



Cat[®] 345

Excavator

45 Ton Excavator

Digger

The Cat[®] 345 is a multi-tasking master that offers a balance of dependable production, operator-oriented features, and low owning and operating costs. Equipped with the reliable Cat C9.3B 258 kW (346 hp) 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.

Latest Features

- 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.
- The latest cab design is outfitted with an ergonomic seat, touchscreen display, climate control, noise insulation, and vibration reduction, helping reduce fatigue while allowing the operator to stay on task.

Build Number: 07H

Performance Powerhouse

- Work up to 3300 m (10,830 ft) above sea level.
- Powerful swing torque easily handles changes in momentum, uneven terrain, and consistent high-impact connections, helping operators make their work swift and precise.
- Did you know baffle plates help increase an excavator's strength-to-weight ratio? That is why Caterpillar incorporates the plates in high-stress areas like the boom, stick, and frame. Reinforcing the machine without adding significantly more weight also helps provide years of reliable performance, even in the harshest environments.
- The cylinder rods are reinforced with additional wear rings to help reduce oil leaks. The car body has thick baffle plates for a long service life. The thick track link has large bolt joints to help maintain bolt retention. Track rollers have a large shaft diameter to help prevent bending and oil leaks while increasing the 340s loading capacity, which means more reliable production for you.

- 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.
- Auxiliary hydraulic options allow you to use a wide range of Cat[®] attachments.
- Advansys[™] bucket tips increase penetration and improve cycle times. Tip changes can be done quickly with a simple lug wrench instead of a hammer or special tool, improving safety and uptime.
- Match the excavator to the job with three operating modes: Power, Smart, and ECO.
- Smart mode automatically adjusts power for the highest fuel efficiency – less power for tasks such as swinging and more power for digging.
- Enhanced heavy lift mode increases system pressure to help you easily pick and place heavy material.
- 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 standard high-ambient temperature capability is 52° C (125° F) with cold start capability at -18° C (0° F).
- An optional battery-operated engine heater enables starting at -32° C (-25.6° F).
- The C9.3B engine meets Brazil Mar-1 emission standards, equivalent to U.S. EPA Tier 3, EU Stage IIIA, and China Nonroad Stage III.



Ultimate Operator Comfort

- 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.
- Comfort and efficiency of movement help keep operators productive and alert all shift long. The standard seat is wide and adjustable for operators of virtually any size.
- The tip-up left console makes getting in and out of the seat easy.
- Two cab options – Essential and Deluxe – let you choose the level of comfort you need.
- The Deluxe cab package includes a heated air suspension seat.
- The cab is sound-suppressed and sealed.
- Advanced viscous mounts reduce cab vibration.
- Control the excavator comfortably with easy-to-reach controls located in front of you.
- The touchscreen monitor makes it easy to access critical information and settings. Shortcut keys make it easy; two are for entertainment, heating, and air conditioning. There is also a shortcut key for apps and functions that you can set.
- Standard automatic climate control keeps you at the right temperature throughout your shift.
- Convenience features include Bluetooth® integrated radio, USB charging and phone connectivity ports, 12V DC outlets, and an Auxiliary (AUX) port.
- Cup and bottle holders are easy to reach, and storage spaces are located conveniently throughout the cab.
- Stow your gear with plenty of in-cab storage beneath and behind the seat, overhead, and in the consoles.

Not all features are available in all regions. Please check with your local Cat® dealer for specific offering availability in your area.

Intuitive and Empowering to Operate

- The 345 uses a keyless push-button engine start. This adds security for the machine by using Operator ID codes to limit and track machine access. Codes can be entered manually via an optional Bluetooth key fob.
- Most machine settings can be controlled through the high-resolution touchscreen monitor. It offers several languages and is easy to reach from the seat – no twisting or turning.
- Operating can be made easier with the touch of a joystick button. The joystick function can be customized through the monitor. The joystick pattern and response can be set to match operator preference. All preferences are saved with the Operator ID and restored at login.
- You can also add an auxiliary relay to power on or turn off a CB radio, beacon light, or other attachment so you don't have to take your hands off the joysticks.
- 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.
- Operator coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.
- 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.

