

THE VERMEER DEALER NETWORK:
RELIABLE SUPPORT, ALL OVER THE WORLD.



Vermeer Asia Pacific
Singapore 608586
Phone: +65 6516 9560
Fax: +65 6515 9218

Vermeer Corporation
Pella, Iowa 50219 USA
Phone: (641) 628-3141
International fax: +1 (641) 621-7730

Vermeer Latin America
Valinhos, SP - Brazil
Phone: +55 19 3517-9400
Fax: +55 19 3517-9401

Vermeer EMEA
(Europe, Middle East, Africa and CIS)
the Netherlands
Phone: +31 113 272700
Fax: +31 113 272727

Call toll-free 1-888-VERMEER
1-888-837-6337 (USA only)
www.vermeer.com

A GLOBAL INITIATIVE

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T1255III TERRAIN LEVELER® SEM

T1255III TERRAIN LEVELER®

S U R F A C E E X C A V A T I O N M A C H I N E



CUTTING EDGE TECHNOLOGY:

Vermeer trenchers are the benchmark when it comes to cutting rock. Now we've taken it even further with unique technology designed specifically for surface mining, quarry, site prep and civil work operations to bring more precision and production to excavation projects. Precision excavation, as developed by Vermeer, puts more control in operators' hands for precise, high-production material extraction.



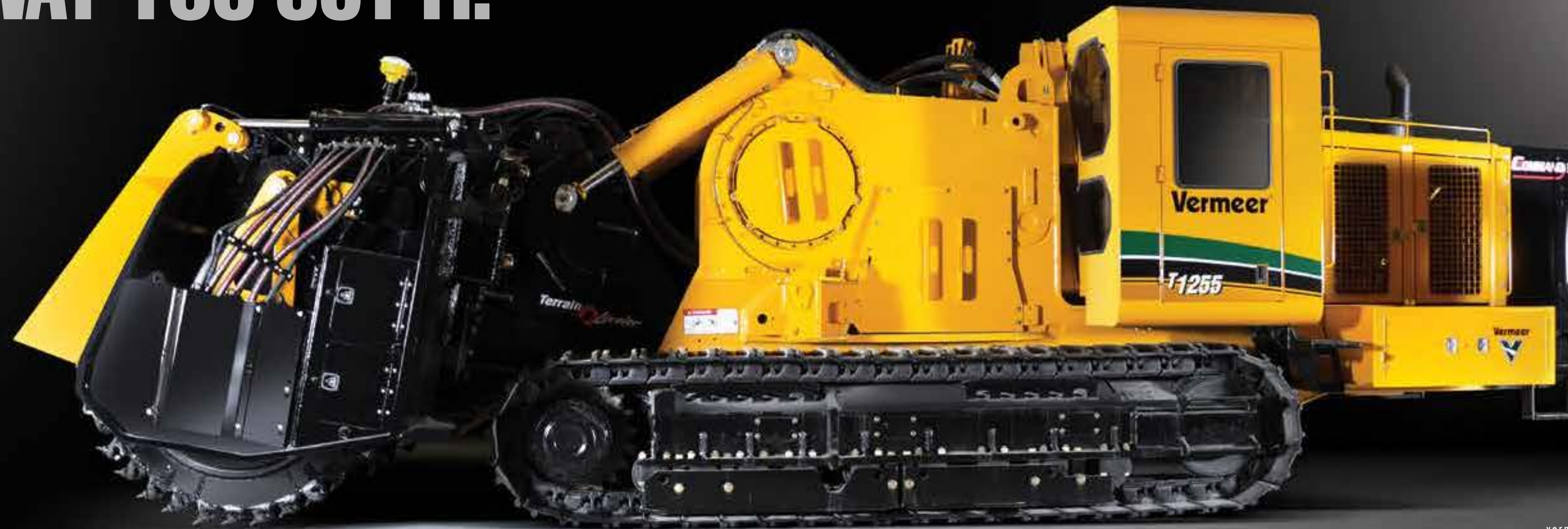
Vermeer developed top-down cutting, which allows the cutter teeth to gain penetration without using the machine's tractive effort to drive the teeth into the material. As the machine travels forward and the drum rotates, the teeth on the drum are positioned over the material surface. As contact is made, the top-down cutting action of the teeth instantly creates a consistent-sized product, which can be handled more efficiently than product generated by drilling and blasting. The

product size produced greatly reduces the need for primary crushing and can be affected by increasing or decreasing the depth of cut — resulting in smaller material or reduced fines. Top-down cutting allows for cutting in harder materials than competitive models which cut in an upward direction. The cut depth, controlled by either laser or GPS, produces a smooth floor for increased production and easier loading and hauling.

T1255

POWERFUL PRECISION. ANY WAY YOU CUT IT.

The Vermeer T1255III combines raw cutting productivity with the ability to carefully extract what you're after. The minimal ground shock and vibration resulting from precision excavation allows you to work closer to developed areas to extract even more, without the risks of more invasive extraction methods, such as drilling and blasting. At up to 111 tonnes (122.5 tons) and a CAT C18 ACERT Tier 3 or Tier 4 Final engine delivering 447.4 kilowatts (600 horsepower), the T1255III has the mass needed to handle big projects.



