PM310 | PM312 | PM313

COLD PLANERS

U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V	
Gross Power (SAE J1995:2014)	256 kW (343 hp)
Engine Power (ISO 14396:2002)	253 kW (339 hp)
Milling Width	
PM310	1000 mm (39.4 in)
PM312	1225 mm (48.2 in)
PM313	1300 mm (51.2 in)

See Technical Specifications for detailed engine emissions information.

PM310, PM312 & PM313

COLD PLANERS

The **PM310, PM312 AND PM313** are equipped to deliver efficient production with the milling precision you need to stay competitive. With three milling widths and options available to enhance versatility, you can customize your machine to suit numerous applications. Whether milling highway approaches, shoulders or urban streets, a configuration is available to help you meet your job requirements.

COMFORTABLE OPERATION

An ergonomically adjustable work area puts intuitive controls at your fingertips for operation while seated or standing. A 14-button ground-level keypad and optional display gives supporting personnel access to numerous machine controls.

MILLING PRECISION

Integrated technology and Cat® System K rotors help achieve uniform cutting patterns and profiles. Cat track undercarriages are designed to provide a balance between traction, speed and maneuverability for smooth operation.

LOW COST OF OWNERSHIP

Track components do not require routine maintenance. Extended service intervals help reduce downtime and decrease the amount of labor and parts replaced over the life of the machine.

MADE TO

GET THE WORK DONE

A fuel-efficient engine and effective conveyor system help provide the power and performance needed to keep up with the demands of grinding through pavement hour after hour.

FUEL-EFFICIENT POWER

The Cat C9.3B engine meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Stage V emission standards and delivers an increase in power density along with the latest electronic, fuel, and air systems compared to the previous Cat C9.3 engine.

Engine Idle Speed Management helps maximize fuel efficiency by elevating engine speed to an intermediate idle to complete specific tasks and returning to low idle when finished. A variable-speed cooling fan operates at the lowest possible speed for optimal cooling.

Features like Automatic Load Control and multiple rotor speed selections aid in maximizing production at lower engine speeds for fuel-efficient milling.

EFFICIENT MATERIAL REMOVAL

High-capacity conveyors with a wide opening and seamless belt efficiently remove milled material. Belt speed can be adjusted to match material type and production rate for outstanding discharge control. The belt reverses for fast clean out, and the loading conveyor folds for easy maintenance and transportation. Easy-to-open side covers provide quick access to inspect and clean the rollers.

TRACTION, MANEUVERABILITY AND CONTROL

DESIGNED FOR MOBILITY

Four steering modes with an automatically-adjusting rear alignment system are designed to deliver steering precision and smooth turning, further enhanced by the large ground contact area of each track.

TRACKS INSPIRED FROM A LEGACY

The reliable track undercarriage system on the PM300-Series cold planers leverages proven designs from Cat mini excavators. A well-engineered track geometry is designed to provide high tractive effort and better load distribution when milling deep cuts or through hard materials.

ADVANCED PROPEL SYSTEM

A robust propel system with Automatic Traction Control drives the tracks in a cross-drive pattern to maintain consistent production in almost any application. Automatic Load Control monitors demand on the machine and adjusts milling speeds to help prevent overloading while maintaining production rates.

VERSATILE

The articulating right rear leg allows you to choose the position based on application. For extra stability and better weight distribution in demanding cuts or during transport, it can be positioned outboard of the cutting chamber. Position the leg inboard in front of the rotor and extend the sliding operator station when needed for flush cuts.

CONSISTENT MILLING PATTERNS
MADE EASY

Automated speed controls allow operators to easily maintain and achieve a milling pattern that meets visual or measured specifications in a wide variety of applications.

SAVE AND RECALL MILLING SPEED

Maintaining your milling speed is key to achieving a consistent cutting pattern. Once a rotor speed is selected and pattern is established, use of the cruise control button quickly stores the propel speed and repeatedly returns to that same speed throughout the day. This is particularly useful when finishing a cut and starting again in a different position.

TAKE A BREAK

Standby/Resume pauses major machine functions and lowers engine speed to conserve fuel during truck exchanges. When ready to resume milling, a push of the same button brings the machine back up to production at the same speed as before to maintain the same cutting pattern.

