



# Cat<sup>®</sup> 336

## Hydraulic Excavator

**The Cat<sup>®</sup> 336 is a high-productivity, low-owning-and-operating cost excavator that will generate more prosperity for you and your business.**

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

### High Performance

- The C7.1 twin turbo engine reliably delivers power to the pumps for maximum production.
- The electrohydraulic system responds quickly and efficiently to the task at hand.
- Match the excavator to the job with three power modes – Power, Smart, and Eco. Power mode is maximum power all the time. Smart mode automatically matches engine and hydraulic power to digging conditions, providing maximum power when needed and reducing power when it isn't to help save fuel. Eco mode reduces engine speed and keeps it constant to reduce fuel consumption.

### Boost Efficiency and Productivity

- Boost productivity up to 45 percent with optional Cat Grade technology.
- Optional 2D Grade indicates depth and slope on the monitor with auditory alerts.
- Optional Grade Assist helps you stay on grade – simply and effortlessly – with single-lever digging.
- Automatically stop excavator swing at operator-defined set points in truck loading and trenching applications with optional Swing Assist, which will help you use less effort and consume less fuel.
- Optional Cat Payload on-board weighing helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with either a bucket or grapple – and get a real-time weight estimate without even swinging.
- Combine Payload with VisionLink<sup>®</sup> and remotely manage your production targets. The monitor's USB port lets you download results from one shift all the way up to 30 days of work so you can manage your progress without needing an internet connection or VisionLink subscription.
- Upgrade to Cat Grade with Advanced 2D and create and edit grade designs with ease on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Upgrade to Cat Grade with 3D and 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.

- All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica.
- Already invested in a grade infrastructure? You can install grade systems from Trimble, Topcon, and Leica onto the machine.
- 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.
- Standard Product Link<sup>™</sup> 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.

### Built for Rugged Conditions

- Reinforced structures ensure long-term durability in harsh environments.
- Work up to 4500 m (14,764 ft) above sea level.
- Standard high-ambient temperature capability is 52° C (125° F) with cold start capability at -18° C (0° F).
- Auto hydraulic oil warmup gets you to work faster in cold temperatures and helps prolong the life of components.
- Two levels of filtration protect the engine from low-quality diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.

### Work in Comfort

- Choose between Essential and Deluxe cabs – both with automatic climate control.
- Deluxe cab comes with heated seat to keep you warm and tilt-up left console to enable easy entry and exit.
- 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<sup>®</sup> technology to connect personal devices and make hands-free calls.



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## Simple to Operate

- Start the engine with the push of a button; use a Bluetooth key fob or Operator ID passcode.
- 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.
- Trouble cutting through tough material? Optional auto dig boost gives you an automatic power increase of 8 percent when you need it for better bucket penetration, shorter cycle times, and greater payloads.
- Need more lift during your shift? Optional auto heavy lift gives you 8 percent more power exactly when you need it for as long as you need it.
- Make moving the excavator much easier with optional Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor or optional 254 mm (10 in) monitor.
- 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.
- 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.

## Easy Maintenance

- Expect less maintenance cost due to 1,000 hour engine oil interval.
- Change all fuel filters at a synchronized 1,000 hours. Filters are grouped and located on right-hand side of machine for easy maintenance.
- Check hydraulic system oil and easily drain fuel system water and fuel tank water from ground level.
- The air intake filter with pre-cleaner has high dust holding capacity.
- The hydraulic oil filter provides superior filtration; anti-drain valves keep oil clean when the filter is replaced.
- The 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-S<sup>SM</sup> ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

## Enhanced Safety

- The Rollover Protective Structure (ROPS) cab meets ISO 12117-2:2008 requirements.
- Enjoy great visibility with the help of narrow cab pillars, large windows, and a flat engine hood design.
- Make service work easier and safer with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.
- Optional Cat Lift Assist helps you avoid tipping by letting you know if your load is within the excavator's safe working range.
- A travel direction indicator helps you know which way to activate travel levers.
- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the push button starting feature.
- A ground-level shutoff switch stops the engine and machine from operating.
- Serrated steps and anti-skid punch plate on the service platform help prevent slipping.
- A rearview camera is standard.