MUSCLE & BRAINS.

A tough machine with the intelligence to match.



SmartTEC Performance Software assists operators with adjustments to machine controls to improve efficiency and tracks the productivity of the machine. Performance history is recorded, including individual operator history, for analysis by the machine owner or fleet manager. SmartTEC screens also offer a cleaner display, showing only what the operator needs to improve control and production.





GET A GOOD LOOK AT IT. AND GO GET IT.

Dual tracks allow for maximum mobility.

The T1255III Terrain Leveler SEM has dual independent hydrostatic tracks for counterrotation, meaning the machine can quickly reposition 180 degrees in either direction for the next cut. When needed, the T1255III can counterrotate a full 360 degrees, providing enhanced maneuverability in any situation.

The elevated cab allows a productive vantage point for the day's work, adding to the comfort of getting the job done.

The enclosed cab features a filtered air system, self-contained cooling and heating systems, sound-attenuating foam, and more, for productive comfort all day long. The cab on the T1255III is designed to be considered a structure in itself. The Rollover Module (ROM) is rated to withstand the conditions should a rollover occur. It also serves as a falling object protective structure (FOPS).



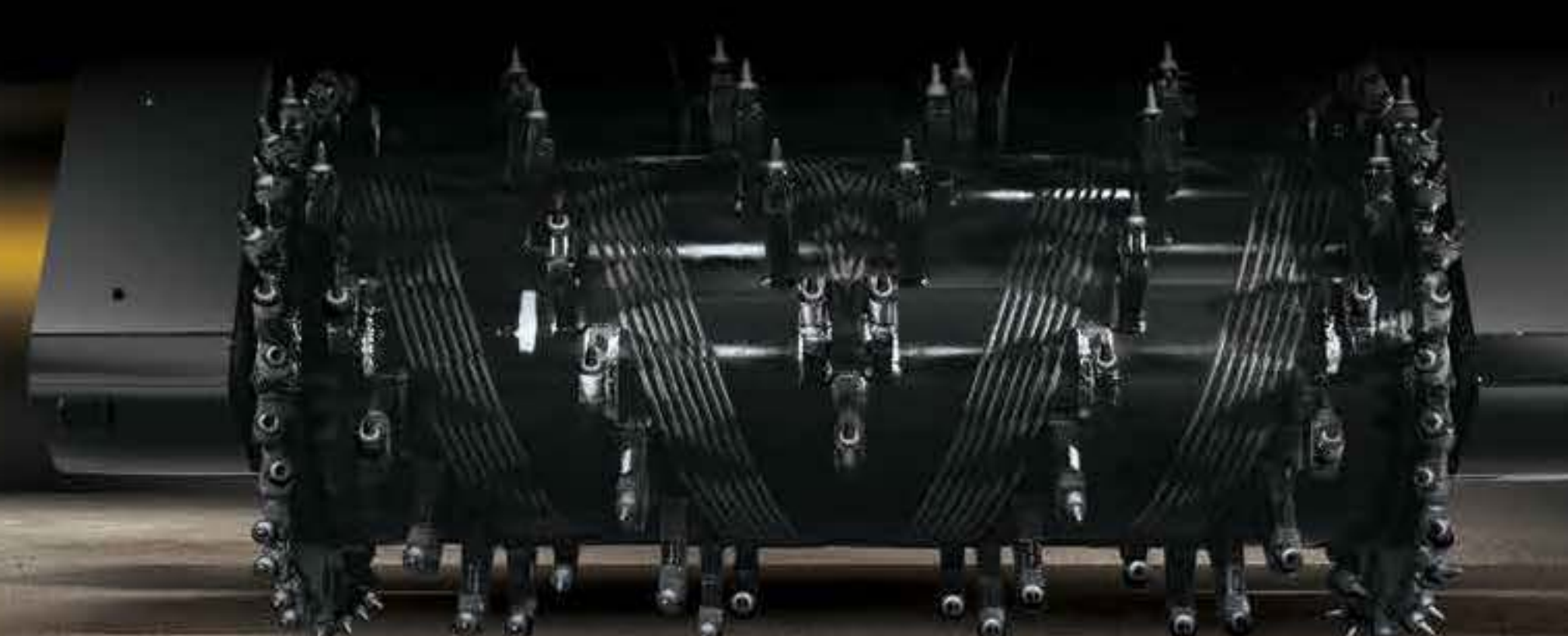
CONSIDER YOUR OPTIONS:

The T1255III is available with either a chain drive or direct drive drum attachment, depending on the job need.



Chain Drive Drum

Efficiently conduct surface mining extraction; remove ground surface; create a smooth, level area for site preparation, road construction or soil remediation with the chain drive. When you need to get in and extract material close to the high wall, this attachment gives you the capability to cut along a vertical high wall. It has a maximum cutting depth of 68.6 centimeters (27 inches) and the chains are driven by low-speed, high-torque hydrostatic motors.