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Easy and Economical Maintenance

- The 345's extended and synchronized service intervals and reduced hydraulic oil capacity help you save time and money.
- 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 – all to help do the job of lubing safer, cleaner, and trouble-free.
- 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.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Fuel and engine oil filters are accessible from the upper platform and synchronized to be changed at 1,000 hours.
- The latest hydraulic oil filter provides high-quality filtration performance and features anti-drain valves to keep oil clean when the filter is replaced, and the 3,000-hour extended replacement interval offers efficiency and convenience.
- Scheduled Oil Sampling (S-O-SSM) ports with extended sampling intervals are on ground level, simplifying maintenance and allowing for quick, easy sample extraction for fluid analysis.
- Using Cat® genuine oil and filters and doing typical S-O-S monitoring will extend the current service interval, giving you more uptime.
- The high-efficiency hydraulic fan has a programmable 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 a high dust-holding capacity.
- The latest engine air cleaners with an integrated pre-cleaner surpass radial seal air cleaners' lifespan.

Safely Home Every Day

- 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.
- 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.
- Rear and right-hand-side view cameras are standard.
- See all around the machine with the premium 360° lighting package and its 1,800 lm lights on the chassis, cab, boom, sides, and rear.

Solutions for Your Success

Financial Solutions to Fit Your Business

- You can count on Cat Financial to provide your business with the best finance and extended protection solutions. For 100 years, Caterpillar has been building the world's infrastructure and partnering with independent dealers to drive positive and sustainable change worldwide.
- For over 30 years, we have helped our customers succeed through excellence in financial services. We offer finance, lease, and extended protection services for nearly every market Caterpillar and its dealers serve – including heavy and general construction, forestry, mining, marine, industrial, quarry and aggregates, and power generation.
- Whether you are looking to finance equipment, acquire working capital, improve cash flow, or protect your investment, we understand your business and can provide the solutions you require.

Solutions for Your Success *(continued)*

Putting the Value in Customer Value Agreements

- Cat® Customer Value Agreements (CVAs) are easy ownership plans fit to your business needs in order to help extend equipment life and maximize your investment. Whatever your industry, whatever your Cat product – keeping it in excellent condition means more production and lower costs. That's a CVA.
 1. **What Comes in a CVA?** Each CVA offers different elements depending on the industry and Cat product. View the above pages to learn specific CVA details. But for any CVA, you can expect these four areas of ownership value.
 2. **Hassle-free Ownership** – CVAs bring together dealer advice, easy parts acquisition, plus options for flexible payment terms.
 3. **Hassle-free Maintenance** – Getting the right Genuine Cat Parts delivered to the right place at the right time makes it easier for maintenance to get done. Service options are flexible to meet your needs.
 4. **Security of Expert Dealer Support** – Cat CVAs are customized plans that offer troubleshooting, diagnostics and repairs with Genuine Cat Parts. If you need trained technician assistance, there are options for that too!
 5. **Peace of Mind from Equipment Health Management** – You get easy access to monitoring tools with a Cat CVA. Digital tools give you the ability to access important operating parameters for your business anywhere you have an internet connection.

Steady Market Value

- Heavy machinery loses its market value over time as it accumulates wear and usage, meaning you can expect a marked decrease in value if you ever try to sell it.
- However, the market value of used Cat products is relatively stable, so even if you purchase used equipment, the value tends to remain steady.
- When given proper maintenance and care, a new or used Cat machine can help you maximize your productivity and profitability.
- If you prefer buying used equipment, shopping the Caterpillar brand is a great option to ensure you get the most out of your investment.
- Ask your Cat dealer today about the many services that help you do your work your way.

Dedicated Service and Superior Support

- When you purchase Cat® equipment, you receive more than just the machine. You're also getting the support of a best-in-class dealer network backed by a range of flexible solutions, technology, tools, and more.
- When you work with your local Cat dealer, you'll be supported by one of the industry's most extensive, knowledgeable dealer networks.
- Comprising 160 independent dealers, the Cat Dealer Network serves 197 countries through thousands of branches worldwide.
- It's more uptime, cost-saving service and repair options, quality parts, and precision components. It's all about support built around your success.

