330

HYDRAULIC EXCAVATOR



Engine Power	204 kW (273 hp)
Operating Weight	30 900 kg (68,125 lb)

Cat® C7.1 engine meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 (Tier 4 Final) and Korea Tier 4 Final emission standards with an aftertreatment system that requires no operator input or downtime.

NEXT GENERATION EXCAVATORS

Cat® Next Generation Excavators offer you more choices than ever for your business.

+ MORE MODEL OPTIONS
+ MORE STANDARD TECHNOLOGIES
+ MORE PRICE POINTS

Ready to help you make your business stronger, Cat Next Generation Excavators give you ways to get the most work done at the lowest cost – so you put more money in your pocket.



THE CAT® 330

MOVING THE STANDARD HIGHER

THE CAT 330 raises the bar for performance and fuel efficiency in this size class. With the industry's highest level of standard factory technology, a cab focused on operator comfort, plus lower fuel and maintenance costs, the 330 will set the pace for productivity and profit in your operation.



INCREASE OPERATING EFFICIENCY **UP TO 45%**[1]

The Cat 330 offers the industry's highest level of standard factory-equipped technology, including Cat GRADE with 2D, GRADE with Assist, and PAYLOAD.

INCREASE FUEL EFFICIENCY **UP TO 20%**[2]

With larger hydraulic pumps, an electro-hydraulic system, and increased bucket capacity, the Cat 330 delivers more work per unit of fuel.

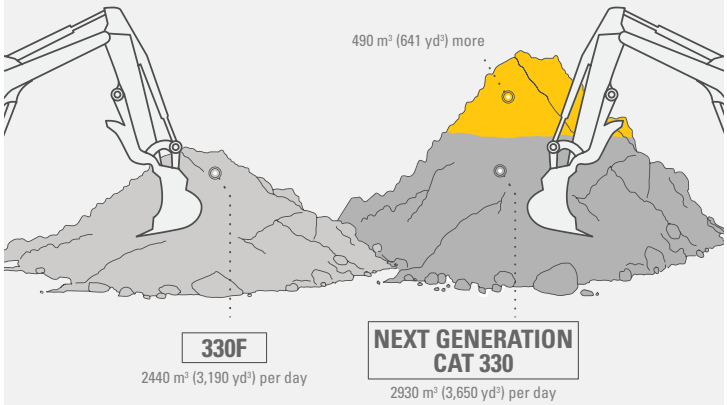
LOWER MAINTENANCE COSTS **UP TO 20%**[3]

Fewer maintenance items paired with extended and more synchronized maintenance intervals increases uptime and reduces costs.

[1] Operator efficiency gains compared to traditional grading methods.
[2] Compared to 330F.
[3] Cost reduction based on 12,000 hours of operation.

GET MORE OUT OF **EVERY MOVE.**

MOVE MORE WITH A 20% INCREASE IN FUEL EFFICIENCY.



The Next Generation Cat 330 moves **20% MORE** than the Cat 330F with the same amount of fuel.

SCENARIO:

330F consuming 18 L/hr (4.8 gal/hr), configured with 1.54 m³ (2.01 yd³) bucket, bucket fill factor of 110%, and 20 second cycle times.

330F MOVES AN AVERAGE OF 2440 M³ (3,190 YD³) EACH 8-HOUR DAY USING 145 L (38 GAL) FUEL. NEXT GENERATION 330 MOVES AN ADDITIONAL 490 M³ (641 YD³) USING THE SAME AMOUNT OF FUEL.



STANDARD CAT TECHNOLOGY

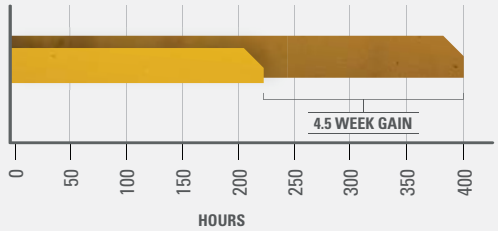
GETS JOBS DONE FASTER WITH LESS REWORK

Cat Technology gives you the edge. Operators of all experience levels will dig, load, and grade with more confidence, speed, and accuracy. The result?

Better productivity and lower costs.

WHAT WOULD YOU DO WITH 4.5 MORE WEEKS?

