

# Vermeer®

Horizontal Grinder

# HG 6000E



## A powerful grind with energy-efficiency

The Vermeer HG6000E electric horizontal grinder offers wood-waste processing customers a powerful option that can help save energy and reduce operating costs.

Two 300 hp (223.7 kW) mill motors provide plenty of power to the drum, which features reversible hammers and cutter blocks for longer life and optimum cutting performance. Down-pressure from the feed roller helps feed bulky and oversized material into the drum; the feed roller is easily reversible so the operator can reposition irregular material as necessary.

The HG6000E provides multiple configurations and conveyor options to help meet jobsite constraints. The skid-mounted unit offers a 14' (4.3 m) or 20' (6.1 m) infeed conveyor length and three options for the discharge conveyor, including a belly, fixed or folding conveyor. A trailer-mounted option is also available when additional mobility is needed.



### **SmartGrind**

*An advanced control system constantly monitors mill motor amperage and material feed rates. If difficult material causes the amperage to rise above a desired operating range, the feeding system stops and reverses material until the amperage drops to the desired level. For material of difficult sizes and shapes, the system includes feed roller down pressure. Controlled by the operator, the feed roller applies down pressure and reverses independently from the feed table to reposition the material.*



### **Thrown Object Deflector (TOD)**

*The HG6000E features the innovative thrown object deflector (TOD) which helps reduce the quantity and distance of thrown material debris. Additionally, the TOD is strategically positioned to reduce interference when loading over-length material.*



## Horizontal Grinder



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### **Motors**

The HG6000E drum is powered by two electric motors that deliver a combined 600 hp (447.4 kW). A separate 60 hp (44.7 kW) electric motor powers the pump for the hydraulic circuits, while a 2 hp (1.5 kW) electric motor is used to cool the hydraulic system.

### **Series II duplex drum**

With reversible hammers and cutter blocks, this drum offers nearly double the life of single-sided designs, producing optimum cutting performance and simplified maintenance.

### **Easy access screens are engineered with a top-loading design**

to allow operators to change screens more easily and in less time than conventional screens. A fully hydraulic, moving hammermill/screen cover is easily positioned over the feed table to allow maximum workspace when servicing the mill or changing screens.





**Motor starter panel**

A motor starter panel is optional and mounted separately from the machine and contains circuit breakers, a soft start module, DC injection braking system, and control systems for running the unit.



**Optional conveyors**

Flexibility is a key feature of the HG6000E, and to help meet jobsite requirements three conveyor options are available on the skid mounted unit, including a one-piece fixed conveyor, two-piece folding conveyor or a belly conveyor.



**A multifunction, wireless remote control**

allows the operator to control most operating functions from a maximum operating distance of 300 feet (91.4 m). This feature can enhance jobsite productivity by allowing the operator to control machine functions from the loader vehicle while performing other functions.



## HG6000E Feature Specifications

### General (Skid-Mounted Unit)

20' (6.1 m) infeed with fixed conveyor  
Weight: 55,000 lb (24,947.6 kg)  
Length (transport): 46.1' (14.1 m)  
Length (operational): 46.1' (14.1 m)  
Width: 8.9' (2.7 m)  
Height (transport and operational): 12.1' (3.7 m)

20' (6.1 m) infeed with folding conveyor  
Weight: 55,500 lb (25,174.4 kg)  
Length (transport): 36' (11 m)  
Length (operational): 59.2' (18 m)  
Width: 8.9' (2.7 m)  
Height (transport): 12.7' (3.9 m)  
Height (operational): 15.1' (4.6 m)

20' (6.10 m) infeed with belly conveyor only  
Weight: 52,500 (28,813.6 kg)  
Length (transport): 35.9' (10.9 m)  
Length (operational): 35.9' (10.9 m)  
Width: 8.9' (2.7 m)  
Height (transport and operational): 11.9' (3.6 m)

