

# M323

## RAILROAD EXCAVATOR



**Engine Power ISO 14396**

134 kW (180 hp)

**Operating Weight**

24 300 kg (53,572 lb)

**Maximum Travel Speed – Road Mode**

25 km/h (16 mile/h)



# THE M323

## RAILROAD EXCAVATOR

The Cat® M323 rail excavator features a modular design with options for short-tail and long-tail configurations. The flexible drive system – tire, rail, or an innovative combination – can be switched between at the touch of a button during operation, to help ensure optimal operation in a wide variety of applications. The next generation rail excavator is purpose built for rail and is the ideal machine to help increase versatility and efficiency.



### BUILT FOR RAILS

Built with specialized components that allow you to travel directly on railroad tracks while maintaining the full functionality of a traditional excavator.

### HIGH PERFORMANCE

Powerful hydraulics, advanced controls, and reinforced components that handle demanding rail maintenance tasks with speed and precision.

### UNMATCHED VERSATILITY

Seamlessly transition between road and rail travel, handling a wide range of tasks including railway construction, maintenance, and removal – all within a single machine.

# SPECIALLY BUILT FOR RAIL APPLICATIONS

- Hydrostatic rail wheel drive (9A): Ideal for long distances and for traveling over rail infrastructure such as industrial plants.
- Classic drive with rail axles and tire drive (9C): Perfect for applications requiring high traction and pulling power, such as pulling heavy loads.
- Combination of both drive types (Dual 9A/9C): Combines the advantages of both systems to help offer maximum flexibility for different applications.
- The M323 is extremely mobile and can travel at speeds of up to 25 km/h (15 mph) on the road or 30 km/h (18 mph) on rail.
- With removable additional counterweight, the machine meets both the criteria for rail and road approval, while simultaneously helping increase lifting capacities and excavation performance.
- With the rail-specific Safe Energy Control System (ECS), machine movements can be limited vertically and sideways. Movements begin to slow down as they approach the preset limits. Movements beyond these limits are blocked.
- The short tail design (1575 mm or 5.2 ft) meets the specific requirements for operations around track without significantly compromising the excavator's performance and stability. It is ideal for working in confined spaces.
- The long tail design (2000 mm or 6.6 ft) helps enable smooth operation with high load capacities.
- The adjustable boom offers an optimal combination of reach, digging force, and lifting height below the catenary wire.
- The rated capacity indicator (RCI) and rated capacity limiter (RCL) systems help ensure machine stability in all working positions.
- The cab offers optimal comfort for the driver and passenger, even during long operations, with a sophisticated lighting concept and air conditioning.
- The storage space has been increased by 40% to help transport track-specific accessories.

*\*Not all features are available in all regions. Please check with your Cat dealer for specific offering availability in your area*



# HIGH PERFORMANCE

- The C4.4 engine meets EU Stage V emission standards.
- The engine responds quickly to load changes to help deliver consistently high performance – regardless of operating conditions.
- Designed for maximum efficiency through load-sensing hydraulics to support fast cycle times.
- Eco mode and automatic engine speed control help lower fuel consumption while still delivering consistent performance.
- The powerful and efficient Cat C4.4 engine offers superior durability.
- The on-demand cooling system helps reduce fuel consumption.
- A dedicated swing pump also supports fuel efficiency and allows for fast and smooth combined movements.

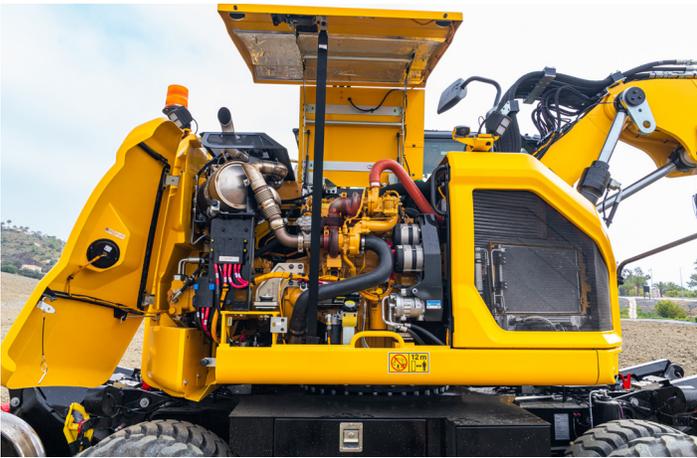


# WORK IN COMFORT



- A high-resolution LCD monitor helps provide quick access to frequently used functions.
- Sensitivity can be adjusted using joysticks on both road and rail.
- Adjustable seats, armrests, steering column, joystick controls, buttons, and thumbwheels help enable a unique operator experience.
- The ergonomically designed cab features easy-to-reach controls, all located in front of you.
- The M323 is equipped with a single shell cab with two seats for the operator and railway safety attendant when traveling on rails.

