



Cat[®] RM800

Reclaimer / Stabilizer

The Cat[®] RM800 Reclaimer/Stabilizer is designed for high-production full-depth reclamation and soil stabilization projects. A powerful Cat engine along with All-wheel drive helps maximize performance and maneuverability. Easily maintain precision with advanced machine controls in a comfortable operator environment that optimizes visibility. Power and productivity features combine to deliver the versatility needed for a variety of applications and terrain.

Efficient Power and Performance

- Powerful Cat[®] C18 twin-turbo engine meets regional emission standards.
- A 4-pump, electronically-controlled, all-time All-wheel drive system in combination with well balanced machine weight helps maximize traction and mobility.
- Front-to-rear weight distribution provides stability in tough cuts.
- Wheels positioned on the corners of the machine provide the smallest inside and outside turning radii to help you maneuver in tight spaces, enhanced by four steering modes:
 - Front wheels only, rear wheels only, crab steering, and coordinated steering
- 8.72 m (28.61 ft) overall machine length helps enhance maneuverability in compact spaces.
- Four height adjustable legs provide up to 14% (8 degrees) of positive or negative slope on either side when working on uneven terrain or to maintain traction in challenging soil stabilization applications.
- Slope Control can be used to automatically maintain a desired slope setting.
- The belt-driven rotor provides flush cut capability on the right-hand side.

Maximize Productivity and Mix Quality from the Cab

- Advanced electronic features with Automatic Load Control help deliver ideal mix quality and maintain production efficiency by adjusting the machine speed to match material conditions.
- High power at all rotor speeds helps maximize your productivity.
- Easily modify material gradation by adjusting the front and rear mixing chamber doors and an easy-to-read indicator on the touch screen display informs the operator of door positions.
- To help operators simplify operation, the hydraulic down pressure that is applied to the rear door can be adjusted when using the float feature to automatically maintain the desired door position.
- Exit and Return-to-cut features help operators save time and maintain consistency with the simple tap of a button.

Cat® RM800 Reclaimer / Stabilizer

Operator Visibility and Comfort

- Standard FOPS cab comes with heating and air conditioning for a comfortable work environment and is audio-ready with speakers.
- Control your preferred sight lines from the driver's seat with the full-machine width sliding cab and 180° rotating operator station.
- Touch screen displays can be positioned to preferred viewing angle.
- Operator visibility to the cutting path is enhanced with floor to ceiling glass and an angled pane on the right-hand side provides a clear view to the leading edge of the cutting chamber.
- A heated, air-ride suspension seat with high visibility seat belt is equipped with fore and aft adjustment to help increase operator comfort and visibility.
- Performance and safety can be augmented with standard and optional cameras that are viewed on large, in-cab displays:
 - Fore and aft visibility is enhanced with front and rear mounted cameras with on-screen configurable guidance lines
 - Obstacle avoidance and gradation results can be viewed with cameras mounted above the front and rear mixing chamber doors
 - Visibility to each side of the machine can be supplemented with an upgrade to side mounted cameras
- Convenience features include USB ports for charging, 12V DC outlets, multiple storage compartments, phone and cup holders.

Simple to Operate, Easy to Learn

- Easily match machine functions with gradation specifications through the 25 cm (10 in) color touch screen displays and push button controls.
- Controls are ergonomically located and grouped by function for quick and easy access.
- A multi-function joystick puts speed, rear steering and primary rotor controls at your fingertips.
- Precise machine control is delivered through hand-wheel steering.
- Start the engine with a push button; use a Bluetooth key fob or the Operator ID passcode for added security and to recall saved operator preferences and profiles upon login.

