

333

HYDRAULIC EXCAVATOR



Engine Power

ISO 14396:2002

225 kW (302 hp)

ISO 14396:2002 (DIN)

306 hp (metric)

Operating Weight

32 500 kg (71,600 lb)

Cat® C7.1 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.



The Cat® 333 Hydraulic Excavator increases your productivity with more digging force, while reinforced structures make the machine more durable for tough applications. Featuring a Cat C7.1 engine with an aftertreatment system that requires no downtime, the 333 meets U.S. EPA Tier 4 Final and EU Stage V emission standards.

THE CAT® 333

DURABLE. RELIABLE. COMFORTABLE.



NEXT GENERATION EXCAVATORS

Cat excavators match your performance needs to bring you:

- + OPTIMAL PERFORMANCE
- + ENHANCED COMFORT
- + HIGH DURABILITY

Ready to help you make your business stronger, Cat excavators give you new ways to get the most work done at the lowest cost, so you can put more money in your pocket.

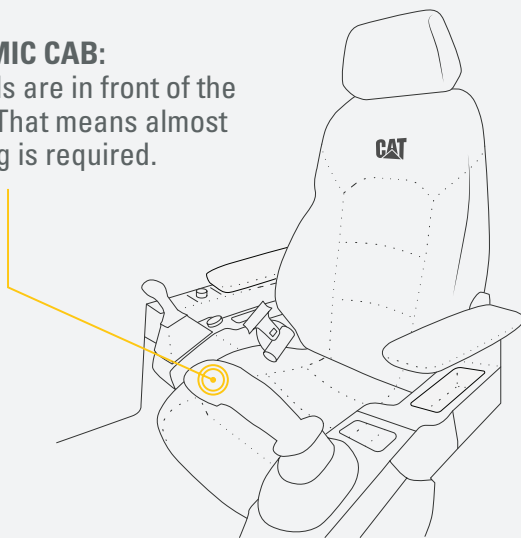


WE'VE GOT **YOUR BACK.**

BACK PAIN IS ONE OF THE MOST COMMON REASONS PEOPLE MISS WORK.*

ERGONOMIC CAB:

All controls are in front of the operator. That means almost no twisting is required.



*SOURCE: [HTTPS://WWW.NINDS.NIH.GOV/DISORDERS/PATIENT-CAREGIVER-EDUCATION/FACT-SHEETS/LOW-BACK-PAIN-FACT-SHEET](https://www.ninds.nih.gov/disorders/patient-caregiver-education/fact-sheets/low-back-pain-fact-sheet)

LOW COST PER HOUR

Work longer without the need to stop with extended maintenance intervals. Smart mode automatically matches engine speed and hydraulic power to demand for the highest fuel efficiency in any application.

UP TO 7% MORE PRODUCTIVITY¹

Increased bucket and stick forces and larger bucket give you more digging force for maximized productivity.

DESIGNED FOR TOUGH APPLICATIONS

Reinforced structures, wide track gauge for added stability, and increased durability help you to power through big jobs.

¹ Compared to 330 and will depend on front part selection. No significant change when comparing 333 Tier 4 Final/Stage V to 333 Tier 3.

CAT EQUIPMENT MANAGEMENT TECHNOLOGY TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat equipment management 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.



VISIONLINK®

VisionLink® takes the guesswork out of managing your entire fleet – regardless of size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. With interactive dashboards, VisionLink makes it easier for operations of all sizes to make informed decisions that lower costs, simplify maintenance, and improve security on your jobsite. With different subscription-level options, your Cat dealer can help you determine what you need to connect your fleet and manage your business.



VISIONLINK® PRODUCTIVITY

VisionLink® Productivity is an easy-to-use cloud-based platform that gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacturer.* Actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more are transmitted to the web platform for users to access anywhere via a mobile, tablet, or desktop device - on or off the jobsite.



REMOTE FLASH

Remote Flash** allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

* Data field availability can vary by equipment manufacturer.

** Must be within cell range coverage.

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

CAB TAKES THE HARD OUT OF WORK



ERGONOMIC CONTROL LAYOUT

Controls are positioned to reduce fatigue and straining movements to help keep you operating at your full potential.

VISIBILITY

The 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.

