

PRODUCT SPECIFICATIONS FOR 950



ENGINE

Maximum Power - 2,100 rpm - ISO 14396	249 HP
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Engine Model	Cat C7.1
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Maximum Gross Power - 2,100 rpm - SAE J1995	253 HP
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Maximum Net Power - 2,100 rpm - ISO 9249	231 HP
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Engine Torque @ 1,300 rpm - ISO 14396:2002	908 ft·lbf
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Gross Torque @ 1,300 rpm - SAE J1995:2014	916 ft·lbf
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Maximum Net Torque - 1,300 rpm - ISO 9249	863 ft·lbf
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Displacement	427 in ³
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Note	Cat engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
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Note (1)	The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner, and aftertreatment.
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Note (2)

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 lowercarbon intensity fuels up to: • 20% biodiesel FAME (fatty acid methyl ester)* • 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. * Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.

WEIGHTS

Operating Weight

42461 lb

Note

Weight based on a machine configuration with with Parallel lift z-bar linkage, Bridgestone 23.5R25 VJT L3 radial tires, full fluids, operator, standard counterweight, ride control cold start, roading fenders, Product Link, front manual differential/open rear axles, power train guard, secondary steering, sound suppression, and a 3.1 m³ (4.1 yd³) general purpose bucket with BOCE.

TRANSMISSION

Forward - 1

4.3 mile/h

Forward - 2

7.5 mile/h

Forward - 3

12 mile/h

Forward - 4

16 mile/h

Forward - 5

24.5 mile/h

Reverse - 1

4.3 mile/h

Reverse - 2

7.5 mile/h

Reverse - 3

16 mile/h

Note

Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 mm (31 in) roll radius

SOUND

Operator Sound Pressure Level - ISO 6396:2008	70 dB(A)
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Exterior Sound Power Level - ISO 6395:2008	70 dB(A)
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Operator Sound Pressure Level - ISO 6396:2008 ¹	69 dB(A)
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Exterior Sound Power Level - ISO 6395:2008 ¹	107 dB(A)
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Note	¹ Including countries that adopt the EU and UK Directives.
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Note (1)	¹ Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701
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AIR CONDITIONING SYSTEM

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.6 kg (3.5 lb) of refrigerant which has a CO2 equivalent 2.288 metric tonnes (2.522 tons).
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OPERATING SPECIFICATIONS

Static Tipping Load - Full 40° Turn - With Tire Deflection	24694 lb
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Static Tipping Load - Full 40° Turn - No Tire Deflection	26369 lb
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Breakout Force	40690 lbf
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Note	For a machine configuration as defined under "Weight."
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Note (1)	Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing. Service Refill Capaciti
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SERVICE REFILL CAPACITIES

Fuel Tank	68.6 gal (US)
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DEF Tank	4 gal (US)
Cooling System	14.3 gal (US)
Crankcase	5.5 gal (US)
Transmission	11.4 gal (US)
Differential - Final Drives - Front	11.4 gal (US)
Differential - Final Drives - Rear	11.4 gal (US)
Hydraulic Tank	25.6 gal (US)

HYDRAULIC SYSTEM

Implement System - Maximum Pump Output at 2,340 rpm	85 gal/min
Implement System - Maximum Operating Pressure	4250 psi
Hydraulic Cycle Time - Total	9.1 s

DIMENSIONS - STANDARD LIFT

Height - Top of Hood	8.83 ft
Height - Top of ROPS	11.33 ft
Ground Clearance	1.08 ft
Wheel Base	11 ft
Overall Length - Without Bucket	23.08 ft
Hinge Pin Height at Carry Height	2 ft

Hinge Pin Height at Maximum Lift	13.08 ft
Lift Arm Clearance at Maximum Lift	10.67 ft
Rack Back - Maximum Lift	59 °
Rack Back - Carry Height	49 °
Width over Tires (Loaded)	9.33 ft
Tread Width	7 ft
Note	All dimensions are approximate and based on machine equipped with 3.1 m3 (4.1 yd3) general purpose bucket with BOCE and Bridgestone 23.5R25 VJT L3 radial tires.