Optional Spray Systems Perform with Precision

- Water and emulsion additive systems are available for a variety of applications.
- Additive application rate is monitored with a computerized metering system for accuracy.
- Customize spraying width by turning spray nozzles on or off through the touchscreen display in the cab.
- Spray bars conveniently slide out on either side for inspection, cleaning and service.
- Push bar is stored within the hitch at ground level for easy access.
- A wide range of variable flow rates help meet specifications:
 - Water flow rates from 30-1900 liters per minute (8-500 gallons per minute)
 - Emulsion flow rates from 30-850 liters per minute (8-225 gallons per minute)
- The Emulsion Spray System is capable of delivering bitumen emulsion or water with self-cleaning nozzles designed to reduce maintenance and provide a consistent spray pattern.
- Easily set up the spray system to deliver liquid additives according to specifications:
 - manual or automatic
 - volume per minute
 - volume per m² (yd²)
 - percent of material density

Durable and Dependable Cutting System

- The rotor drive system features a hydraulically-actuated, heavy-duty dry clutch that does not require adjustment.
- Electronically-controlled drive line protection.
- Two high tensile, six-rib belts with automatic belt-tensioning to prevent slippage.
- Bi-directional cutting capability.
- Durable, high-strength, variable volume cutting chamber.
- Visual indicators inform ground personnel of cutting depth and rotor position when working around obstacles.

Cat® System K Rotor for Reclamation and Stabilization

- The System K rotor is designed to deliver high quality results on a variety of projects utilizing proven toolholder and base block components from our cold planer System K rotor.
- Components are manufactured with abrasion-resistant, high-strength alloys to help withstand tough, high-power applications.
- Tools are precisely placed on the rotor to aid in delivering ideal material sizing and homogeneous mixing results.
- Triple-tree cutting bit placement on rotor ends cleans up loose material and helps reduce wear on the rotor caused by maneuvering in the cut.
- The Cat System K rotor is configured with bolt-on wedge-shaped toolholder protection that can be rotated 180° for extra life.
- A fastener-free design secures toolholders in place without a retaining pin, bolt or setscrew, speeding up replacement and eliminating the need for torquing.
- Replaceable toolholders can be selected for use with 20 or 22 mm shank bits and offer multiple methods for bit removal.
- Toolholder protection, endring segments and endring wear protection plates bolt-on for simplified reconditioning.

Easy Service, More Uptime

- Routine checkpoints are centrally located and safely accessed on a secure platform.
- Monitor fluid conditions with regular sampling to help extend change intervals up to 500 hours engine oil, 6000 hours hydraulic oil and 12000 hours coolant.
- The auto-reversing cooling fans help prevent debris build-up, extending maintenance intervals for cleaning the cooling package.
- A standard compressed air system with two access points powers pneumatic tools to speed up rotor bit changes and can be used for general machine cleaning and maintenance.
- Ground-level controls and optional hydraulically-powered rotor turning with pendant simplify bit replacement and rotor cleaning.
- Easily inspect or change triple-tree components using the access door on the either side of the rotor chamber.
- Optional high-pressure wash system for convenient clean-up.
- Built-in diagnostics monitor machine systems, alert the operator of performance issues and provide troubleshooting information.
- The accessory drive system allows use of select machine functions when the engine is off.
- Electrical system wiring is color-coded and numbered for easy identification and wrapped in a protective, abrasion-resistant nylon braid for longer life and reliability.
- VisionLink® provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as machine hours, location, idle time, fuel utilization and diagnostic codes. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- Remote Flash allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient to help increase your overall operating efficiency.**
- Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely.**

** Data field availability can vary by equipment manufacturer and is provided through an application programming interface (API). VisionLink subscription required. Availability may vary by region, consult your Cat Dealer for more details.*

*** Must be within cell range coverage.*

Cat® RM800 Reclaimer / Stabilizer

Standard and Optional Equipment

Your local Cat dealer can help configure a machine to meet your application requirements.

