



# Cat<sup>®</sup> 340

## Hydraulic Excavator

**The Cat<sup>®</sup> 340 excavator delivers efficiency in all applications. Simple-to-use technologies like Cat GRADE with 2D, Grade Assist, Payload, and E-Fence all come standard from the factory to boost your operator efficiencies up to 45 percent. Combine these 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 capable of taking on your toughest work.**

**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 higher fuel efficiency – more work per unit of fuel – than the Cat 340F excavator.
- 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.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- 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).
- New self-sharpening Advansys™ bucket tips increase production and lower costs with more tip life.

### 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 asset tracker technology.

## Work in Comfort in the All-New Cab

- Choose between Deluxe and Premium cabs – both with automatic climate control.
- Sit in wide seats that adjust for all size operators.
- Stay warm with the Deluxe seat; stay warm and cool with the Premium 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.
- 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 your power mode and joystick preferences using Operator ID; the excavator will remember them every 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 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.

## Easy to Maintain

- Expect up to 15 percent less maintenance cost than the 340F due to extended and synchronized service intervals and smaller fluid quantities. (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 pre-cleaner has double the dirt 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 high-efficiency hydraulic fan has an available 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.

## Work Safer

- Work safely under structures or near traffic with the standard 2D E-fence feature integrated right out of the factory, which prevents any part of the excavator from moving outside operator-defined set points to avoid hazards and job site accidents.
- 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, standard sound suppression	✓		600 mm (24") triple grouser track shoes		✓
ROPS, advanced sound suppression		✓	600 mm (24") HD triple grouser 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)		✓	850 mm (33") HD triple grouser track shoes		✓
Heated and cooled seat with automatic adjustable suspension (Premium only)		✓	<b>BOOMS AND STICKS</b>		
<b>ENGINE</b>					
Cold start block heaters		✓	6.18 m (20'3") Mass boom		✓
Three selectable modes: Power, Smart, Eco	✓		6.5 m (21'4") HD 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") HD stick		✓
52° C (126° F) high-ambient cooling capacity with hydraulic reverse fan	✓		3.2 m (10'6") HD stick		✓
-18° C (0° F) cold start capability	✓		<b>ELECTRICAL SYSTEM</b>		
-32° C (-25° F) cold start capability		✓	Maintenance-free 1,000 CCA batteries (x2)	✓	
Double element air filter with integrated precleaner	✓		Centralized electrical disconnect switch	✓	
Remote disable	✓		LED chassis light	✓	
Biodiesel capability up to B20	✓		<b>CAT CONNECT TECHNOLOGY</b>		
<b>HYDRAULIC SYSTEM</b>					
SmartBoom™		✓	Cat Product Link	✓	
Boom and stick regeneration circuit	✓		Cat GRADE with 2D	✓	
Electronic main control valve	✓		Cat GRADE with Advanced 2D		✓
Heavy lift mode		✓	Cat GRADE with 3D		✓
Automatic hydraulic oil warm up	✓		Cat GRADE with Assist	✓	
Reverse swing damping valve	✓		Cat Payload	✓	
Automatic swing parking brake	✓		2D E-Fence	✓	
High performance hydraulic return filter	✓		<b>SERVICE AND MAINTENANCE</b>		
Two speed travel	✓		Grouped location of engine oil and fuel filters	✓	
Bio hydraulic oil capability	✓		Scheduled Oil Sampling (S-O-S) ports	✓	
Combined two-way auxiliary circuit with direct return		✓	Preventative maintenance ready (QuickEvac™)		✓
Medium-pressure auxiliary circuit		✓	Electric refueling pump with automatic shutoff		✓
Cooling circuit		✓	<b>SAFETY AND SECURITY</b>		
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	Caterpillar One Key security system	✓	
<b>UNDERCARRIAGE AND STRUCTURES</b>					
Long undercarriage		✓	Lockable external tool/storage box	✓	
Towing eye on base frame (ISO 15818 compliant)	✓		Lockable door, fuel, and hydraulic tank locks	✓	
7.56 mt (16,667 lb) counterweight	✓		Lockable fuel drain compartment	✓	
			Service platform with anti-skid plate and recessed bolts	✓	
			RH handrail and hand hold (ISO 2867 compliant)	✓	
			Standard visibility mirror package	✓	
			Signaling/warning horn	✓	
			Ground-level secondary engine shutoff switch	✓	
			Rear and side-view cameras	✓	
			Boom lowering check valve		✓
			Stick lowering check valve		✓
			360° visibility		✓