The Importance of Buying Genuine Cat® Parts

1. Designed by Caterpillar engineers to the exact specs of your Cat equipment.
2. Rigorously tested to ensure maximum performance.
3. Covered by a 12-month warranty.

Cat Inspect – Work made easy.

1. Record real-time inspection data.
2. Simplify inspections and reporting.
3. Easy-to-read results all in one place.

Cat Ground Engaging Tools (GET) – Longer wear. More work.

1. GET for every machine and application.
2. Tools to extend life and track GET lifecycles.
3. Bucket rebuild options for optimal performance.

Cat Hydraulic Components – Quality durability you can work with.

1. Flexible options – New, remanufactured, exchanged, rebuilt, or repaired.
2. Expert diagnostics, testing, and contamination control.
3. Buy in-store, online, or on your mobile device.

Cat Hose Service – Fast and safe to get you back to work.

1. Hoses and couplings for most makes and models.
2. OEM database ensures an exact fit.
3. Industry-best tooling, training, and assembly standards.

Cat Certified Rebuild – An Investment That Works. Again, and again.

1. Better-than-when-new performance at a fraction of the cost.
2. Performance, safety, and technology upgrades and enhancements.
3. Full warranty coverage, Customer Value Agreement, and special financing.

Cat Remote Services – Work is done in a flash.

1. Cut downtime for updates and service.
2. Install the latest machine software remotely.
3. Troubleshoot issues before a technician arrives.

Dedicated Service and Superior Support *(continued)*

Quality Replacement Parts

- When you purchase a Cat machine, finding replacement parts is simple. We manufacture and stock our replacement parts so you can easily find and order new parts as necessary using our Parts.Cat.com portal. Instead of relying on a supplier, you can go directly to the source for your Cat parts.
- Save time hunting down the right part when you purchase from the same brand that has served you for years. The benefits of Parts.Cat.com include:
 1. Convenience: You can quickly order the parts you need with this user-friendly platform. Store your information, view your order history, and get order information all from the same website.
 2. Knowledge: At Parts.Cat.com, you can find more than just the parts you need. There are informational guides and articles to help you learn more about your equipment and the parts that go with it.
 3. Support: If you have questions about the part you need, you can always contact your local Cat dealer for assistance and helpful information.

Wide Inventory

- If you have a job requiring a specific tool or capability, you can find an option from Caterpillar. With models for everything from large-scale construction jobs to landscaping to agriculture, we are here to help you get the job done.

Exceptional Efficiency Through Technology

- With the touch of fingertips and navigation of user-friendly icons, the latest operator-oriented User Interface (UI) maximizes uptime and gets crews to work without delay.
- The interface enables operators to maintain accuracy and maximize every second of their shift. It also makes it manageable for a single person to check and adjust for bucket wear.
- 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.
- Cat® 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.
- Cat® Remote Flash is a mobile application that allows you to update onboard software without a technician being present, allowing you to initiate software updates when convenient, increasing your overall operating efficiency.

**Data field availability can vary by equipment manufacturer.*

Availability may vary by region.

Please consult your local Cat Dealer for more details.