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			ELECTRICAL SYSTEM		
Adjustable armrests	✓		150-Amp alternator	✓	
Air-ride, heated suspension seat	✓		24-Volt charging system	✓	
180° rotating operating station	✓		Automotive-type fuse system	✓	
Audio-ready with speakers	✓		Remote start/charge receptacle	✓	
Full-width sliding cab with heat and air conditioning	✓		1000 CCA maintenance-free batteries (4)	✓	
Push button start	✓		SPRAY SYSTEMS		
High-visibility retractable seat belt	✓		Water spray system		✓
On-screen steering guides	✓		Emulsion spray system		✓
Color touch screen displays (2)	✓		Push bar		✓
12-Volt and USB power ports	✓		ROTOR DRIVE SYSTEM		
POWERTRAIN			Electronic driveline protection	✓	
Dual element air cleaner with pre-cleaner	✓		Automatic depth control	✓	
Cat® Extended Life Coolant (ELC) with protection to -37° C (-35° F)	✓		Hydraulically-controlled dry clutch	✓	
Auto-reversing, on-demand cooling fan	✓		2-speed planetary gearbox	✓	
Engine Idle Speed Management	✓		Twelve rotor speeds	✓	
Automatic Load Control	✓		Variable volume mixing chamber	✓	
Four steering modes	✓		System K rotor	✓	
All-time All-wheel drive	✓		Toolholder protection – Wedge	✓	
Electronic differential	✓		Toolholder – 20 mm shank bits		✓
Slope Control	✓		Toolholder – 22 mm shank bits		✓
Cat Bio HYDO™ Advanced biodegradable hydraulic oil		✓	SAFETY AND SECURITY		
CE certificate		✓	Back-up alarm	✓	
SERVICE AND MAINTENANCE			Ground level emergency shutdown switches (4)	✓	
Cat VisionLink®	✓		Horn (front and rear)	✓	
Remote Flash	✓		FOPS cab	✓	
Remote Troubleshoot	✓		ROPS	✓	
Remote access drains	✓		Platform handrails and guardrails	✓	
Scheduled Oil Sampling (S•O•S SM) ports	✓		Folding rear view mirrors	✓	
Fluid level sight gauges	✓		Illuminated access ladder	✓	
Service light receptacles	✓		Operator ID profiles	✓	
Air compressor	✓		Bluetooth key fob		✓
Lockable storage	✓		LED working lights	✓	
Bit bucket tray	✓		LED roading lights		✓
Fast fill fuel system		✓	Folding LED safety beacon		✓
Hydraulically-powered rotor turning with pendant		✓	Front and rear facing cameras	✓	
High pressure washdown system		✓	Front and rear rotor chamber door cameras	✓	
Magnetic service light		✓	Folding side view cameras (2)		✓
Pneumatic bit removal tools		✓			

Technical Specifications

Powertrain

Engine Model	Cat C18 twin-turbo	
Cylinders	6	
Emissions	U.S. EPA Tier 4 Final, EU Stage V	
Gross Power @ 1,800 rpm – SAE J1995	601 kW	806 hp
Engine Power @ 1,800 rpm – ISO 14396	595 kW	798 hp
Emissions	U.S. EPA Tier 2, EU Stage II equivalent	
Gross Power @ 2,100 rpm – SAE J1995	576 kW	772 hp
Engine Power @ 2,100 rpm – ISO 14396	569 kW	763 hp
Build Number		
Tier 4 Final, Stage V	01B	
Tier 2, Stage II equivalent	01A	
Maximum Operating Speed	59 m/min	194 ft/min
Maximum Travel Speed	12.1 km/h	7.5 mph
Propel System	All-Wheel Drive	

- Advertised power is tested per the specified standard in effect at the time of manufacture.

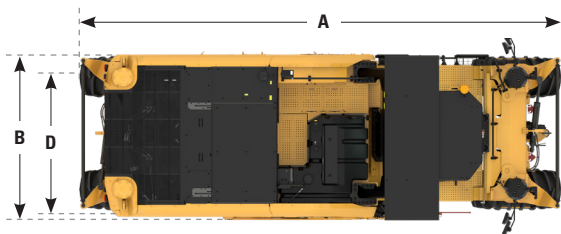
Machine Weight

Tier 4 Final, Stage V		
Operating	33 378 kg	73,586 lb
Maximum	35 420 kg	78,088 lb
Tier 2, Stage II equivalent		
Operating	33 183 kg	73,156 lb
Maximum	35 225 kg	77,658 lb

- Operating weight is approximate and includes base machine, no options, coolant, lubricants, rotor, 50% full fuel tank and 75 kg (165 lb) operator.
- Maximum weight is approximate and includes base machine, all options, coolant, lubricants, rotor, full fuel tank, full water tank and 75 kg (165 lb) operator.