# Cat® 340 Hydraulic Excavator

## Technical Specifications

### Engine

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

### Hydraulic System

	558 L/min	147 gal/min
Main System – Maximum Flow (Implement)	(279 × 2 pumps)	(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	39 700 kg	87,600 lb
• Heavy-duty High Wide undercarriage, Reach boom, R3.2DB (10'6") stick, GD 2.27 m <sup>3</sup> (2.97 yd <sup>3</sup> ) bucket, 600 mm (24") HD triple grouser shoes, 7.56 mt (16,700 lb) counterweight.		

### Service Refill Capacity

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	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
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 CO<sub>2</sub> equivalent of 1430 metric tonnes.

### Dimensions

Boom	Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'3")	
Stick	Reach Stick R3.2DB (10'6")		Mass Stick M2.55TB (8'4")	
Bucket	GD 2.27 m <sup>3</sup> (2.97 yd <sup>3</sup> )		SD 2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> )	
Shipping Height (top of cab)	3400 mm	11.2 ft	3400 mm	11.2 ft
Handrail Height	3390 mm	11.1 ft	3390 mm	11.1 ft
Shipping Length	11 110 mm	36.5 ft	10 850 mm	35.6 ft
Tail Swing Radius	3530 mm	11.6 ft	3530 mm	11.6 ft
Counterweight Clearance	1470 mm	4.8 ft	1470 mm	4.8 ft
Ground Clearance	720 mm	2.4 ft	720 mm	2.4 ft
Track Length to Center of Rollers	4040 mm	13.3 ft	4040 mm	13.3 ft
Track Gauge	2930 mm	9.6 ft	2930 mm	9.6 ft
Transport Width – 600 mm (24") Shoes	3530 mm	11.6 ft	3530 mm	11.6 ft
Transport Width – 850 mm (33") Shoes	3780 mm	12.4 ft	3780 mm	12.4 ft

### Working Ranges and Forces

Boom	Reach Boom 6.5 m (21'4")		Mass Boom 6.18 m (20'3")	
Stick	Reach Stick R3.2DB (10'6")		Mass Stick M2.55TB (8'4")	
Bucket	GD 2.27 m <sup>3</sup> (2.97 yd <sup>3</sup> )		SD 2.41 m <sup>3</sup> (3.15 yd <sup>3</sup> )	
Maximum Digging Depth	7270 mm	23.9 ft	6440 mm	21.1 ft
Maximum Reach at Ground Level	10 980 mm	36.0 ft	10 230 mm	33.6 ft
Maximum Cutting Height	10 550 mm	34.6 ft	10 200 mm	33.5 ft
Maximum Loading Height	7330 mm	24.0 ft	6830 mm	22.4 ft
Minimum Loading Height	2830 mm	9.3 ft	3140 mm	10.3 ft
Maximum Depth Cut for 2240 mm (8 ft) Level Bottom	7110 mm	23.3 ft	6260 mm	20.5 ft
Maximum Vertical Wall Digging Depth	5330 mm	17.5 ft	4250 mm	13.9 ft
Bucket Digging Force (SAE)	186 kN	41,900 lbf	229 kN	51,470 lbf
Bucket Digging Force (ISO)	210 kN	47,150 lbf	265 kN	59,570 lbf
Stick Digging Force (SAE)	161 kN	36,210 lbf	183 kN	41,230 lbf
Stick Digging Force (ISO)	166 kN	37,300 lbf	191 kN	42,880 lbf

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