

# 325

## HYDRAULIC EXCAVATOR



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**Net Power – ISO 9249**  
**Operating Weight**  
**Maximum Digging Depth**

**128.5 kW (172 hp)**  
**28 500 kg (62,800 lb)**  
**6700 mm (22 ft)**



# 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 help boost operator efficiencies. Combine these features with a compact radius design for working in tight spaces, an ergonomic cab, extended maintenance intervals that help lower your maintenance costs, and a power system that helps reduce fuel consumption and you have a low-cost-per-unit-of-production excavator that's perfect for medium- to heavy-duty applications. An optional blade allows for fast job site cleaning and leveling, and an optional heavy counterweight helps maximize the performance of this compact radius machine.



### LOW FUEL CONSUMPTION

Electro-hydraulic pump and main control valve.

Smart mode.

Auto Reversing E-fan system.

### INCREASED PERFORMANCE

Help boost productivity with standard technology.

Heavy counterweight to maximize lift capability.

Blade float function.

### LOWER MAINTENANCE COSTS

Longer fuel life, hydraulic oil, and air filters.

No pilot or case drain filters.

Ground-level engine oil level check.

# LATEST FEATURES



## Machine Setup Simplification

- At the touch of fingertips and navigating user-friendly icons, the latest operator oriented User Interface (UI) maximizes uptime and gets crews to work without delay. From re-ordering work tool lists to creating new work tool combinations as needed, operators can quickly set up machines and easily access information.
- The interface allows operators to maintain accuracy and makes the most of every second of their shift. Adding the ability to input couplers and attachments into the system makes setting up work tool combinations highly efficient by significantly reducing calibration time. 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.

## Cat® Grade 3D Ready

- The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. This option provides an easier upgrade path for customers who want to add Grade with 3D after their initial purchase. To activate, contact your Cat Dealer to purchase the required 3D software licenses. Licenses can be installed remotely or manually loaded onto the machine.

## Cat Payload and Advanced Payload\*

- Cat Payload provides operators with on-the-go weighing to help them hit load targets and avoid overloading, underloading, or misloading materials. Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing. Combine Payload with VisionLink® Productivity\*\* to analyze jobsites and individual assets for remote management of production targets and key metrics.

*\*Payload technologies are not legal for trade.*

*\*\*VisionLink® subscription required.*

*Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area. Build Number: 07H.*

# HIGH PERFORMANCE DIGGING AND LIFTING



- Smart mode helps reduce fuel consumption by automatically matching engine and hydraulic power to digging conditions.
- Compact radius helps you work in tight spaces.
- High swing torque makes working on slopes easier.
- Increase operating efficiency with standard Cat® technologies that help 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