### General (Trailer-Mounted Unit)

Weight: 58,780 lb (26,662 kg)  
Length (transport) 45.4' (13.8 m)  
Length (operational): 68.4' (20.8 m)  
Width: 8.9' (2.7 m)  
Height (transport): 13.2' (4 m)

### Hammermill:

Drum diameter: 30" (76.2 cm)  
Tip diameter: 36" (91.4 cm)  
Drum cutting length: 62" (157.5 cm)  
Drum skin thickness: 1.5" (3.8 cm)  
Drum speed: 1050 rpm  
Number of hammers: 10  
Number of cutters: 20  
Hammer tooth: Multiple styles/sizes  
Anvil: Carbide-faced, removable

### Motor Starter Panel (optional)

Height: 90.1" (228.9 cm)  
Width: 112" (284.5 cm)  
Depth: 16.1" (40.9 cm)  
Weight: 3200 lb (1451.5 kg)

### Controls

Full-function operator's station with standard radio remote  
Radio remote-control functions:  
Feed-roller rotation (forward / reverse)  
Feed conveyor (forward / reverse)  
Feed roller (raise/float/crush)  
TOD (raise/lower)  
AutoFeed (on/off)  
Cooling fan (reverse)  
Machine stop

### Infeed System

Feed-roller diameter: 36" (91.4 cm)  
Feed-roller width: 57" (144.8 cm)  
Feed-roller tooth style: Serrated bars  
Feed-roller raise height: 48.7" (123.7 cm)  
Feed-roller down pressure: Hydraulically adjustable  
Feed-throat height: 32" (81.3 cm)  
Feed-table width: 60" (152.4 cm)  
Feed-table length: 20' (6.1 m)\*  
Feed-conveyor type: Chain and slat  
Hopper-load height: 8.2' (2.5 m)  
\* Also available with 14' (4.3 m) table length

### Discharge (Skid-Mounted Unit):

#### Conveyor type: Belly belt only

Conveyor belt width: 48" (121.9 cm)  
Conveyor belt length: 32' (9.8 m)  
Discharge height: 4.7' (1.4 m)

#### Conveyor type: Fixed, single-belt design

Conveyor belt width: 48" (121.9 cm)  
Conveyor belt length: 59.5' (18.1 m)  
Discharge height: 11.6' (3.5 m)

#### Conveyor type: Folding, dual-belt design

Belly belt width: 48" (121.9 cm)  
Belly belt length: 32' (9.8 m)  
Loadout belt width: 30" (76.2 cm)  
Loadout belt length: 56.2' (17.1 m)  
Discharge height: 14.6' (4.5 m)

### Discharge (Trailer-Mounted Unit):

#### Conveyor type: Folding, dual-belt design

Belly belt width: 48" (121.9 cm)  
Belly belt length: 32' (9.8 m)  
Loadout belt width: 30" (76.2 cm)  
Loadout belt length: 56.2' (17.1 m)  
Discharge height: 15.1' (4.6 m)

### Hydraulic System

Oil tank capacity: 50 gal (189.3 L)  
Oil type: Vermeer HyPower 68  
Implement system  
Type: Pressure and flow compensated  
Conveyor system  
Type: Open-loop with adjustable flow control

### Options

Infeed table: 14' (4.3 m)  
Screens  
Special paint  
Extended warranties  
Torque wrenches  
Sonic belt tension meter

### Electric Motors - 60Hz Option

#### Fan motor

Horsepower: 2 hp (1.5 kW)  
Voltage: 460 AC  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 2.8  
Full-load RPM: 1710 rpm  
Service factor: 1.15

#### Hydraulic drive motor

Horsepower: 60 hp (44.7 kW)  
Voltage: 460 AC  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 72  
Full-load RPM: 1770  
Service factor: 1.15

#### Mill motors

Horsepower: 300 hp (223.7 kW)  
Voltage: 460 AC  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 350  
Full-load RPM: 1780  
Service factor: 1.15

