



Log Loader

General Forestry

Cat[®] 548

GF/LL Forest Machines

The new 548 next generation forest machine offers superior performance and exceptional comfort and safety to help you produce extraordinary results.

Superior Performance

- The Cat[®] C7.1 twin turbo engine offers 30 percent more power* and can run on biodiesel and other renewable fuels.
- Smart mode helps reduce fuel consumption by automatically matching engine and hydraulic power to working conditions.
- Pick and place logs with precision and power with the all-new electrohydraulic control system.
- Heavy lift mode and 30 percent more swing torque* help you move big logs with confidence.
- Bigger boom cylinders boost Log Loader lift capability by 7 percent*.
- Get to work faster with a 10 percent increase in travel speed.*
- Auxiliary hydraulic options let you use Cat grapples and a variety of other attachments.
- Work in extreme environments with standard high-ambient capability of 52° C (126° F) and cold start capability of -32° C (-25° F).

Unmatched Operator Comfort

- Forestry cab comes in a choice of rear entry or side entry with tilt-up console plus 25 percent more space*.
- New dual HVAC system keeps operators comfortable in either cold or warm weather.
- A wide heated and cooled air-suspension seat makes year-round work more pleasant.
- All controls are in front of you within easy reach to reduce twisting and turning and keep you focused on the work area.
- Tilting cab risers – 559 mm (22"), 1219 mm (48"), and 1829 mm (72") – are available to help keep you on top of the work.
- Stow your gear with in-cab storage behind the seat and in the consoles.
- Use the standard radio's USB ports and Bluetooth[®] technology to connect personal devices and make hands-free calls.

Simple Operation

- Start the engine with a push button; use a Bluetooth key fob or the unique Operator ID function.
- Use Operator ID to program your attachment functions, joystick response, and engine power mode; it will remember your settings each time you go to work.
- Make operating easier with the touch of a joystick button. An optional auxiliary relay allows you to power on or turn off a CB radio or other attachments without taking your hands off the joysticks.
- Make moving the machine much easier with optional 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.
- The engine's regeneration system functions automatically with no operator input or interruption to work.
- Navigate easily on the high-resolution touchscreen monitor.
- The available Cat PL161 attachment locator helps you find tools you need up to a range of 60 m (200') – even if it's hidden beneath overgrowth or debris.
- Not sure how a function works or how to maintain the machine? Always have the operator's manual at your fingertips in the touchscreen monitor.

Versatile Configurations

- General Forestry configuration is available with several stick and hydraulic options so you can equip it for road building, grapple work, or processing.
- Log Loader configuration is ideal for truck loading, Butt-n-Top loading, power clam applications, and millyard work.
- Rugged, reliable, simple-to-service Cat forestry grapples range in size from 1320 mm (52") to 1524 mm (60").
- Special Tri Link shoes are available for lower ground pressure and extra flotation in soft, wet underfoot conditions.

*All comparisons to 2021 model year 548.

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Easy Maintenance

- Expect up to 15 percent lower maintenance cost and consume 50 fewer filters than the previous model*. (Savings calculated over 12,000 machine hours.)
- The diesel particulate filter requires no maintenance.
- Replace fuel filters at 1,000 hours – twice the interval from the previous filters.
- Get improved filtration and longer 3,000 service life with the new hydraulic oil return filter – 50 percent longer service than previous filter designs.
- Boost productivity with proactive service reminders. The new 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.
- The high-efficiency cooling fan runs only when needed; program intervals so the fan automatically reverses to keep cores clean without interrupting your work.
- Scheduled Oil Sampling (S-O-SSM) ports simplify maintenance and allow for quick, easy extraction of fluid samples for analysis.
- Standard Product Link™ provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through VisionLink online interface, helping you improve jobsite efficiency with lower operating costs.
- Remote troubleshoot** connects you to a dealer service pro to help solve your problem and quickly get you to work.
- Remote flash** works around your scheduled to ensure your machine's software is up to date for optimal performance.

