



# Cat<sup>®</sup> 336

## Hydraulic Excavator

***The Cat<sup>®</sup> 336 excavator brings premium performance with simple-to-use technologies like Cat GRADE with 2D, Grade 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 Connect technologies that lower operator fatigue and operating costs, including fuel consumption and daily maintenance.
- Get up to 15 percent more fuel efficiency than the Cat 336D2 excavator – with more engine power, swing torque, and production.
- The C9.3B engine can run on biodiesel up to B20 and meets China Nonroad Stage III and Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- 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.
- New high-efficiency hydraulic fans individually cool engine components on demand to help reduce fuel consumption.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- New self-sharpening Advansys™ bucket tips increase production and lower costs with up to 30 percent more tip life.
- 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 Connect Technologies

- Boost productivity up to 45 percent versus traditional grading with standard Cat GRADE with 2D system – includes indicate-only and laser capability. Dig with guidance to depth, slope, and horizontal distance to grade. The 2D system is upgradable to Cat GRADE with Advanced 2D or Cat GRADE with 3D.
- 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 for easy, accurate, and fast jobs. 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. Track your daily productivity such as truck target weights and load/cycle counts. Calibration can be performed in a matter of minutes. Combine Payload with VisionLink<sup>®</sup> and remotely manage your production targets.
- 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.



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- 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 job site efficiency with lower operating costs.
- Know where your work tools are and how much you use them, as the machine tracks all attachments equipped with Cat TrackIt technology.

## Work in Comfort in the All-New Cab

- Choose between Comfort and Deluxe cabs – both with automatic climate control.
- Sit in wide seats that adjust for all size operators; stay warm with the Deluxe heated seat.
- Enjoy wide spacing between consoles for a more comfortable environment.
- Get in and out of the cab easier using the tip-up left console (Deluxe cab only).
- 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. A cup holder, document holder, bottle holder, and coat hook are also provided.
- 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.
- 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 advanced grade control and Cat GRADE with 3D.
- 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 336D2 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 new 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 fans have an optional automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- S-O-S<sup>SM</sup> ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.

## Safety

- Work safely with the standard 2D E-fence feature integrated right out of the factory, which prevents the excavator from moving outside of operator-defined set points.
- 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 shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- A rearview camera is 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
<b>CAB</b>					
ROPS, sound suppression	✓		600 mm (24") triple grouser track shoes		✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓		600 mm (24") triple grouser HD track shoes		✓
High-resolution 254 mm (10") LCD touchscreen monitor		✓	600 mm (24") double grouser track shoes		✓
Mechanically adjustable seat suspension	✓		700 mm (28") triple grouser track shoes		✓
Heated seat with air-adjustable suspension (Deluxe only)	✓		800 mm (31") triple grouser track shoes		✓
<b>ENGINE</b>			<b>BOOMS AND STICKS</b>		
Cold start block heaters		✓	6.18 m (20'3") Mass boom		✓
Three selectable modes: Power, Smart, Eco	✓		6.5 m (21'4") Heavy Duty Reach boom		✓
One-touch low idle with automatic engine speed control	✓		2.55 m (8'4") stick		✓
2300 m (7,546 ft) altitude capability with no engine power de-rating	✓		2.8 m (9'2") stick		✓
52° C (126° F) high-ambient cooling capacity	✓		3.2 m (10'6") stick		✓
Hydraulic reverse fan		✓	<b>ELECTRICAL SYSTEM</b>		
-18° C (0° F) cold start capability	✓		Maintenance-free 1,000 CCA batteries (x2)	✓	
-32° C (-25° F) cold start capability		✓	Centralized electrical disconnect switch	✓	
Double element air filter with integrated precleaner	✓		LED chassis light, LH and RH boom lights, cab lights	✓	
Remote disable	✓		<b>CAT CONNECT TECHNOLOGY</b>		
Biodiesel capability up to B20	✓		Cat Product Link	✓	
<b>HYDRAULIC SYSTEM</b>			Cat GRADE with 2D	✓	
Boom and stick regeneration circuit	✓		Cat GRADE with Advanced 2D		✓
Electronic main control valve	✓		Cat GRADE with 3D		✓
Heavy lift mode		✓	Cat GRADE with Assist	✓	
Automatic hydraulic oil warm up	✓		Cat PAYLOAD	✓	
Reverse swing damping valve	✓		<b>SERVICE AND MAINTENANCE</b>		
Automatic swing parking brake	✓		Grouped location of engine oil and fuel filters	✓	
High performance hydraulic return filter	✓		Scheduled Oil Sampling (S-O-S) ports	✓	
Two speed travel	✓		Preventative maintenance ready (QuickEvac™)	✓	
Bio hydraulic oil capability	✓		Electric refueling pump with automatic shutoff	✓	
Fine swing		✓	<b>SAFETY AND SECURITY</b>		
Single one-way auxiliary circuit		✓	Caterpillar One Key security system	✓	
Combined two-way auxiliary circuit		✓	Lockable external tool/storage box	✓	
Combined two-way auxiliary circuit with hammer return filter		✓	Lockable door, fuel, and hydraulic tank locks	✓	
Medium-pressure auxiliary circuit		✓	Lockable fuel drain compartment	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	Service platform with anti-skid plate and recessed bolts	✓	
<b>UNDERCARRIAGE AND STRUCTURES</b>			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
Towing eye on base frame	✓		Standard visibility mirror package	✓	
6.8 mt (14,991 lb) counterweight		✓	Signaling/warning horn	✓	
7.56 mt (16,667 lb) counterweight		✓	Ground-level secondary engine shutoff switch	✓	
			Rearview camera and right-hand-side mirror	✓	
			360° visibility		✓

