# PM-200
## Cold Planer


| | | |
|---|---|---|
| **Cat® C18 Engine with ACERT® Technology** | | |
| **Gross Power (SAE J1995)** | **429 kW** | **575 hp** |
| **Operating Weight** | **30 900 kg** | **68,135 lb** |
| **Rotor Width** | **2010 mm** | **79"** |
| **Rotor Depth (maximum)** | **320 mm** | **12.6"** |

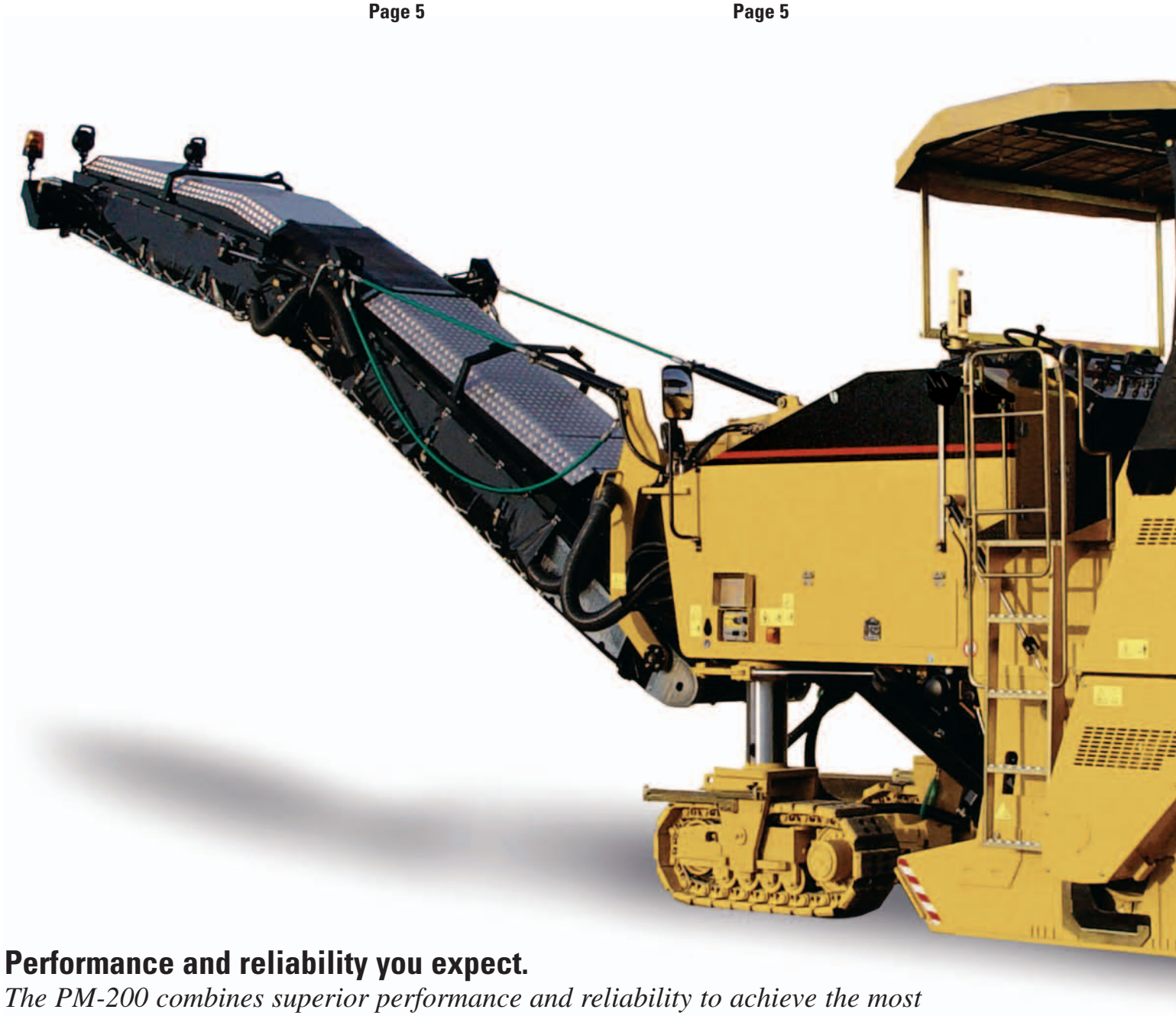
# PM-200 Cold Planer

*The new PM-200 combines enhanced production capabilities, optimized performance and simplified service to complete tough milling applications with productive results.*

**C18 Engine with ACERT® Technology**
ACERT® Technology works at the point of combustion to optimize engine performance and provide low exhaust emissions. The C18 engine with ACERT® Technology provides clean burning power.
**Page 4**

**Propel System**
Propel pump provides balanced flow to dual displacement drive motors on each track. Provides superior tractive effort on all surfaces. The electronically controlled load sensing system matches propel speed to load on engine for maximum production.
**Page 5**

**Rotor Drive**
A Caterpillar wet clutch with automatic belt tension adjustment delivers efficient and reliable power to the pavement. The rotor drive consists of field-proven Caterpillar components for machine commonality and long service life.
**Page 5**



## Performance and reliability you expect.

*The PM-200 combines superior performance and reliability to achieve the most demanding job specifications while maximizing machine uptime. With many enhanced features and options, the PM-200 performs controlled full-depth removal of asphalt layers in a single pass and is also capable of concrete removal.*

**Rotor**
Rotor with quick release conical tool holders for quick and easy tool replacement.
**Page 6**

**Collecting Conveyor**
A large discharge opening and wide collecting conveyor belt clears out the cutter box fast. Water spray system for lubrication, cooling and dust reduction.
**Page 6**

**Folding Front Loading Conveyor**
The PM-200 features a hydraulically folding front loading conveyor for easy transportation. The conveyor swings 48 degrees to the left or right to meet your job requirements.
**Page 7**


**Operator's Station**
Ergonomic design emphasizes comfort, visibility and easy operation. Left and right side machine controls are grouped and conveniently located to enhance operator visibility, productivity and reduce fatigue.
**Page 7**

**Automatic Grade and Slope Controls**
The optional grade and slope system provides precise control of the machine to a preset cutting depth and cross slope. Remote mounted control boxes allow simple operation from either the operator's station or ground level.
**Page 8**

**Maneuverability**
Four steering modes: front, rear, crab and coordinated enable the operator to have complete control of the machine position in tight milling applications. The four-track drive provides productive operation.
**Page 8**

**Serviceability**
The power-assisted engine hood opens wide and provides exceptional access to the engine, hydraulic pumps and daily service points. Hydraulic rotor service door provides convenient access to the rotor for easy cutting tool removal and replacement. The rotor service door also provides easy access to the water spray nozzles for inspection and replacement without the need for tools.
**Page 9**

# C18 Engine with ACERT® Technology

*A combination of innovations working at the point of combustion, ACERT® Technology optimizes engine performance while meeting U.S. EPA Tier 3 and European EU Stage IIIa emission regulations for off-road applications.*


**Optimum Power**
The C18 engine performs at a full-rated gross power (SAE J1995) of 429 kW (575 hp) at 1900 rpm. The combination of large displacement and high torque allow the PM-200 to achieve maximum production. Engine power curve is optimized for milling applications providing optimum power while keeping the engine operating at peak efficiency.