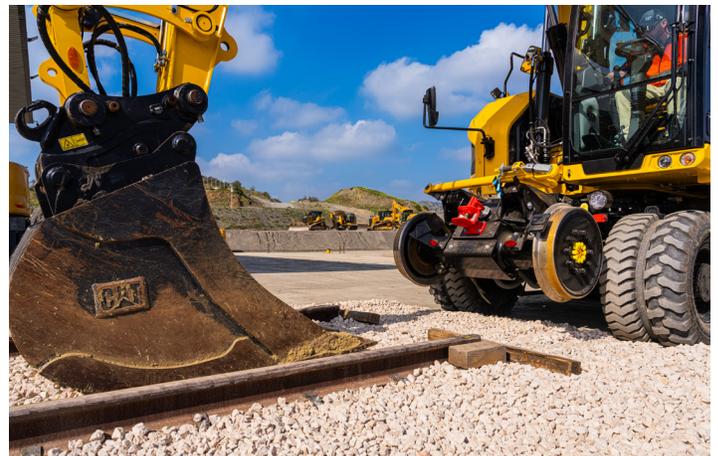
# MAINTENANCE



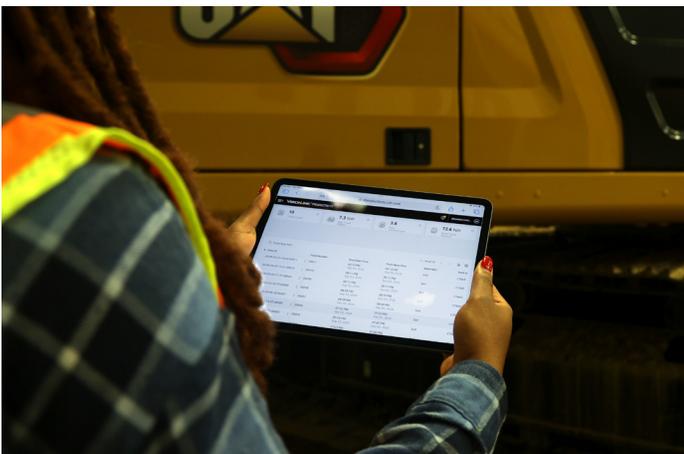
- Routine maintenance components such as fuel and engine oil filters and fluid access points are accessible from ground level.
- The automatic lubrication system on the uppercarriage and a small number of lubrication points on the undercarriage help reduce maintenance times.
- The axial fan and all radiators are located in a single unit. The radiators are designed for easy cleaning and can be unlocked and tilted without tools.

## VERSATILE SOLUTION FOR RAIL APPLICATIONS

- With standard auxiliary hydraulics, including high-pressure and quick coupler lines and circuits, attachments can be easily changed without the need for additional lines.
- The M323 is compatible with a full range of dedicated tools for railway construction, maintenance, removal, and support and transport jobs.
- Up to 20 different hydraulic flow and pressure settings can be saved.



## INTEGRATED CAT TECHNOLOGIES



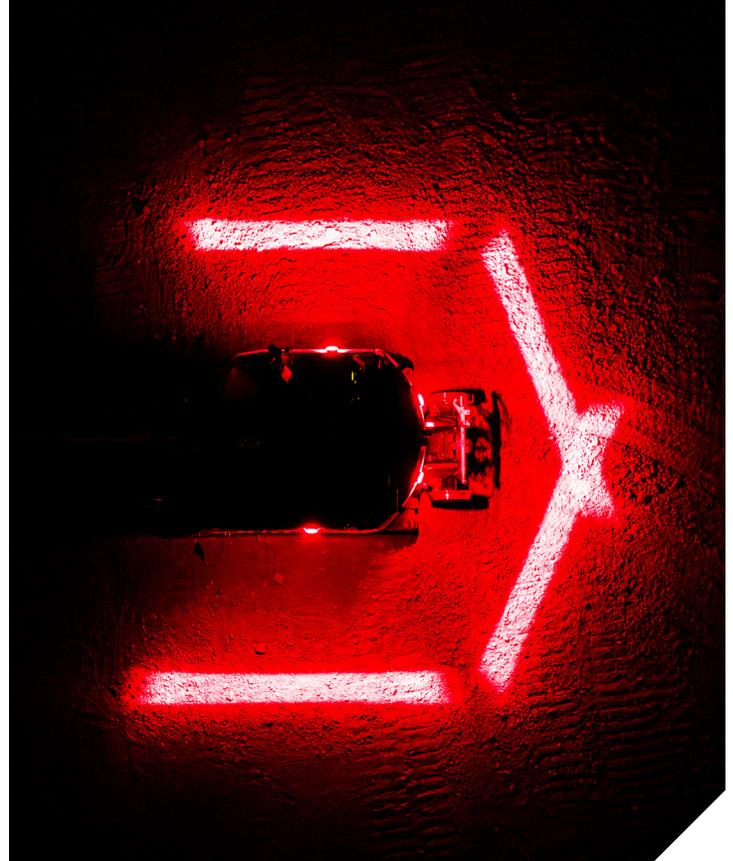
- Increase production and minimize operating costs with help from Cat technology solutions.
- VisionLink™ provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.\* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.
- The easy-to-read, high-resolution LCD monitor keeps you up to date with important machine information.

