

345

HYDRAULIC EXCAVATOR



Engine Power

ISO 14396

259 kW (347 hp)

Operating Weight

42 200 kg (93,000 lb)



A MULTITASKING MASTER THAT OFFERS A BALANCE OF DEPENDABLE PRODUCTION, OPERATOR-ORIENTED FEATURES, AND LOW OWNING AND OPERATING COSTS

Equipped with the reliable Cat C9.3B 258kW engine and two power modes to help manage fuel consumption for specific applications such as truck loading and trenching, this machine is compatible with multiple Cat attachments and a smart choice for operations where consistency and performance are priorities.

- + WORKS SMART
- + LATEST CAB TAKES THE HARD OUT OF WORK
- + SAVES TIME AND MONEY



MEET THE CAT[®] 345

POWER THAT MOVES MORE.
PRECISION THAT PAYS OFF.

The Cat[®] 345 is built to work hard, smart, and without compromise. Every cut, every load, every shift, this machine delivers the muscle and precision that keeps production high and operating costs low. From deep trenching and truck loading to hammering rock in the heat of a jobsite, the 345 gives you the balance of raw power, intelligent hydraulics, and rock-solid durability you need to get the job done and done right.

BUILT FOR HIGH PRODUCTIVITY AND LOW COST PER HOUR



WORKS SMART

Smart Mode automatically adjusts power to help operators achieve the highest fuel efficiency – less power for tasks such as swinging and more power for digging.

LATEST CAB HELPS TAKE THE HARD OUT OF WORK

Excavators typically work on rugged and challenging sites. The 345's cab safety and convenience features help protect operators from fatigue, stresses, sounds, and temperatures on the job.

SAVES TIME AND MONEY

Cat Next Generation Excavators share common parts, extended and synchronized service intervals, exceptional customer service, and superior product support.

BUILT FOR HIGH PRODUCTIVITY

When your day depends on moving material efficiently, the Cat 345 brings the performance edge you can count on. Its 298 kW (400 hp) Cat C9.3B engine and advanced hydraulic system deliver smooth, responsive power that helps you dig faster and load more, all while burning less fuel.

This excavator's design is purpose-built for high production in demanding conditions, giving you the confidence to push through every load, every pass, and every challenge. Whether it's a quarry face, a pipeline trench, or a tough foundation job, the 345 keeps you moving with relentless force and total control.





LOW COST PER HOUR

Low fuel consumption is one of its biggest strengths, and Caterpillar backs it up with the Fuel Promise Program, giving customers peace of mind and proof of long-term savings.

Smart hydraulics automatically balance power and efficiency, ensuring you use only what's needed while maintaining breakout force and swing speed that rival larger machines.

With optimized bucket capacities from 2.2 to 3.2 cubic meters and fast cycle times, the 345 helps you move more tons per hour, and earn more per shift.





OPERATOR SAFETY

The ISO-certified ROPS cab is sound suppressed and sealed. The ROPS structure uses narrow front cab pillars to allow a wider field of view to the front.

OPERATOR PROTECTION

Sites where excavators work are typically rugged and challenging. That's why it's important that the 345 cab helps protect the operator as much as possible from fatigue, stresses, sounds, and temperatures of the job.



OPERATOR VISIBILITY

See all around the machine with the premium 360° lighting package and its 1800 lumen lights on the chassis, cab, boom, sides, and rear.

OPERATOR CONFIDENCE

The windows and lower front profile of the machine give operators confidence in tight spaces and outstanding visibility to the work area without the strain of constantly leaning forward.

CONTROL YOUR COMFORT

Convenience features include Bluetooth® integrated radio, USB charging and phone connectivity ports, 12V DC outlets, and an AUX port. The automatic climate control system holds steady even in extreme heat, while low vibration levels and reduced cab noise help operators stay focused and alert.



WIDE CAB

The wide, pressurized cab keeps dust and noise out, while the adjustable joystick consoles and air-suspension seat keep operators in control and comfortable all day long.

COMFORT AND PRODUCTIVITY

A productive operator is a comfortable one, and the Cat 345 delivers on both. Step inside the next-generation cab and you'll find a workspace designed for long days and real work.