## Standard and Optional Equipment

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

	Standard	Optional
<b>BOOMS, STICKS AND LINKAGES</b>		
6.18 m (20'3") Mass boom		✓
6.5 m (21'4") Reach, HD Reach booms		✓
2.55 m (8'4") Mass stick		✓
2.8 m (9'2") Reach, HD Reach sticks		✓
3.2 m (10'6") Reach, HD Reach sticks		✓
3.9 m (12'10") Reach stick		✓
TB family bucket linkage with/without lifting eye		✓
DB family bucket linkage with/without lifting eye		✓
<b>CAT TECHNOLOGY</b>		
Cat Product Link	✓	
Remote flash	✓	
Remote troubleshoot	✓	
Cat Grade connectivity		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Cat Grade with 2D and offset memory		✓
Cat Grade with Advanced 2D		✓
Cat Grade with 3D		✓
Cat Assist:		✓
– Grade Assist		
– Boom Assist		
– Bucket Assist		
– Swing Assist		
– Lift Assist		
Cat Payload:		✓
– Static weigh		
– Semiautomatic calibration		
– Payload/cycle information		
– USB reporting capability		
2D E-Fence:		✓
– E-ceiling		
– E-floor		
– E-swing		
– E-wall		
– E-cab avoidance		
Auto hammer stop	✓	
Laser catcher		✓
Work tool recognition		✓
Work tool tracking*		✓

\*Requires PL161 attachment locator on work tool and Bluetooth receiver on machine.

(continued on next page)

## Standard and Optional Equipment (continued)

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

	Standard	Optional
<b>ELECTRICAL SYSTEM</b>		
Maintenance-free 1,000 CCA batteries (×2)	✓	
Maintenance-free 1,000 CCA batteries (×4)		✓
Centralized electrical disconnect switch	✓	
LED exterior chassis and boom lights	✓	
<b>ENGINE</b>		
Cold start block heater		✓
Three selectable modes: Power, Smart, Eco	✓	
Auto engine speed control	✓	
52° C (126° F) high-ambient cooling		✓
Hydraulic reverse fan		✓
-18° C (0° F) cold start capability	✓	
-32° C (-25° F) cold start capability		✓
Double element air filter with integrated pre-cleaner	✓	
Remote disable	✓	
<b>HYDRAULIC SYSTEM</b>		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto heavy lift		✓
Auto dig boost		✓
Auto hydraulic oil warmup	✓	
Bio hydraulic oil capability	✓	
Fine swing		✓
Reverse swing damping valve	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
Single one-way circuit		✓
Combined two-way circuit		✓
<b>SAFETY AND SECURITY</b>		
Caterpillar One Key security system	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Service platform with anti-skid plate and recessed bolts	✓	
RH handrail and handhold	✓	
Signaling/warning horn	✓	
Ground-level secondary engine shutoff switch	✓	
Boom lowering check valve		✓
Stick lowering check valve		✓
Rearview camera	✓	
Inspection lighting		✓
<b>SERVICE AND MAINTENANCE</b>		
Grouped engine oil and fuel filters	✓	
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) ports	✓	

	Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>		
Towing eye on base frame	✓	
Full-length track guiding guards		✓
Segmented two-piece track guiding guards		✓
Swivel guard	✓	
HD bottom guard	✓	
HD travel motor guards	✓	
HD rollers		✓
Grease lubricated track	✓	
HD swing frame		✓
HD swing bearing		✓
6.8 mt (14,991 lb) counterweight		✓
7.56 mt (16,667 lb) counterweight		✓
600 mm (24") double grouser, triple grouser, HD triple grouser track shoes		✓
700 mm (28") triple grouser track shoes		✓
800 mm (33") triple grouser track shoes		✓

	Essential	Deluxe
<b>CAB</b>		
High-resolution 203 mm (8") LCD touchscreen monitor	●	●
High-resolution 254 mm (10") LCD touchscreen monitor	○	○
Auto bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	X	●
Keyless push-to-start engine control	●	●
Height-adjustable console	X	●
Tilt-up left-side console	X	●
Air-suspension seat	●	X
Heated air-suspension seat	X	●
Monitor integrated Bluetooth radio with USB/Aux ports	X	●
Bluetooth radio with USB/Aux ports	●	X
12V DC outlets	X	●
24V DC outlet	●	X
Beverage holder	●	●
Cup holder	X	●
Openable polycarbonate skylight hatch	X	●
Openable steel hatch	●	X
LED dome light	●	●
Floor welcome light	X	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	●
Beacon ready	X	●

● Standard  
○ Optional  
X Not available

# Cat® 336 Hydraulic Excavator

## Technical Specifications

Engine		
Engine Model	C7.1	
Engine Power – ISO 9249	223 kW	300 hp
Engine Power – ISO 14396	225 kW	302 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in <sup>3</sup>
• Meets U.S. EPA Tier 3 and EU Stage IIIA equivalent emission standards. Rating at 2,200 rpm.		