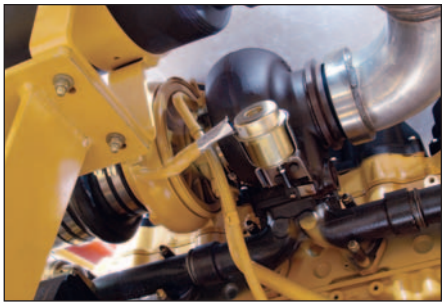
**Mechanically-Actuated Electronically Controlled Unit Injection (MEUI)**
The MEUI fuel system is a unique system that combines the technical advancement of an electronic control system with the simplicity of direct mechanically controlled unit fuel injection. The MEUI system excels in its ability to control injection pressure over the entire engine operating speed range. These features allow the C18 to have complete control over injection timing, duration and pressure.

**Precise Multiple Injection Fuel Delivery**
Combustion chamber temperatures are lowered by precisely shaping the combustion cycle generating fewer emissions and optimizing fuel combustion; translating into more work output for your fuel cost.

**C18 Cylinder Block**
The cylinder block is a one-piece, grey iron block that features generous ribbing for stiffness and heavy bearing bulkheads for rigidity and strength as the crankshaft turns. This new design supports the engine's higher compression ratios and increases its power density. The incorporation of straight-thread, o-ring connection points reduces the loss of engine oil and fluids.

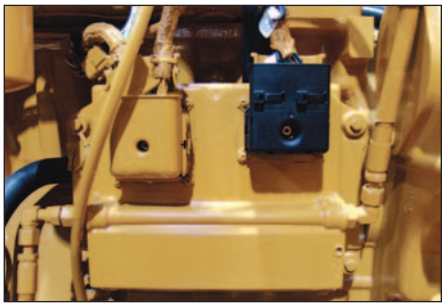
**High Cylinder Pressures**
High cylinder pressures combined with tightly controlled tolerances promote extremely efficient fuel burn, less blow by and lower emissions.

**Service, Maintenance and Repair**
Easier service, maintenance and repair is accomplished by monitoring key functions and logging critical indicators. Advanced electronic diagnostic capabilities are possible using Cat Electronic Technician.



**Turbocharged and Air-to-Air Aftercooling (ATAAC)**
High horsepower with increased response time is assured while keeping exhaust temperatures low for long hours of continuous operation.

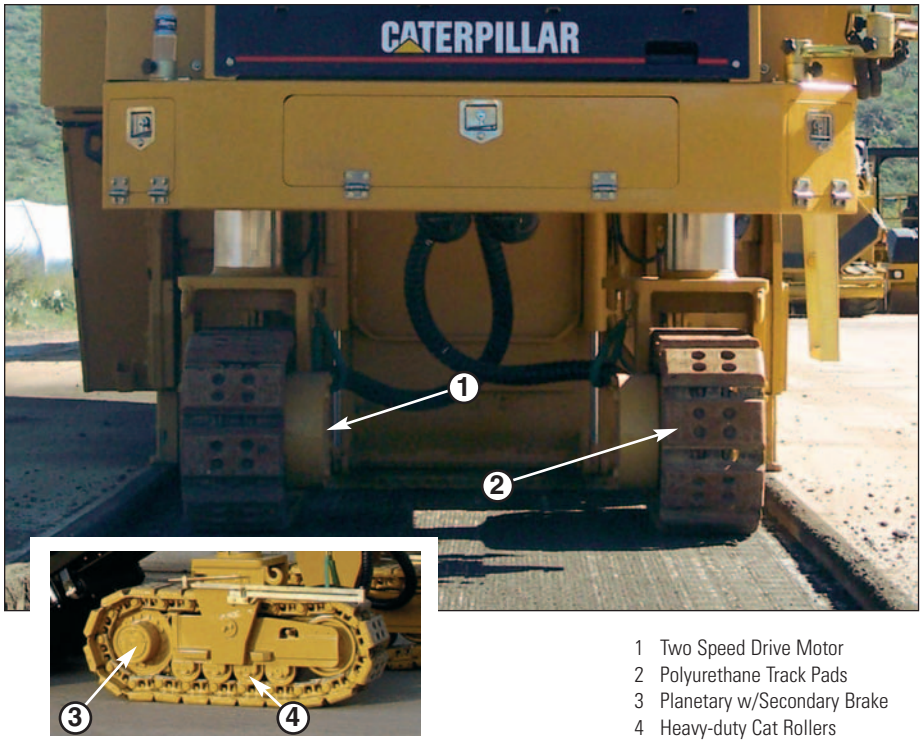
**Air-to-Air Aftercooling**
Air-to-air aftercooling keeps air intake temperatures down and in concert with the tight tolerance combustion chamber components, maximizes fuel efficiency and minimizes emissions. New turbocharger, unique cross-flow head design, single front driven overhead cam and a more efficient intake manifold generate significant improvements in air flow, maximizing efficiency and reduced emissions.



**ADEM™ A4 Electronic Control Module**
The module manages fuel delivery, valve timing and airflow to get the most performance per liter (gallon) of fuel used. The control module provides flexible fuel mapping, allowing the engine to respond quickly to varying application needs. It keeps track of engine and machine conditions while keeping the engine operating at peak efficiency.

## Propel System

*Hydrostatic drive with hydraulic flow provided by a variable displacement piston-type pump. Dual displacement track drive motors provide balanced tractive effort.*




1 Two Speed Drive Motor
2 Polyurethane Track Pads
3 Planetary w/Secondary Brake
4 Heavy-duty Cat Rollers

**Propel pump.** A balanced flow to the dual displacement drive motors on each track provides superior tractive effort on all surfaces.

