

323

HYDRAULIC EXCAVATOR



Net Power – ISO 9249
Operating Weight
Maximum Digging Depth

128.5 kW (172 hp)
25 000 kg (55,100 lb)
6730 mm (22.1 ft)

CAT[®]

323

HYDRAULIC EXCAVATOR

The Cat® 323 delivers power, speed, and high production performance. With more standard technology than previous models, plus reduced fuel and maintenance costs, the Cat 323 has all you need to take your business to the next level.



LOW FUEL CONSUMPTION

A precise combination of low engine speed and a large hydraulic pump deliver top performance, helping to burn less fuel.

LOWER MAINTENANCE COSTS

Extended and synchronized maintenance intervals help you get more done at a lower cost compared to the previous model.

HIGH OPERATING EFFICIENCY

Offering world-class standard factory-equipped technology to help improve operation output, including Cat Grade with 2D, Grade with Assist and Payload.

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

PERFORMANCE AND PRODUCTIVITY



- Match the excavator to the job using power modes including Smart mode that automatically matches engine and hydraulic power to your digging conditions.
- Standard Cat technologies help reduce operator fatigue and maintenance costs, increasing operating efficiency.
- The advanced hydraulic system provides the optimum balance of power and efficiency while giving you the control you need for your precise digging requirements.
- The electronically controlled, turbocharged engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards using a transparent aftertreatment system that requires no operator input or downtime.
- Auxiliary hydraulic options give you the versatility to use a wide range of Cat attachments.
- Don't let the temperature stop you from working. The excavator has a standard high ambient temperature capability of 52° C (125° F) and cold start capability of -18° C (0° F). An optional -32° C (-25° F) cold start package is available.

TECHNOLOGY THAT GETS WORK DONE

- 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.
- Cat Grade with 2D for excavators is an indicate system that helps operators reach grade faster.* Select your target depth and slope and watch the Grade with 2D system use on-board processors and sensors to provide real-time guidance on the distance to grade.
- Cat Grade with 3D for excavators helps operators grade more quickly, accurately, and efficiently, improving productivity.* It incorporates GNSS technology and RTK positioning guidance to streamline the grading process for complex designs commonly encountered on large infrastructure and commercial projects. This system allows operators to work confidently, eliminating guesswork while cutting and filling to precise specifications.
- 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.
- 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.
- Cat Operator Coaching allows operators of all experience levels to improve their efficiency and productivity. With tips and data at their fingertips, operators can track and improve their productivity through everyday work on the jobsite and prevent unnecessary machine wear and tear.

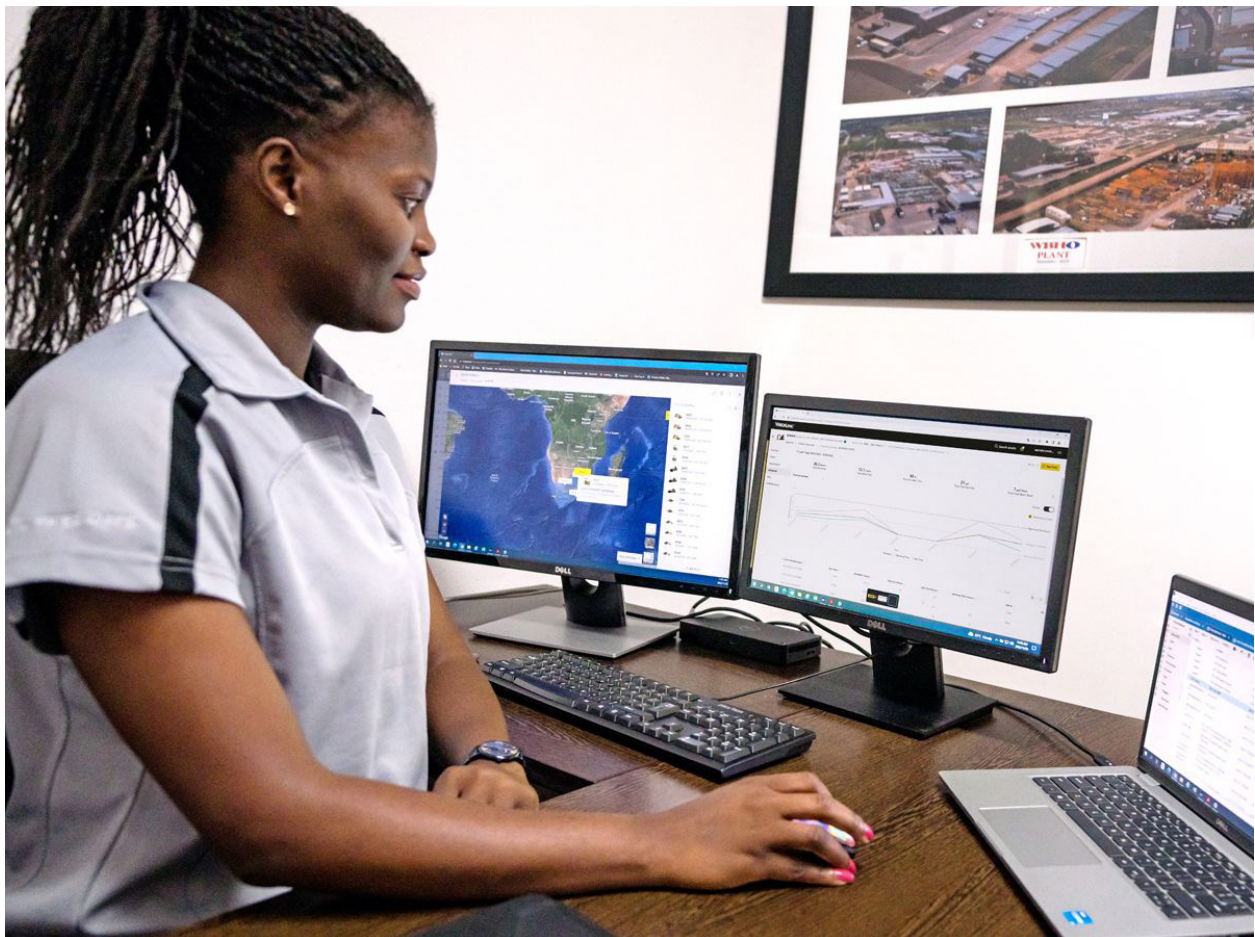
* Compared with traditional grading methods.
Availability may vary by region, consult your Cat dealer for more details.