BLUETOOTH® CONNECTION

Bluetooth® integrated radio allows for seamless mobile phone connection to listen to music, podcasts, and hands-free calling.

RELIABLE WITH HIGH DURABILITY



In addition to reinforced booms and sticks, a huge difference in overall Cat machine durability is the undercarriage. It is the link between the ground and upper body, and it absorbs many of the stresses between them. The 333 undercarriage is built with many heavy-duty reinforcements:

- + HEAVY-DUTY TRACK ROLLERS
- + HEAVY-DUTY TRACK LINK
- + HEAVY-DUTY FINAL DRIVES
- + HEAVY-DUTY TRAVEL MOTOR GUARDS
- + HEAVY-DUTY RECOIL SPRINGS
- + HEAVY-DUTY SWIVEL AND SWIVEL GUARD

Add in a wider track gauge for more side stability, a reinforced swing frame, and counterweight support, and you have an excavator that will stand up well in tough applications.



KEYLESS PUSH START

Start the engine with the push-to-start button or the unique operator ID function.



MACHINE SETTINGS

Access the operator manual at your fingertips, as well as the power mode selector to keep productive while using less fuel.



TOUCHSCREEN MONITOR

Use the standard 203 mm (8 in) touchscreen monitor to adjust your heating/cooling settings for more comfort or to view your machine information.



JOYSTICK PREFERENCES

Make moving the excavator much easier with Cat Stick Steer option. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals. Program in your preferred power mode and joystick preferences with your operator ID. Once you enter in your operator ID, the excavator remembers your settings each time.

SERVICE REMINDERS MADE EASY

Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance, along with parts needed, so you don't experience any unnecessary downtime.

GROUND LEVEL ACCESS

Complete your daily machine checks entirely from the ground, minimizing the need to access the upper platform. Checkpoints include the engine oil dipstick, fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.

LONGER SERVICE INTERVALS

Consolidated filter locations make service faster. Hydraulic, air, and fuel tank filters have large capacities for long life. The electric cooling fans with auto reverse help to protect machine components in high debris applications. The in-cab monitor tracks filter life and machine intervals, so you always know when it's time for regular machine service. Hydraulic oil, engine oil, and coolant have extended service intervals compared to previous models.



INCREASE PRODUCTIVITY AND VERSATILITY 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, productivity, and stability.

BUCKETS



GRAPPLES



HYDRAULIC HAMMERS



PULVERIZERS



SHEARS



**VIBRATORY PLATE
COMPACTORS**



MULTI-PROCESSORS



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C7.1	
Engine Power		
ISO 14396	225 kW	302 hp
ISO 14396 (DIN)	306 hp (metric)	
Net Power		
ISO 9249	223.7 kW	300 hp
ISO 9249 (DIN)	304 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
<ul style="list-style-type: none"> • Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards. • Advertised power is tested per the specified standard in effect at the time of manufacture. • Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator. • Engine speed at 2,200 rpm. 		

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 – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	29 800 kPa	4,321 psi

SWING MECHANISM		
Swing Speed	11.5 rpm	
Maximum Swing Torque	111 kN·m	81,869 lbf·ft

MACHINE WEIGHTS		
Operating Weight	32 500 kg	71,600 lb
<ul style="list-style-type: none"> • Long undercarriage, Mass boom, M2.5 (8'2") stick, HD 2.36 m³ (3.08 yd³) bucket, 600 mm (24") triple grouser shoes, and 7700 kg (16,980 lb) counterweight. 		
Operating Weight	32 900 kg	72,400 lb
<ul style="list-style-type: none"> • Long undercarriage, Mass boom, M2.5 (8'2") stick, HD 2.36 m³ (3.08 yd³) bucket, 600 mm (24") double grouser shoes, and 7700 kg (16,980 lb) counterweight. 		