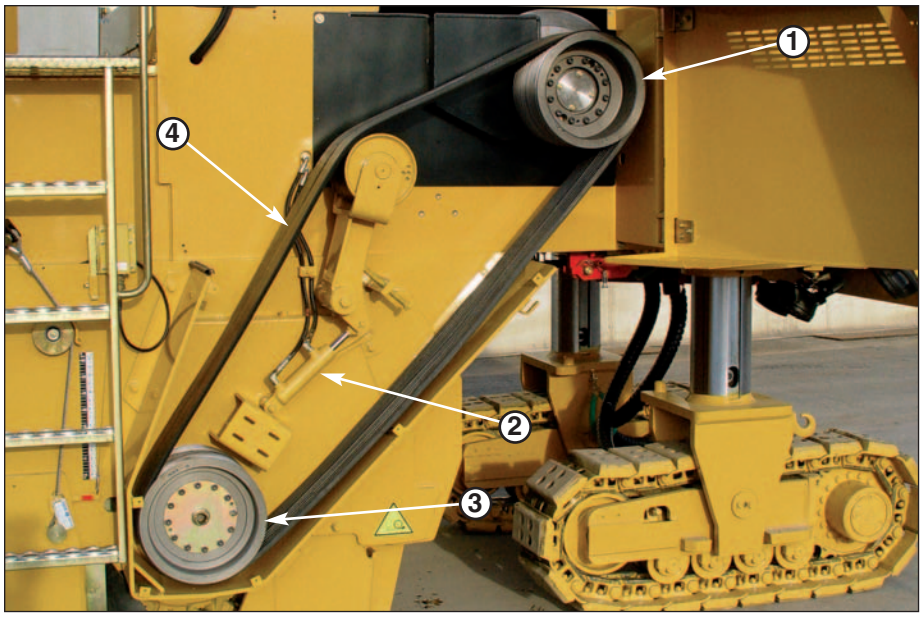
**Load control system (anti-stall).** The electronically controlled system matches propel speed to load on engine for maximum production. Three load control settings can be selected. HIGH for light cuts, MED for medium cuts and LOW for hard cuts.

**Two speed ranges.** The machine operates at either maximum torque throughout the entire milling speed range or at a faster travel speed for moving around the job site.

**Positive traction control (flow divider).** Equal hydraulic oil flow to each drive motor increases tractive effort in hard cutting applications. The positive traction control is actuated from the operator's console.

## Rotor Drive

*Exclusive Caterpillar wet clutch delivers maximum available horsepower to each ground engaging tool while providing long service life and reliability.*




1 Upper Sheave
2 Tension Cylinder
3 Lower Sheave
4 Molded Drive Belts

**Caterpillar wet clutch.** The most efficient and reliable system of applying rotor power to the pavement. The rotor clutch system has a separate oil sump, pump, filter, clutch control valve and oil cooler to provide continuous cooling and lubrication.

**Two cutting speeds.** Upper and lower sheaves are easily interchangeable for maximum torque with the toughest materials and different material sizing requirements.

**Two molded six-rib high tensile belts.** High tensile belts drives the rotor efficiently while providing long service life.

**Automatic belt tension adjustment.** The hydraulically powered automatic drive belt tensioner prevents rotor drive belt slippage and reduces maintenance.

## Rotor

*Quick release conical tool holders for quick and easy replacement.*



*Quick release three-piece tool holder.*

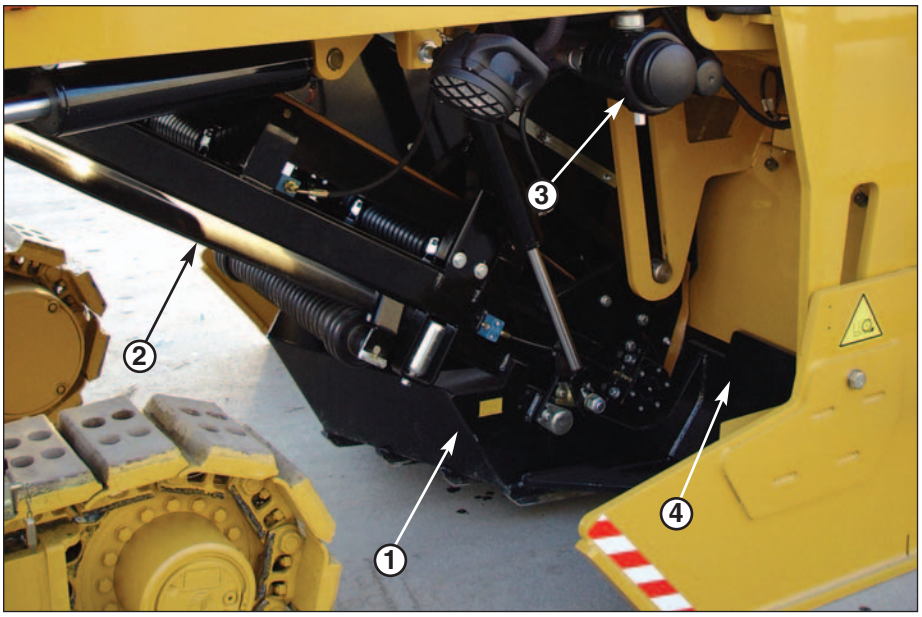
**178 point-attack carbide-tipped tools.** Tools are mounted in durable three-piece, quick release patented tool holders and arranged in a triple wrap flighting pattern for maximum breakout force. Tapered quick release conical tool holders maintain tightness in holder base.

**Large replaceable carbide faced loading paddles.** Loading paddles effectively move milled material onto collecting conveyor resulting in higher production and less wear on inside of rotor chamber and cutting tools.

**Optimum tool spacing.** Triple-tree tool placement on rotor ends provides optimum tool spacing to clean up loose material and reduces wear on rotor when maneuvering in the cut.

## Collecting Conveyor

*A large discharge opening and wide collecting conveyor belt clears out the cutter box fast. Water spray system for lubrication, cooling and dust reduction.*




1 Anti-Slab Device
2 Seamless Belt
3 Water Filter
4 Hydraulic Front Door

**Optimum material sizing and gradation.** The hydraulically operated anti-slab device prevents slabbing of the road surface, protects the collecting conveyor and ensures an optimum discharge opening to the rotor chamber.

**Large discharge opening.** Rotor chamber is rapidly cleared for increased production.

**800 mm (31.5") wide collecting conveyor.** Driven by a high torque hydraulic motor for maximum efficiency.

**Variable belt speed.** Collecting conveyor variable belt speed controls loading of milled materials to closely match material type and amount.

**Optimum dust reduction.** Standard water spray lubricates and controls dust on collecting belt. Water spray nozzles are easily accessed for inspection and replacement without the need for tools.