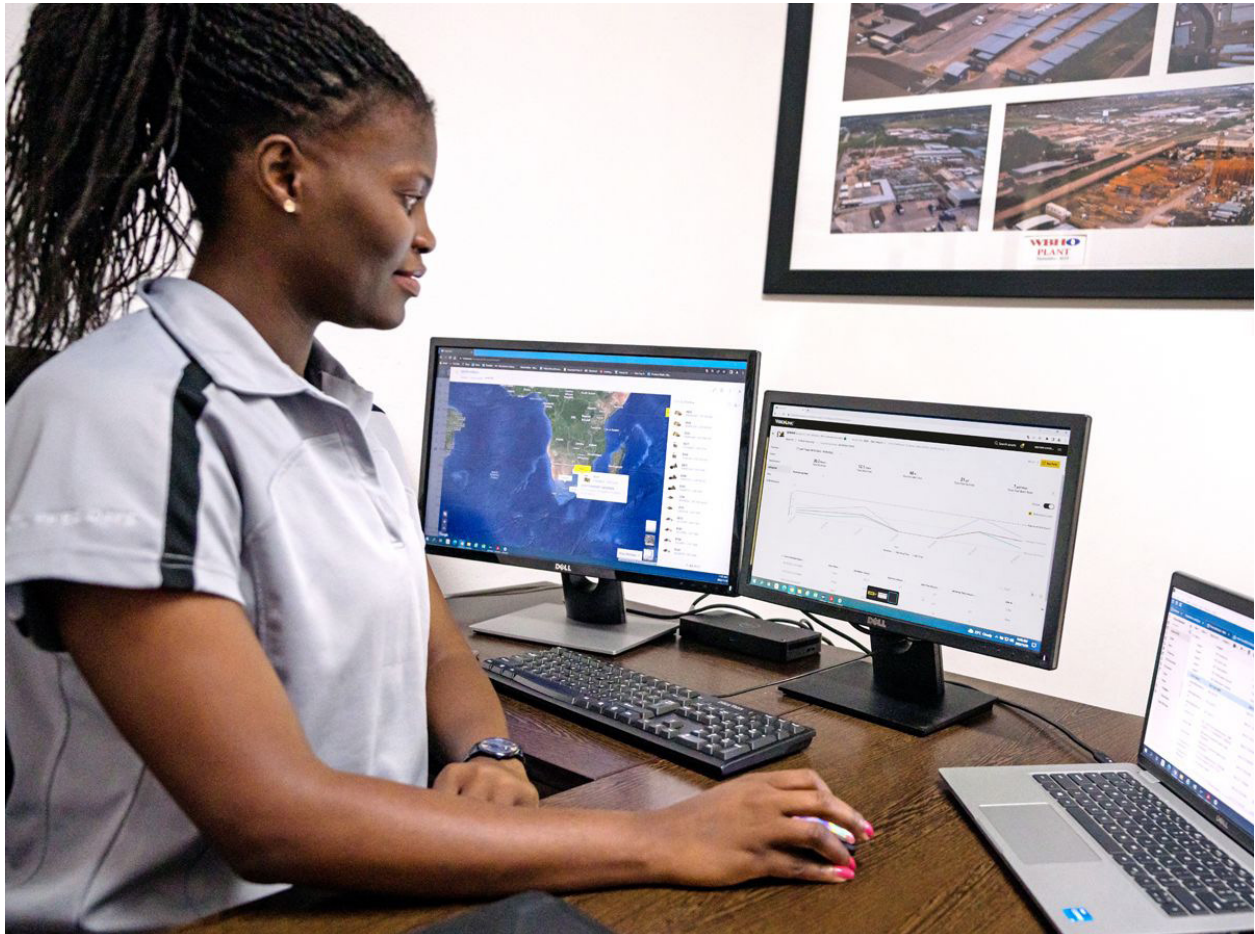


- The latest operator oriented User Interface (UI) has been designed to maximize uptime by allowing operators to easily reorder work tool lists and quickly create new work tool combinations. It also eliminates the need to measure up again when changing Cat® work tool attachments and makes it manageable for a single person to check and adjust for bucket wear.
- Leverage standard Cat Grade with 2D system with indicate-only and laser capability to help boost productivity.
- The Cat Grade 3D Ready option includes all the hardware required for the Grade with 3D system, installed and tested from the factory. Activation requires the purchase of additional 3D software licenses.
- Want a 3D system to improve your digging results? Caterpillar single antenna global navigation satellite system (GNSS) makes it easy by giving you visual and auditory guidance to grade. Plus, you can create and edit designs on the touchscreen monitor while you're on the job. If your application calls for a dual antenna system, it's easy to upgrade.
- Upgrade to our dual antenna GNSS for maximum grading efficiency. The system lets you create and edit designs on the touchscreen monitor while you're on the job, or you can have the plan design sent to the excavator to make your work easier. Plus, you get added benefits of avoidance zones, cut and fill mapping, lane guidance, and augmented reality along with advanced positioning capability.
- All Cat Grade systems are compatible with radios and base stations from Trimble, Topcon, and Leica.
- Standard Grade Assist helps you stay on grade – simply and effortlessly – with single-lever digging.
- Keep the tracks on ground in lifting and hard digging with Boom Assist.
- Set your desired bucket angle and let Bucket Assist automatically maintain the angle in sloping, leveling, fine grading, and trenching applications.
- 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.
- Cat Payload helps you achieve precise load targets to improve your operating efficiency. Pick up a load of material – with a bucket and thumb combination or grapple and clamshell attachments – and get a real-time weight estimate without swinging.
- Advanced Payload is a system upgrade that offers expanded features and capabilities, including custom tags, daily totals, and electronic ticketing.
- Combine Payload with VisionLink® and remotely manage your production targets.
- Optional Operator Coaching is an in-cab system that recognizes specific opportunities for operators to be more productive and prevent unnecessary machine wear and tear.