ADJUSTABLE SEAT

The standard seat is wide and adjustable for operators of virtually any size. The Deluxe cab package includes a heated air suspension seat.

BUILT-IN PROTECTION

The Cat 345 is engineered with safety woven into every detail. Everything from lighting placement to platform layout has been engineered to help operators move safely, stay focused, and get the job done efficiently, day or night.

Integrated LED lights brighten key work and service areas, improving visibility for night shifts or low-light environments. Serrated steps, anti-skid walkways, and ISO 2867:2011-compliant handrails provide sure footing and solid grip even in wet or muddy conditions.

The right-hand service platform design provides fast, secure access to daily maintenance points, keeping you on solid ground while reducing time spent climbing or reaching when checking the air pre-cleaner, the fuel water separator, fuel tank water and sediment drains, and cooling system coolant level check.



SECURE HANDRAILS



ANTI-SKID WALKWAYS



RIGHT-HAND SERVICE PLATFORM

SAFETY YOU CAN COUNT ON

TO ARRIVE SAFELY HOME EVERY DAY



SMOOTH, CONFIDENT CONTROL

EVERY DETAIL DESIGNED FOR THE OPERATOR



INTUITIVE AND EMPOWERING TO OPERATE

The 345's hydraulic system delivers more than just muscle, it delivers feel. Operators will notice the immediate response, predictable control, and balanced movement through every stick and boom motion.

The system adapts to your workload, shifting flow and pressure automatically to give you the right amount of power exactly when you need it. That means faster truck loading, cleaner trench walls, and smoother finishes with less fatigue at the end of the day.

The 345 delivers a maximum digging depth of 7.3 meters (23.9 ft), a reach at ground level of 11.3 meters (37 ft), and a cutting height of 10.5 meters (34.4 ft). It's a powerhouse of performance and reliability, built to move material, not excuses.

CAT TECHNOLOGY TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Technology on the 345 works as hard as the machine itself. The in-cab monitor puts performance data, settings, and even how-to video guides at your fingertips.



VISIONLINK™

VisionLink™ provides actionable data insights for all assets – regardless of fleet size or equipment manufacturer.* Review equipment data from your desktop or mobile device to maximize uptime and optimize assets. Dashboards provide information such as hours, miles, location, idle time, and fuel utilization. Make informed decisions that lower costs, simplify maintenance, and improve safety and security on your jobsite.

* Data field availability can vary by equipment manufacturer. VisionLink subscription required for advanced data features. Availability may vary by region, consult your Cat dealer for more details.



MACHINE SETUP SIMPLIFICATION

The latest operator oriented User Interface (UI) has been designed to maximize uptime by allowing operators to easily reorder work tool lists and quickly create new work tool combinations. It also eliminates the need to measure up again when changing Cat work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.



REMOTE TROUBLESHOOT

Remote Troubleshoot is a mobile application that allows your Cat dealer to perform diagnostic testing on your connected machine remotely to help ensure that issues are resolved quickly and with less downtime.

EASY AND ECONOMICAL MAINTENANCE

SAVE TIME AND MONEY

When Cat equipment is properly cared for, owners can expect thousands of working hours. Mindful operation backed by regular maintenance and preventive measures can help keep your Cat machinery working for years.

REDUCE MAINTENANCE COSTS

Cat Next Generation Excavators share common parts, extended and synchronized service intervals, exceptional customer service, and superior product support.



MINIMIZE DOWNTIME

The fuel and engine oil filters are aligned for easy 1,000-hour replacement intervals, while hydraulic oil filters last up to 3,000 hours. Using Cat genuine oil and filters, along with typical S·O·SSM monitoring, will extend the current service interval, providing you with more uptime.



SIMPLIFIED SAMPLING

S·O·S ports with extended sampling intervals simplify maintenance and allow for quick and easy extraction of samples for fluid analysis.



INCREASE YOUR PRODUCTIVITY AND PROFIT WITH CAT ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of Cat attachments. Each Cat attachment is designed to fit the weight and horsepower of Cat excavators for improved performance, safety, and stability.