Direct Drive Drum

With the drive motor mounted directly to the cutter drum, it maximizes work efficiency and reduces wear costs associated with other types of transmissions. Hydraulic low-speed, high-torque motors on each side of the cutter head dish out more direct drive power for improved productivity. The direct drive attachment offers a maximum cutting depth of 53.3 centimeters (21 inches).



LOW CENTER OF GRAVITY FOR GOOD REASON.

The T1255III features a wide track width and low center of gravity, and with a low ground clearance, these add up to a machine with great stability. During machine operation, the low center of gravity stays within the track width throughout the drum's full range of motion.



T 1 2 5 5 I I I T E R R A I N L E V E L E R S E M S P E C I F I C A T I O N S

TRANSPORT DIMENSIONS:

Approach angle: 15 deg
Height: 370.8 cm (146")
Width: 340.4 cm (134")
Length (no attachment): 889 cm (350")
Weight range: 68,039.9 kg - 92,986.4 kg (150,000 lb - 205,000 lb)

ENGINE SPECIFICATIONS - OPTION ONE:

Make and model: Caterpillar C18 ACERT
Gross horsepower: 447 kW (600 hp)
Rated engine rpm: 2100
Number of cylinders: 6
Fuel tank capacity: 1400.6 L (370 gal)
Operating range: 11.6 hrs
Fuel consumption at full load: 120.4 L/hr (31.8 gph)
Max engine operating angle: 35 deg <i>(Does not indicate safe machine operating angles)</i>
Air cleaner: Dry-type exhaust aspirated with precleaner
Aspiration: Turbocharged and air-to-air aftercooled
Cooling medium: Liquid
Electrical system: 24 Volt DC
Oil filter: Full flow
EPA certification family: Tier 3

ENGINE SPECIFICATIONS - OPTION TWO:

Make and model: Caterpillar C18 ACERT
Gross horsepower: 447 kW (600 hp)
Rated engine rpm: 2000
Number of cylinders: 6
Fuel tank capacity: 1400.6 L (370 gal)
Operating range: 12.1 hours
Fuel consumption at full load: 115.5 L/hr (30.5 gph)
Max engine operating angle: 35 deg <i>(Does not indicate safe machine operating angles)</i>
Air cleaner: Dry-type with precleaner
Aspiration: Turbocharged and air-to-air aftercooled
Cooling medium: Liquid
Electrical system: 24 Volt DC
Oil filter: Full flow
EPA certification family: Tier 4 Final (Stage IV)

CAB SPECIFICATIONS:

Cab: Yes
Control system: SmartTEC
Air conditioner/heater: Yes
Air suspension seat: Yes
AM/FM stereo with weather band: Yes
Elevating: Yes
Pressurized/Filtered air: Yes
Rollover Module (ROM): Yes

HYDRAULIC SYSTEM SPECIFICATIONS:

Oil tank capacity: 794.9 L (210 gal)
Oil type: Vermeer HyPower 68, Vermeer HyPower 100 or Vermeer HyPower 1100
Pressure setting: 172.4 MPa (2500 psi)
Pump flow at max rpm: 108.6 L/min (28.7 gpm)
Pump type: Pressure- and flow-compensated (load-sensing)

TRACK SPECIFICATIONS:

Max ground pressure: 145.5 kPa (21.1 psi)
Min ground pressure: 106.9 kPa (15.5 psi)
Tilt track available: No
Track drive type: Dual-path hydrostatic with planetary transmission
Track length: 461 cm (181.5")
Track pad type: Double grouser
Track pad width range: 76.2 cm (30")
Track size: Cat 375 excavator
Max ground speed – low: 14.7 m/min (48.1 fpm)
Max ground speed – high: 39.1 m/min (128.4 fpm)
Parking brake: Spring-applied, hydraulic release, wet disc brake
Service brakes: Hydrostatic

TERRAIN LEVELER DIRECT DRIVE ATTACHMENT:

Weight (separate from tractor): 35,153.4 kg (77,500 lb)
Weight (attached to tractor): 99,790.3 kg (220,000 lb)
Left/Right tilt: +/- 5 degrees
Max cutting depth: 53.3 cm (21")
Cutting width: 365.8 cm (144")
Max drum speed: 26 rpm
Min drum speen: 18 rpm
Laser and GPS acceptable: Yes
Digging chain size: None
Drive type: Hydrostatic
Auto-self level: Yes

TERRAIN LEVELER CHAIN DRIVE ATTACHMENT:

Weight (separate from tractor): 43,091.3 kg (95,000 lb)
Weight (attached to tractor): 111,130.1 kg (245,000 lb)
Left/Right tilt: +/- 5 degrees
Max cutting depth: 68.6 cm (27")
Cutting width: 365.8 cm (144")
Max drum speed: 36 rpm
Min drum speed: 25 rpm
Laser and GPS acceptable: Yes
Digging chain size: 5501 or D8N DBL
Drive type: Hydrostatic
Auto-self level: Yes

