# 355

# HYDRAULIC EXCAVATOR



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The Cat® 355 is built for severe-duty work. High-durability front structures, heavy counterweight, and enhanced windshield protection make it perfect for using large hammers up to 210 mm (8") in size. Not all features available in all regions. Consult your Cat dealer for specific configurations available in your region.



### **BIG PRODUCTION**

The 355 can produce massive payloads with hammers up to 210 mm (8") and buckets up to SD 3.8 m<sup>3</sup> (4.9 yd<sup>3</sup>).

# LOW OWNING & OPERATING COSTS

Efficiency – work per unit of fuel – is high for the 355, and it comes from our smart electrohydraulic system. Plus, long-life fuel, oil, and air filters contribute to low maintenance costs and increased uptime.

### **HIGH DURABILITY**

With severe-duty front structures, a built-in hammer return filter, and enhanced windshield protection, the 355 can withstand the rigors of harsh quarry conditions — every day.

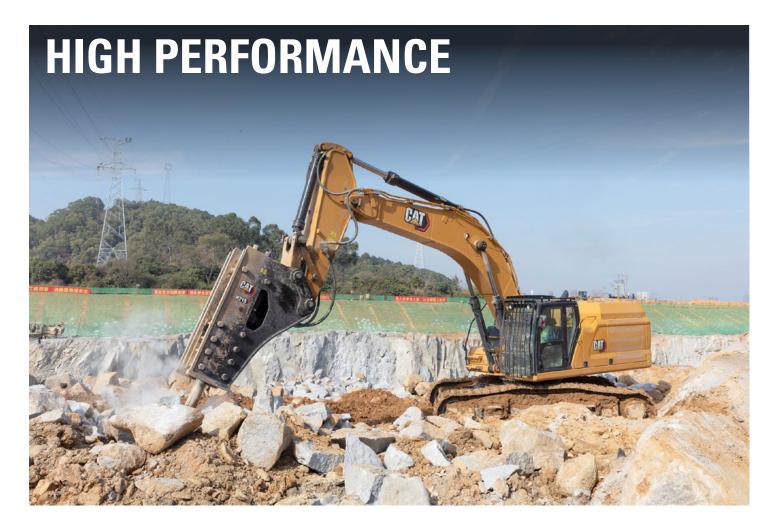
## **LATEST FEATURES**



**Cab Monitor Improvements** 

- Continuously improved user interface allows intuitive navigation, minimizing performance interruption with the easy-to-use touchscreen menu.
  - 1. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
  - A notification center keeps important information visible to the operator and displays messages without shrinking the camera view.
  - 3. Color-coded notifications set critical messages apart from the rest.
  - 4. Use the in-monitor QR code to learn about the machine and technology features through a full suite of "how-to" videos.
- Standard integrated vehicle health management system alerts operators with service guidance and parts needed to enhance uptime.

Not all features are available in all regions. Please check with your local Cat® Dealer for specific offering availability in your area. Build Number 08C



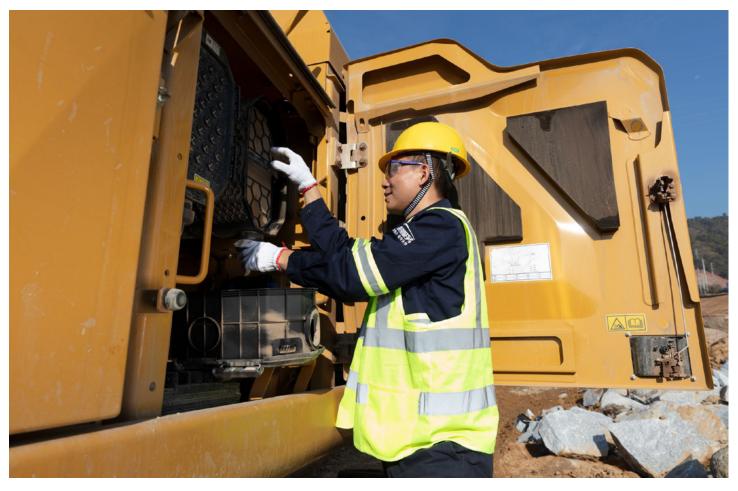
- Severe-duty boom and stick make the machine more durable in demanding applications.
- This machine is best suited for mine and quarry operations.
- Work up to 3000 m (9,840 ft) above sea level without de-rating.
- Match the excavator to the job with three operating modes: Power, Smart, and ECO.
- The engine meets China Nonroad Stage IV emission standards with an aftertreatment system that requires no operator input or downtime
- Three levels of fuel filtration protect the engine from dirty diesel fuel.
- Grease sealed between track pins and bushings reduces travel noise and prevents debris from entering to increase undercarriage life.
- The center track guiding guard helps align the excavator track when traveling and working on slopes.
- The sloped track frame prevents mud and debris accumulation, helping reduce the risk of track damage.
- A swing torque increase of 10% makes cycle times faster than the previous series.
- A stick force increase of 10% makes cutting through tough material easier than ever.
- Multifunctioning is smoother and more efficient with the hydrostatic swing circuit.

