



Cat[®] 325

Hydraulic Excavator

The Cat[®] 325 Excavator brings premium performance with simple-to-use technologies like Cat GRADE with 2D, Grade Assist, Lift Assist and Payload – all standard equipment from the factory to boost your operator efficiencies up to 45%. Combine these features with a compact radius design for working in tight spaces, a new cab, longer maintenance intervals that lower your maintenance costs up to 20%, and a power system that reduces fuel consumption by up to 25% and you have a low-cost-per-unit-of-production excavator that's perfect for medium- to heavy-duty applications. Optional blade allows for faster job site cleaning and leveling as well as better lifting capabilities. Optional heavy counterweight allows you to maximize the performance of this compact radius machine.

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

High Performance Digging and Lifting

- Up to 22% lower fuel consumption. An additional 5% reduction without productivity loss when using Smart mode.
- Compact radius helps you work in tight spaces.
- 10% improved swing torque makes working on slopes easier.
- Increase operating efficiency up to 45% with standard Cat Technologies that lower operator fatigue and your operating costs, including fuel consumption and daily maintenance.
- C4.4 engine that meets emission standards. An aftertreatment system that requires no maintenance or downtime.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for precise digging requirements.
- Match the excavator to the job with power modes; let Smart mode automatically match engine and hydraulic power to digging conditions.
- 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.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Available SmartBoom™ lets the boom freely travel up and down without using any pump flow so operators can focus on stick and bucket work. The benefits are reduced operator stress and reduced fuel consumption. (Not available in all regions. Consult your local dealer on availability.)
- Don't let the temperature stop you from working. The excavator has a standard high-ambient temperature capability of 50° C (122° F) with de-rate and cold start capability of -18° C (0° F). An optional -32° C (-25° F) cold start package is available.

Boost Efficiency and Productivity with Integrated Cat Technologies

- Boost productivity up to 45% versus traditional grading with standard Cat GRADE with 2D system – includes indicate-only and laser capability.
- 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.
- 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.
- Combine Payload with VisionLink[®] and remotely manage your production targets, now with the possibility to download on a USB stick.
- 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 on a second high-resolution 254 mm (10 in) touchscreen monitor. Use 3D designs and GNSS technology to assist the operator in reaching the desired grade faster and accurately.



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Work in Comfort in the All-New Cab

- Choose between Comfort, Deluxe and Premium cabs – all with automatic climate control. (Consult your local dealer on availability in your region.)
- The Comfort cab is equipped with a mechanical suspension seat. The Deluxe seat is heated and air adjustable. The Premium seat is heated and cooled and adjusts automatically.
- Tip up console on the Deluxe and Premium cab improves ingress/egress by approximately 45%.
- Advanced viscous mounts reduce cab vibration up to 50% 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 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 what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor, or with the optional 254 mm (10 in) touchscreen monitor (available on the Deluxe and Premium cabs only), or with the aid of the jog dial control.
- 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.
- Find the tool you need – even if it's hidden beneath overgrowth or debris. The excavator's onboard Bluetooth reader can locate any work tool equipped with Cat asset tracking devices up to a range of 60 m (200 ft).*

Maintenance

- Expect up to 20% less maintenance cost than the 325F. (Savings calculated over 12,000 machine hours.)
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the new ground-level engine oil dipstick; fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- No required maintenance on the Cat Clean Emissions Module.
- Change all fuel filters at a synchronized 1,000 hours – a 100% increase over the 325F fuel filters.
- Expect the new air intake filter with precleaner to last up to 1,000 hours – a 100% increase over the previous 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% longer than previous filter designs.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- S-O-SSM ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.

Safety

- Lift Assist helps you avoid tipping. With visual and auditory alerts, you'll know if your load is within the excavator's safe working range limits.
- Access all service points from ground level – no need for you to climb on top of the excavator.
- The standard ROPS cab 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.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Ground-level shut-off switch stops all fuel to the engine when activated and shuts down the machine.
- A rearview camera and a right-side-view camera** are standard. Upgrade to 360° visibility and you'll easily visualize objects and personnel around the excavator in a single view.
- New service platform design in the front of the machine provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- Optional boom and stick lowering check valves prevent reverse flow, keeping your front linkage securely in place should the hydraulic system unexpectedly lose power.
- Brightly colored seatbelts allow easy recognition of properly utilized safety restraints.

*Not available with the Comfort cab.