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.



DESIGNED FOR OPERATORS



- Two cab options – Deluxe and Premium – let you choose the level of comfort you need.
- Enjoy wide spacing between consoles for a more spacious comfortable environment.
- Sit in a wide seat that adjust for operators of all sizes (heated and heated/cooled options are available).
- Get in and out of the cab easier using the tip-up left console.
- Control the excavator comfortably with easy-to-reach controls located in front of you.
- Standard automatic climate control keeps you at the right temperature throughout your shift.
- Advanced viscous mounts reduce cab vibration.
- Stow your gear with plenty of in-cab storage behind the seat, overhead, and in the consoles. A cup holder, document holder, bottle holder, and coat hook are included.
- The standard radio has USB ports and Bluetooth® technology enabled to connect your device and make hands-free calls.

BUILT FOR LONG-TERM PRODUCTION

- Protect hydraulic components in cold weather. The auto warm-up feature speeds hydraulic oil warming in cooler temperatures.
- The fuel system is protected from contamination of fuel by three levels of filtration.
- Bottom guarding protects engine and hydraulic components from damage while swinging and traveling.
- The hydraulic tank with an oval shape designed to improve stress resistance.
- The strong X-structure lower frame carries loads from the excavator's upper structure to the track.
- Travel motor hydraulic lines are routed inside of the frame to protect them from damage.
- The sloped track frame design prevents mud and debris from accumulating and damaging tracks.
- The grease lubricated tracks have grease sealed between the pin and bushing to prevent debris from entering and reducing life.
- The track rollers are rebuildable and sealed to prevent dirt and debris causing wear of internal components.
- A bolt-on track guiding guard helps maintain track alignment while traveling or working on slopes.



SIMPLE TO OPERATE



- Start the engine with the push of a button; use a Bluetooth key fob or Operator ID passcode.
- Trouble cutting through tough material? Auto dig boost gives you an automatic power increase of 8% when you need it for better bucket penetration, shorter cycle times, and greater payloads.*
- Need more lift during your shift? Auto heavy lift gives you up to 8% more power exactly when you need it for as long as you need it.*
- 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.
- 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.
- Navigate quickly on the high-resolution monitor.
- 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.
- Use the in-monitor QR code to learn about machine and technology features through a full suite of how-to videos.
- 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.
- The Cat PL161 attachment locator is a Bluetooth device designed to let users know where their attachments are across all worksites, reduce the number of lost attachments, and plan for attachment maintenance and replacement. The PL161 integrates easily into VisionLink for full fleet management of machines and attachments from one smartphone or tablet dashboard to view location and tracking details.
- Save more time and energy with the available work tool recognition feature. A simple shake of the attached tool confirms its identity and ensures all the attachment settings (pressure, flow, and dimensions) are correct so you can work quickly and efficiently.**

* Auto Dig Boost and Auto Heavy Lift calculations are based on 380 bar (boost pressure) divided by 350 bar (standard pressure). Does not apply to long reach excavators.