45% GAIN WITH TECHNOLOGY
means same amount of work done faster



PREVIOUS YEAR:
USING TRADITIONAL GRADING METHODS

400 hours/year, grading with stakes and checkers

CURRENT YEAR:
USING CAT 330 WITH CAT TECHNOLOGY

220 hours/year, with standard Cat GRADE



INCREASE EFFICIENCY UP TO 45%
WITH CAT TECHNOLOGY

STANDARD, SIMPLE-TO-USE TECHNOLOGIES INCLUDE:

STANDARD CAT GRADE WITH 2D

Cat GRADE with 2D helps operators reach grade faster. Operators cut and fill to exact specifications without overcutting. You can program up to four of your most commonly used target depth and slope offsets so you can get to grade with ease – a real time saver on the job site. Best of all, no grade checkers are needed so the work area is safer.

STANDARD CAT PAYLOAD

Cat PAYLOAD technology delivers precise load targets with on-the-go weighing, which helps prevent over/underloading and maximizes efficiency. Automated tracking helps manage production and lower cost. You can even take payload data with you. The monitor's USP port lets you download your results from one shift all the way up to 30 days of work so can manage your progress without needing an internet connection or VisionLink® subscription.

STANDARD CAT GRADE WITH ASSIST

AUTO

Automated boom, stick, and bucket movements deliver more accurate cuts with less effort. The operator simply sets the depth and slope in the monitor and activates single-lever digging.

AVAILABLE OPTIONAL UPGRADES

Cat GRADE with Advanced 2D and Cat GRADE with 3D increase productivity and expand grading capabilities. GRADE with Advanced 2D adds in-field design capabilities through an additional 254 mm (10 inch) high-resolution touchscreen monitor. GRADE with 3D adds GPS and GLONASS positioning for pinpoint accuracy. Plus it's easier than ever to connect to 3D services like Trimble Connected Community or Virtual Reference Station with the excavator's built-in communication technology.



EXPAND YOUR JOBSITE CAPABILITIES

WITH MORE LIFT AND MORE SWING TORQUE

The larger counterweight means you can increase your bucket size and lift up to nine percent more than the 330F.

With more swing pressure, a larger swing drive, and a larger swing bearing, the 330 delivers five percent more swing torque over the 330F, making backfilling and working on slopes easier.

LEAVE THE **HEAVY LIFTING** TO US.

