



Cat[®] RM400

Reclaimer / Stabilizer

The Cat[®] RM400 Reclaimer/Stabilizer is designed for full-depth reclamation and soil stabilization projects. It delivers excellent material gradation, outstanding maneuverability, and simple operation with superb visibility for excellent overall job site performance.

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

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
- Precise machine control is delivered through hand-wheel and joystick steering
- Controls are ergonomically located and grouped by function for quick and easy access
- Save time and ensure consistent depth for every cut with automatic features to exit and return to cutting depth
- Keyless push-button engine start can add security and convenience using Operator ID codes to recall saved operator preferences and profiles upon login

Boost Performance with Enhanced Visibility

- Standard FOPS cab with heating and air conditioning for a comfortable work environment
- Sight lines are optimized with the full left-to-right sliding cab
- A heated, 180° positioning air-ride suspension seat with fore and aft adjustment increases 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 standard front and rear mounted cameras
 - Visibility to each side of the machine can be supplemented with optional side mounted cameras
 - Obstacle avoidance and gradation results can be viewed with optional cameras mounted above the front and rear mixing chamber doors

Efficient Power with Increased Mobility

- Get 19% more power* with the Cat[®] C9.3B engine that provides 310 kW (416 hp) of power and meets regional emission standards
- The overall machine length is 44 cm (17 in) shorter to enhance productivity and maneuverability in compact spaces
- Maximize traction and mobility with standard, electronically controlled all-wheel drive and four steering modes:
 - Front wheels only, rear wheels only, crab steering, and coordinated steering

Deliver Superior Mix Quality

- Advanced electronic controls deliver ideal mix quality by keeping the rotor at the proper depth and the machine at an optimized speed
- Manage gradation for a wide variety of materials and applications with three separate rotor speeds that can be selected while in operation
- Easily modify material gradation by adjusting the front and rear mixing chamber doors, a simple gauge located on the LCD display keeps the operator informed of door position
- Rear rotor chamber door float feature simplifies operation and allows operator to select desired down pressure
- Work efficiently on a variety of reclamation and stabilization projects with three rotor options: Universal, Combination and Spade

* All comparisons to the RM300.



Optional Spray Systems Deliver Precise Mix Quality

- Water and emulsion additive systems ensure mix design specifications are met
- Application rate of additives is accurately monitored through a computerized metering system
- A wide range of variable flow rates can be optimized for a variety of applications:
 - Water flow rates from 30-1900 liters per minute (8-500 gallons per minute)
 - Emulsion flow rates from 30-946 liters per minute (8-250 gallons per minute)
- Easily set up the spray system to deliver liquid additives according to specifications:
 - manual or automatic
 - volume per m² (yd²)
 - percent of material density

Easier Service, More Uptime

- Ground level access to routine maintenance items simplifies service and improves safety
- Auto-reversing cooling fan helps prevent debris build-up extending maintenance intervals for cleaning the cooling package
- Rotor drive system utilizes automated bearing lubrication
- Self-lubricating rotor chain drive is adjustment-free and eliminates routine maintenance
- Hydraulically-actuated rotor drive clutch does not require adjustment
- Built-in diagnostics monitor machine systems, alert the operator of performance issues and provide troubleshooting information

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
OPERATOR ENVIRONMENT			ROTOR DRIVE SYSTEM		
Adjustable armrests	✓		Maintenance-free drive shafts	✓	
Air-ride, heated suspension seat	✓		Self-lubricating roller and bearings	✓	
Audio-ready with speakers	✓		Shear disk driveline protection	✓	
Full width sliding cab with heat and air conditioning	✓		Torque limiter driveline protection		✓
Push button start	✓		Automatic depth control	✓	
Illuminated dual-side access ladders	✓		Hydraulically-controlled dry clutch	✓	
High visibility retractable seat belt	✓		Three rotor speeds	✓	
Mini-wheel steering control	✓		Variable volume mixing chamber	✓	
Multifunction propel lever	✓		Rotor – Universal 16		✓
Steering guides	✓		Rotor – Universal 18*		✓
Color touch screen operator interface	✓		Rotor – Combination		✓
Additional color touch screen		✓	Rotor – Spade*		✓
POWERTRAIN			Material sizing breaker bar		✓
Air to Air Aftercooler (ATAAC)	✓		SERVICE AND MAINTENANCE		
Dual element air cleaner with pre-cleaner	✓		Grouped filters with ground level access	✓	
Extended life coolant with protection to -37° C (-35° F)	✓		Cat® Product Link™	✓	
On-demand fan with auto-reversing function	✓		Remote Flash	✓	
Four steering modes	✓		Remote access drains	✓	
All-Wheel Drive	✓		Ports for Scheduled Oil Sampling (S.O.S SM)	✓	
Electronic differential	✓		Fluid level sight gauges	✓	
Oil-bath brake system	✓		Service light receptacles	✓	
Powertrain guard	✓		Air compressor		✓
Bio-friendly hydraulic oil		✓	Pneumatic bit removal tool		✓
ELECTRICAL SYSTEM			Toolbox	✓	
150 amp alternator	✓		Additional toolbox		✓
24-volt charging system	✓		SAFETY		
Automotive-type fuse system	✓		Back-up alarm	✓	
Remote start/charge receptacle	✓		Front and rear facing cameras	✓	
1365 CCA maintenance-free batteries (2)	✓		Ground level emergency shutdown switches (3)	✓	
SPRAY SYSTEMS			Horn (front and rear)	✓	
Water spray system		✓	ROPS	✓	
Emulsion spray system		✓	Platform handrails and guardrails	✓	
Push bar		✓	Mirrors	✓	
			Working lights (halogen or LED)	✓	
			LED roading lights		✓
			Folding LED safety beacon		✓
			Folding side view cameras (2)		✓
			Front and rear rotor chamber door cameras		✓

* Not available in all regions. Please consult your local Cat dealer for availability.