- Booms, sticks, and frames are up to two times more durable than the previous series, giving you years of reliable performance in the harshest environments.
- Auto warm-up speeds up hydraulic oil warming in cold temperatures and helps prolong the life of components.
- Don't let the temperature stop you from working. This excavator has a high-ambient capability of 52° C (125° F) and a standard cold start capability of  $-18^{\circ}$  C ( $-0.4^{\circ}$  F).

### LESS MAINTENANCE

- Extended, synchronized maintenance intervals and a reduced hydraulic oil capacity save up to 20% in maintenance costs on the 355.
- Boost productivity with proactive service reminders. The Integrated Vehicle Health Management system alerts the operator with step-by-step service guidance and parts needed so you don't experience unnecessary downtime.
- Check engine oil level quickly and safely with the engine oil dipstick on ground level.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- The latest hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3000-hour replacement interval – 50% longer than previous filter designs.
- The excavator is auto-lube ready with built-in mounting points; an available auto-lube retrofit kit provides additional hardware to mount a grease pump and line guards.
- Using Cat® genuine oil and filters and doing typical Scheduled Oil Sampling (S $\cdot$ 0 $\cdot$ S $^{SM}$ ) monitoring will double the current service interval to 1,000 hours, giving you greater uptime to do more work.
- S·O·S ports with extended sampling intervals are on ground level, simplifying maintenance and allowing for quick easy extraction of samples for fluid analysis.

- The high-efficiency hydraulic fan has an automatic reverse function to keep cores free from debris, eliminating the need for any operator interaction.
- The advanced air intake filter with pre-cleaner has double the dust holding capacity of the previous air intake filter.
- The latest engine air cleaners with an integrated pre-cleaner have twice the life of radial seal air cleaners.





- Standard automatic climate control keeps you at the right temperature throughout your shift.
- Get in and out of the cab more easily using the tip-up left console.
- Advanced viscous mounts reduce cab vibration up to 50% over previous excavator models.
- Control the excavator comfortably with easy-to-reach controls 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.

- Keep your excavator secure with Operator ID. Use your PIN code on the monitor to enable the pushbutton starting feature.
- A travel direction indicator helps operators know which way to activate the travel levers.
- Access 100% of daily maintenance points from ground level no need for you to climb on top of the excavator.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- The right-hand service platform design provides easy, safe, and quick access to the upper service platform; the service platform steps use serrated steps and an anti-skid punch plate to prevent slipping. The handrails comply with ISO 2867 requirements.
- The standard Rollover Protective Structure (ROPS) meets ISO 12117-2 2008 requirements.
- 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.
- Enhance jobsite safety. Add a swing alarm to alert people when rotating from the trench to the stockpile.
- 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.
- See all around the machine with the premium 360° lighting package and its 1800 lm lights on the chassis, cab, boom, sides, and rear.





- Start the engine with a push button; use a Bluetooth key fob or the unique Operator ID function.
- Automatic hydraulic oil warmup gets you to work faster in cold temperatures and helps prolong the life of components.
- Make operating easier with the touch of a joystick button. Additional auxiliary relays allow you to power on or turn off a CB radio, beacon light, and even a dust suppression watering system without taking your hands off the joysticks.
- 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 – saving time and enhancing safety on the jobsite.
- Not sure how a function works or how to maintain the excavator?
   Always have the operator's manual at your fingertips on the touchscreen monitor.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of "how-to" videos.
- Navigate quickly on the standard high-resolution 254 mm (10 in) touchscreen monitor or with jog dial control.
- A second 254 mm (10 in) monitor is available for Cat® Grade.
- 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 to prevent wear and tear on the attachment and excavator.