*\*Data field availability can vary by equipment manufacturer*

# SAFETY FEATURES



- Rollover protective structures (ROPS) for the operator and auxiliary cabs are tested according to ISO 12117-2:2008.
- The Cat M323 meets all applicable safety standards, including EN 15746:2020.
- E-fence technology limits movement when working under power lines or near traffic.
- The cab includes an electric backup horn, emergency button, and machine main power switch.
- Intelligent devices adapted for rail and road, such as a seatbelt warning indicator, automatic swing lock, and safety lever, help enhance jobsite safety.
- Long handrails and access steps with anti-skid plates help provide easy and safe entry into the cab.
- Large glass areas, wide-angle mirrors, a large roof hatch, rear and side-view cameras, and powerful LED work lights help provide great all-around visibility.
- The standard integrated PIN code helps prevent unauthorized use and make theft more difficult.



# SUSTAINABILITY

- The Cat C4.4 engine meets EU Stage V emission standards.
- Cat 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)\*\*\* or 100% renewable diesel, HVO (hydrogenated 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.
- Auto Engine Speed Control helps reduce unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- VisionLink displays the CO<sub>2</sub> emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.

*\* While Caterpillar 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.*

*\*\*\*Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*



# MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



## CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

## GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at [parts.cat.com](https://parts.cat.com).

## REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

## FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



DOZERS



SKID STEERS



MATERIAL HANDLERS



EXCAVATORS



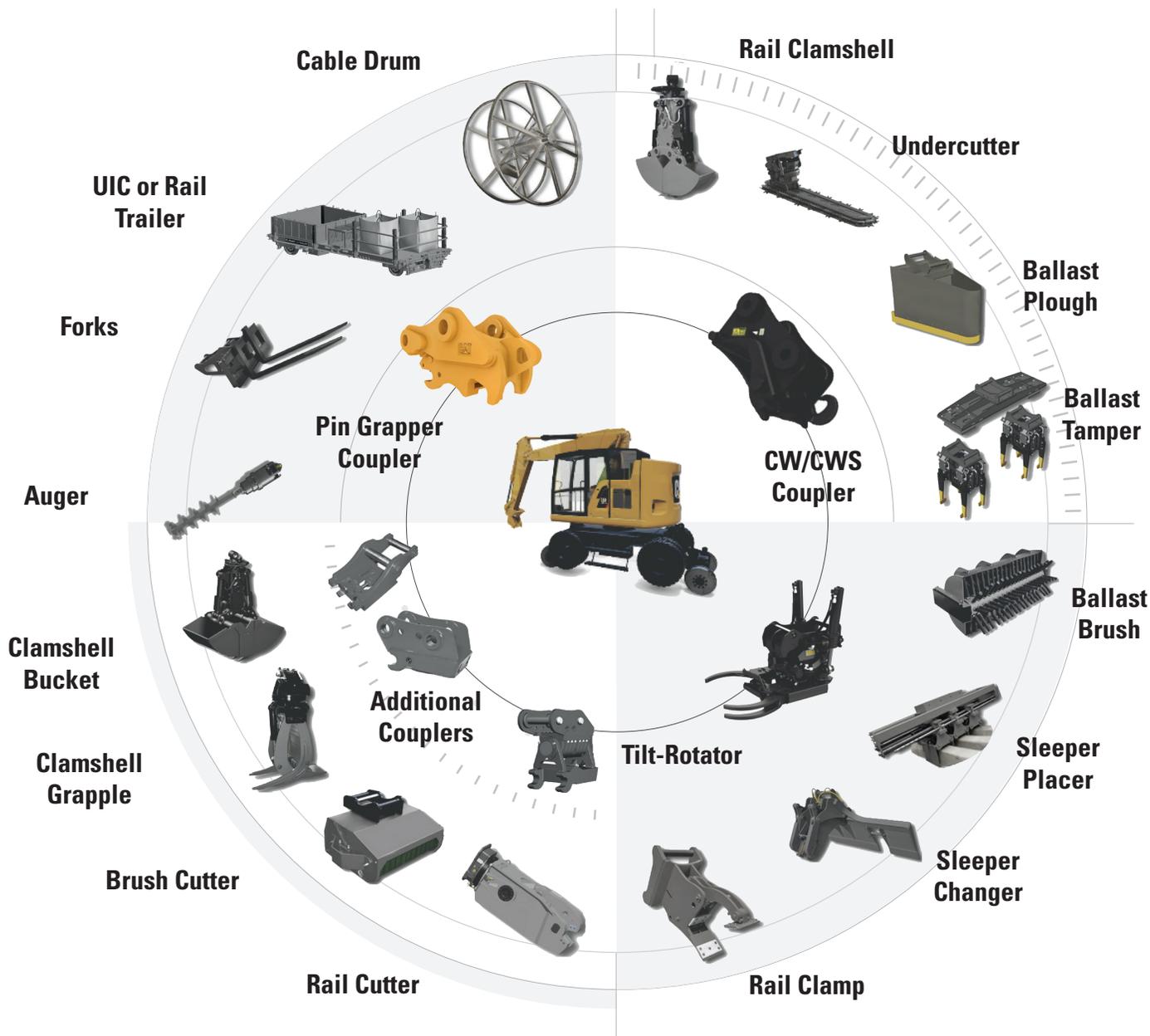
WHEEL LOADERS



TRACK LOADERS