LIFT MORE WITH THE NEXT GENERATION CAT 330 EXCAVATOR

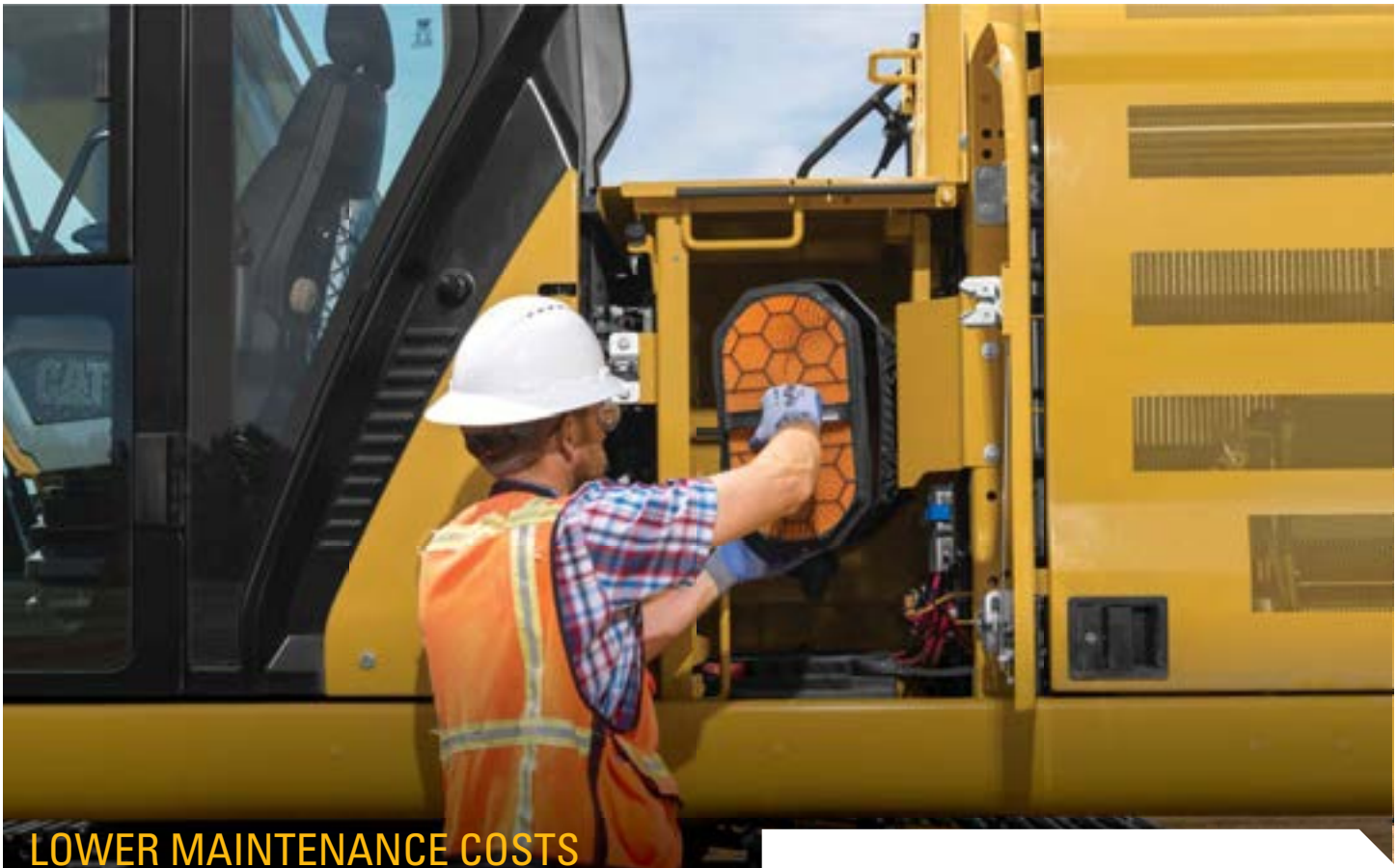


LIFT AS MUCH AS **1050 KG (2,315 LBS) MORE** WITH THE NEXT GENERATION CAT 330.

WHEN COMPARED TO THE CAT 330F

SCENARIO:

Calculated at 4500 mm (14'9") reach over the front, 4500 mm (14'9") below ground level.



LOWER MAINTENANCE COSTS

UP TO 20%

With synchronized and extended maintenance intervals, you get more done at a lower cost compared to the 330F. Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have increased capacity and longer life. Access to the operation and maintenance manual is easy through the in-cab monitor.

KEY MAINTENANCE COST REDUCTIONS INCLUDE:

+ Consolidated filter locations to reduce service time.
+ Improved hydraulic filter with higher dirt holding capacity.
+ Oil and fuel filters with extended maintenance intervals.
+ Advanced Cat air filter with double the dust holding capacity of the previous filter.
+ High-efficiency electric cooling fans only run when needed and reverse to keep cores free from debris. Choose between manual and auto reverse fan settings.



100% INCREASE IN SERVICE LIFE | CAT ENGINE AIR FILTER

CAB TAKES

THE HARD OUT OF WORK

Sites where excavators typically work are rugged and challenging. That's why it's important that the 330 cab protects the operator as much as possible from the fatigue, stresses, sounds, and temperatures of the job.



SEAT AND CONSOLE REDUCE FATIGUE

Comfort and efficiency of movement keep operators productive and alert all shift long. The standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat; the Premium seat is both heated and cooled. The tip-up left console makes egress and ingress easy.

ISO-CERTIFIED ROPS CAB WITH ALL-AROUND VISIBILITY

The ISO-certified ROPS cab is sound suppressed and sealed. The large windows and lower front, right, and rear profile of the machine give outstanding visibility to the work area without the strain of constantly leaning forward. Standard rearview and right-side-view cameras keep operators aware of their surroundings at all times. An optional 360° visibility feature is also available.

EASY ACCESS, CONNECTIVITY, AND STORAGE

Several built-in convenience features make work more comfortable for operators:

+ Bluetooth® integrated radio
+ USB ports for charging and phone connectivity
+ 12V DC outlets and AUX port
+ Storage in rear, overhead, and console compartments
+ Cup and bottle holders

TOUCHSCREEN MONITOR

Most machine settings can be controlled through the high-resolution 254 mm/10-inch touchscreen monitor. It offers 42 languages and is easy to read from the seat – no twisting or turning. A second 254 mm/10-inch touchscreen monitor is available for the advanced grade control.

