

# Cat® PM312

Cold Planer

The Cat® PM312 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



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#### **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 swap 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 dual taper retention design holds tool holders in place, without retaining pins or bolts, for faster bit changes
- 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	✓	
Suspension seat	✓	
Ground control keypad	✓	
Single high-resolution LCD touchscreen display	✓	
12-volt power receptacle	✓	
Additional high-resolution LCD touchscreen display		✓
Hydraulically folding canopy		✓
Windscreens		✓
Remote camera with cut edge guidance		✓
CAT CONNECT TECHNOLOGY		
Remote Troubleshoot capability	✓	
Cat Product Link	✓	
Cat GRADE	✓	
Inboard ski		✓
Sonic sensor (averaging or string line)		✓
Ground level grade controls		✓
CONVEYOR		
Material removal boost feature	✓	
Dust abatement system		✓
Hydraulic folding conveyor		✓
Remote camera (loading conveyor)		✓
ROTOR SYSTEM		
Automatic plunge-cut	✓	
Automatic transition feature	✓	
Obstacle jump	✓	
Three cutting speeds	✓	
System K Rotor - Standard (15 mm)	✓	
System K Rotor - Course (18 mm)		✓
System K Rotor - Fine (8 mm)		✓
Diamond bits		✓
Pneumatic bit removal tool		✓
Tool holder extractor		✓
Rotor turning device		✓
Ballast kit		✓

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

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#### **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	1225 mm	48.2 in
Number of Bits (15 mm spacing)	106	
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	21 967 kg	48,429 lbs
Operating Weight – Wheel	21 267 kg	46,886 lbs
Transport Weight – Track	20 355 kg	44,875 lbs
Transport Weight – Wheel	19 655 kg	43,332 lbs

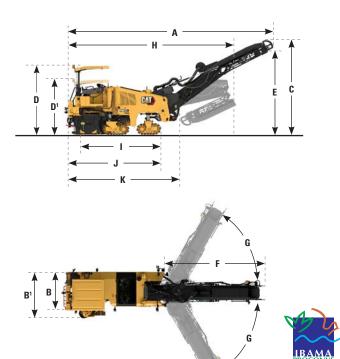
Weights shown are approximate and include:

- 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>B</b> Machine Width (leg in)	2.18 m	7.15 ft
<b>B</b> <sup>1</sup> Machine Width (leg out)	2.54 m	8.33 ft
C Maximum Height (conveyor raised)	5.15 m	16.90 ft
<b>D</b> 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
<b>G</b> Conveyor Swing	±60° from center	

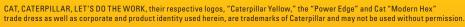
Shipping Dimensions		
H Transport Length	9.32 m	30.58 ft
B¹ Transport Width (leg out)	2.54 m	8.33 ft
D¹ Transport Height (canopy lowered)	3.00 m	9.84 ft
I Length (track to track)	4.26 m	13.98 ft
J Length of Machine (rear to front track)	5.04 m	16.54 ft
K Length of Base Machine	5.90 m	19.36 ft





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





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