### Electric Motors - 50 Hz Option

#### Fan motor

Horsepower: 2 hp (1.5 kW)  
Voltage: 380 - 415 AC  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 3.52 / 3.22  
Full-load RPM: 1430  
Service factor: 1.15

#### Hydraulic drive motor

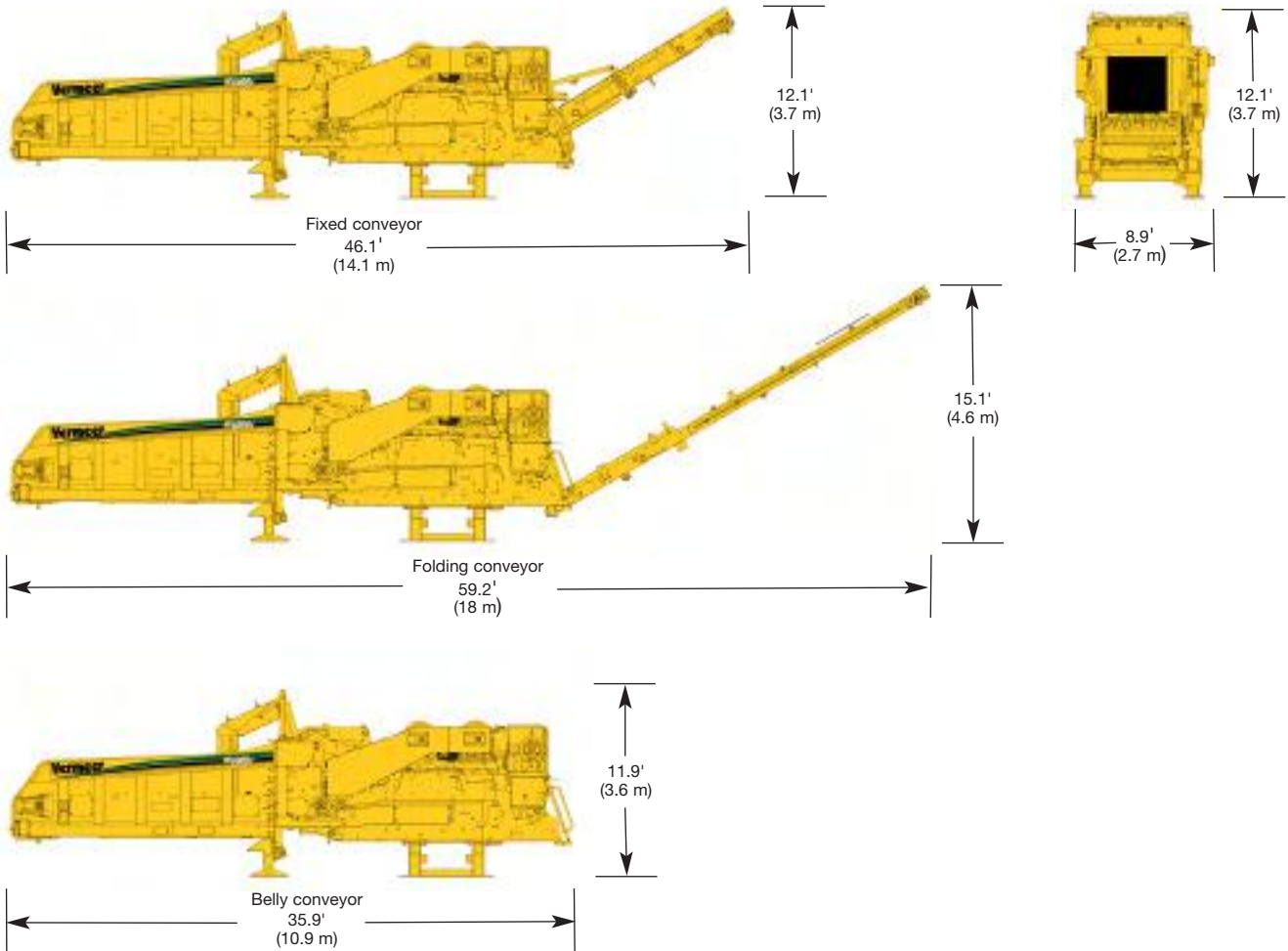
Horsepower: 60 hp (44.7 kw)  
Voltage: 380 - 415 AC  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 82.2 / 75.2  
Full-load RPM: 1475  
Service factor: 1.15