SMART MODE

The Smart Mode (one of three power mode settings) automatically adjusts engine and hydraulic power for the highest fuel efficiency – less power for tasks such as swinging and more power for digging. Operators can set and store their power mode preference using Operator ID. Owners can lock in the mode they want their operators to use to help manage fuel consumption.



CUSTOMIZABLE JOYSTICKS

Joystick function can be customized through the monitor. Joystick pattern as well as response can be set to match operator preferences. All preferences are saved with the Operator ID and restored at login.

KEYLESS PUSH START

The 330 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually, via an optional Bluetooth key fob, or a smartphone app.

SAFETY FEATURES

LOOK OUT FOR YOUR PEOPLE AND YOUR EQUIPMENT



Keep your people and your equipment safe with technology features, a ground-level engine oil dipstick, and upper platform access on the Cat 330 excavator.

LIFT ASSIST

Lift Assist helps you avoid tipping. With visual and auditory alerts, you'll know if your load is within the excavator's safe working range limits.

UPPER PLATFORM ACCESS

Right service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.

SECURE START

Use your PIN code on the monitor, the optional Bluetooth key fob, or your smartphone to enable the push-button starting feature.

GROUND-LEVEL DAILY MAINTENANCE

All daily maintenance checks can be performed from ground level, making maintenance faster, easier, and safer. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.



E-WALL SWING



E-WALL FORWARD



E-WALL CAB PROTECTION



E-WALL CEILING



E-WALL FLOOR

STANDARD 2D E-FENCE TECHNOLOGY

Whether you are using a bucket or a hammer, the standard 2D E-fence feature automatically stops excavator motion using boundaries you set in the monitor for the entire working envelope – above, below, sides, and front. E-fence protects equipment from damage and reduces fines related to zoning or underground utility damage. Automatic boundaries even help prevent operator fatigue by reducing overswinging and digging.



A MACHINE YOU CAN DEPEND ON

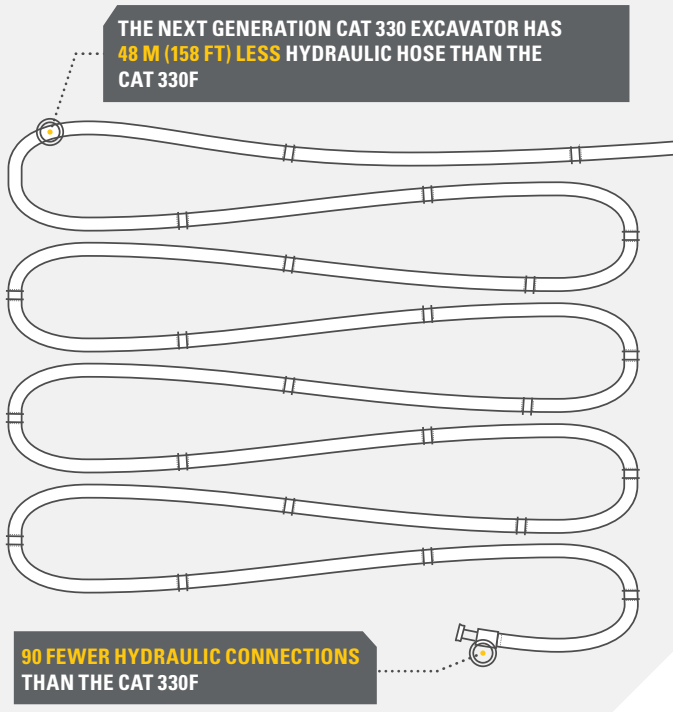
The Cat 330 is a reliable, durable machine. It's designed to take on the hard work you put in front of it every day.

UNIQUE DESIGN FEATURES:

+ Electro-hydraulic system requires less oil, less hoses, and less couplings for added reliability.
+ Larger swing drive and swing bearing support added swing torque for heavier work.
+ Reinforced front structure and base frame support more lift, more counterweight, and more torque.
+ Oval-shaped hydraulic tank increases stress resistance.
+ Technology components are integrated into the machine for added protection.
+ Grease lubricated tracks with a master pin to deliver double the retention force.