## **SUSTAINABILITY**

- The Cat® C13 engine meets China Nonroad Stage IV emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\*or 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.
- Extended maintenance intervals reduce downtime and decrease the amount of fluid and filters that are replaced over the machine's life.
- Remote Flash minimizes downtime and maintenance time while keeping your asset running at maximum efficiency. Alerts for machine updates are sent virtually from your Cat dealer, and updates can be deployed without a dealer technician needing to be onsite.

- Remote Troubleshoot decreases maintenance time and keeps your
  machine running with maximum efficiency by allowing your Cat
  dealer to virtually test the machine while working. Once a problem is
  identified, a technician can fix it the first time, saving time and money.
- \*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
- \*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.



# MORE THAN MACHINES

#### **BUILT AROUND YOUR SUCCESS**

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.



#### **CUSTOMER VALUE AGREEMENTS**

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

#### **GENUINE CAT PARTS**

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

#### **REPAIR OPTIONS**

A broad range of repair options give you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

#### **FINANCIAL SERVICES**

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.



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**DOZERS** 

**SKID STEERS** 

**MATERIAL HANDLERS** 

**EXCAVATORS** 

WHEEL LOADERS

**TRACK LOADERS** 

# INCREASE PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

Expand the performance of your excavator with a variety of Cat attachments. Each can maximize the machine's capability of moving material quickly and efficiently.

Attachments may vary. Consult your Cat dealer for details.

#### **BUCKETS**



Cat buckets and teeth can cut through the toughest material.

#### **COUPLERS**



Cat quick couplers let you change between tools in minutes, making the machine much more versatile.

#### **HAMMERS AND MORE**



Whether it's breaking rock, cutting steel, or grabbing and loading material, Cat hydromechanical attachments can help you do more work to make more money.

#### **PREVENT WEAR & TEAR**

Auto hammer stop prevents the tool from firing after 30 seconds of continuous firing. This prevents the tool and excavator from overworking, enhancing the service life of both.

## TECHNICAL SPECIFICATIONS

Engine			
Net Power – ISO 9249	330 kW	443 hp	
Net Power – ISO 9249 (DIN)	449 hp (1	metric)	
Engine Model	C13	BB	
Engine Power – ISO 14396	332 kW	445 hp	
Engine Power – ISO 14396 (DIN)	451 hp (1	451 hp (metric)	
Bore	130 mm	5 in	
Stroke	157 mm	6 in	
Displacement	12.5 L	763 in <sup>3</sup>	
Biodiesel Capability	Up to	Up to B201	
Emissions		Meets China Nonroad Stage IV emission standards.	

Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, and alternatior with engine speed at 1700 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

¹Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels.Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details. \*Engines with no aftertreatment devices can use higher blends,

up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

<sup>\*\*</sup>Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

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Hydraulic System			
Maximum Pressure – Equipment	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	26 000 kPa	3,771 psi	
Swing Mechanism			
Swing Speed	8.3 ı	8.3 r/min	
Maximum Swing Torque	189 kN⋅m	139,000 ft·lbf	
Weights			
Operating Weight	51 400 kg	113,300 lb	

Fixed Gauge Long undercarriage, Mass boom, SD M3.0UB (9'10") stick, SD 3.21 m³ (4.20 yd³) bucket, 600 mm (24") double grouser shoes, and 9800 kg (21,605 lb) counterweight.

Service Refill Capacities			
Fuel Tank Capacity	715 L	188.9 gal	
Diesel Exhaust Fluid (DEF) Tank	80 L	21.1 gal	
Cooling System	52 L	13.7 gal	
Engine Oil	40 L	10.6 gal	
Swing Drive – Each	10.5 L	2.8 gal	
Final Drive – Each	9.5 L	2.5 gal	
Hydraulic System – Including Tank	550 L	145.3 gal	
Hydraulic Tank	217 L	57.3 gal	