## Folding Front Loading Conveyor

*High capacity and versatility add to increased job site productivity. Conveyor can be folded to reduce machine dimensions during transport.*

**Hydraulic folding conveyor.** Machine transportation is made easier by the upward hydraulically folding conveyor that reduces the machine dimensions.

**800 mm (31.5") wide upper conveyor.** Front loading conveyor height adjustment is hydraulically controlled and two cylinders provide a 48 degree swing to the left and right.

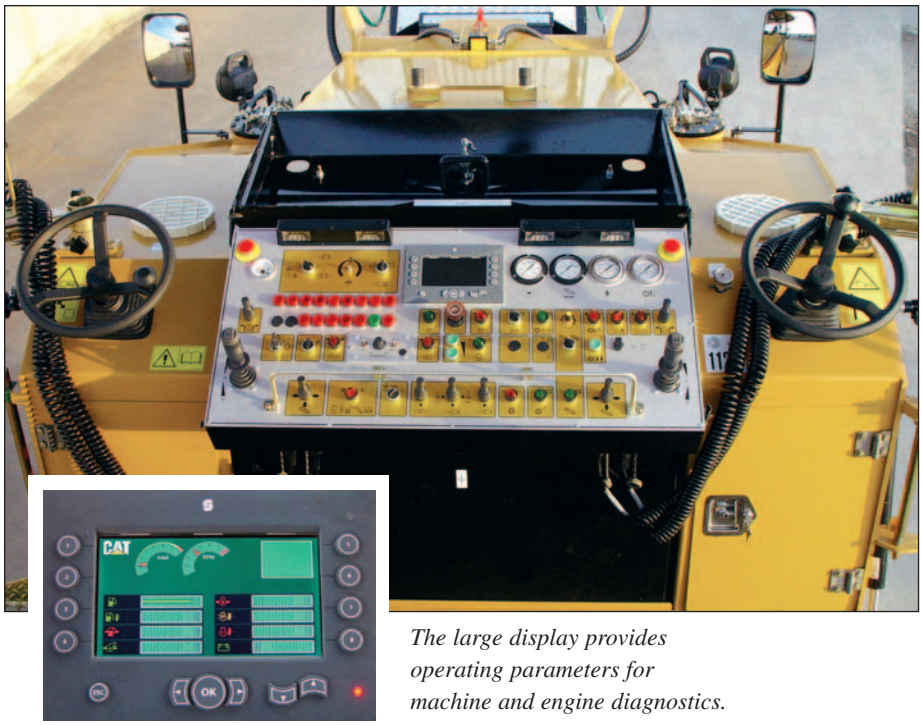
**Seamless belt.** Seamless belt with high cleats offers long service life and provides better control of fine particles.

**Variable belt speed.** Front loading conveyor variable belt speed controls loading of milled materials to closely match material type and amount.

**Optional dual water spray system.** Provides additional water spray for cooling and lubrication for cutting tools and dust abatement during tougher cutting applications. System includes a water pump and extra spray nozzles.

## Operator's Station

*Designed for efficiency, productivity and simple operation from either side of the console. Easy to reach controls minimize operator fatigue.*




*The large display provides operating parameters for machine and engine diagnostics.*

**Dual operating controls.** Clear control and instrumentation layout designed for ease of use. All gauges and displays are easily visible even in direct sunlight.

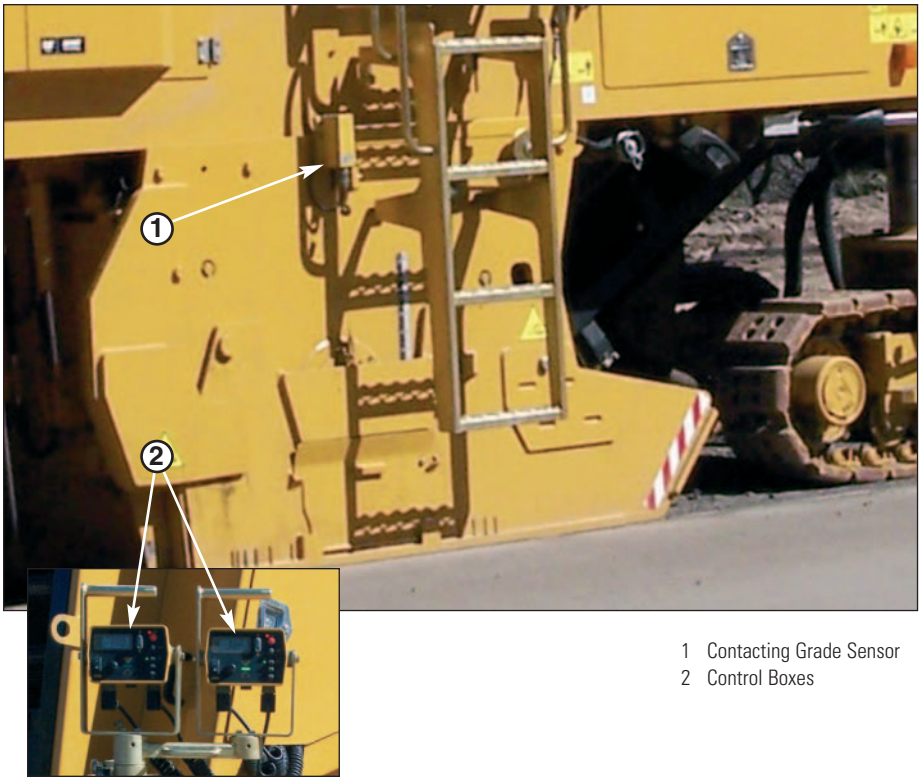
**Computerized monitoring system.** The system constantly monitors system pressures and engine condition with multiple modes of operation. Alerts the operator if a problem does occur with three levels of event information.

**Hydraulically operated canopy option.** Full width canopy with two side extending wings and front and rear windshields provides optimum operator comfort and protection. Canopy can be hydraulically lowered for transportation.

**Optimum night lighting.** Work area is efficiently illuminated by a set of quick-fitting lights conveniently stored in one of the machine's compartments.

## Automatic Grade and Slope Control Options

*The optional contacting or non-contacting grade controls provide precise control of rotor to a preset cutting depth. System can be configured to control grade or cross slope.*




1 Contacting Grade Sensor
2 Control Boxes

**Contact or non-contact grade sensors.** Sensors can be positioned on each side are easy to position and provides consistent accuracy. Cross slope sensor adds to system versatility.

**Contacting wire rope grade sensor.** Sensor measures side plate movement that enables the entire length of the side plate to become an averaging device for extremely accurate grade matching.

**Remote mounted control boxes.** Allows manual or automatic operation from either the operator's station or at ground level. Constant read-out for rotor depth and cross slope are easily visible in direct sunlight or low light conditions.