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## Technical Specifications

### Engine

Engine Model	C9.3B	
Net Power – ISO 9249/SAE J1349	232 kW	311 hp
Gross Power – ISO 14396/SAE J1995	234 kW	314 hp
Engine rpm		
Operation	1,800 rpm	
Travel	1,550 rpm	
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in <sup>3</sup>

### 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	36 200 kg	79,800 lb
• Long undercarriage, Reach boom, HD R3.2DB (10'6") stick, HD 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> ) bucket, 600 mm (24") 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	153 L	40.4 gal

### Dimensions

Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.2 m (10'6")	
Bucket	HD 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> )	
Shipping Height (top of cab)	3170 mm	10.4 ft
Handrail Height	3160 mm	10.4 ft
Shipping Length	11 170 mm	36.6 ft
Tail Swing Radius	3530 mm	11.6 ft
Counterweight Clearance	1250 mm	4.1 ft
Ground Clearance	510 mm	1.7 ft
Track Length to Center of Rollers	4040 mm	13.3 ft
Track Gauge	2590 mm	8.5 ft
Transport Width – 600 mm (24") Shoes	3190 mm	10.5 ft

### Working Ranges and Forces

Boom	Reach Boom 6.5 m (21'4")	
Stick	Reach Stick 3.2 m (10'6")	
Bucket	HD 1.88 m <sup>3</sup> (2.46 yd <sup>3</sup> )	
Maximum Digging Depth	7520 mm	24.7 ft
Maximum Reach at Ground Line	11 050 mm	36.3 ft
Maximum Cutting Height	10 300 mm	33.8 ft
Maximum Loading Height	7080 mm	23.2 ft
Minimum Loading Height	2580 mm	8.5 ft
Maximum Depth Cut for 2240 mm (8 ft) Level Bottom	7360 mm	24 ft
Maximum Vertical Wall Digging Depth	5660 mm	18.6 ft
Bucket Digging Force (SAE)	184 kN	41,450 lbf
Bucket Digging Force (ISO)	211 kN	47,460 lbf
Stick Digging Force (SAE)	161 kN	36,190 lbf
Stick Digging Force (ISO)	167 kN	37,430 lbf



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