SERVICE REFILL CAPACITIES		
Fuel Tank Capacity	474 L	125.2 gal
Cooling System	25 L	6.6 gal
Engine Oil (with filter)	25 L	6.6 gal
Swing Drive	11.5 L	3.0 gal
Final Drive (each)	4.5 L	1.2 gal
Hydraulic System (including tank)	310 L	81.9 gal
Hydraulic Tank	147 L	38.8 gal
Diesel Exhaust Fluid (DEF) Tank	41 L	10.8 gal

DIMENSIONS		
Boom	Mass Boom 5.55 m (18'2")	
Stick	Mass Stick 2.5 m (8'2")	
Bucket	HD 2.36 m ³ (3.08 yd ³)	
Shipping Height	3060 mm	10'0"
Machine Length	9870 mm	32'5"
Tail Swing Radius	3130 mm	10'3"
Counterweight Clearance	1120 mm	3'8"
Ground Clearance	480 mm	1'7"
Track Length to Center of Rollers	3990 mm	13'1"
Track Gauge	2740 mm	9'0"
Undercarriage Width – 600 mm (24") shoes	3340 mm	10'11"
Undercarriage Width – 700 mm (28") shoes	3440 mm	11'3"
Undercarriage Width – 800 mm (31") shoes	3540 mm	11'7"

WORKING RANGES AND FORCES		
Boom	Mass Boom 5.55 m (18'2")	
Stick	Mass Stick 2.5 m (8'2")	
Bucket	HD 2.36 m ³ (3.08 yd ³)	
Maximum Digging Depth	6140 mm	20'2"
Maximum Reach at Ground Level	9480 mm	31'1"
Maximum Cutting Height	9160 mm	30'1"
Maximum Loading Height	5960 mm	19'7"
Minimum Loading Height	2430 mm	8'0"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5950 mm	19'6"
Maximum Vertical Wall Digging Depth	4280 mm	14'1"
Bucket Digging Force (ISO)	210 kN	47,210 lbf
Stick Digging Force (ISO)	152 kN	34,170 lbf

STANDARD & OPTIONAL EQUIPMENT

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

BOOMS AND STICKS	STANDARD	OPTIONAL
5.55 m (18'2") Mass boom ¹	•	
6.15 m (20'2") HD Reach boom ²		•
10.2 m (33'6") Super Long Reach boom ²		•
2.5 m (8'2") Mass stick ¹	•	
3.2 m (10'6") HD Reach stick ²		•
7.85 m (25'9") Super Long Reach stick ²		•
CAB	STANDARD	OPTIONAL
Rollover protective structure (ROPS)	•	
High-resolution 203 mm (8") LCD touchscreen monitor	•	
Mechanical-suspension seat	•	
Cat® Stick Steer		•
CAT TECHNOLOGIES	STANDARD	OPTIONAL
VisionLink®*	•	
VisionLink Productivity		•
Remote Flash	•	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free 1,000 CCA batteries	•	
Centralized electrical disconnect switch	•	
Programmable time-delay working lights	•	
LED chassis, boom, and cab lights	•	
ENGINE	STANDARD	OPTIONAL
Cat C7.1 twin turbo diesel engine	•	
Two selectable modes: Power, Smart	•	
Automatic engine speed control	•	
Up to 4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft)	•	
50°C (122°F) high-ambient cooling	•	
-18°C (0°F) cold start capability	•	
Double element air filter with integrated precleaner	•	
Electric cooling fans with auto reverse function	•	

HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuit	•	
Electronic main control valve	•	
Automatic hydraulic oil warm up	•	
Automatic two-speed travel	•	
SAFETY AND SECURITY	STANDARD	OPTIONAL
Auto hammer stop	•	
Service platform with anti-skid plate and recessed bolts	•	
Rearview camera	•	
Right-hand side mirror ²		•
Right-hand side-view camera ³		•
Swing alarm		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of engine oil and fuel filters	•	
Scheduled Oil Sampling (S-O-S SM) ports	•	
Integrated vehicle health management system	•	
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Long undercarriage	•	
Grease lubricated track link	•	
600 mm (24") double grouser track shoes		•
600 mm (24") triple grouser track shoes ⁴		•
600 mm (24") HD triple grouser track shoes ⁴		•
700 mm (28") triple grouser track shoes ²		•
800 mm (31") triple grouser track shoes ²		•
7700 kg (16,980 lb) counterweight	•	

* Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

¹ Optional for Chile.

² Chile only.

³ Mandatory for Turkey.

⁴ Turkey only.

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 brochures for the 333 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

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