



Cat[®] PM825

Cold Planer

The Cat[®] PM825 cold planer brings more power and advanced cutting capabilities, with Cat GRADE with Grade and Slope technology to increase cutting precision. Smooth and efficient performance with multiple rotor speeds lowers fuel consumption, while long service intervals and easy access to critical components simplifies service. Many options are available to enhance machine capability on a cold planer that is built to maximize production.

Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region. Built in the U.S.A. for the North American market.

Efficient Performance with More Power

- Powerful Cat[®] C18 twin-turbo 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

- Reliable track undercarriage leverages proven designs from Cat dozers and an automatic tensioning system to ensure consistent performance and longer track life
- Robust propel system features two independent propel pumps to drive two crawler tracks each, in a high-traction, cross-drive pattern
- Automatic traction control maintains consistent speed in the most challenging applications
- Four steering modes with advanced alignment and tracking provides precise steering geometry and reduces track pad wear
- Ability to electronically switch between rotor speeds during operation

Comfortable Work Environment

- Operate in comfort with height-adjustable operating consoles and intuitive, ergonomic controls
- Retractable handrails stow and redeploy easily when approaching obstacles
- Work day or night with backlit keypads and well-lit work areas
- Upgrade operator stations with optional suspension seats that reposition for improved visibility and comfort
- Optional remote cameras enhance visibility to the cutting edge and conveyor
- Optional powered canopy stows easily during operation to clear overhead obstacles and 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, automatic belt-tensioning to prevent slippage and two high tensile (five-rib) belts to drive the rotor
- 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
- Control boxes can be repositioned without the need to reconfigure settings
- 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 and faster with large service doors and power hood for walk-in access to critical components
- Maintenance-free track components and easy to replace track pads lower service costs
- Standard ground-level controls and an optional hydraulically-operated 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		Standard	Optional
OPERATOR ENVIRONMENT			POWERTRAIN		
Ground control keypads	✓		Auto engine idle control	✓	
Single high-resolution LCD touchscreen display	✓		High capacity cooling system	✓	
12-volt power receptacle	✓		Dual propel pumps	✓	
Dual high-resolution LCD touchscreen displays		✓	Automatic load control	✓	
Hydraulically folding canopy		✓	CE certificate		✓
Air-ride suspension seats		✓	HYDRAULIC SYSTEM		
Windscreens		✓	Dual pump hydraulic propel system	✓	
CAT CONNECT TECHNOLOGY			Traction control	✓	
Remote troubleshoot capability	✓		Water tank transfer pump		✓
Cat Product Link	✓		Fuel transfer pump		✓
Cat GRADE	✓		SERVICE AND MAINTENANCE		
Inboard ski		✓	Sampling ports for Scheduled Oil Sampling (S-O-S)	✓	
Sonic sensor (averaging or string line)		✓	Power hood	✓	
Ground level grade controls and displays		✓	Platform-level engine oil dipsticks	✓	
CONVEYOR			Rotor chamber water spray system	✓	
Grease tensioner	✓		Air compressor	✓	
Material removal boost feature	✓		Accessory drive system	✓	
Dust abatement system		✓	3400 L (898 gal) onboard water tank	✓	
Remote camera (loading conveyor)		✓	Side water fill valve	✓	
ROTOR SYSTEM			High pressure washdown		✓
Automatic plunge-cut	✓		Low pressure washdown		✓
Automatic transition feature	✓		Additional spray bars		✓
Obstacle jump	✓		Remote Flash		✓
Three cutting speeds	✓		SAFETY AND SECURITY		
System K Rotor - Standard (15 mm)	✓		Platform handrails	✓	
System K Rotor - Coarse (25 mm)		✓	Signaling/warning horn	✓	
System K Rotor - Coarse (18 mm)		✓	Halogen work lighting	✓	
System K Rotor - Fine (8 mm)		✓	LED work lighting (fixed, pole mounted, magnetic)		✓
System K Rotor - Micro (6 mm)		✓	Warning beacon (fixed or magnetic mount)		✓
Diamond bits		✓	Truck signal lights		✓
Bit bucket trays		✓	Remote camera (rear, front, magnetic mount)		✓
Pneumatic bit removal tool		✓			
Tool holder extractor		✓			
Rotor turning device		✓			