BUCKETS



HYDRAULIC HAMMERS



PREVENT HAMMER WEAR AND TEAR

Auto hammer stop shuts the hammer off after 30 seconds of continuous firing to prevent the tool and excavator from overworking.

This excavator isn't just built for dirt. It's hammer-ready from the factory, designed for the kind of continuous impact work that defines many applications.

Its hydraulic system is tuned for consistent flow and cooling, letting operators work longer in hot, demanding environments without a drop in performance.

That reliability translates into real results, less downtime, low operating costs, and more material moved.

QUICK COUPLERS



VIBRATORY PLATE COMPACTORS



MORE THAN CUSTOMER VALUE AGREEMENTS

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a world-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 peace of mind from effective equipment health management.

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.

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.

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.

GET BACK TO WORK

Services to help you save time, save money, and get back on the job.

CAT INSPECT

Access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems, so you can keep a close eye on your fleet.

HYDRAULICS AND HOSE

Whether you choose new, Cat Reman, exchange, or rebuilt hydraulic components, you'll get expert diagnostics, testing, and contamination control. Cat Hose Service offers hoses and couplings for most makes and models.

CERTIFIED REBUILD

Get a full second machine life at a fraction of the cost of buying new. With upgraded features, safety enhancements, and the latest technologies, your old machine will perform even better than it did when it rolled off the line.

TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C9.3B	
Net Power – ISO 9249	258 kW	346 hp
Engine Power – ISO 14396	259 kW	347 hp
Bore	115 mm	5 in
Stroke	149 mm	6 in
Displacement	9.3 L	568 in³
Biodiesel Capability	Up to B20 ⁽¹⁾	
<ul style="list-style-type: none">• Meets China Nonroad Stage IV emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.• Recommended for use up to 3300 m (10,830 ft) altitude with engine power derate above 2300 m (7,550 ft).• Advertised power is tested per the specified standard in effect at the time of manufacture.• Net power is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator with engine speed at 1,900 rpm.		
⁽¹⁾ Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: <ul style="list-style-type: none">✓ 100% biodiesel FAME (fatty acid methyl ester)*✓ 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. *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.		
SWING MECHANISM		
Swing Speed*	8.27 rpm	
Maximum Swing Torque	155 kN·m	114,543 lbf·ft
*For CE-marked machine default value may be set lower.		
MACHINE WEIGHTS		
Operating Weight	42 200 kg	93,000 lb
Reach boom, R2.9TB (9'6") stick, Heavy Duty (HD) 2.41 m³ (3.15 yd³) bucket, 600 mm (24") double grouser shoes, 9.0 mt (19,842 lb) counterweight.		
Operating Weight	43 300 kg	95,500 lb
Mass boom, M3.0UB (9'10") stick, Severe Duty – V Edge (SDV) 2.77 m³ (3.62 yd³) bucket, 600 mm (24") double grouser shoes, 9.0 mt (19,842 lb) counterweight.		
TRACK		
Standard Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Optional Track Shoes Width	800 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	
DRIVE		
Gradeability	35°/70%	
Maximum Travel Speed	5.2 km/h	3.2 mph
Maximum Drawbar Pull	292 kN	65,532 lbf

HYDRAULIC SYSTEM		
Main System – Maximum Flow – Implement	630 L/min (315 L/min × 2 pumps)	166 gal/min (83 gal/min × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi
Boom Cylinder – Bore	160 mm	6 in
Boom Cylinder – Stroke	1392 mm	55 in
Stick Cylinder – Bore	180 mm	7 in
Stick Cylinder – Stroke	1758 mm	69 in
TB Bucket Cylinder – Bore	150 mm	6 in
TB Bucket Cylinder – Stroke	1356 mm	53 in
UB Bucket Cylinder – Bore	160 mm	6 in
UB Bucket Cylinder – Stroke	1396 mm	55 in
SERVICE REFILL CAPACITIES		
Fuel Tank	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil (with filter)	32 L	8.5 gal
Swing Drive	13.5 L	3.6 gal
Final Drive (each)	8 L	2.1 gal
Hydraulic System (including tank)	423 L	111.7 gal
Hydraulic Tank (including suction pipe)	186 L	49.1 gal
STANDARDS		
Brakes	ISO 10265:2008	
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1998 Level II	
SOUND PERFORMANCE		
ISO 6395:2008 (external)	107 dB(A)	
ISO 6396:2008 (inside cab)	73 dB(A)	
<ul style="list-style-type: none">• External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. The measurements were conducted at 70% of the maximum engine cooling fan speed.• Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.• Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).		
AIR CONDITIONING SYSTEM		
The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas.		
– If equipped with R134a (Global Warming Potential = 1430), the system contains 1.000 kg (2.205lb.) of refrigerant, which has a CO ₂ equivalent of 1.430 metric tonnes (1.576 tons).		
– If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 0.790 kg (1.742 lb.) of refrigerant, which has a CO ₂ equivalent of 0.001 metric tonnes (0.001 tons).		