LESS RISK. **MORE REWARD.**

REDUCED CHANCE OF LEAKS AND DAMAGE WITH **FEWER CONNECTIONS AND LESS HOSE.**



CAT LINK TECHNOLOGY
TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

CAT LINK telematics technology helps take the complexity out of managing your jobsites – by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VISIONLINK®

Access information anytime, anywhere with VisionLink® – and use it to make informed decisions that boost productivity, lower costs, simplify maintenance, and improve safety and security on your jobsite. With different subscription level options, your Cat dealer can help you configure exactly what you need to connect your fleet and manage your business without paying for extras you don't want. Subscriptions are available with cellular or satellite reporting (or both).

Caterpillar releases products, services, and technologies in each region at different time intervals. Please verify with your local Cat dealer for technology availability and specifications.



Remote Services is a suite of technologies that improve your jobsite efficiency.

Remote Troubleshoot allows your Cat dealer to perform diagnostic testing on your connected machine remotely, pinpointing potential issues while the machine is in operation. Remote Troubleshoot ensures the technician arrives with the correct parts and tools the first time, eliminating additional trips to save you time and money.

Remote Flash updates on-board software without a technician being present, potentially reducing update time by as much as 50%. You can initiate the update when convenient, increasing your overall operating efficiency.

The **Cat App** helps you manage your assets – at any time – right from your smartphone. You can see your fleet location, hours, and other information you need to see. You will get critical alerts for required maintenance, and you can even request service from your local Cat dealer.

INCREASE YOUR PRODUCTIVITY AND PROFIT

WITH CAT 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.

BUCKETS



HYDRAULIC HAMMERS



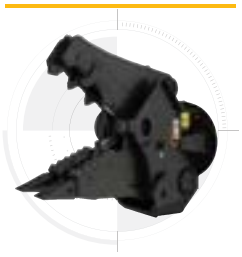
PREVENT HAMMER WEAR AND TEAR

Protect your hammer from overworking. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to prevent wear and tear on the attachment and excavator.

GRAPPLES



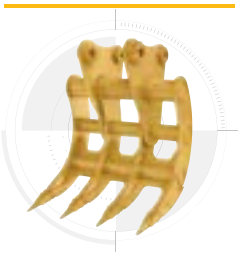
MULTI-PROCESSORS



QUICK COUPLERS



RAKES



RIPPERS



SECONDARY PULVERIZERS



SHEARS



THUMBS



VIBRATORY PLATE COMPACTORS



FIND YOUR ATTACHMENTS FAST

The Cat PL161 Attachment Locator is a Bluetooth device that makes finding your attachments and other gear quick and easy. The excavator's onboard Bluetooth reader or Cat App on your phone will locate the device automatically.



Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity; it also ensures all the attachment settings are correct so you can get to work quickly and efficiently.

TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

ENGINE		
Engine Model		Cat C7.1
Engine Power – ISO 9249	204 kW	273 hp
Engine Power – ISO 14396	205 kW	275 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in^3

HYDRAULIC SYSTEM		
Main System – Maximum Flow (Implement)	560 L/min	148 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	29 800 kPa	4,320 psi

WEIGHTS		
Operating Weight	30 900 kg	68,125 lb
Long Undercarriage, Reach Boom, R 3.2 (10'6") Stick, HD 1.76 m^3 (2.30 yd^3) bucket and 800 mm (31") triple grouser shoes.		
Operating Weight	29 900 kg	65,920 lb
Long Undercarriage, Reach Boom, R 3.2 (10'6") Stick, HD 1.76 m^3 (2.30 yd^3) bucket and 600 mm (24") triple grouser shoes.		

SERVICE REFILL CAPACITIES		
Fuel Tank	474 L	125.2 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	10 L	2.6 gal
Final Drive (each)	5.5 L	1.5 gal
Hydraulic System (including tank)	310 L	81.9 gal
Hydraulic Tank	147 L	38.8 gal
DEF Tank	41 L	10.8 gal

AIR CONDITIONING SYSTEM

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO_2 equivalent of 1287 metric tonnes.

