

THE CAT® LOW COST PER TON WITH OPTIMAL EFFICIENCY AND PRODUCTIVITY

The Cat® 988 XE Wheel Loader is built on the durability, reliability, and productivity of the proven 988 platform and enhanced with the efficiency advantages of advanced electric drive. When paired with our 770, 772, 773, or 775 off-highway trucks, the 988 XE achieves great productivity.



HELPING YOU MOVE MORE MATERIAL MORE EFFICIENTLY THAN WITH A TRADITIONAL **POWERSHIFT LOADER**

The 988 XE lets you move more material at a lower cost so you can achieve production targets, deliver on your commitments, meet deadlines, and maximize your profitability.

- TRUCK LOADING PRODUCTIVITY MEASURED TO BE UP TO 11% HIGHER THAN THE 988K WHILE RUNNING IN SINGLE PEDAL MODE*
- IMPROVED CONTROL TECHNOLOGY REDUCES FUEL BURN AND MOVES MORE MATERIAL
- ENHANCED OPERATOR CONTROLS DELIVER GREATER EFFICIENCY, PRODUCTIVITY, AND COMFORT

*Productivity based on simulated 3-pass production truck loading with the 988 XE operating in single right pedal mode and manual throttle as measured during production study done in July 2022 – 988K XE vs 988K.

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PROVEN POWER, LOW FUEL BURN

The Cat C18 engine, coupled with a switched reluctance power generator, delivers more than enough power for your most demanding applications. Fully integrated electronic engine controls works in concert with the entire machine at a lower max RPM of 1600 to make your fuel go further, and engine idle shutdown prevents unnecessary idling. The C18 is also equipped with ecology drains to reduce spills.

Two engine emissions options are available:

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- 2. Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.

BOOST EFFICIENCY

The 988 XE's advanced electric drive system increases efficiency over the traditional 988 powershift. This was measured to be as high as 36% in truck loading while running in throttle lock and single pedal mode.*

*Productivity based on simulated 3-pass production truck loading with the 988 XE operating in single right pedal mode and manual throttle as measured during production study done in July 2022 – 988K XE vs 988K.



ELECTRIC DRIVE HELPS INCREASE PRODUCTIVITY UP TO 10%

The 988 XE's electric drive requires no shifting and has been shown to yield higher productivity by up to 10%.*

*Productivity based on simulated 3-pass production truck loading with the 988 XE operating in single right pedal mode and manual throttle as measured during production study done in July 2022 – 988K XE vs 988K.

EFFICIENT DOWNGRADE SPEED

Optimal engine control strategy includes automatic retarding controls to maintain efficient speed on grade and make it effortless for the operator.

IMPROVE CYCLE TIMES WITH NEW TECHNOLOGY

Improve cycle times and fill factors with optional Operator Coaching by providing the operator with real time feedback. Operator Assist features help optimize specific segments of the dig cycle. Coaching off board data can be accessed with VisionLink™ Performance.



MATCH AND MOVE MORE

Achieve even greater production with an optimized truck match to maximize the volume of material moved at the lowest operating cost per ton.

Cat® 770 36 t (40 ton)

3 PASSES

Cat 772 45 t (50 ton)

4 PASSES

Cat 773 56 t (61.7 ton)

5 PASSES

Cat 775 64 t (70.5 ton)

6 PASSES

THE CAT 988 XE IS OPTIMALLY MATCHED WITH CAT OFF-HIGHWAY TRUCKS.

DO MORE FOR LESS WITH POSITIVE FLOW CONTROL

The positive flow control (PFC) hydraulic system provides more power with less fuel burn, providing consistent performance and better control. Optimized pump controls produce hydraulic oil flow that is proportionate to implement lever movement. The PFC system also provides improved bucket feel and control through increased hydraulic response.

ELECTRO HYDRAULIC SYSTEMS **BOOST PRODUCTIVITY**

With the 988 XE's electro hydraulic controls, operators have the precise maneuvering control that leads to excellent productivity. Electronically controlled hydraulic cylinder stops and integrated soft detent controls help make precise movements simple and comfortable. A load-sensing steering system with 43 degrees of articulation allows precise positioning and easy loading in tight areas.