** Automated attachment settings must be enabled within each machine configuration. Consult your Cat dealer for details.

LOWER MAINTENANCE COSTS

- Extended maintenance intervals help reduce maintenance costs over the Cat 323F excavator.
- 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.
- Reversing electric cooling fans make it easy to clean radiator, oil coolers, and condensers.
- The latest engine air cleaner with integrated pre-cleaner surpass radial seal air cleaners' lifespan.
- 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.
- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Check engine oil level quickly and safely with the engine oil dipstick located on ground level.
- Scheduled Oil Sampling (S-O-SSM) ports with extended sampling intervals are on ground level, simplifying maintenance and allowing for quick easy extraction of samples for fluid analysis.
- Using Cat genuine oil and filters and doing your typical S-O-S monitoring will extend the current service interval to 1,000 hours, giving you greater uptime to do more work.



SAFELY HOME EVERY DAY



- 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.).
- 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 100% of daily maintenance points from ground level – no need for you to climb on top of 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.
- Rear and right-hand-sideview cameras are standard. Upgrade to 360° visibility and see under the excavator, allowing the operator to easily visualize objects and personnel around the excavator in a single view.
- Right-hand service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping. The handrails comply with ISO 2867:2011 requirements.
- Make service work easier with optional inspection lighting. With the flip of a switch, lights will illuminate the engine, pump, battery, and radiator compartments to enhance visibility.
- 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 Europe, Australia, and New Zealand.

SUSTAINABILITY

- The Cat C7.1 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- The 323 emits lower CO₂ emissions compared to the previous 323F.
- 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 VisionLink displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- 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.
- 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.
- A well-trained operator is worth the investment. Skilled operators benefit your bottom line by maximizing productivity, avoiding costly downtime, and maintaining jobsite safety – which can help to improve fuel efficiency and reduce greenhouse gas emissions.

* 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).

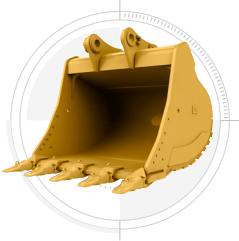
** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.



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



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.

GRAPPLES



TILTROTATOR



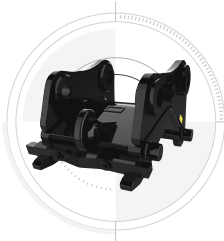
DO HARD-TO-REACH WORK

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.

SECONDARY PULVERIZERS



QUICK COUPLERS



VIBRATORY PLATE COMPACTORS

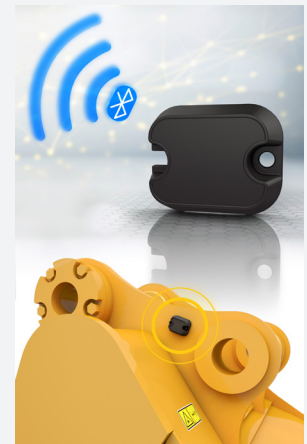


MULTI-PROCESSORS



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.

TECHNICAL SPECIFICATIONS

Engine

Net Power – ISO 9249	128.5 kW	172 hp
Net Power – ISO 9249 (DIN)	175 hp (metric)	
Engine Model	Cat C7.1	
Engine Power – ISO 14396	129.4 kW	174 hp
Engine Power – ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel Capability	Up to B20 ¹	
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.

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).

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

Hydraulic System

Main System – Maximum Flow	429 L/min (113 gal/min)	
Maximum Pressure – Equipment	35 000 kPa	5,075 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,988 psi

Swing Mechanism

Swing Speed*	11.25 r/min	
Maximum Swing Torque	82 kN-m	60,300 lbf-ft

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

Weights

Operating Weight	25 000 kg	55,100 lb
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Long undercarriage, Reach boom, R2.9 (9'6"), Reach stick, Heavy Duty (HD) 1.38 m³ (1.81 yd³) bucket, 790 mm (31") HD triple grouser track shoes and 5,400 kg (11,900 lb) counterweight.