SPEED CONTROL WITH THE
PUSH OF A BUTTON

Choose rotor and milling speed to achieve the desired pattern.

- Press and hold **Cruise Control** button for two seconds to save your milling speed.
- During truck exchanges, press the **Standby/Resume** button to pause the machine.
- Press **Standby/Resume** again to continue milling at the same speed.
- For each new cut, press the **Cruise Control** button to return to the saved milling speed.

IMPROVE ACCURACY WITH AUTOMATED FEATURES

Take the guesswork out of producing accurate and repeatable cutting results by using automated features within the integrated Cat Grade and Slope system. The machine displays allow easy access to adjust elevation, slope settings and sensors through the highly intuitive touchscreen interface. An optional display can be added to the operator station or on the back of the machine to enable interaction with the grade system from the ground level.

PLUNGE-CUT CAPABILITY

Adjust the speed at which the rotor drops into the cut for optimal machine control. Save your settings to reduce set up time for the next job.

AUTOMATED CUT TRANSITION

Set and automate grade and slope transitions for tapered start or end cuts over a specified distance, eliminating the need for manual adjustments of the grade control targets.

OBSTACLE JUMP

Easily clear obstacles in the cutting path using the obstacle jump feature, accessible from both the operator station and ground level controls.

3D 3D MILLING CAPABLE

Cat cold planers can be enhanced with full 3D milling capability to meet job specifications (additional hardware required).

ENHANCED VISIBILITY

SEE AND BE SEEN

WORK AREA LIGHTING

Work areas around the machine are illuminated for nighttime visibility and operation with halogen or wide-dispersion LED work lights. Touchscreens automatically change to night mode when the work lights are activated.

REMOTE CAMERAS

Visibility to both cutting edges, conveyor and rear of the machine can be enhanced with up to four optional remote cameras, viewable through the main touchscreen display at the operator station.

ALL-DAY COMFORT

The work area can be set up for operator preference and working position. Touchscreen displays provide access to the gauge cluster, operating information, remote camera feeds, machine controls and diagnostics.

COMFORTABLE OPERATOR STATION

Frequently used controls and the propel lever are integrated into the adjustable right-side armrest for operator efficiency and ergonomics. The armrest can be raised, lowered and/or slid forward and backward to find the ideal operating position, whether seated or standing. A comfortable suspension seat moves backwards for additional space.

The operator station slides outward up to 215 mm (8.5 in) increasing visibility to the right side cutting edge.

An optional hydraulically-powered canopy with integrated side extension and an optional handrail-mounted windscreen help protect the operator from the elements.

OPERATOR ENVIRONMENT ENHANCEMENTS

The optional dust extraction and spray bar systems are designed to maximize dust removal from the working area, contributing to cleaner air for the crew and surrounding environment.

Exhaust can be better directed up and away from ground personnel or when milling close to buildings with the optional and stowable exhaust diverter.

SIMPLE CONTROLS

Whether in the operator station or on the ground, the easy-to-use controls are grouped by function with intuitive icons. A 14-button ground level keypad gives supporting personnel access to adjust leg height, sideplates, moldboard, water spray and lighting. All operator controls are backlit for low-light environments.

FLUSH CUT ASSISTANCE

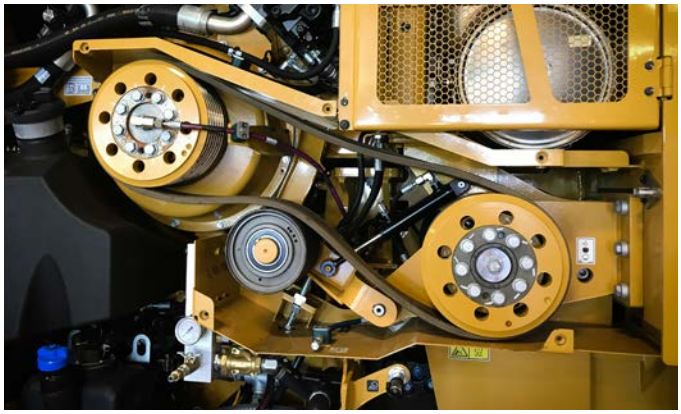
Cut closer to obstacles on either side with the help of an optional remote camera with an adjustable on-screen guidance line, viewable on the touchscreen display on the main operator console.