Dimensions

A Transport Length	8.72 m	28.61 ft
B Transport Width	3 m	9.8 ft
C Transport Height	3.5 m	11.5 ft
D Cutting Width	2.44 m	8 ft
E Wheelbase	7.05 m	23.13 ft
F Ground Clearance	506 mm	19.9 in
Inside Turning Radius (minimum)	3.09 m	10.14 ft
Outside Turning Radius (maximum)	6.96 m	22.83 ft
Maximum Cross Slope	8 degrees	



Spray System Flow Rates

Water Spray System – Flow Rate	30-1900 lpm	8-500 gpm
Emulsion Spray System – Flow Rate	30-850 lpm	8-225 gpm

Cutting System

Rotor Drive	Belt	
Cutting Width	2.44 m	8 ft
Maximum Cutting Depth	508 mm	20 in
Number of Bits	208	
Rotor Diameter (over bits)	1450 mm	57.1 in
Tool Spacing	15 mm	0.59 in
Tool Tip Height	300 mm	11.8 in
Flush Cut	Right Hand Side	

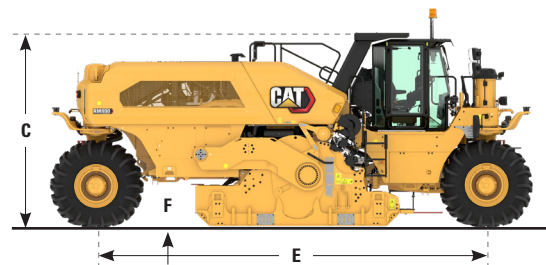
Rotor Speeds

Rotor Gearbox Speed	Engine Speed	Low Pulley Position	High Pulley Position
Low	1	97	120
	2	103	128
	3	109	135
High	1	144	179
	2	153	190
	3	162	201



Service Refill Capacities

Fuel Tank	1230 L	325 gal
Cooling System	99 L	26.1 gal
Engine Oil	68 L	18 gal
Hydraulic Tank	120 L	31.7 gal
Washdown Water Tank	454 L	120 gal



Cat® RM800 Reclaimer / Stabilizer

Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit www.caterpillar.com/en/company/sustainability.html.

ENGINE

- The Cat C18 Twin Turbo is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards or equivalent to U.S. EPA Tier 2 and EU Stage II.
- Cat U.S. EPA Tier 4 Final and EU Stage V diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) and are compatible* with ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
- Cat engines equivalent to U.S. EPA Tier 2 and EU Stage II are compatible* with diesel fuel blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*While Cat engines are compatible with these alternative fuels, some regions may not allow their use.

**Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

AIR CONDITIONING SYSTEM

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.
- If equipped with R134a (Global Warming Potential = 1430), the system contains 2.0 kg (4.4 lb) of refrigerant which has a CO₂ equivalent of 2.860 metric tonnes (3.153 tons).

PAINT

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

SOUND PERFORMANCE

With cooling fan speed at maximum value:

Operator Sound Pressure Level (ISO 11201:2010) – 77 dB(A)

Exterior Sound Power Level (ISO 3744:2010)

Tier 4 Final, Stage V – 116 dB(A)

Tier 2, Stage II – 115 dB(A)

- The operator sound pressure level was measured according to ISO 11201:2010. The measurement was conducted at 100 percent of the maximum engine cooling fan speed.
- The machine sound power level was measured according to ISO 3744:2010. The measurement was conducted at 100 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

OILS AND FLUIDS

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

FEATURES AND TECHNOLOGY

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Engine Idle Speed Management keeps the machine idle at lowest possible RPM
 - Automatic Load Control automatically matches propel speed to engine load
 - Variable speed cooling fan operates at the lowest speed for optimal cooling
 - All-wheel drive with traction control maintains consistent traction
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot

RECYCLING

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	77.20%
Iron	6.78%
Rubber	5.73%
Nonferrous Metal	4.26%
Mixed Metal	2.03%
Other	1.28%
Plastic	1.22%
Mixed-Metal and Nonmetal	0.87%
Fluid	0.39%
Uncategorized	0.21%
Mixed Nonmetallic	0.03%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 98%

Cat® RM800 Reclaimer / Stabilizer

QEHQ3305 (06-2025)
Build Number (Tier 4/Stage V): 01B
Build Number (Tier 2): 01A (Replaces QEHQ3031)
(Global excluding China, Japan, Saudi Arabia)

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

© 2025 Caterpillar
All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

VisionLink is a trademark of VisualSite LLC, registered in the United States and in other countries.

