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T1255III TERRAIN LEVELER® SEM

# T1255III TERRAIN LEVELER®

SURFACE EXCAVATION MACHINE



# 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.

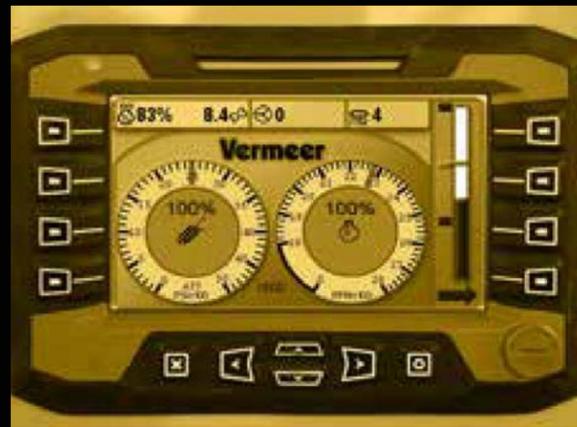
# POWERFUL PRECISION. ANY WAY YOU CUT IT.

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.



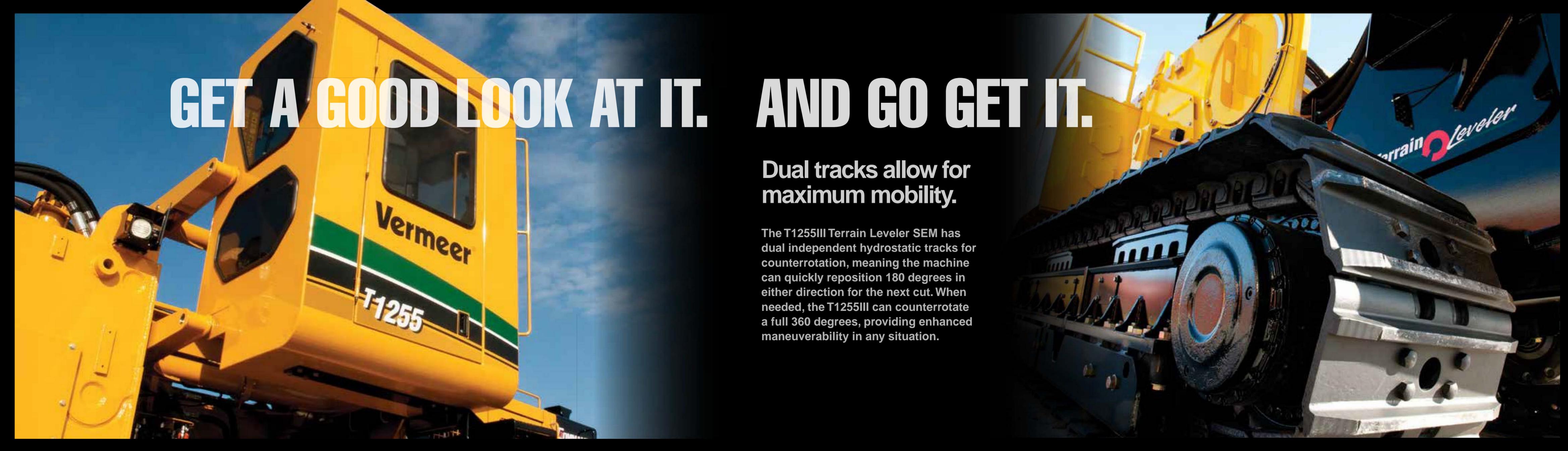
# MUSCLE & BRAINS.

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.

# CONSIDER YOUR OPTIONS:

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).

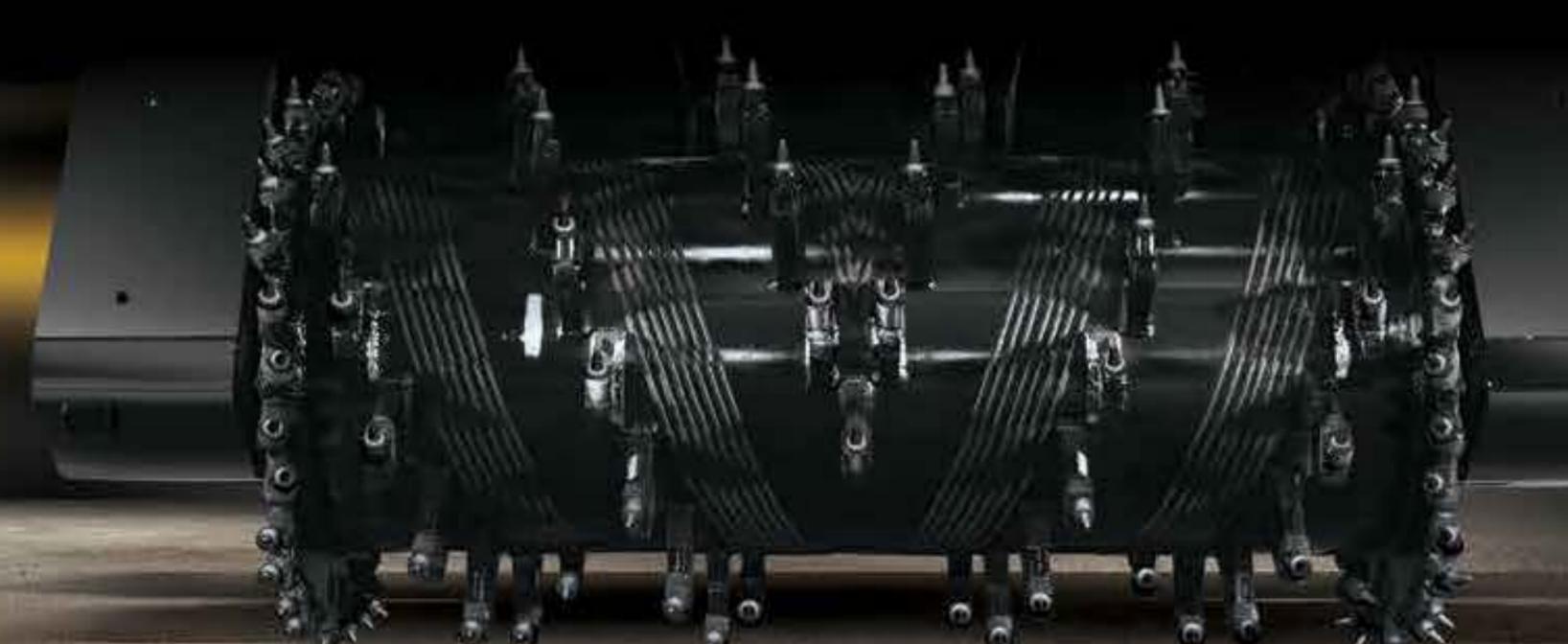


The T1255III is available with either a chain drive or direct drive drum attachment, depending on the job need.



## 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 1255 III TERRAIN LEVELER SEM SPECIFICATIONS

## 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 (*Does not indicate safe machine operating angles*)

**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 (*Does not indicate safe machine operating angles*)

**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