**Sonic Averaging System.** This system features three non-contacting grade sensors or a combination of one contacting and two non-contacting sensors that mount on the side of the machine. Enables the entire length of the machine to become an averaging device.

## Maneuverability

*Four steering modes provide excellent handling for precise control on narrow city streets and increased production.*


**Four steering modes.** Steering control provides four steering modes for maneuvering in tight quarters: front steer, crab steer, coordinated steer and rear steer only.

**Tight cutting radius.** 2.0 m (6' 5") cutting radius allows for precise milling on narrow city streets and cul-de-sacs.

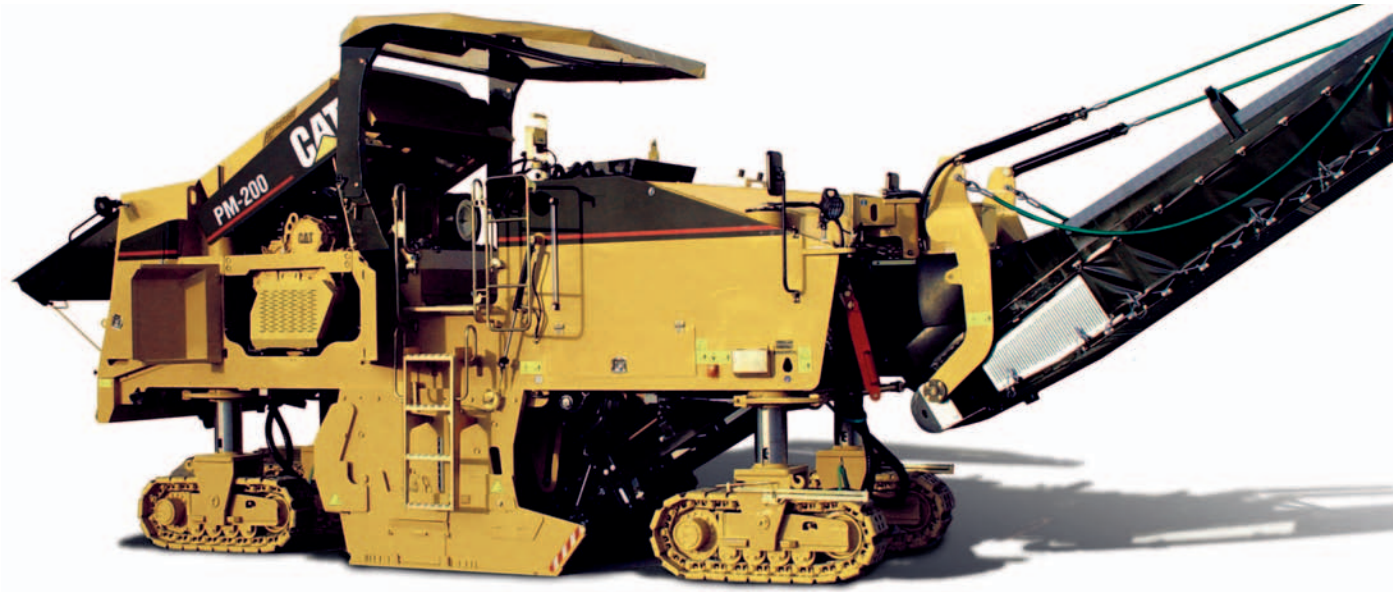
**Polyurethane track pads.** Polyurethane track pads provide good traction and improved durability against track pad separation.

**Excellent visibility to the cutter box side plates.** Excellent visibility increases productivity and allows the operator to precisely place the rotor against gutter pans or when working near obstructions.

**Dual propel levers.** Infinitely variable machine speeds for moving around the job site quickly.

# Reliability and Serviceability

*Reliability and serviceability are integrated into every Caterpillar machine. These important features keep your machine investment profitable.*




*The power-assist engine hood opens wide to provide excellent access to the engine, air filter, hydraulic components and daily service points.*

**Hydraulic rotor service door.** Service door opens wide for convenient access to rotor for inspection and tool maintenance.

**Electronic Control Module (ECM).** Machine systems are monitored providing self-diagnostics for operator or service personnel.

**Three warning levels.** Operator is alerted to conditions on the machine that requires attention. Encourages repair before major failure.
Level One – operator can continue to operate however the system requires attention soon.
Level Two – operator should change machine operation or perform the required maintenance to the system as soon as possible.
Level Three – represents the most severe condition and the machine should be shut down immediately in a safe manner.

**Visual indicators.** Visual indicators allow easy check of water spray tank level and hydraulic oil tank level.

**Quick-connect hydraulic test ports.** Quick-connect feature simplifies system diagnostics.

**Ecology drains.** Environmental method to drain fluids. They are included on the radiator, engine oil pan, hydraulic and fuel tank.

**S•O•S℠ ports.** Scheduled Oil Sample ports allow for simple fluid collection of hydraulic oil.

**Secure hose routing.** Polyethylene routing blocks provide a secure routing to reduce rubbing and increase service life of hoses.

**Maintenance-free Caterpillar batteries.** Batteries are mounted at the rear of the machine. Batteries are specifically designed for maximum cranking power and protection against vibration.

**Cooling package.** The cooling package is a single plane design, stacked in series for easy access for cleaning and service. A modular stacked cooling system provides more efficient cooling of individual systems and makes routine cleaning easier.

**Accessory drive system.** In an engine not running condition or non-operational auxiliary hydraulic system, full operational control of main machine functions are readily available for assisted machine movement for maintenance and servicing.

## Engine

The Caterpillar® C18 engine with ACERT® Technology is a six cylinder, turbocharged air-to-air after-cooled diesel engine. The engine meets U.S. EPA Tier 3 and European EU Stage IIIa engine emission regulations.

| Engine | Cat® C18 | |
|---|---|---|
| **Gross Power** | **kW** | **hp** |
| SAE J1995 | 429 | 575 |
| **Net Power** | **kW** | **hp** |
| ISO 9249 | 415 | 557 |
| EEC 80/1269 | 415 | 557 |
| SAE J1349 | 410 | 550 |
| **Specifications** | | |
| Bore | 145 mm | 5.7" |
| Stroke | 183 mm | 7.2" |
| Displacement | 18.1 liters | 1105 $in^3$ |

- The power ratings apply at a rated speed of 1900 RPM when tested under the reference conditions for the specific standard.
- The net power advertised is the power available at the flywheel when the engine is equipped with an alternator, air cleaner, muffler and fan at minimum speed.
- Derating is not required up to an altitude of 2134 m (7000').
- Dual fuel filters with water separator and air compressor are standard.

