

T1655 TERRAIN LEVELER® SEM



**T1655 TERRAIN LEVELER®
SURFACE EXCAVATION MACHINE (SEM)**



PRECISION

MORE CONTROL. It's what we all desire, and now there is technology for surface mine, quarry and civil work operations that brings more precision to their excavation projects. Precision excavation, as developed by Vermeer, puts more control in operators' hands for precise, high-production material extraction.



Surface Excavation

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 teeth instantly cut the material into a consistent-sized product.

The product size can be reduced by increasing the depth of cut. This creates a consistent-sized product with reduced fines, as well as allows for cutting in harder material. The product can be handled more efficiently than product produced by drilling and blasting, and the consistent product size greatly reduces the need for primary crushing, and provides a smooth floor for easier loading and hauling.



The
right
size for
the job.

Terrain  **Leveler**[®]

Even the biggest jobs begin to look smaller with the help of the Vermeer T1655 Terrain Leveler[®] SEM — the largest Terrain Leveler SEM Vermeer offers. It's a 185.9-tonne (205 ton), 894.8-kilowatt (1200 hp) machine that makes light work of challenging excavation projects.





One CAT is not enough.



The T1655 features two CAT C18 ACERT engines for a total of 894.8-kilowatts (1200 hp). The dual engine configuration provides power to a common pump drive so that each engine provides full power to the machine. In addition, if one engine is not operational, the machine is still able to function on a single engine. The large 3028.3-liter (800 gal) fuel tank provides 13.2 hours of continuous operation at maximum horsepower.



An operating system that lets you know

An important feature contributing to the ease of operation is the TEC[®] Plus operating system, which allows the T1655 to communicate with the various control modules located throughout the machine. The load control feature allows the machine to automatically adjust ground speed to use full engine horsepower, thus making the machine more productive. This automatically provides the optimum ground drive speed, resulting in maximum productivity in varying conditions.



you're in control.



An air-ride suspension system on the cab provides a smooth, quiet ride for the operator in the typically harsh environment of a surface mining operation — making the T1655 a comfortable machine to operate.



The enclosed cab features a filtered air system, dual self-contained cooling and heating systems, sound attenuating foam, as well as dual air-ride suspension seats for optimum operator and trainer comfort. Not only does the cab elevate to a maximum height of 6.7 meters (22 ft) from the top of the track undercarriage, it can also extend an additional 58.4 centimeters (23 in). The cab on the T1655 Terrain Leveler SEM is designed to be considered a structure in itself. The roll over protective module (ROM) is rated to withstand the conditions should a rollover occur. It also serves as a falling object protective structure (FOPS) for working near a high pit wall.

RIDE



MINGOMAR





The large cutting drum has power and versatility.

The productivity of the T1655 Terrain Leveler SEM centers on the direct drive drum with the drive motors mounted directly to the cutter drum. This not only improves cutter drum efficiency, but it also reduces wear costs associated with chain, sprocket or belt transmissions. A patented tilt feature allows the drum to tilt 5 degrees in either direction for cutting to grade and producing a smooth floor.

The cutter drum is located on the rear of the machine, which allows the drum to cut the material while the tracks are on uncut ground. Replacing a tooth on the drum can be completed in minutes. The T1655 is equipped with an optional wireless remote attachment control (RAC). The RAC allows the operator, while standing on the ground, to start/stop the engine; raise/lower the attachment; and rotate the attachment to inspect or replace cutter teeth and pockets.



The dual tracks allow for maximum mobility.

The T1655 Terrain Leveler SEM has dual independent hydrostatic tracks for counterrotation in either direction, meaning the machine can quickly reposition 180 degrees in either direction for the next cut. When needed, the T1655 can rotate a full 360 degrees, providing enhanced maneuverability in any situation.

360°



The T1655 features a wide track width and low center of gravity.

The center of gravity is near the middle of the machine and is low to the ground. During machine operation, the center of gravity stays within the track width throughout the drum's full range of motion.



and maneuverability.



T1655 TERRAIN LEVELER SEM SPECIFICATIONS

MACHINE SPECIFICATIONS:

Height: 5.1 m (16.8') (not including handrails)

Width (tractor only): 4.2 m (13.8')

Width (with Terrain Leveler SEM attachment): 6.2 m (20.5')

Weight: 185,972.9 kg (410,000 lb)

ENGINE SPECIFICATIONS:

Make and model: Two (447.4 kW [600 hp]), Caterpillar C-18 engines

Gross horsepower (combined): 894.8 kW (1200 hp)

Rated engine rpm: 1800 rpm

Number of cylinders: 12

Fuel tank capacity: 3028.3 L (800 gal)

Operating range: 13.2 hrs

Fuel consumption at full load: 229 L/hr (60.5 gal/hr)

Aspiration: Turbocharged and aftercooled

Electrical system: 24 Volt

TRACK SPECIFICATIONS:

Track drive type: Dual path, hydrostatic planetary transmission

Track length: 5.5 m (18')

Track pad type: Double grouser with dirt relief

Track pad width: 91.4 cm (36")

Track size: Berco Hitachi EX 1100

Max ground speed (low): 14.6 m/min (48 fpm)

Max ground speed (high): 39 m/min (128 fpm)

NOTE: The machines shown in photos herein contain modifications by machine owner to meet certain mine site requirements.

CAB SPECIFICATIONS:

Control system: TEC Plus

Air conditioner and heater: Two

Air suspension seat: Two; operator seat and training seat

Stereo with weather band: Yes

Elevating: Yes

Pressurized and filtered air: Yes

Roll over protective module (ROM): Yes

Falling object protective structure (FOPS): Yes

HYDRAULIC SYSTEM SPECIFICATIONS:

Oil tank capacity: 1892.7 L (500 gal)



TERRAIN LEVELER SEM ATTACHMENT SPECIFICATIONS:

Weight (separate from tractor): 63,956.5 kg (141,000 lb)

Weight (attached to tractor): 185,972.9 kg (410,000 lb)

Left and right tilt: Yes

Max cutting depth: 71.1 cm (28")

Cutting width: 4.6 m (15.1')

Laser acceptable: Yes

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