DURABLE AND DEPENDABLE
CUTTING SYSTEM

The robust cutting system is engineered to withstand some of the toughest applications and is built to last with heavy steel construction and reinforced alloys to resist abrasion.

DURABILITY DESIGNED IN

Engineered to maximize torque transfer, the rotor drive system features a heavy-duty dry clutch, dual stage belt drive and automatic belt-tensioning. The reinforced cutting chamber is designed to provide additional resistance against abrasion.



REDUCED WEAR AND MAINTENANCE

Hardened steel bolt-on wear skis run the full length of the side plates and wear shoes on the anti-slab assembly are designed to reduce wear and maintenance. The System K rotor toolholders, base blocks and kicker paddles are built from high-strength alloy steel that's abrasion resistant for extended life.

PRECISE CONTROL

Hydraulically controlled anti-slab, moldboard and side plates can be easily adjusted and locked into position, while the side plates also utilize position-sensing cylinders to act as an averaging ski for grade control. The moldboard applies adjustable downpressure to keep material contained and minimize sweeping. Visible indicators from the ground and operator station make it easy to identify the rotor position for various cut depths.

CAT® SYSTEM K ROTORS

Cat System K rotors are engineered with precision to produce a uniform cutting pattern, efficiently remove material from the cutting chamber, and be easy to service. Built from high-strength alloy steel that's abrasion resistant for extended life, components stand up to the demands of high-power applications. A variety of bit spacings are available to match your application needs.

MULTIPLE WAYS TO REMOVE BITS

TAPERED DUAL-RETENTION TOOLHOLDER

KICKER PADDLES

EASY BIT REMOVAL

System K rotors were designed to make changing cutter bits easier and faster. Bits can be removed through the radial access hole, chisel points, or the block, depending on what is easiest for you.

FASTENER-FREE TOOLHOLDERS

Toolholders are secured to the rotor without a retaining pin, bolt or setscrew, speeding up replacement and eliminating the need for torquing.

DIAMOND BITS

For bituminous applications without obstacles such as interstates or motorways, consider Cat Diamond bits. Designed to stay sharp and last significantly longer than a carbide bit, they help improve productivity, fuel efficiency and operating costs.

DIAMOND BITS STAY SHARP LONGER
THAN CARBIDE BITS

Results based on customer survey data of cold planer users in North America using diamond bits. Comparison between Cat 540 diamond bits and carbide bits. Average life and exact tonnage is impacted by local aggregate and operating technique.

Regular service and maintenance is key to keeping your machines functioning at optimal levels. The PM310, PM312 and PM313 were designed with long maintenance intervals, large service doors, and walk-up access to components and systems. Track components do not require routine maintenance and track pads can be easily replaced. When time to replace high wear components, your Cat dealer is ready to help with service, repair kits and convenient parts availability.

SERVICEABILITY

DESIGNED RIGHT IN

TIME SAVERS

Features to help make service quick and easy.

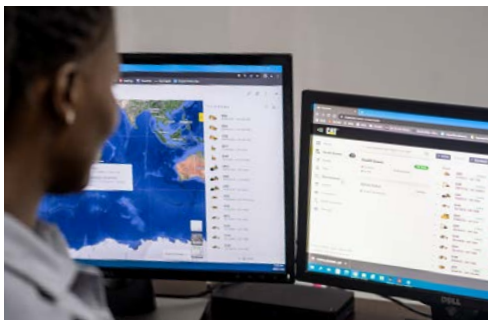
Ground-level controls and an optional hydraulically-operated rotor turning device aid in simplifying bit removal and replacement.

High and low pressure washdown options connect to the onboard water tank for convenient clean-up.

During maintenance and service, the accessory drive system allows for convenient operation of select machine functions without needing to start the engine.

CAT EQUIPMENT MANAGEMENT TECHNOLOGY
TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat equipment management telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



VISIONLINK®

VisionLink® takes the guesswork out of managing your entire fleet – regardless of size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. With interactive dashboards, VisionLink makes it easier for operations of all sizes to make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription-level options, your Cat dealer can help you determine what you need to connect your fleet and manage your business.