## Propel System

Hydrostatic drive with hydraulic flow provided by a variable displacement piston-type pump. Drive motors with planetary gear reduction on each track provides balanced tractive effort.

**Features**

- A variable displacement, piston-type pump with electronic displacement control supplies pressurized flow.
- Positive traction control valve provides equal hydraulic oil flow to each drive motor to increase tractive effort in hard or deep cuts. Operator can activate by a switch on the operator's console.
- Drive motors have two swashplate positions allowing operation at either maximum torque throughout the entire milling speed range or at a faster travel speed for moving around the job site.
- Gear selection controlled electrically by a two-position switch on the operator's console.
- Infinitely variable machine speed and direction of travel controlled by propel lever.
- Load control system, controlled by Electronic Control Module (ECM), matches propel speed to load on the engine for maximum production. With the machine in work mode and load control engaged, three load control settings can be selected. HIGH for light cuts, MED for medium cuts and LOW for hard cuts.
- Tracks are 1640 mm (64.5") long, 300 mm (12") wide and feature replaceable polyurethane track pads for long service life.

| **Max. Speeds (forward and reverse):** | |
|---|---|
| Operating | 38 mpm - 125 fpm |
| Travel | 5.9 km/h - 3.6 mph |

## Rotor Drive System

Operates direct through a hydraulically actuated, Caterpillar wet clutch driving a planetary gear reducer.

**Features**

- Heavy-duty wet clutch mounts directly to the engine. Hydraulically actuated by a ON/OFF switch on the operator's console.
- The rotor clutch system has a separate oil sump, pump, filter, clutch control valve and oil cooler to provide continuous cooling and lubrication.
- Two six-rib high tensile strength drive belts drive the rotor through a drum drive gear reducer located inside the rotor mandrel.
- Hydraulically powered automatic drive belt tensioner prevents rotor drive belt slippage and reduces maintenance.
- Upper and lower sheaves are easily interchangeable for maximum torque with the toughest materials and different material sizing requirements.
- Single caliper with dual disc brake installed on PTO output drive shaft.

| **Rotor Speed:** | |
|---|---|
| @ 1900 engine rpm | 114 rpm |

## Rotor Housing

- Large discharge opening clears out the rotor housing fast for increased production and reduced tool wear.
- Side plate contact surfaces feature a wear-resistant ski for reduced wear and longer service life.
- Floating moldboard with adjustable down pressure is standard and features replaceable cutting edges.
- Height control for moldboard located at operator's station and at two ground level control stations.

## Electrical

The 24-volt electrical system consists of two maintenance-free Cat batteries. Electrical wiring is color-coded, numbered and labeled with component identifiers. The starting system provides 1365 cold cranking amps (cca). The system includes a 100-amp alternator.

## Steering

Hydraulic power-assist steering with two steering wheels on operator's console. Four steering modes with automatic realignment of rear tracks through ECM is standard.

### Features

- Double-acting steering cylinders control the front and rear tracks and are powered by a pressure-compensated, piston-type pump. Constant pressure is assured in the steering system.
- Switch on operator's console provides four steering modes.

### Steering Modes

- Front steer only—controlled by the steering wheel from both driving positions. The ECM automatically aligns rear tracks to the center position for straight tracking.
- Rear steer—controlled by joysticks on operator's console and toggle switches at ground level control panels. Rear steering is controlled manually in this steering mode.
- Crab—front and rear tracks turn simultaneously in the same direction.
- Coordinated—front and rear tracks turn simultaneously in the opposite direction.

| Turning Radius: | |
|---|---|
| Minimum | 2.0 m (6' 5") |

## Conveyor System

- Collecting conveyor features 32 mm (1.25") high cleats and is driven by a high torque hydraulic motor to ensure maximum production and clearing out the rotor housing effectively.
- Variable belt speed control for collecting and front loading conveyors controls loading of milled materials to closely match material type and amount.
- Both conveyor belts can be reversed for quick clean out.
- Hydraulically folding front loading conveyor facilitates machine transportation.
- Upper aluminum covers on loading conveyor helps avoid material spillage and wind blown fine materials.

| Collecting Conveyor | | |
|---|---|---|
| Width | 800 mm | 31.5" |
| Speed | 300 mpm | 985 fpm |

| Upper Conveyor | | |
|---|---|---|
| Width | 800 mm | 31.5" |
| Speed | 300 mpm | 985 fpm |
| Swing (from center) | | 48 degrees |

## Brakes

### Primary Brake Features

- Closed-loop hydrostatic drive provides dynamic braking during normal operation.

### Parking Brake Features

- Spring-applied/hydraulically-released multiple disc type brake mounted on each gear reducer. Brakes are applied automatically when propel lever is in the neutral detent position.
- Secondary brakes are activated by a button on the operator's console, loss of hydraulic pressure in the brake circuit or when the engine is shut down.
- Propel pump is destroked when parking brake is engaged. Propel lever must be returned to neutral after brake is released before machine will propel.

## Weights

| Operating Weights | | |
|---|---|---|
| Machine | 30 900 kg | 68,135 lb |
| on front tracks | 16 100 kg | 35,500 lb |
| on rear tracks | 14 800 kg | 32,635 lb |

Weights shown are approximate and include coolant, lubricants, full fuel tank, full water tank and a 75 kg (165 lb) operator.

| Shipping Weights | | |
|---|---|---|
| Machine | 28 000 kg | 61,740 lb |
| on front tracks | 12 650 kg | 27,895 lb |
| on rear tracks | 15 350 kg | 33,845 lb |

Weights shown are approximate and include coolant, lubricants, 50% fuel level and empty water tank.

## Water Spray System

- Centrifugal pump supplies water to spray nozzles for dust control and belt lubrication.
- Water spray nozzles focuses the water spray in a flat fan pattern to the rotor for better cooling of cutting tools.
- Nozzles are easily removed for inspection and replacement without the need for tools.
- Standard system includes gauges to monitor water pressure, low water level indicators and water control valves to conserve water usage.
- An optional water spray system is available for additional lubrication and cutting tool cooling and for additional dust abatement during heavy-duty cutting applications.
- Water tank can be filled from the top of the machine or at ground level.

## Hydraulic System

- Pumps for propel, rotor drive, collecting and upper conveyors, auxiliary hydraulics and cooling fan are installed on the engine mounting pad.
- Hydraulic oil cooler located at the rear of the machine and arranged in a modular stacked design for efficient cooling and easy access for cleaning.
- Three-micron filtration on pressure side of auxiliary flow, seven-micron filtration on return side. Machine hydraulic circuit cleanliness level at 18/15 ISO code.
- Quick-connect hydraulic test ports simplify system diagnostics.