#### Mill motors

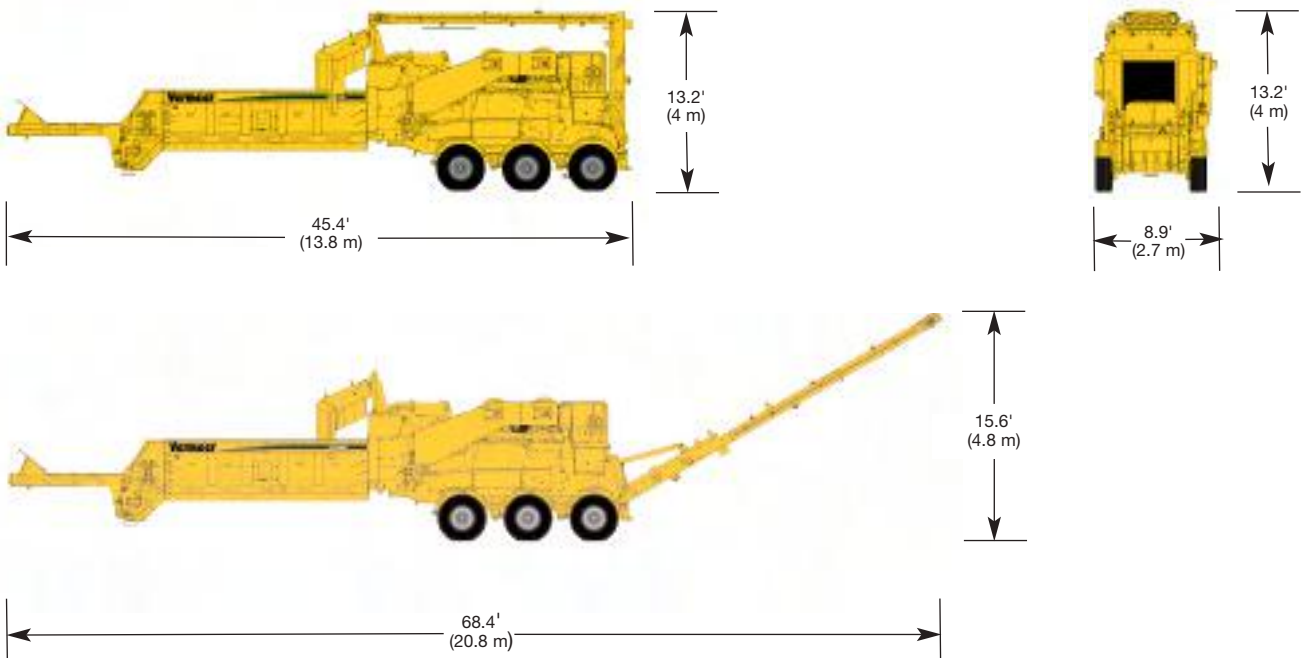
Horsepower: 300 hp (223.7 kw)  
Voltage: 380 - 415  
Phase: 3  
Enclosure: TEFC  
Full-load amps: 415 / 380  
Full-load RPM: 1490  
Service factor: 1.15

# HG6000E Feature Specifications

## Skid-Mounted Unit



## Trailer-Mounted Unit



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*Vermeer parts are designed and manufactured to original specifications, so whether they're new parts or replacement parts, they'll live up to the Vermeer name.*

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