# TAKE THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

- 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.
- VisionLink Productivity gathers and summarizes machine telematics and jobsite data from all your equipment – regardless of the manufacturer.\* View actionable information such as idle time, fuel burn, location, payload, load counts, total cycles, and more to improve machine efficiency, productivity, and utilization. Access data anywhere via a mobile, tablet, or desktop device – on or off the jobsite.
- Cat® Inspect is a mobile application that allows you to easily perform digital preventative maintenance (PM) checks, inspections, and daily walkarounds. Inspections can easily be integrated with other Cat data systems like VisionLink so you can keep a close eye on your fleet.
- 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.
- 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.
- The Cat PL161 attachment locator allows you to track attachments across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The work tool recognition feature automatically adjusts machine settings based on the selected tool.

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



# WORK IN COMFORT



- 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.
- Get in and out of the cab easier using the tip-up left console available in the deluxe and premium cabs.
- Improved viscous mounts help reduce cab vibration, increasing operator comfort and efficiency.
- 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\*, 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.
- 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.
- Tiltrotator attachments-ours or other brands-work seamlessly with Cat® 2D Grade, Assist, Payload, and E-Fence. With no additional hardware required, all you have to do is simply select "Third Party Tiltrotator System Installation" in the monitor, do the calibration, and get to work.
- 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).\*
- Auto Dig Boost increases power by up to 8% for better bucket penetration, shorter cycle times, and greater payloads.\*\*
- Make moving the excavator much easier with Cat Stick Steer. Simply push a button and use one hand to travel and turn instead of both hands or feet on levers or pedals.
- Need more lift during your shift? Turn on Auto Heavy Lift and get up to 8% more power exactly when you need it for as long as you need it.\*\*

*\*Not available with the Comfort cab.*

*\*\*Auto Dig Boost and Auto Heavy Lift calculations are based on 300 bar (boost pressure) divided by 350 bar (standard pressure).*



# MAINTENANCE



- Expect lower maintenance cost with extended and more synchronized maintenance intervals. All maintenance checkpoints are accessible at ground level, resulting in faster, easier, and safer daily maintenance checks.
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the 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.
- Using Cat genuine oil and filters and doing your typical Scheduled Oil Sampling (S-O-S<sup>SM</sup>) monitoring will extend the current service interval to 1,000 hours, giving you greater uptime to do more work.
- S-O-S ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.
- Expect the latest air intake filter with pre-cleaner to last up to 1,000 hours.
- The latest hydraulic oil filter offers high-quality filtration performance, features anti-drain valves to keep the oil clean when the filter is replaced, and provides an extended 3,000-hour replacement interval for efficiency and convenience.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- Boost productivity with proactive service reminders. The integrated vehicle health management system alerts the operator with step-by-step service guidance along with parts needed so you don't experience any unnecessary downtime.

# SAFETY

- Optional Cat® Detect – People Detection helps protect the most valuable asset on any jobsite – people. The system uses smart cameras with depth sensors to provide the operator with visual and auditory alerts so he or she can take immediate action when a person is too close to the excavator.\*
- Optional Cat Command remote control enables equipment operators to work safely outside the machine when working in hazardous environments. Command offers the choice of handheld Consoles\*\* (line-of-sight) or long-distance virtual Stations (non-line-of-sight). Deep integration with machine systems enables efficiency and productivity by maintaining the use of in-cab technology\*\* features (Grade, Payload, Assist, etc.).
- 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.
- 2D E-Fence prevents the excavator from moving outside of operator-defined set points; the system works with thumb and bucket combinations along with hammer, grapple, and clamshell attachments.
- Access all service points from ground level – no need for you to climb on top of the excavator.
- The standard Rollover Protective Structure (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.
- The latest 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.
- Enhance jobsite safety. Add a swing alarm to alert people when you're rotating from trench to stockpile and back again.

*\*The system may not detect personnel in certain circumstances, such as fast swing speeds, people lying down or crouching, or when cameras are impaired by low light conditions (dusk, dawn, overcast), inclement weather (snow, rain, fog), or other similar conditions. For limitations of use, refer to the operation and maintenance manual.*

*\*\*Operator assist features for the Command Console are not available in the Europe, Australia, and New Zealand.*



- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- The 325 emits lower CO<sub>2</sub> emissions compared to the previous 325F.
- 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.
- Cat Grade technologies combine advanced guidance with optional automated machine control helping you reach grading targets while reducing fuel burn and greenhouse gas emissions by improving efficiency, jobsite productivity, and accuracy.
- Auto Engine Speed Control reduces unnecessary fuel burn and greenhouse gas emissions by allowing the engine to automatically go into idle mode when the machine is not working.
- Cat® Payload for excavators provides on-the-go material weighing which helps reduce fuel burn by improving loading efficiency, jobsite productivity, and eliminating trips to the scale.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- VisionLink displays the CO<sub>2</sub> emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.