## Service Refill Capacities

| | Liters | Gallons |
|---|---|---|
| Fuel tank (useable) | 1100 | 290 |
| Engine oil w/filter | 64 | 17 |
| Propel planetary gear reducer (each) | 1.0 | 0.26 |
| Hydraulic tank | 200 | 52.8 |
| Rotor clutch sump | 48 | 12.7 |
| Water spray system | 3500 | 925 |

## Frame

Fabricated from heavy gauge steel plates and structural steel tubing. Track assembly features track frame stops to limit track angles to provide machine's ability to propel up inclines and out of deep cuts. Top of deck and steps features non-skid treads for sure footing.

## Grade and Slope Control

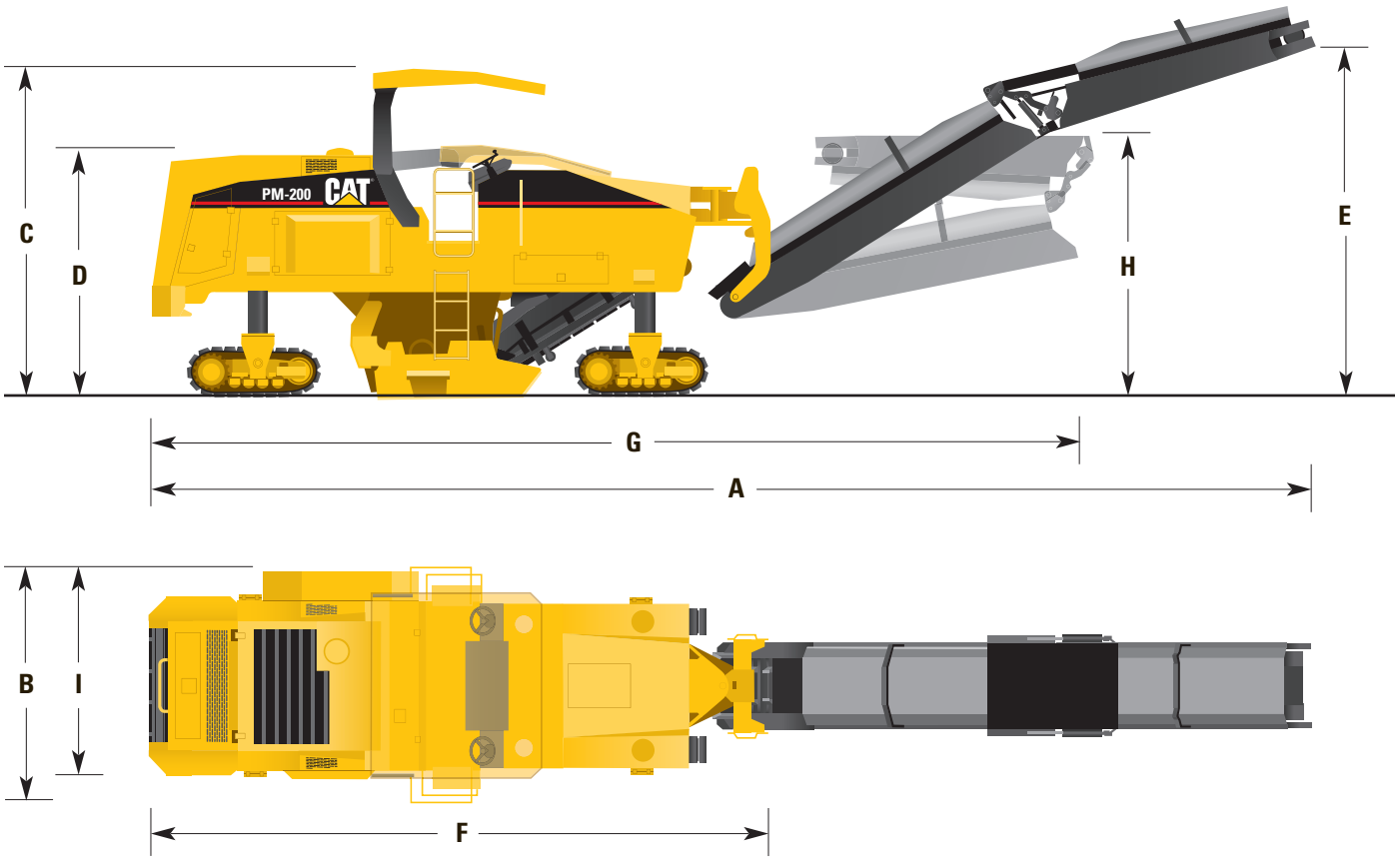
Machine elevation – rotor depth and cross slope controlled manually by operator is standard. Automatic rotor depth and slope control is optional and features electronic over hydraulic control. System can be configured with contacting or non-contacting grade sensors. Slope sensor adds versatility.

**Features**

- Machine elevation controls located on the operator's console and at ground level allows rotor depth and cross slope to be controlled manually. Visual depth gauge displays depth of cut.
- The optional AUTOMATIC grade and slope control automatically controls rotor depth and cross slope to a preset cutting depth. Setting cutting depth is easily accomplished first in manual mode by using the adjustment knob on the controller.
- Remote mounted control boxes allow manual or automatic operation from either the operator's station or at ground level. A cross communication function allows the operator to view and change settings of control boxes located on the opposite side of the machine. This allows operators a means to control both sides of a job from a single location. Constant read-out for rotor depth and cross slope are easily visible in direct sunlight or low light conditions.
- Sonic grade control sensors can be positioned on each side are easy to position and provides a consistent accuracy.
- Wire rope contacting grade sensor measures side plate movement that enables the entire length of the side plate to become a mini averaging ski for optimum grade matching.
- Sonic Averaging System features three non-contacting grade sensors or a combination of one contacting and two non-contacting sensors that mount on the side of the machine. Enables the entire length of the machine to become an averaging device.
- Remote mounted control boxes and sonic grade sensors can be easily removed and securely stowed to prevent damage or theft.

