Cat® 950L

Wheel Loader

The new 950L Wheel Loader applies proven technologies systematically and strategically to meet your high expectations for reliability, productivity, fuel efficiency, and long service life.

Meets China Nonroad Stage III emission standards and U.S. EPA Tier 3/EU Stage IIIA equivalent emission standards.

Reliability

- Cat® C7.1 ACERT™ engine offers a combination of proven electronic, fuel, and air systems.
- Utilizing rigorous component design and machine validation processes results in unmatched reliability, durability and high uptime.

Durability

- Tough countershaft powershift transmission and axles handle extreme applications.
- Improved hydraulic hose routing reduces potential hose wear.
- Full flow hydraulic filtration system with additional loop filtration improves hydraulic system robustness and component life.

Productivity

- Engine power increased by approximately 22% improves machine performance and response *(compared to H Series)*.
- Lock-up clutch torque converter, combined with lock-to-lock shifting, delivers smooth shifts, fast acceleration and speed on grade.
- High capacity torque converter results in greater digging efficiency.
- Z-bar linkage provides high breakout force at ground level.
- Optional high lift linkage offers increased hinge pin height to load more easily in a variety of applications.
- Easy-to-load Performance Series Buckets feature a wider mouth and curved side plates that improve material retention (fill factor) and decrease cycle times.
- Optional fully automatic traction control system (differential locks) improves performance in the pile and poor underfoot conditions while reducing tire wear.

Fuel Efficiency

- Up to 10% lower fuel consumption than H Series.*
- Power dense ACERT engine burns less fuel by providing power and torque when needed.
- Performance Series Buckets feature a longer floor that easily digs through the pile resulting in lower fuel consumption.
- Load sensing hydraulics result in proportional flow for implement and steering on demand.
- Standard productive Economy Mode provides maximum fuel savings with minimal productivity impact.

Ease of Operation

- New best-in-class operator environment provides unmatched comfort, visibility, and efficiency.
- Intuitive, ergonomic controls keep operators focused on their work.
- Optional new ride control system with dual accumulators provides excellent ride quality and lowers cab vibrations.

Safety

- Excellent cab access with wide door and stair-like steps.
- Floor to ceiling windshield, large mirrors with integrated spot mirrors and rear vision camera provide industry leading all-around visibility.
- Robust, repositioned grab bars provide safe access to machine platforms.

Serviceability

- One-piece tilting hood with side and rear doors; hydraulic and electrical service centers make access fast and easy.
- Safe ground level access to fuel fill, oil fill, filters and daily maintenance points means less servicing time required.

Cat Connect Technology

- Monitor, manage and enhance job site operations.
- Cat LINK Technologies: VisionLink® enables owners to access data wirelessly to monitor machine health, utilization and location. In combination with Cat Payload technology, it can monitor machine production and efficiency.
- Cat DETECT Technologies: Integrated rear vision camera enhances visibility behind machine to help operators work safely.
- Cat PAYLOAD Technologies: Optional Cat Production Measurement brings simple and accurate on-the-go payload scale allowing operators to deliver exact loads and work more efficiently.

*Actual results may vary based on factors such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.

CAT®

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Engine

Engine Model	Cat C7.1 ACERT
Max Gross Power @ 2,000 rpm – ISO 14396 (metric)	195 kW (265 hp)
Max Net Power @ 2,000 rpm – ISO 9249 (metric)	185 kW (252 hp)
Peak Gross Torque (1,400 rpm) – ISO 14396	1050 N·m
Maximum Net Torque (1,400 rpm)	984 N·m
Displacement	7.01 L

Weights

Operating Weight	18 136 kg

- Weight based on a machine configuration with Michelin 23.5R25 XHA2 L3 radial tires, full fluids, operator, standard counterweight, cold start, roading fenders, Product Link™, open/open axles (front/rear), power train guard, secondary steering, sound suppression and a 3.1 m^3 general purpose bucket with BOCE.

Bucket Capacities

Bucket Range	2.7-4.4 m^3

Transmission

Forward 1	6.9 km/h
Forward 2	12 km/h
Forward 3	19.3 km/h
Forward 4	25.7 km/h
Forward 5	39.5 km/h
Reverse 1	6.9 km/h
Reverse 2	12 km/h
Reverse 3	25.7 km/h

- Maximum travel speed in standard vehicle with empty bucket and standard L3 tires with 787 mm roll radius.

Sound

With Cooling Fan Speed at Maximum Value:	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)	75 dB(A)*

*Distance of 15 m, moving forward in second gear ratio.

With Cooling Fan Speed at 70% of Maximum Value:**	
Operator Sound Pressure Level (ISO 6396:2008)	69 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	104 L_{WA}***

**For machines in countries that adopt the "EU Directives."

***European Union Directive "2000/14/EC" as amended by "2005/88/EC."

Operating Specifications

Static Tipping Load – Full 40° Turn – with Tire Deflection	10 926 kg
Static Tipping Load – Full 40° Turn – No Tire Deflection	11 624 kg
Breakout Force	152 kN

- For a machine configuration as defined under "Weight."
- Full compliance to ISO 143971:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Service Refill Capacities

Fuel Tank	275 L
Cooling System	54 L
Crankcase	20 L
Transmission	43 L
Differentials and Final Drives – Front	43 L
Differentials and Final Drives – Rear	43 L
Hydraulic Tank	125 L

Hydraulic System

Implement Pump Type	Variable Axial Piston
Implement System:	
Maximum Pump Output (2,340 rpm)	245 L/min
Maximum Operating Pressure	27 900 kPa
Hydraulic Cycle Time – Total	9.5 Seconds

Dimensions

	Standard Lift	High Lift
Height to Top of Hood	2697 mm	2697 mm
Height to Top of Exhaust Pipe	3415 mm	3415 mm
Height to Top of ROPS	3446 mm	3446 mm
Ground Clearance	368 mm	368 mm
Center Line of Rear Axle to Edge of Counterweight	2083 mm	2071 mm
Center Line of Rear Axle to Hitch	1675 mm	1675 mm
Wheelbase	3350 mm	3350 mm
Overall Length (without bucket)	6939 mm	7428 mm
Hinge Pin Height at Carry Height	663 mm	765 mm
Hinge Pin Height at Maximum Lift	3995 mm	4490 mm
Lift Arm Clearance at Maximum Lift	3410 mm	3794 mm
Rack Back at Maximum Lift	60 degrees	66 degrees
Rack Back at Carry Height	49 degrees	54 degrees
Rack Back at Ground	41 degrees	45 degrees
Maximum Width over Tires (loaded)	2822 mm	2822 mm
Tread Width	2140 mm	2140 mm

- All dimensions are approximate and based on Michelin 23.5R25 XHA2 L3 radial tires.

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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