

Cat[®] PM310 Cold Planer

The Cat[®] PM310 cold planer delivers efficient production and advanced cutting capabilities, with Cat GRADE with Grade and Slope technology to increase cutting precision. Simple controls and an improved operator work environment make operation comfortable, while long service intervals and easy access to critical components simplifies service. Many options are available to enhance machine versatility when optimum maneuverability or high production capabilities are required.

Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.

Efficient Performance

- Cat® C9.3 engine meets regional emission standards
- Smooth and efficient operation with Automatic Idle Control and multiple rotor speeds optimize output and demand on the engine
- High capacity cooling system keeps engine at ideal temperatures for optimal fuel efficiency and lower emissions
- Automatic load sensing on the rotor adjusts milling speed to prevent stalls and optimize production

Optimal Maneuverability and Control

- Robust propel system features dual displacement planetary motors at each leg post, utilizing a cross-drive pattern for additional traction in straight cuts
- Automatic traction control maintains consistent speed in the most challenging applications
- Articulating right rear leg maximizes stability and traction in demanding cuts while enhancing flush cutting capability when needed
- Optional ballast weight kit available to increase productivity in specific applications
- Wheel or track undercarriage options offer a balance of traction, speed and maneuverability
- Reliable track undercarriage option leverages proven designs from Cat dozers and an automatic tensioning system to ensure consistent performance and longer track life
- Ability to electronically switch between rotor speeds during operation

Comfortable Work Environment

- Operate in comfort with a standard suspension seat, adjustable right arm console and intuitive, ergonomic controls
- A sliding operator station extends up to 215 mm (8.5 in) to provide improved visibility to the cutting edge
- Work day or night with backlit keypads and well-lit work areas
- Touchscreen displays provide access to gauge cluster, operating information, remote camera feeds, machine controls and diagnostics
- Optional remote cameras enhance visibility to the cutting edges, conveyor, and rear of the machine
- Cut closer to obstacles on the right side using an optional remote camera above the cutter box with an adjustable on-screen guidance line
- Optional windscreens can be added for increased comfort
- Maximize dust removal from the working areas with the optional dust abatement system



Durable and Dependable Cutting System

- The rotor drive system features a heavy-duty dry clutch, dual stage belt drive and automatic belt-tensioning to prevent slippage
- Reinforced cutting chamber offers enhanced durability
- Hardened full length side plate skis and anti-slab shoes reduce wear and maintenance

Boost Precision with Integrated Cat Technology

- Achieve accurate, repeatable and automatic cutting precision with the integrated Cat GRADE with Grade and Slope system
- The optional grade control box can be positioned in the operator station or on the back of the machine to enable interaction with the grade system from the ground level
- Obtain full control of grade and slope from any control box
- Seamlessly switch between multiple grade sensors for uninterrupted accuracy during milling
- Adjust the speed at which the rotor drops into the cut for optimal machine control
- Set and automate transitions in/out of cuts and save settings for future jobs
- Clear obstacles in the cutting path with ease using the obstacle jump feature
- Enhance for full 3D milling operation (additional hardware required)

High Production System K Rotors Optimize Cutting Capability

- Cat System K rotors feature efficient material flow with an excellent cutting pattern for numerous applications
- A tapered dual-retention design secures toolholders in place without a retaining pin, bolt or setscrew, speeding up replacement and eliminating the need for fasteners or torquing
- Reversible paddles and high strength alloys reduce wear and abrasion to extend rotor life
- Optional diamond bits can extend replacement intervals up to 80 times longer than conventional carbide bits

Simplified Service

- Maintenance is easier with large service doors for access to critical components
- Maintenance-free track components and easy to replace track pads lower service costs
- Standard ground-level controls and an optional hydraulicallyoperated rotor turning device simplify bit removal and replacement
- Operate select machine functions during maintenance and service with the accessory drive system
- Electrical system wiring is color-coded and numbered for easy identification and wrapped in a protective, abrasion-resistant nylon braid for longer life
- Extended hydraulic oil service intervals: 3000 hours without oil sampling, 6000 hours with oil sampling
- Track scheduled maintenance with Cat Product Link[™] telematics services
- Electronic Control Modules (ECMs) monitor machine systems to alert the operator of performance issues and can be paired with Product Link options to enable additional remote services with your local Cat dealer
- Multi-piece, cartridge-style engine filters are environmentally friendly, reducing waste and lowering replacement costs
- Convenient parts availability, dealer locations and service repair kits simplify ordering of high wear components