# Dimensions

| | | | |
|---|---|---|---|
| **Operating** | | | |
| A | Overall length (conveyor up) | 13.94 m | 45' 7" |
| B | Overall machine width | 2.9 m | 9' 5" |
| C | Maximum height (canopy raised) | 3.95 m | 12' 7" |
| D | Minimum height | 2.93 m | 10' 6" |
| E | Maximum truck clearance | 4.6 m | 15' |
| | Rotor ground clearance | 356 mm | 14" |
| | Conveyor swing | 48 degrees left or right of center | |
| | Collecting conveyor width | 800 mm | 31.5" |
| | Upper conveyor width | 800 mm | 31.5" |
| | Inside turning radius | 2.0 m | 6' 5" |
| **Shipping** | | | |
| F | Length of base machine | 7.5 m | 24' 6" |
| G | Length (conveyor folded) | 11.38 m | 37' 3" |
| H | Height (conveyor folded) | 3.15 m | 10' 3" |
| I | Maximum width | 2.5 m | 8' 2" |



# Optional Equipment

*Note: Some options listed may be an option in some areas and standard in others. Consult your dealer for specifics.*

**Hydraulically Operated Canopy.** Full width canopy with two side extending wings and front and rear windshields provides optimum operator comfort and protection. Canopy can be hydraulically lowered for transportation.

**High Pressure Washdown System.** This system uses water from the water spray system tank to help with machine clean-up at the end of each day's operation. System includes a spray wand and hose with a quick-connect coupler.

**Water Tank High Capacity Refilling Pump.** A hydraulically driven water pump provides fast water tank refilling.

**Electric Refueling Pump.** An electric powered fuel pump provides fast refueling operations while the machine is working without interruption. Machine refueling can be carried out even without starting the engine.

**Additional Water Spray System for Dust Reduction.** An additional water spray system for additional cooling of the cutting tools in hard applications and dust abatement. This system consists of an extra water pump, a second spray bar in the rotor chamber for additional cooling of the cutting tools and extra spray nozzles for additional dust abatement on the collecting and loading conveyors.

**Ground Control Moldboard Pressure Adjustment.** Moldboard down pressure can also be adjusted and varied by ground crew.

**Pneumatic Tool.** Pneumatic tool with quick-connect fitting and knockout hammer for removing cutting tools.

**Hydraulic Hammer Connection Ports.** Quick-connect fitting for hydraulic hammer.

**Two Operator Seats.** Two folding cushioned seats provide further operator comfort during operation. Seats can be folded to facilitate access to engine compartment from the operator's station.

**Automatic Grade and Slope System.** Automatically controls rotor depth and cross slope to a preset cutting depth. System can be configured with contacting or non-contacting grade sensors. System also includes a cross slope sensor to meet slope applications/requirements in job specifications.

Contacting wire rope grade sensor measures side plate movement that enables the entire length of the side plate to become a mini averaging ski for optimum grade matching.

Non-contacting sonic grade sensors can be configured using one sensor per side or the Sonic Averaging System (SAS).

The Sonic Averaging System features three non-contacting grade sensors or a combination of one contacting and two non-contacting sensors that mount on the side of the machine. Enables the entire length of the machine to become an averaging device.

# PM-200 Specifications

| Operating Weights | | |
|---|---|---|
| Machine | 30 900 kg | 68,135 lb |
| on front tracks | 16 100 kg | 35,500 lb |
| on rear tracks | 14 800 kg | 32,635 lb |

| Shipping Weights | | |
|---|---|---|
| Machine | 28 000 kg | 61,740 lb |
| on front tracks | 12 650 kg | 27,895 lb |
| on rear tracks | 15 350 kg | 33,845 lb |

| Machine Dimensions (operating) | | |
|---|---|---|
| Overall length (conveyor up) | 13.94 m | (45' 7") |
| Overall machine width | 2.9 m | (9' 5") |
| Maximum height (canopy raised) | 3.95 m | (12' 7") |
| Minimum height | 2.93 m | (10' 6") |
| Maximum truck clearance | 4.6 m | (15') |
| Rotor ground clearance | 356 mm | (14") |
| Conveyor swing | 48 degrees left or right of center | |
| Collecting conveyor width | 800 mm | (31.5") |
| Upper conveyor width | 800 mm | (31.5") |
| Inside turning radius | 2.0 m | (6' 5") |

| Machine Dimensions (shipping) | | |
|---|---|---|
| Overall length of base machine | 7.5 m | (24' 6") |
| Length (conveyor folded) | 11.38 m | (37' 3") |
| Height (conveyor folded) | 3.15 m | (10' 3") |
| Maximum width | 2.5 m | (8' 2") |

| Power Train | | |
|---|---|---|
| Engine | C18 with ACERT® Technology | |
| Gross power (SAE J1995) | 429 kW | 575 hp |
| Speeds | | |
| Operating | 38 mpm | 125 fpm |
| Travel | 5.9 km/h | 3.6 mph |
| Drive train (propel) | Hydrostatic w/planetary | |
| Track length | 1640 mm | (64.5") |
| Track width | 300 mm | (12") |

| Rotor Drive System | |
|---|---|
| Rotor drive | Two six-rib high tensile belts |
| Transmission | Mechanical |
| Clutch | Hydraulic/wet multi-disc |
| Gear reduction | Planetary |
| Speed | 114 rpm |

| Rotor | | |
|---|---|---|
| Cutting width | 2010 mm | (79") |
| Cutting depth | 320 mm | (12.6") |
| Number of tools | 178 | |
| Tool spacing (tip) | 15 mm | (0.6") |

| Miscellaneous | | |
|---|---|---|
| Electrical system | 24 VDC | |
| Steering system | Front/Rear | |
| Water tank capacity | 3500 liters | 925 gal |
| Fuel capacity | 1100 liters | 290 gal |

# Caterpillar offers a comprehensive line of profilers.

*The PM-102 and PM-201 are designed to have the best productivity, reliability, versatility, visibility and ease of operation in their class.*

*Contact your local Caterpillar dealer to learn more about the complete line of Caterpillar Paving Products.*


**PM-102**

| | | |
|---|---|---|
| Operating Weight | 17 600 kg | 38,810 lb |
| Gross Power (SAE J1995) | 168 kW | 225 hp |
| Cutting Width | 1000 mm | 40" |
| Cutting Depth | 305 mm | 12" |
| Propel Speeds | | |
| Operating | 27 mpm | 89 fpm |
| Travel | 4.1 km/h | 2.5 mph |
| Rotor Drive | Six-rib high tensile belt | |
| Clutch | Hydraulic/dry multi-disc | |


**PM-201**

| | | |
|---|---|---|
| Operating Weight | 39 165 kg | 86,360 lb |
| Gross Power | 485 kW | 650 hp |
| Cutting Width | 2100 mm | 83" |
| Cutting Depth | 305 mm | 12" |
| Propel Speeds | | |
| Operating | 40 mpm | 132 fpm |
| Travel | 6.0 km/h | 3.7 mph |
| Rotor Drive | Eleven-rib high tensile belt | |
| Clutch | Hydraulic/wet multi-disc | |



QEHQ1174 (06/05)



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