DIMENSIONS - HIGH LIFT

Height - Top of Hood	8.83 ft
Height - Top of ROPS	11.33 ft
Ground Clearance	1.08 ft
Wheel Base	11 ft
Overall Length - Without Bucket	24.58 ft
Hinge Pin Height at Carry Height	2.5 ft
Hinge Pin Height at Maximum Lift	14.75 ft

Lift Arm Clearance at Maximum Lift	11.83 ft
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Rack Back - Maximum Lift	56 °
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Rack Back - Carry Height	49 °
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Width over Tires (Loaded)	9.33 ft
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Tread Width	7 ft
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Note	All dimensions are approximate and based on machine equipped with 3.1 m3 (4.1 yd3) general purpose bucket with BOCE and Bridgestone 23.5R25 VJT L3 radial tires.
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950 STANDARD EQUIPMENT

NOTE

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

ELECTRICAL

Lights: halogen, 4 work lights, 2 front roading lights with turn signals, 2 rear-vision lights
Starting and charging system, 24V
Starter, electric, heavy duty

HYDRAULICS

Steering system, load sensing with dedicated variable displacement piston pump
Implement system, load sensing with variable displacement piston pump
Oil sampling valves, Cat XT™ hoses
Ride control, dual accumulators

LINKAGE

*Not all configurations available in all regions, subject to availability
Kickouts: lift and tilt
Parallel Lift, Z-bar*

MONITORING SYSTEM

Primary touchscreen monitor (Cat Payload, quad screens, machine settings & messages)
Front dash with analog gauges, LCD display, and warning lights

ON-BOARD TECHNOLOGIES

Cat Payload scale
Application Profiles
Operator ID & machine security
Autodig with Auto Set Tires
Job Aids

OPERATOR ENVIRONMENT

Cab, pressurized, sound suppression
HMU steering wheel
Visibility: mirrors, rear-vision camera
Window, front, laminated
Window cleaning platform, front
Touchscreen display
Air conditioner, heater, defroster (auto temp, fan)
EH implement controls, parking brake
Sun visor, front and rear, retractable
Seat, cloth, air suspension

POWER TRAIN

Fuel-water separator and secondary fuel filter
Service brakes, hydraulic, fully enclosed wet disc, wear indicators, Integrated Braking System (IBS)
Engine, air precleaner
Park brake, caliper on front axles, spring applied–pressure released
Transmission, countershaft, automatic powershift
Axles, front differential lock
Torque converter with lock-up
Electric fuel priming pump
Cat C7.1 engine

950 OPTIONAL EQUIPMENT

NOTE

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

ADDITIONAL EQUIPMENT

Guards: power train, crankcase, cab, cylinders, rear
Cat Autolube system
Fenders, extensions or roading
Wheel chocks
Toolbox
Secondary steering system, electrical**
**Standard or optional depending on region. Consult your dealer.
Biodegradable hydraulic oil
High-speed oil change system

Rear cab access

ELECTRICAL

Cold start, 120V or 240V

Warning beacon

Lights: LED

Reversing strobe lights

HYDRAULICS

3rd and 4th auxiliary functions with ride control

Quick coupler control

LINKAGE

*Not all configurations available in all regions, subject to availability

Standard lift, Z-bar*

High Lift available with both linkages*

ON-BOARD TECHNOLOGIES

Cat Payload Printer

Controls Help and eOMM

Cat Advanced Payload

OPERATOR ENVIRONMENT

Mirrors, heated

Dedicated rearview screen

Entertainment radio

Seat, leather/cloth, air suspension, heated/cooled

Full cab window guard

Windows, front, heavy duty

Steering, joystick

Cat Detect rear radar system

CB radio ready

Door, remote opening system

Multiview (360°) vision system

Seat, suede/cloth, air suspension, heated

POWER TRAIN

Turbine, air precleaner

Axles, ecology drains, AOC ready, extreme temperature seals

Radiator, high debris

Axles, auto differential locks front and rear

Axles, oil cooler

Cooling fan, reversible

SPECIAL CONFIGURATIONS

Tunneling***

Corrosion resistant

Auxiliary Counterweight

***Japan only

Waste and industrial

Forestry