DIMENSIONS		
Boom		**Reach Boom 6.15 m (20'2")**
Stick		**Reach Stick 3.2 m (10'6")**
Bucket		**HD 1.76 m^3 (2.30 yd^3)**
Shipping Height (top of cab)	3060 mm	10'1"
Handrail Height	3060 mm	10'1"
Shipping Length	10 420 mm	34'2"
Tail Swing Radius	3130 mm	10'3"
Track Length to Center of Rollers	3990 mm	13'1"
Ground Clearance	490 mm	1'7"
Track Gauge	2590 mm	8'6"
Track Gauge – Narrow Undercarriage	2390 mm	7'10"
Transport Width – 600 mm (24") Shoes	3190 mm	10'6"
Transport Width – 600 mm (24") Shoes – Narrow Undercarriage	2990 mm	9'10"
Transport Width – 800 mm (31") Shoes	3390 mm	11'1"
Counterweight Clearance	1120 mm	3'8"

WORKING RANGES AND FORCES		
Boom		**Reach Boom 6.15 m (20'2")**
Stick		**Reach Stick 3.2 m (10'6")**
Bucket		**HD 1.76 m^3 (2.30 yd^3)**
Maximum Digging Depth	7240 mm	23'9"
Maximum Reach at Ground Level	10 680 mm	35'1"
Maximum Cutting Height	10 030 mm	32'11"
Maximum Loading Height	6950 mm	22'10"
Minimum Loading Height	2300 mm	7'7"
Maximum Depth Cut for 2440 mm (8') Level Bottom	7090 mm	23'3"
Maximum Vertical Wall Digging Depth	6010 mm	19'9"
Bucket Digging Force (ISO)	179 kN	40,200 lbf
Stick Digging Force (ISO)	126 kN	28,300 lbf

STANDARD & OPTIONAL EQUIPMENT

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

CAB	STANDARD	OPTIONAL
ROPS, standard sound suppression *(Deluxe only)*	•	
ROPS, advanced sound suppression *(Premium only)*	•	
Air-adjustable seat with heat *(Deluxe only)*	•	
Auto-adjustable seat with heat and air ventilation *(Premium only)*		•
High-resolution 203 mm (8 in) LCD touchscreen monitor	•*	
High-resolution 254 mm (10 in) LCD touchscreen monitor	•	•*
*Korea only		

CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link	•	
Cat GRADE with 2D	•	
Cat GRADE with Advanced 2D		•
Cat GRADE with 3D		•
Cat GRADE with Assist	•	
Cat PAYLOAD	•	
E-Fence	•	
Lift Assist	•	
Remote Flash capability	•	
Remote Troubleshoot capability	•	

ENGINE	STANDARD	OPTIONAL
Three selectable power modes	•	
Automatic engine speed control	•	
Auto engine idle shutdown	•	
52° C (125° F) high-ambient cooling capacity with de-rate	•	
–32° C (–25° F) cold start capability		•
Double element air filter with integrated precleaner	•	
Reversing electric cooling fans	•	
Biodiesel capability up to B20	•	

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuits	•	
Auto hydraulic warm up	•	
Auto two-speed travel	•	
Boom and stick drift reduction valve	•	
Boom and stick lowering check valves		•
Hammer return filter circuit		•
Advanced Tool Control (two pump, one/two way high-pressure flow)	•*	•
Medium-pressure circuit		•
Quick coupler circuit		•
*Europe only		

BOOMS AND STICKS	STANDARD	OPTIONAL
6.15 m (20'2") Reach boom, 3.2 m (10'6") reach stick	•	
6.15 m (20'2") Reach boom, 2.65 m (8'8") reach stick		•
10.2 m (33'6") SLR boom, 7.85 m (25'9") SLR stick		•

UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
600 mm (24") triple grouser shoes		•
700 mm (28") triple grouser shoes		•
800 mm (31") triple grouser shoes		•
Tie-down points on base frame	•	
6700 kg (14,770 lb) counterweight	•	

ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Two 1,000 CCA maintenance free batteries	•	
Programmable time-delay LED working lights	•	
LED chassis light, left-hand/right-hand boom lights, cab lights	•	

SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Sampling ports for Scheduled Oil Sampling (S·O·S℠)	•	
Ground-level and platform-level engine oil dipsticks	•	
Electric refueling pump with auto shutoff		•

SAFETY AND SECURITY	STANDARD	OPTIONAL
Rearview camera	•	
Right-hand-sideview camera	•	
360° visibility		•
Ground-level engine shutoff switch	•	
Right-hand handrail and hand hold	•	
Signaling/warning horn	•	

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

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at *www.cat.com* or your Cat dealer.

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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www.cat.com www.caterpillar.com

AEXQ2460-02
Replaces AEXQ2460-01
Build Number: 07B