# INCREASE YOUR PRODUCTIVITY AND PROFIT WITH ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability. The M323 is compatible with a full range of dedicated tools for rail applications.



*Note: Caterpillar offers quick coupler solutions, tilt rotate systems (TRS), and buckets; rail-specific work tool attachments are not available at this time.*

# TECHNICAL SPECIFICATIONS

See [cat.com](http://cat.com) for complete specifications.

ENGINE		
Engine Model	Cat® C4.4	
Emissions	Meets EU Stage V emission standards.	
Engine Power – ISO 14396	134 kW	180 hp
Engine Power – ISO 14396 (metric)	183 hp (metric)	
Net Power – ISO 9249	129 kW	174 hp
Net Power – ISO 9249 (metric)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>
Biodiesel Capability	Up to B20 <sup>(1)</sup>	
<ul style="list-style-type: none"> <li>• Net power advertised is the power available at the flywheel when engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed. Rated speed 1,700 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.</li> </ul>		
<p><sup>(1)</sup> Cat 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)*** or 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.</p> <p>* While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use.</p> <p>** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.</p> <p>*** Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).</p>		
DRIVE		
Maximum Travel Speed – Road Mode	25 km/h	16 mph
Maximum Travel Speed – Rail Mode		
With hydrostatic transmission (9A)	25 km/h	16 mph
With friction transmission (9C)	30 km/h	19 mph
HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	306 L/min	81 gal/min
Maximum Pressure – Implement Circuit – Normal	35 000 kPa	5,076 psi
Maximum Pressure – Implement Circuit – Heavy Lift	37 000 kPa	5,366 psi
Maximum Pressure – Implement Circuit – Travel Circuit	35 000 kPa	5,076 psi
SWING MECHANISM		
Swing Speed*	9 rpm	
Maximum Swing Torque	52 kN-m	38,400 lbf-ft
*For CE-marked machine default value may be set lower.		
OPERATING WEIGHTS <sup>2</sup>		
Minimum	21 700 kg	47,840 lb
Maximum	24 300 kg	53,572 lb
<sup>2</sup> Operating weight includes full fuel tank, operator and pneumatic tires. Weight varies depending on configuration.		