+ 24/7 Fleet Monitoring
+ Mixed Fleet Management
+ Optimize Fleet Utilization
+ Track Assets by Location
+ View Asset Health Status
+ Review Inspection Reports
+ Assign Maintenance Tasks
+ Minimize Downtime
+ Request Service and Order Parts
+ Download Summary Reports

** Data field availability can vary by equipment manufacturer.*

REMOTE SERVICES**

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote troubleshooting helps to ensure the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

*** Must be within cell range coverage.*

CAT INSPECT

Cat Inspect is a mobile application that allows you to easily perform digital preventative maintenance checks, inspections, and daily walkarounds. The app includes machine-specific Preventive Maintenance (PM) checklists to perform service intervals as recommended in the Operation and Maintenance Manual. Inspections can easily be integrated with other Cat data systems like VisionLink so you can keep a close eye on your fleet.

Caterpillar releases products, services and technologies in each region at different time intervals. Please verify with your local Cat dealer for technology availability and specifications.

TECHNICAL SPECIFICATIONS

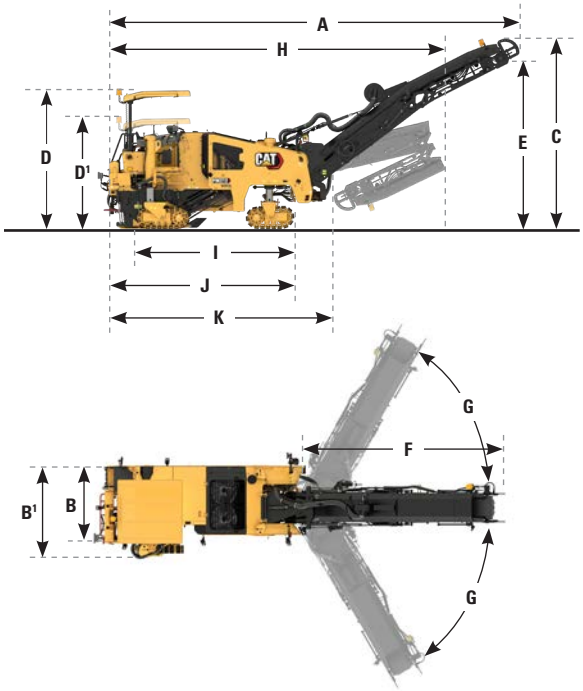
POWERTRAIN	
Engine Model	Cat® C9.3B
Cylinders	6
Emissions	U.S. EPA Tier 4 Final, EU Stage V, Korea Stage V
Gross Power – SAE J1995:2014	256 kW 343 hp
Engine Power – ISO 14396:2002	253 kW 339 hp
Build Number	02C
Maximum Milling Speed	33 m/min 108 ft/min
Maximum Travel Speed	5.5 km/h 3.4 mph

SERVICE REFILL CAPACITIES	
Fuel Tank	522 L 137.9 gal
Diesel Exhaust Fluid (DEF) Tank	47 L 12.4 gal
Cooling System	64 L 16.9 gal
Engine Oil	30 L 7.9 gal
Hydraulic Oil	55 L 14.5 gal
Water Tank	1260 L 332.9 gal

CUTTING SYSTEM	
Milling Width	
PM310	1000 mm 39.4 in
PM312	1225 mm 48.2 in
PM313	1300 mm 51.2 in
Number of Bits (15 mm spacing)	
PM310	91
PM312	106
PM313	111
Maximum Cutting Depth	330 mm 13.0 in
Rotor Speeds	97 / 109 / 121 rpm
Minimum Left Cutting Radius	4.14 m 13.58 ft
Minimum Right Cutting Radius	1.92 m 6.30 ft

WEIGHTS	PM310	PM312	PM313
Operating Weight	21 215 kg 46,770 lb	21 503 kg 47,407 lb	21 556 kg 47,522 lb
Transport Weight	20 806 kg 45,869 lb	21 095 kg 46,506 lb	21 147 kg 46,622 lb

Weights shown are approximate:
- Operating weight includes base machine with 75 kg (165 lb) operator, all standard equipment, power canopy, dust abatement system, high pressure wash system, 15 mm rotor, 510 kg (1124 lb) ballast kit, rotor turning device, pneumatic compressor, 50% water, 50% fuel and full operating fluids.
- Transport weight includes base machine, all standard equipment, power canopy, dust abatement system, high pressure wash system, 15 mm rotor, 510 kg (1124 lb) ballast kit, rotor turning device, pneumatic compressor, empty water, full fuel and other operating fluids.