**Requires cell coverage.

Enhanced Safety

- The cab meets the following standards:
Rollover Protective Structure (ROPS)/Falling Object Protective Structure (FOPS)/Operator Protective Structure (OPS)/
Tip Over Protective Structure (TOPS)
ISO 8082-2:2011
ISO 8083:2006 11,600J
ISO 10262:1998 Level II
ISO 8084:2003
SAE J1356 MAR2013
WCB G603 March 2021
OR-OSHA 437-007-775(14)
- With a flip of a switch, the new Cat easy lock cab riser on the rear-entry Log Loader with 1219 mm (48") and 1829 mm (72") tilting risers makes tilting the cab for transport simple and safe without the use of hand tools. A light option enhances visibility inside the entire riser compartment.
- Access most routine maintenance points at ground level.
- New right-hand steps provide easy, safe, and quick access to upper service platform; the steps and service platform use anti-skid punch plate to prevent slipping.
- Larger 32 mm (1¼") polycarbonate front window, smaller cab pillars, and a flat engine hood improve visibility by 50 percent*.
- Standard rearview camera enhances jobsite visibility; a sideview camera is optional.
- The monitor's slope and grade indicator shows you the machine's position so you can optimize its performance.
- Add an optional swing alarm to alert people when you're rotating the machine.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			CAB (continued)		
5.9 m (19'6") Reach boom – General Forestry		✓	Integrated joysticks	✓	
6.55 m (21'6") boom – Log Loader		✓	Tilt-up left-side console (side-entry cab only)	✓	
2.95 m (9'8") Reach stick		✓	High-resolution touchscreen monitor	✓	
3.71 m (12'2") goose neck stick		✓	Bluetooth integrated radio (including USB, aux port and microphone)	✓	
3.76 m (12'4") under/under stick		✓	12V DC outlets	✓	
4.05 m (13'3") over/under stick		✓	Keyless push-to-start engine control	✓	
4.05 m (13'3") power clam		✓	Automatic bi-level air conditioner	✓	
CAB			LED dome and floor lights	✓	
ROPS Forestry cab with polycarbonate windows	✓		Windshield wiper and washer	✓	
4-point harness seat belt	✓		Behind seat storage	✓	
Rear entry		✓	CB radio mounts		✓
Side entry		✓	Retractable sunshade	✓	
559 mm (22") tilting riser		✓	Cat Stick Steer		✓
1219 mm (48") tilting riser		✓	Auxiliary relay		✓
1829 mm (72") tilting riser		✓			
Heated and cooled seat with air-adjustable suspension	✓				

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
CAT® TECHNOLOGIES			SAFETY AND SECURITY		
Cat Product Link™	✓		Caterpillar One Key security system	✓	
Remote Services capability	✓		Easy lock cab tilting system (rear-entry cab only)		✓
ELECTRICAL SYSTEM			Cab riser light		✓
Maintenance-free 1,000 CCA batteries (x4)	✓		Inspection lighting		✓
Centralized electrical disconnect switch	✓		Lockable service doors	✓	
LED chassis, boom, and cab lights	✓		Lockable external tool/storage box	✓	
Premium lighting – General Forestry – six additional LED lights		✓	Lockable fuel cap and hydraulic tank	✓	
Premium lighting – Log Loader – 10 additional LED lights		✓	Service platforms with anti-skid plate and countersunk bolts	✓	
ENGINE			Right-hand handrail and handhold	✓	
Electric fuel priming pump	✓		Signaling/warning horn	✓	
Cold start package with block heater and ether assist		✓	Ground-level secondary engine shutoff switch	✓	
Three selectable modes: Power, Smart, Eco	✓		Rearview camera	✓	
Automatic engine speed control	✓		Right-hand sideview camera		✓
Automatic engine idle shutdown	✓		Travel alarm	✓	
Up to 4500 m (14,764 ft) altitude capability	✓		Swing alarm		✓
52° C (126° F) high-ambient cooling capacity	✓		SERVICE AND MAINTENANCE		
-32° C (-25° F) cold start capability	✓		Integrated vehicle health management system		✓
Hydraulic reverse fan	✓		Side-entry service platform	✓	
Two-stage fuel filter system	✓		Left- and right-side fuel fill locations	✓	
Double element air filter with integrated pre-cleaner	✓		Grouped location for engine oil and fuel filters	✓	
HYDRAULIC SYSTEM			S.O.S SM sampling ports	✓	
Boom and stick regeneration circuits	✓		UNDERCARRIAGE AND STRUCTURES		
Boom and stick drift reduction valve	✓		High Wide undercarriage	✓	
Electronic main control valve	✓		Grease lubricated track with positive pin retention	✓	
Automatic hydraulic oil warmup	✓		Catwalks	✓	
Automatic swing parking brake	✓		Tie down points	✓	
High performance hydraulic return filter	✓		Counterweight fuel tank	✓	
Automatic two speed travel	✓		900 mm (36") triple grouser Tri Link shoes		✓
Bio hydraulic oil capability	✓		850 mm (33") triple grouser shoes		✓
High torque swing drive	✓		700 mm (28") double and single grouser shoes		✓
Swing cushion valve	✓		Heavy-duty track rollers	✓	
Tool control software	✓		Heavy-duty travel motor guards	✓	
Medium pressure circuit		✓	Heavy-duty bottom guards	✓	
			Track guiding guards	✓	
			High drawbar final drives	✓	
			Heavy-duty recoil springs	✓	
			Heavy-duty hydraulic swivel	✓	
			Heavy-duty hydraulic swivel guard	✓	