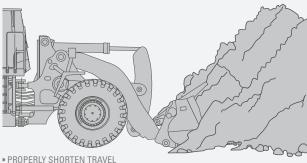
OPTIONAL COUNTERWEIGHT ENABLES PRECISION OPERATION

Certain applications are easier to optimize when operators have more precise control. An optional counterweight helps improve the stability of the machine and allows faster, more precise maneuvering.

FASTER EFFICIENCY WITH

OPERATOR COACHING

OPERATOR COACHING SYSTEM DELIVERS VITAL FEEDBACK TO THE OPERATOR THROUGHOUT EVERY CYCLE, HELPING THEM WORK MORE EFFICIENTLY



- AVOID UNRACKING IN-DIG
- ENTER THE PILE WITH A LEVEL BUCKET
- REDUCE THE DUMP HEIGHT AND USE THE KICKOUT

DESIGNED TO HELP EVERY OPERATOR EXCEL

SINGLE PEDAL OPERATION

Single pedal operation provides the operator the flexibility to easily control the machine with just the right-hand (accelerator) pedal. Through three dynamic braking levels, operators have easy, full control of the machine with single right-hand pedal operation.

STEERING AND TRANSMISSION INTEGRATED **CONTROL (STIC™) MAXIMIZES RESPONSIVENESS**

Though the 988 XE's electric drive does not shift in the traditional sense, the system is equipped with virtual gears to enable easier machine controllability. The STIC™ system combines virtual gear selection to limit top ground speed and directional control into a single lever, delivering maximum responsiveness and control.

OPERATOR ASSIST OPTIMIZES PERFORMANCE

Optional Operator Assist features help simplify the digging phase. Reducing tire slip and wear, available Auto Set Tires set the front tires to promote proper loading techniques. Lift stall prevention technology automatically manages rimpull in-dig to prevent hydraulic stall while lifting through the face, resulting in less time spent in the pile. This available option complements the already standard tire slip prevention.



WORLD-CLASS OPERATOR COMFORT AND ERGONOMICS



EASY ENTRY

Operators access the cab by 45-degree anti-skid stairways mounted on both sides of the machine. The STIC control column folds up and out of the way to help make cab entry and seat adjustment easier.



PREMIUM PLUS SEAT

The premium plus seat delivers total comfort throughout the workday. Standard features include leather finish, forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, and dynamic end dampening.

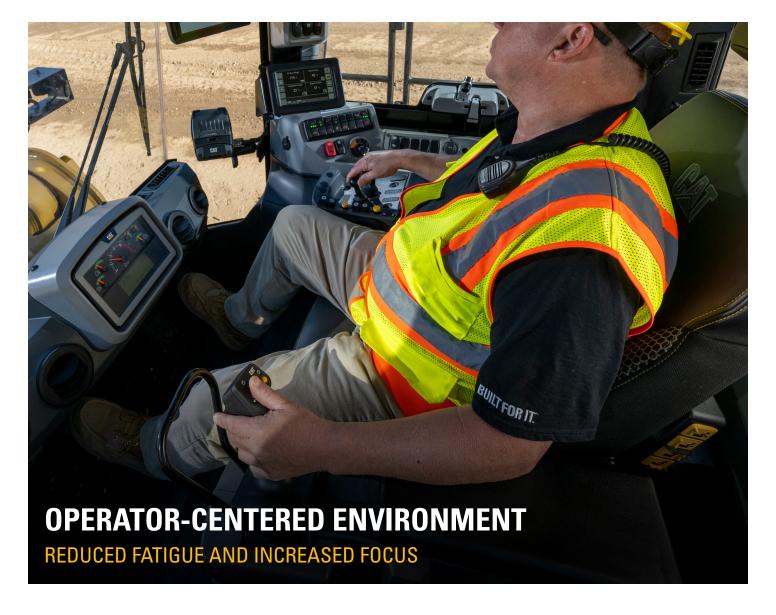
○■○ CAB COMFORT MEASURES

The 988 XE's cabin remains comfortable. Isolated cab mounts reduce vibration, while filtered, pressurized air and automatic climate control maintain an agreeable atmosphere. A floor storage tray helps keep items out of the operator's way.