Cat® 345 Excavator | 45 Ton Excavator | Digger

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Towing eye on baseframe (ISO 15818 Compliant)	✓	
9 mt (19, 842 lb) counterweight	✓	
600 mm (24") double grouser track shoes		✓
600 mm (24") Heavy Duty (HD) triple grouser track shoes		✓
600 mm (24") triple grouser track shoes		✓
700 mm (28") triple grouser track shoes		✓
BOOMS AND STICKS		
6.55 m (21'6") Mass boom		✓
6.9 m (22'8") Reach boom		✓
2.55 (8'4") Mass stick		✓
2.9 m (9'6") Reach stick		✓
3.0 m (9'10") Mass stick		✓
3.35 m (11'0") Reach stick		✓
3.35 m (11'0") HD Reach stick		✓
CAT TECHNOLOGY		
Cat Product Link™	✓	
Auto hammer stop	✓	
CAB		
ROPS, standard sound suppression	✓	
High-resolution 203 mm (8") LCD touch screen monitor	✓	
Heated air-suspension seat	✓	
Operator Protective Guards (OPG)		✓
ENGINE		
Three selectable modes: Power, Smart, Eco	✓	
Auto engine speed control	✓	
Up to 3300 m (10,830 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	✓	
Biodiesel capability up to B20	✓	
Cold start block heaters		✓
-32° C (-25° F) cold start capability		✓
ELECTRICAL SYSTEM		
Maintenance-free 1,000 CCA batteries (x2)	✓	
Centralized electrical disconnect switch	✓	
LED chassis light, right and left hand boom lights, cab lights	✓	

	Standard	Optional
SERVICE AND MAINTENANCE		
Grouped location of engine oil and fuel filters	✓	
Scheduled Oil Sampling (S-O-S) ports	✓	
Electric refueling pump with auto shutoff		✓
HYDRAULIC SYSTEM		
Boom and stick regeneration circuit	✓	
Electronic main control valve	✓	
Auto hydraulic oil warm up	✓	
Reverse swing damping valve	✓	
Auto swing parking brake	✓	
High performance hydraulic return filter	✓	
Two speed travel	✓	
Bio hydraulic oil capability	✓	
Long undercarriage	✓	
Fine swing		✓
Combined two-way auxiliary-circuit		✓
Combined two-way auxiliary-circuit with hammer return filter		✓
SAFETY AND SECURITY		
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 handrail and hand hold (ISO 2867 Compliant)	✓	
Signaling/warning horn	✓	
Standard visibility mirror package	✓	
Ground-level secondary engine shutoff switch	✓	
Rearview camera and right-hand-side mirror	✓	

Technical Specifications

Engine		
Engine Model	Cat C9.3	
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
Hydraulic System		
Main System – Maximum Flow	630 L/min (166 gal/min)	
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi
Swing Mechanism		
Swing Speed	8.27 r/min	
Maximum Swing Torque	155 kN-m	114,543 ft-lbf
Weights		
Operating Weight	42 200 kg	93,000 lb
Service Refill Capacities		
Fuel Tank Capacity	600 L	158.5 gal
Cooling System	40 L	10.5 gal
Engine Oil	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	186 L	49.1 gal

Dimensions		
Boom	Reach 6.9 m (22'8")	
Stick	R2.9TB (9'6")	
Bucket	HD 2.41 m³ (3.15 yd³)	
Shipping Height – Top of Cab	3230 mm	10.6 ft
Handrail Height	3370 mm	11.1 ft
Shipping Length	11 620 mm	38.1 ft
Tail Swing Radius	3530 mm	11.6 ft
Counterweight Clearance	1300 mm	4.3 ft
Ground Clearance	520 mm	1.7 ft
Track Length	5030 mm	16.5 ft
Track Length to Center of Rollers	4040 mm	13.3 ft
Track Gauge	2740 mm	9 ft
Transport Width	3340 mm	11 ft
Working Ranges and Forces		
Boom	Reach 6.9 m (22'8")	
Stick	R2.9TB (9'6")	
Bucket	HD 2.41 m³ (3.15 yd³)	
Maximum Digging Depth	7200 mm	23.6 ft
Maximum Reach at Ground Level	11 290 mm	37 ft
Maximum Cutting Height	10 540 mm	34.6 ft
Maximum Loading Height	7210 mm	23.7 ft
Minimum Loading Height	3130 mm	10.3 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	7040 mm	23 ft
Maximum Vertical Wall Digging Depth	5390 mm	17.7 ft
Bucket Digging Force – ISO	235 kN	52,860 lbf
Stick Digging Force – ISO	198 kN	40,530 lbf

Cat® 345 Excavator | 45 Ton Excavator | Digger



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

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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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Build Number: 07H
(Afr-ME, Aus-NZ, Eurasia,
Indonesia, SE Asia)