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Technical Specifications

Engine		
Engine Model	Cat® C7.1TTA	
Engine Power – ISO 9249:2007	202.4 kW	271 hp
Engine Power – ISO 14396:2002	205.0 kW	275 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.1 L	433.3 in³

- *Meets U.S. EPA Tier 4 Final, EU Stage V emission standards.
- Power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system, and alternator.
- Rated speed at 1,900 rpm.

Drive		
Maximum Travel Speed	4.8 km/h	3.0 mph
Maximum Drawbar Pull	295 kN	66,319 lbf

Hydraulic System		
Main System – Maximum Flow – Implement	502 L/min	132.6 gal/min
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum System Pressure – Heavy Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	28 000 kPa	4,061 psi

Swing Mechanism		
Swing Speed	8.1 rpm	
Maximum Swing Torque	136 kN·m	100,308 lbf·ft

Weights		
Operating Weight – General Forestry	37 800 kg	83,300 lb
• High Wide undercarriage, Reach boom, R2.95 m (9'8") Reach stick, 700 mm (28") double grouser shoes, no bucket.		
Operating Weight – Log Loader, Over/Under	40 700 kg	89,730 lb
• High Wide undercarriage, Log Loader boom, 4.05 m (13'3") Over/Under stick with live heel, 700 mm (28") double grouser shoes, no grapple.		

Service Refill Capacities		
Fuel Tank Capacity	990 L	262 gal
Cooling System	38.0 L	10 gal
Engine Oil (with filter)	25 L	7 gal
Swing Drive	13.5 L	4 gal
Final Drive (each)	9.5 L	3 gal
Hydraulic System (including tank)	348 L	92 gal
Hydraulic Tank	185 L	49 gal
Diesel Exhaust Fluid (DEF) Tank	41 L	11 gal

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant which as a CO₂ equivalent of 1.430 metric tonnes.

Working Ranges

General Forestry			
Processor			
Reach 5.9 m (19'4") boom, drop nose 3.71 m (12'2") processor stick			
Maximum Reach at Ground Level	8980 mm	29'6"	
Road Builder			
Reach 5.9 m (19'4") boom, Reach 2.95 m (9'8") stick, 1.54 m³ (2.01 yd³) HD bucket			
Maximum Reach at Ground Level	10 040 mm	32'11"	
Log Loader			
Under/Under			
Log Loader 6.55 m (21'6") boom, under/under 3.76 m (12'4") stick			
Maximum reach at ground level	11 440 mm	37'6"	
Over/Under			
Log Loader 6.55 m (21'6") boom, over/under 4.05 m (13'3") stick			
Maximum reach at ground level	12 350 mm	40'6"	
Power Clam			
Log Loader 6.55 m (21'6") boom, power clam 4.05 m (13'3") stick			
Maximum reach at ground level	10 480 mm	34'5"	

Dimensions

	General Forestry		Log Loader	
Boom	Reach 5.9 m (19'4")		6.55 m (21'6")	
Stick	Reach 2.95 m (9'8")		Over/Under 4.05 m (13'3")	
Stick	Drop Nose 3.71 m (12'2")		Under/Under 3.76 m (12'4")	
Stick	—		Power Clam 4.05 m (13'3")	
Shipping Height (cab tilted)	3500 mm	11'6"	3480 mm	11'5"
Handrail Height	3500 mm	11'6"	3500 mm	11'6"
Shipping Length*				
Processor – no attachment	12 570 mm	41'3"	—	—
Road Builder – with bucket	11 920 mm	39'1"	—	—
Under/Under – no grapple	—	—	15 120 mm	49'7"
Over/Under – no grapple	—	—	15 210 mm	49'11"
Power Clam – no grapple	—	—	14 060 mm	46'2"
Tail Swing Radius	3530 mm	11'7"	3530 mm	11'7"
Counterweight Clearance	1500 mm	4'11"	1500 mm	4'11"
Ground Clearance	780 mm	2'7"	780 mm	2'7"
Track Length	5050 mm	16'7"	5050 mm	16'7"
Length to Center of Rollers	4020 mm	13'2"	4020 mm	13'2"
Track Gauge	2790 mm	9'2"	2790 mm	9'2"
Transport Width – 700 mm (28") shoes	3530 mm	11'7"	3580 mm	11'9"

*Boom and stick stretched out.

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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