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
OPERATOR ENVIRONMENT		
Sliding operator station	\checkmark	
Suspension seat	\checkmark	
Ground control keypad	\checkmark	
Single high-resolution LCD touchscreen display	\checkmark	
12-volt power receptacle	\checkmark	
Additional high-resolution LCD touchscreen display		\checkmark
Powered canopy		\checkmark
Windscreens		\checkmark
Remote camera with cut edge guidance		\checkmark
CAT CONNECT TECHNOLOGY		
Remote Troubleshoot capability	\checkmark	
Cat Product Link	\checkmark	
Cat GRADE	\checkmark	
Sonic sensor (averaging or string line)		\checkmark
Ground level grade controls		\checkmark
CONVEYOR		
Material removal boost feature	\checkmark	
Dust abatement system		\checkmark
Hydraulic folding conveyor		\checkmark
Remote camera (loading conveyor)		\checkmark
ROTOR SYSTEM		
Automatic plunge-cut	\checkmark	
Automatic transition feature	\checkmark	
Obstacle jump	\checkmark	
Three cutting speeds	\checkmark	
System K Rotor - Standard (15 mm)	\checkmark	
System K Rotor - Course (18 mm)		\checkmark
System K Rotor - Fine (8 mm)		\checkmark
Diamond bits		\checkmark
Pneumatic bit removal tool		\checkmark
Tool holder extractor		\checkmark
Rotor turning device		\checkmark
Ballast kit		~

	Standard	Optional
POWERTRAIN		
Auto engine idle control	√	
High capacity cooling system	\checkmark	
Automatic load control	\checkmark	
Wheel undercarriage	\checkmark	
Track undercarriage		\checkmark
CE certificate		\checkmark
HYDRAULIC SYSTEM		
Traction control	\checkmark	
SERVICE AND MAINTENANCE		
Ports for Scheduled Oil Sampling (S·O·S sm)	\checkmark	
Platform-level engine oil dipsticks	\checkmark	
1260 L (333 gal) onboard water tank	\checkmark	
Side water fill valve	√	
Water spray system	\checkmark	
Air compressor		\checkmark
Accessory drive system		\checkmark
High pressure washdown		\checkmark
Low pressure washdown		\checkmark
Additional water spray system		\checkmark
Remote Flash		\checkmark
SAFETY AND SECURITY		
Platform handrails	\checkmark	
Signaling/warning horn	\checkmark	
Halogen work lighting	\checkmark	
LED work lighting (fixed, pole mounted, magnetic)		\checkmark
Warning beacon (fixed)		\checkmark
Roading lights		\checkmark
Truck signal lights		~
Remote cameras (rear, front, cutting edges)		~

Technical Specifications

Engine		
Engine Model	Cat C9.3	
Gross Engine Power – SAE J1995 U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 4 Final	251 kW	336.6 hp
Gross Engine Power – SAE J1995 Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	246 kW	330 hp
Operating Speed	33 m/min	108 ft/min
Maximum Travel Speed - Track	5.5 km/h	3.4 mph
Maximum Travel Speed - Wheel	7.5 km/h	4.7 mph

Cutting System		
Milling Width	1000 mm	39.4 in
Number of Bits (15 mm spacing)	91	
Maximum Cutting Depth	330 mm	13.0 in
Rotor Speeds	97 / 109 / 121 rpm	
Minimum Left Cutting Radius – Track	4.14 m	13.58 ft
Minimum Left Cutting Radius – Wheel	4.23 m	13.88 ft
Minimum Right Cutting Radius — Track	1.92 m	6.30 ft
Minimum Right Cutting Radius – Wheel	2.00 m	6.56 ft

Machine Weight		
Operating Weight – Track	21 780 kg	48,016 lbs
Operating Weight – Wheel	21 080 kg	46,473 lbs
Transport Weight — Track	20 168 kg	44,463 lbs
Transport Weight – Wheel	19 468 kg	42,920 lbs

Weights shown are approximate and include:

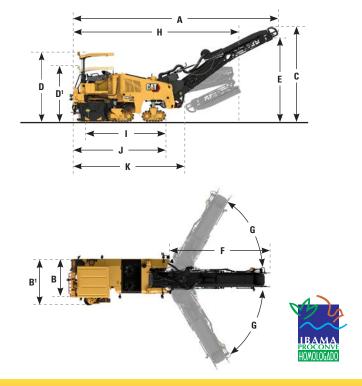
 Operating weights include coolants, lubricants, full fuel tank, full water tank and 75 kg (165 lb) operator.

Transport weights include coolants, lubricants, 50% full fuel tank and empty water tank.

Service Refill Capacities			
Fuel Tank	600 L	158.5 gal	
Diesel Exhaust Fluid (DEF) Tank	22 L	5.8 gal	
Cooling System	62 L	16.4 gal	
Engine Oil	30 L	7.9 gal	
Hydraulic Oil	59 L	15.6 gal	
Water Tank	1260 L	332.9 gal	

Operating Dimensions A Overall Length (conveyor raised) 11.11 m 36.45 ft **B** Machine Width (leg in) 2.18 m 7.15 ft **B**¹ Machine Width (leg out) 2.54 m 8.33 ft C Maximum Height (conveyor raised) 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	9.32 m	30.58 ft	
B ¹ Transport Width (leg out)	2.54 m	8.33 ft	
D ¹ Transport Height (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	



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