LOW OPERATOR SOUND LEVELS

Sound levels are low, and a newly redesigned STIC steering valve reduces steering noise in the cab.



TOTAL SAFETY FOCUS

HELPING OPERATORS STAY SAFE AND AWARE

Your most important job is keeping your team safe. We are constantly improving our products in an effort to provide a safe work environment for the operator and those who work on your jobsite.



EASY AND SAFE ACCESS

The cab is accessed by 45-degree angle anti-slip stairways on the left and right sides, with standard stairway lighting. All access walkways are continuous to avoid trip hazards, equipped with highly effective anti-slip texture, and designed to provide three points of contact during all tasks. Many service points are accessible from ground level.



SEE AND BE SEEN WITH HIGH VISIBILITY

The cab provides excellent sight lines, and a rear vision camera enhances visibility behind the machine, helping operators work more safely and confidently. Optional heated mirrors and Cat Detect radar systems are available to give the operator even greater visibility of the surrounding environment. High visibility LED warning and seat belt indicator beacons are available as options. LED lights are now standard on the 988 XE with optional high performance lights for even greater visibility.



VOLTAGE WARNING SYSTEM

A hazardous high voltage indicator lamp assures operators and maintenance personnel know when the electric drive system is de-energized and the machine is safe to work on.



A STRONG LEGACY

The 988 series has proven durable and reliable for nearly 60 years. The 988 XE's frames, hydraulic system, and cab are identical to the well-respected 988 powershift.

STRONG STRUCTURES

A full box-section rear frame helps resist torsional shock and twisting forces. Heavy-duty steering cylinder mounts efficiently transmit steering loads into the frame.

STRONG CONNECTIONS

Every linkage and connection is engineered for maximum durability. Axle mountings have increased structural integrity, and the lower hitch pin, frame plate, and bearing size have been increased for greater strength and longer life. The greased pin design of the front linkage pin joints helps increase their service life.

STRONG ARMS

The lift arms are solid steel for excellent stress absorption, and the strength of key pin areas is enhanced through the use of one-piece castings. The Z-bar design of the arms enhances worksite visibility.

PROTECTED ELECTRONICS

The 988 XE's power inverter features solid state components to maximize durability in tough operating conditions and is sealed for total protection from weather. It is also liquid cooled to maximize heat protection to help ensure long service life.

A PROTECTED POWERTRAIN

When the machine is turned off, a delayed engine shutdown system determines whether the engine needs additional cooldown time. If so, it moves the engine into idle for a short period before final shutdown. This helps preserve engine life and durability.

BUILT FOR LONG LIFE

SYSTEMS ENGINEERED TO MAXIMIZE YOUR RETURN ON INVESTMENT

The 988 XE is designed so that major powertrain components require less maintenance with a service interval of 2,000 hours compared to 1,000 hours on mechanical transmissions.

FEWER MOVING PARTS, LESS DOWNTIME

The electric drive systems of the 988 XE have fewer moving parts than mechanical torque converters and transmissions and have longer maintenance intervals. Taking advantage of the electric drive technology, the 988 XE leverages dynamic braking when the operator uses the brake pedal. Single right pedal operation can further reduce the need to use the brakes by providing the flexibility of three levels of dynamic braking that automatically activates whenever the right (accelerator) pedal is released.



POWERTRAIN THAT MAXIMIZES YOUR INVESTMENT

The electric drive system extends the time between powertrain rebuilds to 17,500 hours from 14,000 hours on the 988 powershift. The drive motor, generator, and inverter are highly durable and built to last through the second engine's life. The power inverter and high power cables do not require any service until 35,000 hours. With less fuel running through the engine, engine life has been increased to 20,000 hours.