Hydraulic System		
Main System – Maximum Flow (Implement)	560 L/min (280 × 2 pumps)	148 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	8.84 rpm	
Maximum Swing Torque	143 kN·m	105,250 lbf·ft

Drive		
Maximum Travel Speed	4.7 km/h	2.9 mph
Maximum Drawbar Pull	302.7 kN	68,050 lbf

Weights		
Operating Weight	35 800 kg	78,900 lb
• Long wide undercarriage, Reach boom, R3.2DB (10'6") stick, SD 2.12 m <sup>3</sup> (2.77 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	39 L	10.2 gal
Engine Oil (with filter)	25 L	6.6 gal
Swing Drive	18 L	4.8 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	373 L	98.5 gal
Hydraulic Tank (including suction pipe)	161 L	42.5 gal

Dimensions			
Boom	Reach Boom		Mass Boom
	6.5 m (21'4")		6.18 m (20'3")
Stick	Reach Stick		Mass Stick
	3.2 m (10'6")		2.55 m (8'4")
Bucket	SD		SDV
	2.12 m <sup>3</sup> (2.77 yd <sup>3</sup> )		2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> )
Shipping Height (top of cab)	3180 mm 10'5"	3180 mm 10'5"	3180 mm 10'5"
Handrail Height	3180 mm 10'5"	3180 mm 10'5"	3180 mm 10'5"
Shipping Length	11 170 mm 36'8"	10 870 mm 35'8"	10 870 mm 35'8"
Tail Swing Radius	3530 mm 11'7"	3530 mm 11'7"	3530 mm 11'7"
Counterweight Clearance	1260 mm 4'2"	1260 mm 4'2"	1260 mm 4'2"
Ground Clearance	510 mm 1'8"	510 mm 1'8"	510 mm 1'8"
Track Length	5030 mm 16'6"	5030 mm 16'6"	5030 mm 16'6"
Track Length to Center of Rollers	4040 mm 13'3"	4040 mm 13'3"	4040 mm 13'3"
Track Gauge	2740 mm 9'0"	2740 mm 9'0"	2740 mm 9'0"
Transport Width – 600 mm (24") Shoes	3340 mm 10'11"	3340 mm 10'11"	3340 mm 10'11"

Working Ranges and Forces			
Boom	Reach Boom		Mass Boom
	6.5 m (21'4")		6.18 m (20'3")
Stick	Reach Stick		Mass Stick
	3.2 m (10'6")		2.55 m (8'4")
Bucket	SD		SDV
	2.12 m <sup>3</sup> (2.77 yd <sup>3</sup> )		2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> )
Maximum Digging Depth	7560 mm 24'10"	6650 mm 21'10"	6650 mm 21'10"
Maximum Reach at Ground Line	11 110 mm 36'5"	10 270 mm 33'8"	10 270 mm 33'8"
Maximum Cutting Height	10 340 mm 33'11"	9990 mm 32'9"	9990 mm 32'9"
Maximum Loading Height	7040 mm 23'1"	6620 mm 21'9"	6620 mm 21'9"
Minimum Loading Height	2540 mm 8'4"	2920 mm 9'7"	2920 mm 9'7"
Maximum Depth Cut for 2440 mm (8'0") Level Bottom	7410 mm 24'4"	6480 mm 21'3"	6480 mm 21'3"
Maximum Vertical Wall Digging Depth	5860 mm 19'3"	4470 mm 14'8"	4470 mm 14'8"
Bucket Digging Force (ISO)	209 kN 46,920 lbf	265 kN 59,570 lbf	265 kN 59,570 lbf
Stick Digging Force (ISO)	166 kN 37,270 lbf	191 kN 42,890 lbf	191 kN 42,890 lbf



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