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Technical Specifications

Engine

Engine Model	Cat C18 twin-turbo	
U.S. EPA Tier 4 Final, EU Stage V		
Gross Engine Power – SAE J1995	597 kW	800.6 hp
Gross Engine Power – ISO 14396	590.7 kW	792.1 hp
Equivalent to U.S. EPA Tier 2 and EU Stage II		
Gross Engine Power – SAE J1995	570.5 kW	765 hp
Gross Engine Power – ISO 14396	567.5 kW	761 hp
Operating Speed	100 m/min	328 ft/min
Maximum Travel Speed	5.9 km/h	3.7 mph

Cutting System

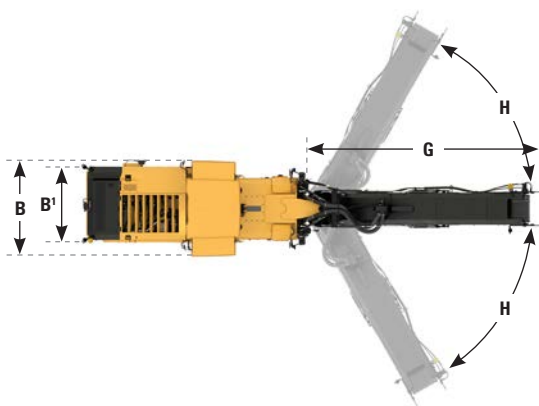
Milling Width	2505 mm	98.6 in
Number of Bits (15 mm spacing)	203	
Maximum Cutting Depth	330 mm	13.0 in
Rotor Speeds	100 / 109 / 118 rpm	
Minimum Left Cutting Radius	2.00 m	6.56 ft
Minimum Right Cutting Radius	1.50 m	4.92 ft

Machine Weight

Operating Weight	37 500 kg	82,673 lb
Transport Weight	33 600 kg	74,075 lb

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

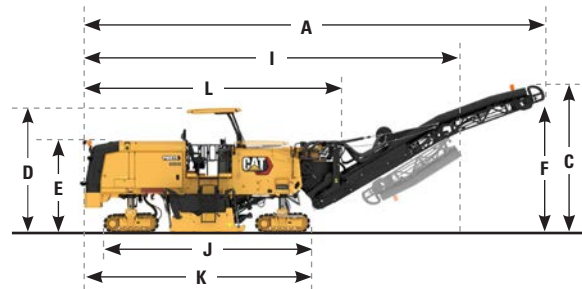
Fuel Tank	1108 L	292.7 gal
Cooling System	104 L	27.5 gal
Engine Oil	65 L	17.2 gal
Hydraulic Oil	113 L	29.9 gal
Water Tank	3400 L	898.2 gal

Operating Dimensions

A Overall Length (conveyor raised)	14.52 m	47.64 ft
B Maximum Machine Width	3.36 m	11.02 ft
B' Minimum Machine Width	3.01 m	9.88 ft
C Maximum Height (conveyor raised)	5.23 m	17.16 ft
D Height to Optional Canopy	4.05 m	13.29 ft
E Height (canopy lowered)	3.00 m	9.84 ft
F Maximum Truck Clearance	4.86 m	15.94 ft
G Conveyor Length	8.38 m	27.49 ft
H Conveyor Swing	±60° from center	

Shipping Dimensions

I Transport Length	12.43 m	40.78 ft
B' Transport Width	3.01 m	9.88 ft
E Transport Height (canopy lowered)	3.00 m	9.84 ft
J Length (track to track)	6.69 m	21.95 ft
K Length of Machine (rear to front track)	7.32 m	24.02 ft
L Length of Base Machine	8.33 m	27.33 ft



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

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