CAT TECHNOLOGY AND SUPPORT

Built-in electric drive tests make it easier for technicians to troubleshoot problems without having to install gauges or do any disassembly. System notifications from the Vital Information Management System (VIMS™) allow your operators and technicians to resolve problems before failure, helping reduce downtime and maintenance costs. You'll also have the full backing of Caterpillar's legendary support system: preventive maintenance programs, guaranteed maintenance contracts, excellent parts availability, and a worldwide dealer network. Genuine Cat remanufactured parts will lower your costs and further reduce the environmental impact of the machine over its service life.



CONSUMABLES LAST LONGER, REDUCING COSTS

With the 988 XE's advanced electric drive system, powertrain oil lasts twice as long, and filters last 4 times as long.

THAT MEANS LOW COSTS FOR YOU.

POWERTRAIN OIL	9	
988	ZX	
988 XE		
FILTERS	A	
988	4 X	
988 XE		

THRIVE WITH CAT TECHNOLOGY

SMART SYSTEMS THAT HELP SAVE YOU MONEY



UPGRADED TOUCHSCREEN WITH VITAL INFORMATION MANAGEMENT SYSTEM (VIMS™)

The improved touchscreen and user interface allow intuitive operation and easy navigation. VIMS[™] decreases service time by keeping operators and technicians informed about machine systems and allows access to a wide range of machine data, helping reduce maintenance overhead and providing opportunities to increase productivity and efficiency.

- Create productivity reports with payload and work cycle segmentation.
- Identify operator training needs through productivity data.
- Access detailed data logging of machine parameters and diagnostic codes.
- Track sensor information with trend analysis and histograms to monitor machine health.
- Access Operator Coaching reporting through Visionlink" (if equipped with Operator Coaching).



TIRE PRESSURE MONITORING SYSTEM (TPMS)

This fully-integrated feature allows operators to monitor tire inflation, keeping it optimized for fuel efficiency and best grip. Using the cab information display, the operator can quickly see the current pressure settings and temperature of each tire.



CAT PRODUCTION MEASUREMENT (CPM)

Cat Production Measurement* is an on-the-go scale system that brings payload weighing to the cab so operators can work more productively and deliver accurate loads with confidence. CPM's advanced weighing modes assist with payload accuracy and make the loading cycle faster.

*Not legal for trade.



CONNECTED BUCKET

Track the working hours of the bucket to help predict the need for bucket maintenance or replacement of wear parts. Contact your dealer for regional availability.









ROCK BUCKETS

HEAVY-DUTY ROCK BUCKETS

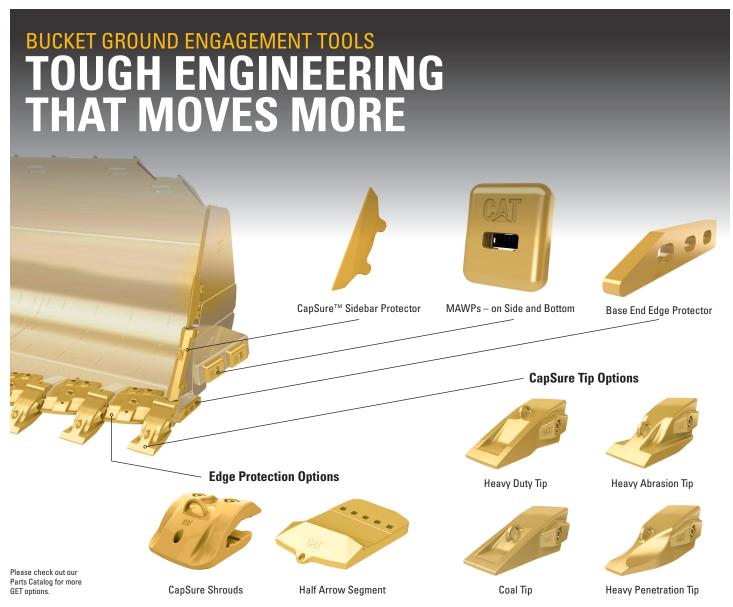
GENERAL PURPOSE BUCKETS

COAL BUCKETS

TOOLS TO GET EVERY JOB DONE AND LOWER YOUR COSTS

Cat ground engagement options give you the ability to adapt to any condition and do so while protecting your investment.