Cat® RM400 Road Reclaimer

Technical Specifications

Powertrain

Engine Model	Cat C9.3B	
Emissions	U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5 Final	
Gross Power – SAE J1995:2014	314 kW	421 hp
Engine Power – ISO 14396:2002	310 kW	415.7 hp
	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Gross Power – SAE J1995:2014	313 kW	419.7 hp
Engine Power – ISO 14396:2002	310 kW	415.7 hp
Speed – Operating	0-4.8 km/h	0-2.97 mph
Speed – Travel	11 km/h	6.8 mph

Machine Weight

	U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5 Final	
Operating*	24 966 kg	55,041 lb
Maximum**	26 164 kg	57,682 lb
	Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA	
Operating*	24 762 kg	54,591 lb
Maximum**	25 960 kg	57,232 lb

* Base machine, no options, ROPS, cab, coolant, lubricants, 50% full fuel tank, 50% full water tank and 75 kg (165 lb) operator.

** Base machine, all options, ROPS, cab, coolant, lubricants, full fuel tank, full water tank and 75 kg (165 lb) operator.

Service Refill Capacities

Fuel Tank	1056 L	279 gal
Cooling System	62.5 L	16.5 gal
Engine Oil	32 L	8.5 gal
Hydraulic Tank	233 L	61.5 gal
DEF Tank (U.S. EPA Tier 4 Final, EU Stage V, Korea Tier 5 Final)	70 L	18.5 gal

Cutting System

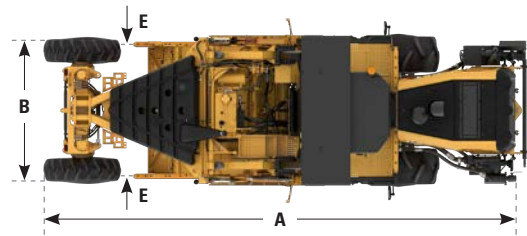
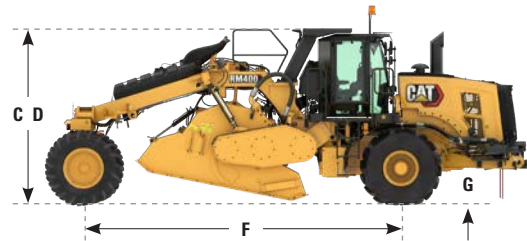
3-Speed Direct Drive, Chain Driven		
Rotor Speeds	108 / 134 / 159 rpm	
Cutting Width	2438 mm	96 in
Cutting Depth (maximum) Maximum cutting depth determined by rotor selection	508 mm	20 in

Spray Systems

Water Spray System – Flow Rate	30-1900 lpm	8-500 gpm
Emulsion Spray System – Flow Rate	30-946 lpm	8-250 gpm

Dimensions

A Overall Length	9.56 m	31.4 ft
B Overall Width	3.0 m	9.8 ft
C Height at ROPS	3.5 m	11.5 ft
D Transport Height	3.5 m	11.5 ft
E Cutting Width	2.44 m	8 ft
F Wheelbase	6.32 m	20.7 ft
G Ground Clearance	500 mm	19.7 in
Inside Turning Radius (minimum)	4.03 m	13.2 ft
Outside Turning Radius (maximum)	8.3 m	27.1 ft



Rotors

Rotor	Width		Diameter		Tools	Maximum Depth	
Universal 16	2438 mm	96 in	1375 mm	54 in	200	406 mm	16 in
Universal 18*	2438 mm	96 in	1525 mm	60 in	200	457 mm	18 in
Combination	2438 mm	96 in	1625 mm	64 in	114	508 mm	20 in
Spade*	2300 mm	90.6 in	1575 mm	62 in	58	457 mm	18 in

* Not available in all regions. Please consult your local Cat dealer for availability.

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 C9.3B is available in configurations that meet U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 Final emission standards or Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA emission standards.
- Cat U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 Final diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or 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 meeting Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA, 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.

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 2.1 kg (4.6 lb) of refrigerant, which has a CO₂ equivalent of 3.003 metric tonnes (3.31 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 – 81 dB(A)*
(EN 500-3:2006+A1:2008, Annex B)

Operator Sound Pressure Level – 82 dB(A)**
(EN 500-3:2006+A1:2008, Annex B)

Exterior Sound Power Level – 113 dB(A)
(EN 500-3:2006+A1:2008, Annex B)

* U.S. EPA Tier 4 Final, EU Stage V, and Korea Tier 5 Final engine

** Brazil MAR-1, equivalent to U.S. EPA Tier 3 and EU Stage IIIA

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	79.29%
Iron	5.60%
Nonferrous Metal	2.91%
Mixed Metal	1.16%
Mixed-Metal and Nonmetal	0.01%
Plastic	1.21%
Rubber	4.49%
Mixed Nonmetallic	0.03%
Fluid	2.61%
Other	1.43%
Uncategorized	1.62%
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 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 – 97%



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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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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