



Cat[®] 336

Hydraulic Excavator

The Cat[®] 336 excavator brings premium performance with simple-to-use technologies like Cat GRADE with 2D, Grade Assist, Lift Assist, and Payload – all standard equipment from the factory to boost your operator efficiencies up to 45 percent. Combine these features with a new cab, longer maintenance intervals that lower your maintenance costs up to 15 percent, and a power system that improves fuel efficiency up to 15 percent and you have a low-cost-per-unit-of-production excavator that's perfect for your applications.

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

High Performance with Lower Fuel Consumption

- Increase operating efficiency up to 45 percent with standard Cat technologies that lower operator fatigue and operating costs, including fuel consumption and daily maintenance.
- Get up to 15 percent higher fuel efficiency – more work per unit of fuel – than the Cat 336F excavator.
- The C9.3B engine can run on biodiesel up to B20 and meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Match the excavator to the job with three power modes – Power, Smart, and Eco. Smart mode automatically matches engine and hydraulic power to digging conditions, providing max power when needed and reducing power when it isn't to help save fuel.
- Advansys™ bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Don't let the temperature stop you from working. This excavator has a high-ambient capability of 52° C (125° F) and cold start capability of -18° C (0° F).

Boost Efficiency and Productivity with Integrated Cat Technologies

- Boost productivity up to 45 percent versus traditional grading with standard Cat GRADE with 2D system – includes indicate-only and laser capability.
- Standard Grade Assist: Stay on grade – simply and effortlessly – with single-lever digging.
- Set your desired bucket angle and let Bucket Assist automatically maintain the angle in sloping, leveling, fine grading, and trenching applications.
- Keep the tracks on ground in lifting and hard digging with Boom Assist.
- Automatically stop excavator swing at operator-defined set points in truck loading and trenching applications with Swing Assist, which will help you use less effort and consume less fuel.

- Standard Cat PAYLOAD on-board weighing system: Achieve precise load targets and increase loading efficiency with on-the-go weighing and real-time estimates of your payload without swinging.
- Combine Payload with VisionLink[®] and remotely manage your production targets or take payload data with you. The monitor's USB 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.
- Upgrade to optional Cat GRADE with Advanced 2D: Create and edit grade designs with ease on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Upgrade to optional Cat GRADE with 3D: Create and edit designs with ease and see the front linkage's full range of motion on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Know the excavator's exact position relative to GPS and GLONASS systems. The machine automatically compensates for excavator pitch and roll caused by sloping ground conditions.
- Use the excavator's onboard cell technology to quickly connect to 3D services like Virtual Reference Station, Internet Base Service Station, and Trimble Connected Community.
- Already invested in another brand's 3D system? No problem. Standard Cat technology like GRADE with 2D can readily integrate with that system to give you the precise results you need.
- Remote Troubleshoot connects you to a dealer service pro to help solve your problem and quickly get you to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- The Cat App helps you manage fleet location, hours, and maintenance schedules; it also alerts you for required maintenance and even allows you to request service from your local Cat dealer.
- Standard Product Link™ provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through VisionLink online interface, helping you improve jobsite efficiency with lower operating costs.



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Work in Comfort in the All-New Cab

- Choose between Deluxe and Premium cabs – both with automatic climate control.
- Stay warm with the Deluxe heated seat; stay warm and cool with the Premium heated and ventilated seat.
- Get in and out of the cab easier using the tip-up left console.
- Advanced viscous mounts reduce cab vibration up to 50 percent over previous excavator models.
- Control the excavator comfortably with easy-to-reach controls all located in front of you.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles.
- Use the standard radio's USB ports and Bluetooth® technology to connect personal devices and make hands-free calls.

Simple to Operate

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program each joystick button, including power mode, response, and pattern, using Operator ID; the machine will remember what you set each time you go to work.
- Program up to four depth and slope offsets so you can easily get to grade without a grade checker – a real time saver and safety enhancer on the jobsite.
- 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.
- Automatic hydraulic oil warm up gets you to work faster in cold temperatures and helps prolong the life of components.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor, or with the optional 254 mm (10 in) touchscreen monitor, or with the aid of the jog dial control.
- A second 254 mm (10 in) monitor is available for the Cat GRADE with Advanced 2D and Cat GRADE with 3D.
- 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 available work tool recognition. 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.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

Maintenance

- Expect up to 15 percent less maintenance cost than the 336F due to extended service intervals. (Savings calculated over 12,000 machine hours.)
- Check hydraulic system oil and easily drain fuel system water and fuel tank water from ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Change all fuel filters at a synchronized 1,000 hours. Oil and fuel filters grouped and located on right-hand side of machine for easy maintenance.
- The advanced air intake filter with precleaner has double the dust holding capacity of the previous air intake filter.
- The new hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- The new high-efficiency hydraulic fan has an optional automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- S-O-SSM ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