- Remote Flash minimizes downtime and maintenance time while keeping your asset running with 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.

*\*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.*



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



## QUICK COUPLERS



## ATTACHMENT TRACKING MADE EASY

The Cat PL161 attachment locator allows you to track attachments across all worksites, helping to reduce the number of lost attachments and plan for attachment maintenance and replacement.

The work tool recognition feature automatically adjusts machine settings based on the selected tool. The PL161 integrates easily into VisionLink for full fleet management of machines and attachments to view location and tracking details.

## GRAPPLES



## TILTROTATOR



## DO HARD-TO-REACH WORK

With 360° rotation and 40° side-to-side tilting action, a Cat tiltrotator will help you get complex work done faster. A new system upgrade from the factory allows the tool to work with Cat 2D Grade, Assist, Payload, and E-Fence. It includes factory-fit joysticks, but uses the standard cab monitor to display the tool and engage its SecureLock™ so you don't need to spend money on an extra monitor. It also works seamlessly with other brands with no additional hardware required. All you have to do is simply select "Third Party Tiltrotator System Installation" in the monitor, do the calibration, and get to work.

## MULTI-PROCESSORS



## HYDRAULIC HAMMERS



## PREVENT HAMMER WEAR AND TEAR

Protect your hammer tool from overheating and rapid wear. Auto hammer stop warns you after 15 seconds of continuous firing and then automatically shuts it off after 30 seconds – all to extend the tool's service life.

# COMPACT RADIUS

SIZED RIGHT FOR TIGHT QUARTERS WORK



## WORK WITH CONFIDENCE

The 325's compact radius design makes it ideal for working in space-restricted areas like road jobs with lane closures and next to buildings or other structures you'd like to keep out of harm's way.

The 325 gives you maximum full upper frame turning radius, while providing solid lifting performance. The reduced full body 360° turning radius makes it ideally suited to work in tight areas, including a single traffic lane.

## WORK WITH POWER

Unlike a standard radius machine, the 325's boom cylinders are positioned in a way that maximizes lifting performance and short turning radius.



# TECHNICAL SPECIFICATIONS

## Engine

Net Power – ISO 9249	128.5 kW	172 hp
Net Power – ISO 9249 (DIN)	175 hp (metric)	
Engine Model	Cat® C4.4	
Engine Power – ISO 14396	129.4 kW	174 hp
Engine Power – ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>
Biodiesel Capability	Up to B20 <sup>1</sup>	
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.	

Net power advertised 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 2,200 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

<sup>1</sup>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 (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).

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

## Hydraulic System

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

## Swing Mechanism

Swing Speed*	11.12 r/min	
Maximum Swing Torque	82 kN-m	60,480 lbf-ft

\*For CE-marked machine default value may be set lower.

## Weights

Operating Weight	28 500 kg	62,800 lb
Long undercarriage, Reach boom, R2.9B1 (9'6") stick, Heavy Duty (HD) 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) bucket, 790 mm (31") HD triple grouser shoes and 8300 kg (18,300 lb) counterweight.		

## Service Refill Capacities

Fuel Tank Capacity	313 L	82.7 gal
Cooling System	11.8 L	3.1 gal
Engine Oil	15 L	4 gal
Swing Drive	5.5 L	1.5 gal
Final Drive – Each	4.5 L	1.2 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	HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )	
Shipping Height – Top of Cab	3080 mm	10.1 ft
Handrail Height	3190 mm	10.5 ft
Shipping Length	8890 mm	29.2 ft
Tail Swing Radius	1810 mm	5.11 ft
Counterweight Clearance	1020 mm	3.3 ft
Ground Clearance	440 mm	1.5 ft
Length to Center of Rollers	3650 mm	12 ft
Track Length	4460 mm	14.7 ft
Track Gauge	2380 mm	7.1 ft
Transport Width – 600 mm (24") Shoes	2980 mm	9.8 ft
Transport Width – 790 mm (31 in) Shoes	3170 mm	10.4 ft

## Working Ranges & Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )	
Maximum Digging Depth	6700 mm	22 ft
Maximum Reach at Ground Level	9780 mm	32.1 ft
Maximum Cutting Height	10 970 mm	36 ft
Maximum Loading Height	7900 mm	25.11 ft
Minimum Loading Height	2980 mm	9.9 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6520 mm	21.5 ft
Maximum Vertical Wall Digging Depth	4880 mm	16 ft
Bucket Digging Force – ISO	150 kN	33,720 lbf
Stick Digging Force – ISO	106 kN	23,830 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 0.8 kg (1.8 lb) of refrigerant which has a CO<sub>2</sub> equivalent of 1.144 metric tonnes (1.261 tons).

# STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional		Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>			<b>ENGINE</b>		
Long undercarriage	✓		Three selectable modes: Power, Smart, Eco	✓	
Tie-down points on base frame	✓		One-touch low idle with auto engine speed control	✓	
Standard undercarriage (Japan only)		✓	Auto engine idle shutdown	✓	
600 mm (24") triple grouser shoes		✓	50° C (122° F) high-ambient cooling capacity without de-rate	✓	
600 mm (24") HD triple grouser shoes		✓	-18° C (0° F) cold start capability	✓	
700 mm (28") triple grouser shoes		✓	Double element air filter with integrated pre-cleaner	✓	
700 mm (28") HD triple grouser shoes		✓	Reversing electric cooling fans	✓	
790 mm (31") triple grouser shoes		✓	-32° C (-25° F) cold start capability		✓
790 mm (31") HD triple grouser shoes		✓	<b>ELECTRICAL SYSTEM</b>		
4900 kg (10,800 lb) counterweight		✓	Two 1,000 CCA maintenance free batteries	✓	
6700 kg (14,771 lb) counterweight		✓	Programmable time-delay LED working lights	✓	
8300 kg (18,300 lb) counterweight		✓	LED chassis light, left-hand/right-hand boom lights, cab lights	✓	
2980 mm (9'9") blade		✓	360° lighting		✓
3170 mm (10'5") blade		✓	<b>SERVICE AND MAINTENANCE</b>		
<b>BOOMS AND STICKS</b>			S·O·S ports	✓	
5.7 m (18'8") Reach boom		✓	Ground-level and platform-level engine oil dipsticks	✓	
5.7 m (18'8") HD Reach boom		✓	Integrated vehicle health management system	✓	
2.8 m + 3.3 m (9'2" + 10'10") VA boom		✓	<b>HYDRAULIC SYSTEM</b>		
2.9 m (9'6") Reach stick		✓	Boom and stick regeneration circuits	✓	
2.9 m (9'6") HD Reach stick		✓	Auto hydraulic warm up	✓	
2.9 m (9'6") Thumb Ready stick		✓	Auto two-speed travel	✓	
<b>CAB</b>			Boom and stick drift reduction valve	✓	
ROPS	✓		Auto dig boost	✓	
Mechanical-suspension seat (Comfort only)	✓		SmartBoom™ (Europe only)		✓
Heated air-suspension seat (Deluxe only)	✓		Hydraulic efficiency monitoring		✓
Heated and ventilated air-suspension seat (Premium only)	✓		Hammer return filter circuit		✓
High-resolution 203 mm (8 in) LCD touchscreen monitor (Comfort only)	✓		<b>SAFETY AND SECURITY</b>		
High-resolution 254 mm (10 in) LCD touchscreen monitor (Deluxe, Premium only)	✓		2D E-Fence	✓	
Operator Protective Guards (OPG)		✓	Auto hammer stop	✓	
Roller rear sunscreen		✓	Rearview camera	✓	
Cat Stick Steer		✓	Right-side-view camera	✓	
<b>CAT TECHNOLOGIES</b>			Lift assist	✓	
VisionLink®	✓		Ground-level engine shutoff switch	✓	
Remote Flash	✓		Lockable disconnect switch	✓	
Remote Troubleshoot	✓		Right-hand handrail and hand hold	✓	
Work tool recognition and tracking (PL161)	✓		Signaling/warning horn	✓	
Cat Grade with 2D	✓		Cat Command remote control		✓
Cat Assist	✓		360° visibility		✓
Cat Payload	✓		Swing alarm		✓
Operator Coaching		✓	Inspection lighting		✓
VisionLink Productivity		✓			
Cat Grade Connectivity		✓			
Cat Grade 2D with Attachment Ready Option (ARO)		✓			
Cat Grade 3D Ready		✓			
Cat Grade with 3D (single or dual GNSS)		✓			
Cat Advanced Payload		✓			
Cat Tiltrotator (TRS) Integration		✓			

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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