D:			
Dimensi			
Boom	Mass 6.55 m (21'6")		
Stick	M2.5 m (8'2")		
Bucket	SD 3.80 m <sup>3</sup> (4.97 yd <sup>3</sup> )		
Shipping Height – Top of Cab	3380 mm	11.1 ft	
Handrail Height	3530 mm	11.7 ft	
Shipping Length	11 630 mm	38.2 ft	
Tail Swing Radius	3760 mm	12.4 ft	
Counterweight Clearance	1435 mm	4.8 ft	
Ground Clearance	710 mm	2.4 ft	
Track Length	5350 mm	17.7 ft	
Track Length to Center of Rollers	4340 mm	14.3 ft	
Track Gauge	2890 mm	9.6 ft	
Transport Width	3180 mm	10.5 ft	
Working Range	s & Forces		
Boom	Mass 6.55 m (21'6")		
Stick	M2.5 m (8'2")		
Bucket	SD 3.80 m³ (4.97 yd³)		
Maximum Digging Depth	6590 mm	21.7 ft	
Maximum Reach at Ground Level	10 710 mm	35.2 ft	
Maximum Cutting Height	10 260 mm	33.8 ft	
Maximum Loading Height	6770 mm	22.3 ft	
Minimum Loading Height	3290 mm	10.1 ft	
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6290 mm	20.8 ft	

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg (2.2 lb) of refrigerant, which has a  ${\rm CO_2}$  equivalent of 1.430 metric tonnes (1.576 tons).

**Air Conditioning System** 

3930 mm

296 kN

241 kN

12.11 ft

66,600 lbf

54.100 lbf

Maximum Vertical Wall Digging Depth

Bucket Digging Force - ISO

Stick Digging Force - ISO

# **STANDARD & OPTIONAL EQUIPMENT**

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
9.8 mt (21,605 lb) counterweight	✓	
Towing eye on base frame	✓	
Fixed gauge undercarriage		✓
Variable gauge wide undercarriage		✓
9800 kg (21,605 lb) counterweight		✓
10 050 kg (22,156 lb) counterweight		✓
600 mm (24") double grouser track shoes		✓
750 mm (30") triple grouser track shoes		✓
750 mm (30") double grouser track shoes		✓
BOOMS AND STICKS		
6.55 m (21'6") Mass boom		✓
6.9 m (22'8") Reach boom		✓
2.5 m (8'2") Mass stick		✓
2.9 m (9'6") Reach stick		✓
3.0 m (9'10") Mass stick		✓
CAB		
ROPS	✓	
Cab/Operator Protective Guards (OPG)	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Auto bi-level air conditioner	<b>√</b>	
Keyless push-to-start engine control	<b>√</b>	
Air-suspension Essential seat	<b>√</b>	
51 mm (2") seat belt	<b>√</b>	
Bluetooth radio with USB/Auxiliary ports	<b>─</b>	
24V DC outlet	<u> </u>	
Beverage holder	<b>√</b>	
Openable two-piece front window	<b>√</b>	
Rear window emergency exit	<b>√</b>	
Radial wiper with washer	<b>√</b>	
Openable steel hatch	<b>─</b>	
LED dome light	<u> </u>	
Roller front sunscreen	<b>√</b>	
Washable floor mat	<b>√</b>	
High-resolution 254 mm (10") LCD touchscreen monitor		✓
Roller rear sunscreen		✓

	Standard	Optional
ENGINE	Otanaara	optional
Three selectable modes: Power, Smart, and Eco	✓	
Auto engine speed control	✓	
Up to 4500 m (14,760 ft) altitude capability	✓	
52° C (126° F) high-ambient cooling capacity	✓	
-18° C (0° F) cold start capability	✓	
Double element air filter with integrated pre-cleaner	✓	
Remote disable	✓	
Cold start block heater		✓
Hydraulic reverse fan		✓
-32° C (-25° F) cold start capability		✓
ELECTRICAL SYSTEM		
Maintenance-free 1000 CCA batteries (x4)	✓	
Centralized electrical disconnect switch	✓	
LED lights	✓	
Inlet air heater		✓
SERVICE AND MAINTENANCE		
Integrated vehicle health management system	✓	
Grouped location of engine oil & fuel filters	✓	
S.O.S ports	✓	
HYDRAULIC SYSTEM		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto hydraulic oil warmup	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two-speed travel	✓	
One-way one-pump auxiliary circuit		✓
Combined two-way two-pump auxiliary circuit		✓
Quick coupler circuit		✓
SAFETY AND SECURITY		
Service platform with anti-skid plate and recessed bolts	✓	
Rearview camera	✓	
Lockable disconnect switch	✓	
Auto hammer stop	✓	
Rearview camera	✓	
Inconstitution limbian		

Inspection lighting

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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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