Safety

- Standard 2D E-Fence is integrated right out of the factory, which prevents the excavator from moving outside of operator-defined set points.
- Lift Assist helps you avoid tipping by letting you know if your load is within the excavator's safe working range limits.
- The standard ROPS cab meets ISO 12117-2:2008 requirements.
- A travel direction indicator helps operators know which way to activate the travel levers.
- Enjoy great visibility into the trench, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Rear and right-hand-sideview cameras are standard. Upgrade to 360° visibility and you'll easily visualize objects and personnel around the excavator in a single view.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			BOOMS AND STICKS		
ROPS, sound suppression	✓		6.18 m (20'3") Mass boom		✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓		6.5 m (21'4") Reach boom		✓
High-resolution 254 mm (10") LCD touchscreen monitor		✓	6.5 m (21'4") HD Reach boom		✓
Heated seat with air-adjustable suspension (Deluxe only)	✓		2.55 m (8'4") stick		✓
Heated and cooled seat with automatic adjustable suspension (Premium only)	✓		2.8 m (9'2") stick		✓
			3.2 m (10'6") stick		✓
			3.2 m (10'6") HD stick		✓
			3.9 m (12'10") stick		✓
			3.9 m (12'10") HD stick		✓
ENGINE			ELECTRICAL SYSTEM		
Cold start block heaters		✓	Maintenance-free 1,000 CCA batteries (×2)	✓	
Three selectable modes: Power, Smart, Eco	✓		Centralized electrical disconnect switch	✓	
Automatic engine speed control	✓		LED chassis light, LH and RH boom lights, cab lights	✓	
Up to 3300 m (10,830 ft) altitude capability	✓				
52° C (126° F) high-ambient cooling capacity	✓		CAT TECHNOLOGY		
Hydraulic reverse fan		✓	Cat Product Link	✓	
-18° C (0° F) cold start capability	✓		Cat GRADE with 2D	✓	
-32° C (-25° F) cold start capability		✓	Cat GRADE with Advanced 2D		✓
Double element air filter with integrated precleaner	✓		Cat GRADE with 3D		✓
Remote disable	✓		Cat GRADE with Assist	✓	
Biodiesel capability up to B20	✓		Cat PAYLOAD	✓	
			E-Fence	✓	
			Lift Assist	✓	
			Remote Services capability	✓	
HYDRAULIC SYSTEM			SERVICE AND MAINTENANCE		
SmartBoom™		✓	Grouped location of engine oil and fuel filters	✓	
Boom and stick regeneration circuit	✓		Scheduled Oil Sampling (S-O-S) ports	✓	
Electronic main control valve	✓		QuickEvac™ maintenance ready		✓
Heavy lift mode		✓	Electric refueling pump with auto shutoff		✓
Automatic hydraulic oil warm up	✓		SAFETY AND SECURITY		
Reverse swing damping valve	✓		Caterpillar One Key security system	✓	
Automatic swing parking brake	✓		Lockable external tool/storage box	✓	
High performance hydraulic return filter	✓		Lockable door, fuel, and hydraulic tank locks	✓	
Two speed travel	✓		Lockable fuel drain compartment	✓	
Bio hydraulic oil capability	✓		Service platform with anti-skid plate and recessed bolts	✓	
Combined two-way auxiliary circuit		✓	RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
Medium-pressure auxiliary circuit		✓	Standard visibility mirror package	✓	
Cooling circuit		✓	Signaling/warning horn	✓	
Quick coupler circuit		✓	Ground-level secondary engine shutoff switch	✓	
UNDERCARRIAGE AND STRUCTURES			Rear and right-hand-sideview cameras	✓	
Long undercarriage		✓	360° visibility		✓
Long Narrow undercarriage		✓	Boom lowering check valve		✓
Towing eye on base frame	✓		Stick lowering check valve		✓
6.8 mt (14,991 lb) counterweight		✓			
7.56 mt (16,667 lb) counterweight		✓			
600 mm (24") double grouser, HD double grouser, triple grouser track shoes		✓			
700 mm (28") triple grouser track shoes		✓			
850 mm (33") triple grouser track shoes		✓			

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Technical Specifications

Engine

Engine Model	C9.3B	
Engine Power – ISO 9249	232 kW	311 hp
Engine Power – ISO 14396	234 kW	314 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in ³

Hydraulic System

Main System – Maximum Flow – Implement	558 L/min (279 × 2 pumps)	147 gal/min (74 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	29 400 kPa	4,264 psi

Swing Mechanism

Swing Speed	8.75 rpm	
Maximum Swing Torque	144 kN·m	106,228 lbf·ft

Weights

Operating Weight	37 200 kg	81,900 lb
• Long undercarriage, Reach boom, R3.9DB (12'10") stick, GD 2.27 m ³ (2.97 yd ³) bucket, 850 mm (33") triple grouser shoes, 6.8 mt (14,991 lb) counterweight.		

Service Refill Capacities

Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive (each)	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank	161 L	42.5 gal
DEF Tank	80 L	21.1 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 1.00 kg of refrigerant, which has a CO₂ equivalent of 1.430 metric tonnes.

Dimensions

Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.9 m (12'10")	
Bucket	GDC 2.27 m³ (2.97 yd³)	
Shipping Height (top of cab)	3170 mm	10'4"
Handrail Height	3160 mm	10'4"
Shipping Length	11 200 mm	36'8"
Tail Swing Radius	3530 mm	11'6"
Counterweight Clearance	1250 mm	4'1"
Ground Clearance	510 mm	1'8"
Track Length	5030 mm	16'6"
Track Length to Center of Rollers	4040 mm	13'3"
Track Gauge – Long Undercarriage	2590 mm	8'5"
Transport Width – 850 mm (33") shoes	3440 mm	11'3"

Working Ranges and Forces

Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.9 m (12'10")	
Bucket	GDC 2.27 m³ (2.97 yd³)	
Maximum Digging Depth	8200 mm	26'10"
Maximum Reach at Ground Level	11 730 mm	38'5"
Maximum Cutting Height	10 740 mm	35'2"
Maximum Loading Height	7490 mm	24'6"
Minimum Loading Height	1900 mm	6'2"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	8060 mm	26'5"
Maximum Vertical Wall Digging Depth	6360 mm	20'10"
Bucket Digging Force (ISO)	210 kN	47,160 lbf
Stick Digging Force (ISO)	144 kN	32,440 lbf

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AEXQ2350-03 (09-2019)
Replaces AEXQ2350-02
Build Number: 07B
(EU, N Am, ANZ, Jpn)