STANDARD AND OPTIONAL EQUIPMENT

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

BOOMS AND STICKS	STANDARD	OPTIONAL
6.9 m (22'8") Reach boom		•
6.55 m (21'6") Mass boom		•
2.9 m (9'6") Reach stick		•
3.35 m (11'0") Reach stick		•
2.55 m (8'4") Mass stick		•
3.0 m (9'10") Mass stick		•
CAT® TECHNOLOGY	STANDARD	OPTIONAL
Cat Product Link™	•	
Auto hammer stop	•	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Maintenance-free 1,000 CCA batteries (x2)	•	
Maintenance-free 1,000 CCA batteries (x4) for -32° C (-25° F) cold start capability		•
Centralized electrical disconnect switch	•	
LED chassis light, Left Hand (LH) boom lights, cab lights	•	
Premium surrounding light package		•
ENGINE	STANDARD	OPTIONAL
Cold start block heater		•
Three selectable modes: Power, Smart, Eco	•	
Automatic engine speed control	•	
2300 m (7,550 ft) altitude capability with no engine power de-rating	•	
52° C (126° F) high-ambient cooling capacity	•	
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 (depending on region and VisionLink™ subscription)	•	
HYDRAULIC SYSTEM	STANDARD	OPTIONAL
Boom and stick regeneration circuit	•	
Electronic main control valve	•	
Automatic hydraulic oil warmup	•	
Reverse swing damping valve	•	
Automatic swing parking brake	•	
High performance hydraulic return filter	•	
Two-speed travel	•	
Bio hydraulic oil capability	•	
Fine swing (depending on region)		•
Combined two-way auxiliary circuit		•
Combined two-way auxiliary circuit with hammer return filter		•
SAFETY AND SECURITY	STANDARD	OPTIONAL
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	•	
Right Hand (RH) handrail and handhold (ISO 2867:2011 compliant)	•	
Standard visibility mirror package	•	
Signaling/warning horn	•	
Ground-level secondary engine shutoff switch	•	
Rearview camera and right-hand-side mirror	•	
Right-hand-side camera (depending on region)		•
Travel alarm		•
SERVICE AND MAINTENANCE	STANDARD	OPTIONAL
Grouped location of engine oil and fuel filters	•	
S-O-S™ sampling ports	•	
Electric refueling pump with automatic shutoff		•
UNDERCARRIAGE AND STRUCTURES	STANDARD	OPTIONAL
Towing eye on base frame	•	
9 mt (19,842 lb) counterweight	•	
600 mm (24") triple grouser track shoes		•
600 mm (24") HD triple grouser track shoes		•
600 mm (24") double grouser track shoes		•
700 mm (28") triple grouser track shoes		•
800 mm (31") triple grouser track shoes		•

A LEGENDARY LEGACY

THAT LEADS



Founded in 1925, Caterpillar established the standard for tractors and construction equipment from the outset. Over the years, the company's leaders have gained a great deal of knowledge about what works and what doesn't.

Caterpillar has grown alongside its customers, developing new products for hardworking individuals who want to push the limits. With that history comes innovation, change, creation, and learning.

Caterpillar has partnerships across multiple industries and companies, continually developing and refining its understanding of how equipment should operate.

OUR COMMITMENT TO DESIGNING AND BUILDING THE WORLD'S BEST EQUIPMENT IS EVIDENT IN EVERY SINGLE PRODUCT.

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com.

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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