- Each bucket is designed to help make moving the appropriate material easy and efficient, and each is engineered with special features that help increase durability and service life.
- Cat Advansys™ ground engaging tools (GET) give you even more ability to adapt and specialize for higher profitability. These modular tips help protect expensive components, reduce your operating costs, and help you get the most out of your machine's performance.
- A number of GET components can be installed with simple, hammerless CapSure™ retention technology. CapSure tips, shrouds, and sidebar protectors are easily locked and unlocked with a 180-degree turn of a 3/4 inch (19 mm) ratchet, making the process fast, easy, and safe.
- * For a full list of buckets, proper bucket sizing, configuration, and Engineered to Order (ETO) requests, visit the bucket expert tool (expert.cat.com).





THE PERFORMANCE YOU NEED AT A LOW COST



PROVEN DESIGN THAT LOWERS YOUR COSTS

The 988 XE Millyard uses all the highly durable structures, the advanced controls, and the efficient, long-life powertrain of the standard machine but provides the perfect tools and systems for forestry operations.



THE RIGHT TOOLS FOR EVERY JOB

Three different fork designs with differing clamp and tine arrangements give you the right tool for any load, from individual logs to massive bundles. Open, high-visibility designs allow operators to work more efficiently and safely. A specially designed high-capacity bucket is perfect for moving woodchips.



ADDED STRENGTH TO MOVE MORE

Unload a typical full-length log truck in a single pass with the larger lift and tilt cylinders and a unique tilt lever to maximize linkage force. Designed with 20% more lift capacity and 26% more tilt capacity over the standard 988 XE.



CHANGE TOOLS QUICKLY

With an optional quick coupler and third valve hydraulic functions, your operators will be able to change forks or buckets in seconds.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE			
Engine Model	Cat® C18		
Rated Speed	1,700 rpm		
Peak Power Speed	1,500 rpm		
Engine Power – ISO 14396:2002	432 kW	580 hp	
Gross Power – SAE J1995:2014	439 kW	588 hp	
Net Power – SAE J1349:2011	401 kW	538 hp	
Bore	145 mm	5.7 in	
Stroke	183 mm	7.2 in	
Displacement	18.1 L	1,105 in ³	
Peak Torque @ 1,200 rpm — SAE J1995:2014	3023 N⋅m	2,230 lb-ft	
Torque Rise	58%		

- •Two engine emissions options are available:
 - 1. Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
 - Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan at minimum speed, air intake system, exhaust system, and alternator

OPERATING SPECIFICATIONS				
Operating Weight	52 781 kg	116,362 lb		
Rated Payload — Quarry Face	11.3 tonnes	12.5 tons		
Rated Payload – Loose Material	14.5 tonnes	16.0 tons		

BUCKET CAPACITIES

Bucket Range 4.7-13.0 m³ 6.2-17.0 yd³

TRANSMISSION					
Transmission Type Cat switched reluctance electric drive					ectric drive
Forward 1	7.0 km/h	4.3 mph	Reverse 1	7.0 km/h	4.3 mph
Forward 2	11.3 km/h	7.0 mph	Reverse 2	11.3 km/h	7.0 mph
Forward 3	22.2 km/h	13.8 mph	Reverse 3	28.2 km/h	17.5 mph
Forward 4	32.1 km/h	20.0 mph			

HYDKAULIC SYSTEM – LIFT/TILT		
Lift/Tilt System — Circuit	EH – positive flow control, flow sharing	
Lift/Tilt System Pumps	Variable displacement piston	
Relief Valve Setting – Lift/Tilt	32 800 kPa 4,757 psi	

HYDRAULIC CYCLE TIME			
Rackback	4.5 seconds		
Raise	8.0 seconds		
Dump	2.2 seconds		
Lower Float Down	3.5 seconds		
Total Hydraulic Cycle Time (empty bucket)	18.2 seconds		