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive – Each	6 L	1.6 gal
Final Drive – Each	5 L	1.3 gal
Hydraulic System – Including Tank	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
Diesel exhaust fluid (DEF) Tank	41 L	10.8 gal

Dimensions

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	HD 1.30 m ³ (1.71 yd ³)	
Shipping Height – Top of Cab	2960 mm	9.7 ft
Handrail Height	2950 mm	9.7 ft
Shipping Length	9530 mm	31.3 ft
Tail Swing Radius	2830 mm	9.3 ft
Counterweight Clearance	1050 mm	3.4 ft
Ground Clearance	470 mm	1.5 ft
Track Length	4450 mm	14.6 ft
Length to Center of Rollers	3650 mm	12 ft
Track Gauge	2380 mm	7.8 ft
Transport Width	3170 mm	10.4 ft

Working Ranges & Forces

Boom	Reach 5.7 m (18'8")	
Stick	Reach 2.9 m (9'6")	
Bucket	HD 1.30 m ³ (1.71 yd ³)	
Maximum Digging Depth	6730 mm	22.1 ft
Maximum Reach at Ground Level	9870 mm	32.4 ft
Maximum Cutting Height	9450 mm	31 ft
Maximum Loading Height	6480 mm	21.3 ft
Minimum Loading Height	2160 mm	7.1 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6560 mm	21.5 ft
Maximum Vertical Wall Digging Depth	5740 mm	18.8 ft
Bucket Digging Force – ISO	140 kN	34,308 lbf
Stick Digging Force – ISO	107 kN	26,094 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 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
5400 kg (11,900 lb) counterweight	✓	
Tie-down points on base frame	✓	
600 mm (24") single grouser shoes		✓
600 mm (24") HD double grouser shoes		✓
600 mm (24") HD triple grouser shoes		✓
700 mm (28") HD triple grouser shoes		✓
790 mm (31") HD triple grouser shoes		✓
900 mm (35") HD triple grouser shoes		✓
4200 kg (9,300 lb) counterweight		✓
BOOMS AND STICKS		
5.7 m (18'8") Reach boom		✓
5.7 m (18'8") HD Reach boom		✓
2.7 m (8'10") stub + 3.3 m (10'10") fore, Variable Angle boom		✓
8.85 m (29'0") Super Long Reach boom		✓
2.5 m (8'2") Reach stick		✓
2.9 m (9'6") Reach stick		✓
2.5 m (8'2") HD Reach stick		✓
2.9 m (9'6") HD Reach stick		✓
3.9 m (12'10") Reach stick		✓
2.9 m (9'6") HD Thumb Ready Reach stick		✓
6.28 m (20'7") Super Long Reach stick		✓
CAT TECHNOLOGY		
VisionLink®	✓	
Remote Flash	✓	
Remote Troubleshoot	✓	
Work tool recognition and tracking (PL161)	✓	
Cat Grade with 2D	✓	
Cat Assist	✓	
Cat Payload	✓	
VisionLink Productivity		✓
Operator Coaching		✓
Cat Grade with 2D with Attachment Ready Option (ARO)		✓
Cat Grade with 3D (single or dual GNSS)		✓
Cat Grade 3D Ready		✓
Cat Grade Connectivity		✓
Cat Advanced Payload		✓
Cat Tiltrotator (TRS) integration		✓
CAB		
Rollover protective structure (ROPS)	✓	
Air-adjustable seat with heat (Deluxe only)	✓	
Auto-adjustable seat with heat and air ventilation (Premium only)	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓	
Operator Protective Guards (OPG)		✓

	Standard	Optional
ENGINE		
Cat 7.1 single turbo diesel engine	✓	
Three selectable power modes	✓	
Automatic engine speed control	✓	
46° C (115° F) high-ambient cooling capacity (Europe only)	✓	
52° C (125° F) high-ambient cooling capacity	✓	
-18° C (0° F) cold start capability	✓	
Double element air filter with integrated pre-cleaner	✓	
Reversing electric cooling fans	✓	
-32° C (-25° F) cold start capability		✓
ELECTRICAL SYSTEM		
Two 1,000 CCA maintenance-free batteries	✓	
Programmable time-delay LED working lights	✓	
LED chassis light, left-hand/right-hand boom lights, cab lights	✓	
SERVICE AND MAINTENANCE		
S-O-S ports	✓	
Ground-level and platform-level engine oil dipsticks	✓	
Integrated vehicle health management system	✓	
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Auto hydraulic warm up	✓	
Auto two-speed travel	✓	
Boom and stick drift reduction valve	✓	
SmartBoom™ (Europe only)		✓
Hammer return filter circuit		✓
Advanced tool control (two pump, one/two way high-pressure flow)		✓
Hydraulic efficiency monitoring		✓
Medium-pressure circuit		✓
Quick coupler circuit for Cat Pin Grabber		✓
SAFETY AND SECURITY		
2D E-Fence	✓	
Auto hammer stop	✓	
Rearview camera	✓	
Right-side-view camera	✓	
Lockable disconnect switch	✓	
Ground-level engine shutoff switch	✓	
Right-hand handrail and handhold	✓	
Signaling/warning horn	✓	
Cat Command (remote control)		✓
360° visibility		✓
Inspection lighting		✓

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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