OPERATING DIMENSIONS		
A	Overall Length	11.11 m 36.45 ft
B	Machine Width (leg in)	2.18 m 7.15 ft
B1	Machine Width (leg out)	2.54 m 8.33 ft
C	Machine Height (rotor at scratch)	5.15 m 16.90 ft
D	Height to Optional Canopy	3.75 m 12.30 ft
E	Maximum Truck Clearance	4.70 m 15.42 ft
F	Conveyor Length	7.08 m 23.23 ft
G	Conveyor Swing	±60° from center

SHIPPING DIMENSIONS		
H	Transport Length (conveyor folded)	9.32 m 30.58 ft
B1	Transport Width (leg out)	2.54 m 8.33 ft
D1	Transport Height (rotor at scratch and canopy lowered)	3.00 m 9.84 ft
I	Length (track to track)	4.26 m 13.98 ft
J	Length of Machine (rear to front track)	5.04 m 16.54 ft
K	Length of Base Machine	5.90 m 19.36 ft

STANDARD & OPTIONAL EQUIPMENT

Features, standard and optional equipment may vary by region. Please check with your local Cat dealer for specific offerings and availability in your area.

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Sliding operator station	●	
Suspension seat	●	
Ergonomically-adjustable armrest	●	
Ground control keypad	●	
High-resolution LCD touchscreen display	●	
Additional high-resolution LCD touchscreen display		○
12-Volt power receptacle	●	
Powered canopy		○
Windscreen		○
Exhaust diverter		○

CAT TECHNOLOGY	STANDARD	OPTIONAL
Remote Flash	●	
Remote Troubleshoot	●	
Cat Grade and Slope	●	
VisionLink® telematics	●	
Sonic grade control sensors		○
High-resolution LCD touchscreen display (for ground level grade controls)		○

CONVEYOR	STANDARD	OPTIONAL
Dust extraction system		○
Hydraulically folding conveyor		○
Mechanically folding conveyor		○
Additional spray bars (dust control)		○

POWERTRAIN	STANDARD	OPTIONAL
Engine Idle Speed Management	●	
High capacity cooling system	●	
Automatic Load Control	●	
CE certificate		○

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Traction Control	●	
Cat Bio HYDO™ Advanced biodegradable hydraulic oil		○
High ambient hydraulic oil		○

ROTOR SYSTEM	STANDARD	OPTIONAL
Automatic plunge-cut	●	
Automatic grade and slope transition feature	●	
Obstacle jump	●	
Three cutting speeds	●	
Powered rotor turning device (with pendant control)		○
System K Rotor – Coarse (18 mm)		○
System K Rotor – Standard (15 mm)		○
System K Rotor – Fine (8 mm)		○
Cat Diamond bits		○
Pneumatic bit removal tool		○
Tool holder extractor		○
510 kg (1124 lb) ballast kit		○

SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Scheduled Oil Sampling (S·O·S℠) Ports	●	
Platform-level engine oil dipsticks	●	
Rotor chamber water spray system	●	
1260 L (332.9 gal) onboard water tank	●	
Side water fill valve	●	
Water tank fill pump	●	
Air compressor		○
Accessory drive system		○
High pressure washdown		○
Low pressure washdown		○
Additional water spray system (dust control)		○

SAFETY AND SECURITY	STANDARD	OPTIONAL
Platform handrails	●	
Signaling/warning horn	●	
Halogen work lighting		○
Wide-dispersion LED work lighting		○
Warning beacon (fixed)		○
LED roading lights		○
Truck signal lights		○
Remote cameras (rear back up, front conveyor, left and/or right cutting edges, magnetic mount)		○

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

www.cat.com www.caterpillar.com

QEHQ3140-02 (12-24)
Build Number: 02C
(N Am, Colombia, Europe, South Korea, Türkiye)