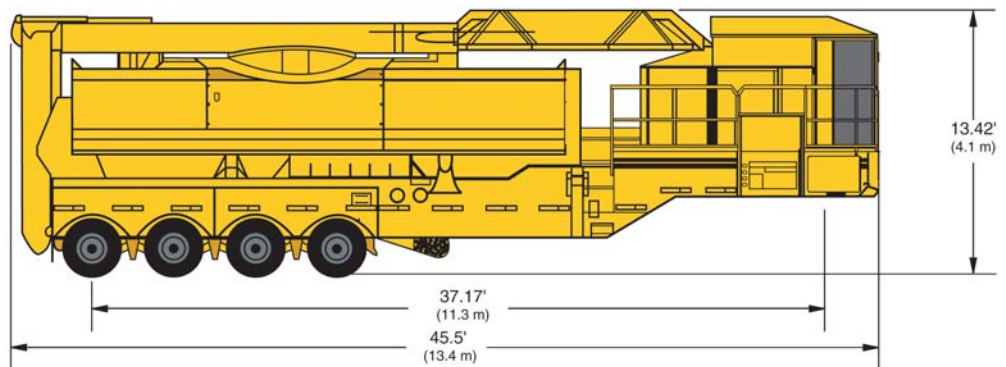
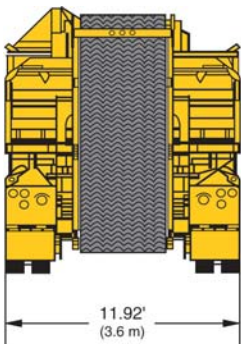
Belt width: 60" wide x .5" thick (152 cm x 1.3 cm)
 Drive: Hydraulic
 Head pulley: 14" (36 cm) dia.

Rear-Discharge Conveyor

Belt: 48" wide x 30' long (122 cm x 9.1 m)
 Drive: Hydraulic
 Head pulley: 14" (36 cm) dia. (optional magnetic pulley)
 Radial movement: +/- 30°, 60° total
 Max. loading height: 18' (5.5 m)

Tub Cover

Hydraulically positioned
 Hydraulically locked for operation and transporting



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Vermeer®

Vermeer Manufacturing Company

1210 Vermeer Road East
P.O. Box 200
Pella, Iowa 50219 U.S.A.
Phone: (641) 628-3141
Fax: (641) 621-7773
International fax: +1 (641) 621-7730
www.vermeer.com

Call toll-free 1-888-VERMEER

1-888-837-6337 (U.S.A. only)

Europe, Middle East and Africa:

P.O. Box 323
4460 AS Goes
Netherlands
Phone: +31 113 272700
Fax: +31 113 272727

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ArborMaster.