

Product Specifications For 950



Engine

Engine Power - 2,100 rpm ISO 14396:2002	249 hp
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Engine Power - 2,100 rpm ISO 14396:2002	253 hp (metric)
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Engine Model	Cat® C7.1
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Gross Power - 2,100 rpm SAE J1995:2014	253 hp
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Gross Power - 2,100 rpm SAE J1995:2014	257 hp (metric)
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Net Power - 2,100 rpm ISO 9249:2007, SAE J1349:2011	235 hp (metric)
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Engine Torque - 1,300 rpm ISO 14396:2002	908 lbf·ft
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Gross Torque - 1,300 rpm SAE J1995:2014	916 lbf·ft
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Net Torque - 1,300 rpm ISO 9249:2007, SAE J1349:2011	863 lbf·ft
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Displacement	427 in ³
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Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
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Biodiesel Capability	Up to B20 ¹
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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.

Note (2) ¹Cat engines are compatible with diesel fuel blended with following lower carbon 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. *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.

Weights

Operating Weight 42461 lb

Note Weight based on a machine configuration 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, powertrain 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)

Exterior Sound Power Level - ISO 6395:2008 107 dB(A)

Operator Sound Pressure Level - ISO 6396:2008 ¹ 69 dB(A)

Exterior Sound Power Level - ISO 6395:2008² 104 dB(A)

Note (1) ¹Including countries that adopt the EU and UK Directives.

Note (2) ²Exterior Sound Power Level - European Union Directive 2000/14/EC and UK Noise Regulation 2001 No. 1701.

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).

Operating Specifications

Static Tipping Load - Full 40° Turn - With Tire Deflection 24694 lb

Static Tipping Load - Full 40° Turn - No Tire Deflection 26369 lb

Breakout Force 40690 lbf

Note (1) For a machine configuration as defined under "Weight."

Note (2) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Service Refill Capacities

Fuel Tank	68.6 gal (US)
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	10.92 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	10.92 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
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Lift Arm Clearance at Maximum Lift	11.92 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 m ³ (4.1 yd ³) 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 rearview 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 (Optional depending on region)

LINKAGE

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

Maintenance reminders

SAFETY

Visibility: mirrors, rearview camera

Window cleaning platform, front

950 Optional Equipment

NOTE

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

ADDITIONAL EQUIPMENT

Guards: powertrain, crankcase, window glass, cylinders, rear

Cat Autolube system

Fenders, extensions or roading

Toolbox

Biodegradable hydraulic oil

High-speed oil change system

Rear cab access

ELECTRICAL

Cold start, 120V or 240V

Lights: LED

HYDRAULICS

3rd and 4th auxiliary functions with ride control

Quick coupler control

LINKAGE

High Lift

MONITORING SYSTEM

Tire Pressure Monitor

SAFETY

Cat Detect rear radar system

Dedicated rearview screen

Multiview (360°) vision system

4-point seat belt retractor

Reversing strobe lights

Seat belt monitoring beacon

Secondary steering system, electrical (Standard depending on region)

Wheel chocks

Warning beacon

SPECIAL CONFIGURATIONS

Corrosion resistant

Auxiliary Counterweight

Waste and industrial

Forestry