HYDRAULIC SYSTEM – STEERING				
Steering System – Circuit	Pilot, load sensing			
Steering System – Pump	Piston, variable displacement			
Steering Cut Off Pressure	32 000 kPa 4,641 psi			
Total Steering Angle	86°			
Steering Cycle Time (high idle)	3.4 seconds			
Steering Cycle Time (low idle)	5.6 seconds			

DIMENSIONS				
	Standard Lift		High Lift	
Ground to Top of Rollover Protective Structure (ROPS)	4202 mm	13.8 ft	4202 mm	13.8 ft
Ground to Top of Exhaust Stacks	4521 mm	14.8 ft	4521 mm	14.8 ft
Ground to Top of Hood	3334 mm	10.9 ft	3334 mm	10.9 ft
Ground to Bumper Clearance	933 mm	3.1 ft	933 mm	3.1 ft
Rear Axle Center Line to Bumper	3187 mm	10.5 ft	3187 mm	10.5 ft
Front Axle Center Line to Bucket Tip	4254 mm	14.0 ft	4661 mm	15.3 ft
Wheel Base	4550 mm	14.9 ft	4550 mm	14.9 ft
Maximum Overall Length	11 991 mm	39.3 ft	12 398 mm	40.7 ft
Ground to Lower Hitch Clearance	568 mm	1.9 ft	568 mm	1.9 ft
Ground to Center of Axles	978 mm	3.2 ft	978 mm	3.2 ft
Clearance at Maximum Lift (45° Dump)	3641 mm	11.9 ft	4043 mm	13.3 ft
B-Pin Height at Maximum Lift	5491 mm	18.0 ft	5887 mm	19.3 ft
Maximum Overall Height – Bucket Raised	7455 mm	24.5 ft	7849 mm	25.8 ft
Reach at Maximum Lift (45° Dump)	1981 mm	6.5 ft	2062 mm	6.8 ft

 Specifications are calculated with 6.9 m³ (9.0 yd³) rock bucket and Michelin XLDD2 tires with 978 mm (3.2 ft) centerline of rear axle height.

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 1.8 kg (3.9 lb) of refrigerant which has a CO₂ equivalent of 2.574 metric tonnes (2.837 tons)

SOUND	
Tier 4 Final/Stage V	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Machine Sound Power Level (ISO 6395:2008)	109 dB(A)**
Tier 3 /Stage IIIA	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Machine Sound Power Level (ISO 6395:2008)	110 dB(A)**

- *For machines in European Union countries and in countries that adopt the "EU Directives" and "UK Directives."
- **European Union Directive "2000/14/EC" and UK Noise Regulation 2001 No. 1701.
- The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at 70% of the maximum engine cooling fan speed.
- The operator sound pressure level was measured according to ISO 6396:2008. The
 measurement was conducted at 70% 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.