SERVICE REFILL CAPACITIES		
Fuel Tank Capacity	240 L	63.4 gal
Diesel Exhaust Fluid (DEF) Tank	19 L	5.0 gal
Cooling System	30 L	7.9 gal
Hydraulic Tank	116 L	30.6 gal
Hydraulic System (including tank)	270 L	71.3 gal
RAIL POWERTRAIN		
9A		
Rail Wheel (UIC profile)	Ø632 mm	24.9 in
Track Width (UIC)	1435 mm	4.7 ft
9C		
Rail Wheel (UIC profile)	Ø460 mm	18.1 ft
Track Width (UIC)	1435 mm	4.7 ft
UNDERCARRIAGE		
Road Ground Clearance (with hydraulic steps)	437 mm	1.4 ft
Rail Ground Clearance (9A) (with hydraulic steps)	637 mm	2.1 ft
Rail Ground Clearance (9C) (with hydraulic steps)	437 mm	1.4 ft
WORKING RANGES AND FORCES <sup>3</sup>		
<b>Boom</b>	<b>Variable Adjustable Boom 5.2 m (17'1")</b>	
<b>Stick</b>	<b>2.0 m (6'7")</b>	
9A		
Maximum Cutting Height	8741 mm	28.7 ft
Maximum Digging Depth	3247 mm	10.7 ft
Maximum Reach at Ground Line	7345 mm	24.1 ft
9C		
Maximum Cutting Height	8741 mm	28.7 ft
Maximum Digging Depth	3247 mm	10.7 ft
Maximum Reach at Ground Line	7345 mm	18.1 ft
Bucket Forces (ISO)	117 mm	26,303 lbf
Stick Forces (ISO)	83 kN	18,659 lbf
<sup>3</sup> Range values are with dual pneumatic tires (10.00-20). Range values at the stick end.		
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 0.8 kg (1.8 lb) of refrigerant which has a CO <sub>2</sub> equivalent of 1.144 metric tonnes (1.261 tons).		
– If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 0.8 kg (1.8 lb) of refrigerant which has a CO <sub>2</sub> equivalent of 0.0004 metric tonnes (0.0004 tons).		

# STANDARD AND OPTIONAL EQUIPMENT

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

BOOM AND STICK	STANDARD	OPTIONAL	SAFETY AND SECURITY	STANDARD	OPTIONAL
5.2 m (17'1") Variable Adjustable boom	•		Rear view camera	•	
2.0 m (6'7") stick	•		Rear and right-side-view cameras	•	
			360° visibility		•
ELECTRICAL SYSTEM	STANDARD	OPTIONAL	Wide angle mirrors	•	
LED lights on boom and cab	•		Travel alarm		•
LED lights on chassis (LH, RH) and counterweight	•		Signal/warning horn		•
Programmable time-delay LED working lights	•		Rotating beacon on cab and chassis		•
Roading and indicator lights, front and rear	•		Neutral lever (lock out) for all controls	•	
Maintenance free batteries	•		Ground-level accessible secondary engine shutoff switch in cab	•	
Centralized electrical disconnect switch	•		Anti-skid plate and countersunk bolts on service platform	•	
Electrical refueling pump		•	Inspection Lighting		•
CAB	STANDARD	OPTIONAL	Safe Energy Control System (ECS)	•	
Sound-suppressed ROPS cab	•		TECHNOLOGY	STANDARD	OPTIONAL
Keyless push-to-start engine control	•		VisionLink™	•	
Height-adjustable console, infinite with no tool	•		Remote Flash and Remote Troubleshoot	•	
High-resolution 254 mm (10") LCD touchscreen monitor	•		UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
ENGINE	STANDARD	OPTIONAL	Long radius counterweight		•
Cat® C4.4 diesel engine	•		Short radius counterweight		•
Electric fuel priming pump	•		Removeable counterweight for road regulation		•
Up to 52°C (125°F) high-ambient cooling capacity	•		Hydrostatic (9A) transmission		•
Cold starting capability down to -18°C (0°F)	•		Friction (9C) transmission		•
Double element air filter with integrated precleaner	•		Dual (9A & 9C) transmission		•
HYDRAULIC SYSTEM	STANDARD	OPTIONAL	Tires, Dual or Single for 9A and 9C transmission	•	•
Adjustable hydraulic sensitivity	•		Rail wheel stone shield protection		•
Separate dedicated swing pump	•		Towing coupler (manual or automatic)		•
Programmable flow and pressure for up to 20 attachments	•		Rail coupler		•
Panolin biodegradable hydraulic oil		•	Rail towing bar		•
High pressure circuit control valve	•		Lifting points	•	
Heavy lift mode	•		Tie-down points	•	
Medium pressure auxiliary circuit (one/two way medium-pressure flow)	•		1M Track gauge kit		•
High pressure auxiliary boom lines	•				
Drain line 1/2"		•			
Low back pressure return line 1"		•			

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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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