**Not available in Korea.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			BOOMS AND STICKS		
Comfort cab: ROPS, mechanical seat suspension		✓	5.7 m (18'8") standard reach boom, 2.9 m (9'6") standard reach stick	✓ ¹	
Deluxe cab: ROPS, standard sound suppression, air-adjustable seat with heat		✓	5.7 m (18'8") heavy duty reach boom, 2.9 m (9'6") heavy duty reach stick		✓ ²
Premium cab: ROPS, advanced sound suppression, auto-adjustable seat with heat and air ventilation		✓	2.8 m + 3.3 m (9'2" + 10'10") VA boom, 2.9 m (9'6") reach stick		✓ ³
High-resolution 203 mm (8 in) LCD touchscreen monitor	✓		¹ North America and Australia/New Zealand only. ² Europe and Japan only. ³ Europe only.		
High-resolution 254 mm (10 in) LCD touchscreen monitor		✓	UNDERCARRIAGE AND STRUCTURES		
CAT TECHNOLOGIES			Standard undercarriage		✓ ¹
Cat Product Link™	✓		Long undercarriage	✓ ²	
Cat GRADE with 2D	✓		600 mm (24") triple grouser shoes		✓
Cat GRADE with Advanced 2D		✓	700 mm (28") triple grouser shoes		✓
Cat GRADE with 3D		✓	790 mm (31") triple grouser shoes		✓
Cat GRADE with Assist	✓		Tie-down points on base frame	✓	
Cat PAYLOAD	✓		4900 kg (10,800 lb) counterweight	✓	
2D E-Fence	✓		8300 kg (18,300 lb) counterweight		✓
Remote Flash capability	✓		Blade with float function ³		✓
ENGINE			¹ Available only in Japan. ² Optional in Japan. ³ Not compatible with 8300 kg (18,300 lb) counterweight.		
Three selectable modes: Power, Smart, Eco	✓		ELECTRICAL SYSTEM		
One-touch low idle with automatic engine speed control	✓		Two 1,000 CCA maintenance free batteries	✓	
Auto engine idle shutdown	✓		Programmable time-delay LED working lights	✓	
50° C (122° F) high-ambient cooling capacity with de-rate	✓		LED chassis light, left-hand/right-hand boom lights, cab lights	✓	
-18° C (0° F) cold start capability	✓		360° lighting		✓
-32° C (-25° F) cold start capability		✓	SERVICE AND MAINTENANCE		
Double element air filter with integrated precleaner	✓		Sampling ports for Scheduled Oil Sampling (S-O-S)	✓	
Reversing electric cooling fans	✓		Ground-level and platform-level engine oil dipsticks	✓	
Biodiesel capability up to B20	✓		Electric refueling pump with auto shut off		✓
HYDRAULIC SYSTEM			SAFETY AND SECURITY		
Boom and stick regeneration circuits	✓		Rearview camera	✓	
Auto hydraulic warm up	✓		Right-side-view camera ¹	✓	
Auto two-speed travel	✓		360° visibility ²		✓
Boom and stick drift reduction valve	✓		Lift Assist	✓	
Boom and stick lowering check valves		✓	Ground-level engine shutoff switch	✓	
Hammer return filter circuit		✓	Right-hand handrail and hand hold	✓	
Combined Tool Control (two pump, one/two way high-pressure flow)		✓	Signaling/warning horn	✓	
Medium-pressure circuit		✓	¹ Not available in Korea. ² Requires 254 mm (10 in) monitor.		
Quick coupler circuit		✓			

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

For additional information and additional regional offerings, refer to the Technical Specifications brochure available at www.cat.com or your Cat dealer.

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Technical Specifications

Engine

Engine Model	Cat C4.4	
Engine Power – ISO 14396	129.4 kW	174 hp
Engine Power – ISO 9249	128.5 kW	172 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.40 L	269 in ³

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (× 2 pumps)	113 gal/min (× 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 000 kPa	4,930 psi
Maximum Pressure – Swing	27 500 kPa	3,988 psi

Swing Mechanism

Swing Speed	11.12 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

Machine Weights

Operating Weight – 600 mm (24") Triple Grouser Shoes	22 500 kg	49,604 lb
<ul style="list-style-type: none"> Standard undercarriage, Reach boom, R2.9 m (9'6") stick, HD 0.90 m³ (1.18 yd³) bucket, 600 mm (24") triple grouser shoes and 4900 kg (10,800 lb) counterweight. 		
Operating Weight – 790 mm (31") Triple Grouser Shoes	28 800 kg	63,493 lb
<ul style="list-style-type: none"> Long undercarriage, Reach boom, R2.9 m (9'6") stick, GD 1.19 m³ (1.56 yd³) bucket, 790 mm (31") triple grouser shoes and 8300 kg (18,300 lb) counterweight. 		

Service Refill Capacities

Fuel Tank	313 L	82.7 gal
Cooling System	11.8 L	3.1 gal
Engine Oil	15 L	4.0 gal
Swing Drive	12 L	3.2 gal
Final Drive (each)	4 L	1.1 gal
Hydraulic System (including tank)	230 L	60.8 gal
Hydraulic Tank	111 L	29.4 gal
DEF Tank	26 L	6.9 gal

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.19 m³ (1.56 yd³)	
Shipping Height (top of cab)	3078 mm	10.1 ft
Handrail Height	3187 mm	10.5 ft
Shipping Length	8888 mm	29.2 ft
Tail Swing Radius	1814 mm	6.0 ft
Track Length to Center of Rollers	3646 mm	12.0 ft
Ground Clearance	469 mm	1.5 ft
Track Gauge	2380 mm	7.8 ft
Transport Width – 600 mm (24") Shoes	2980 mm	9.8 ft
Transport Width – 700 mm (28") Shoes	3080 mm	10.1 ft
Transport Width – 790 mm (31") Shoes	3170 mm	10.4 ft
Counterweight Clearance	1005 mm	3.3 ft

Working Ranges and Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	GD 1.19 m³ (1.56 yd³)	
Maximum Digging Depth	6700 mm	22.0 ft
Maximum Reach at Ground Level	9780 mm	32.1 ft
Maximum Cutting Height	10 970 mm	36.0 ft
Maximum Loading Height	7900 mm	25.9 ft
Minimum Loading Height	2980 mm	9.8 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6520 mm	21.4 ft
Maximum Vertical Wall Digging Depth	4880 mm	16.0 ft
Bucket Digging Force (ISO)	150 kN	33,811 lbf
Stick Digging Force (ISO)	106 kN	23,911 lbf

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.



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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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