STANDARD & OPTIONAL EQUIPMENT

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

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Air conditioner	•	
Cat® Detect, object detection system		•
Cat Vision, rear vision camera system	•	
Cab precleaner	•	
Cab, sound suppressed and pressurized, integrated rollover protective structure/ falling objects protective structure (ROPS/FOPS), radio ready for entertainment, includes antenna, speakers, and converter (12-volt 5-amp) and power port	•	
Cat Production Measurement*		•
Cat Production Measurement* ready	•	
Configurable Machine Overload Prevention	•	
Mirrors, rearview (externally mounted)	•	
Radio, AM/FM/CD/MP3 Bluetooth®	•	
Radio, CB ready	•	
Seat, premium plus containing forced air heating and cooling, 2-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness, dynamic end dampening and leather finish	•	
Seat belt minder	•	
Seat belt, retractable, 76 mm (3 in) wide	•	
External seat belt indicator.		•
Steering and Integrated Control (STIC™) system	•	
Wet-arm wipers/washers (front and rear) –		
intermittent front and rear wipers	•	
	STANDARD	OPTIONAL
intermittent front and rear wipers	STANDARD	OPTIONAL •
intermittent front and rear wipers POWERTRAIN	• STANDARD	OPTIONAL ●
intermittent front and rear wipers POWERTRAIN Antifreeze -50°C (-58°F)	• STANDARD	OPTIONAL •
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc,	• STANDARD • • •	OPTIONAL ●
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary	STANDARD • • • • •	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics	STANDARD O O O O O O O O O O O O O O O O O	OPTIONAL ◆
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/	STANDARD O O O O O	OPTIONAL •
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive	STANDARD O O O O O O O O O O O O O O O O O O	OPTIONAL •
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard	STANDARD O O O O O O O O O O O O O O O O O O	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/pump drive Crankcase guard Electro hydraulic parking brake	STANDARD O O O O O O O O O O O O O O O O O O	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUITM) diesel, turbocharged/aftercooled	•	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins	STANDARD O O O O O O O O O O O O O O O O O O	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins Ground-level engine shutdown switch	•	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins Ground-level engine shutdown switch High ambient cooling — software	•	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins Ground-level engine shutdown switch High ambient cooling — software Hydraulic system case drain screens	•	OPTIONAL
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins Ground-level engine shutdown switch High ambient cooling − software Hydraulic system case drain screens Maintenance-free high power inverter	•	OPTIONAL • • • •
POWERTRAIN Antifreeze -50°C (-58°F) Automatic retarder controls Brakes, oil-cooled, multi-disc, service/secondary Cat integrated powered electronics Cat switched reluctance (SR) drive motor Cat switched reluctance (SR) generator/ pump drive Crankcase guard Electro hydraulic parking brake Engine block heater 120V or 240V Engine brake, software enabled attachment (SEA) Engine, C18 Mechanically Actuated Electronic Unit Injection (MEUI™) diesel, turbocharged/aftercooled Engine oil change system, high speed, Wiggins Ground-level engine shutdown switch High ambient cooling — software Hydraulic system case drain screens	•	OPTIONAL • • • •

POWERTRAIN (CONTINUED)	STANDARD	OPTIONAL
Single pedal mode with three levels of dynamic braking	•	
Starting aid, ether, automatic	•	
Throttle lock, electronic	•	
Manual switch and automatic fuel priming	•	
FLECTRICAL	STANDARD	OPTIONAL
222071110712	STANDARD	OPTIONAL
Alternator, single 150 amp	_	
Engine compartment service lights		•
Lighting system (LED, work lights, access and service platform lighting)	•	
Starting and charging system, 24V	•	
Auxiliary jump start receptacle	•	
Starter lockout in bumper	•	
Transmission lockout in bumper	•	
High voltage indicator light	•	
ADDITIONAL EQUIPMENT	STANDARD	OPTIONAL
Operator assist feature, tire slip prevention	•	
Operator assist features, auto set tires and lift stall prevention		•
Autolube with auto shutoff		•
Automatic bucket lift kickout/positioner		•
Base machine price includes a rim allowance	•	
Cat Clean Emission Module (CEM)	•	
Cold weather starting (extra starter plus two batteries)		•
Doors, service access (locking)	•	
Ecology drains for engine, radiator, hydraulic tank	•	
Fast fill fuel system (Shaw-Aero)		•
Front and rear roading fenders		•
Hitch, drawbar with pin	•	
Hydraulic, steering and brake filtration/ screening system	•	
Hydraulically driven demand fan	•	
Load and carry counterweight		•
Oil sampling valves	•	
Operator coaching		•
Premixed 50% concentration of extended life coolant with freeze protection to -34°C (-29°F)	•	
Rear access to cab and service platform	•	
Steering, load sensing	•	
Tire pressure monitoring system		•
Toe kicks	•	
Vandalism protection caplocks	•	
Wheel chocks		•
OPTIONAL CONFIGURATIONS	STANDARD	OPTIONAL
Aggregate handler		•
Millyard		•
,		

*Not legal for trade.





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

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