950K

Wheel Loader
Power Package



Engine		
Engine Model	Cat® C7.1 ACERT™	
Max Net Power (1,900 rpm) – ISO 9249	165 kW	221 hp
Max Net Power (1,900 rpm) – SAE J1349	165 kW	221 hp

Buckets		
Bucket Capacities	2.50 to 9.20 m^3	3.25 to 12.00 yd^3
Weights		
Operating Weight	19 993 kg	44,064 lb

- For 3.3 m^3 (4.4 yd^3) general purpose buckets with BOCE.

950K Key Features and Benefits

Optimized Z-bar Linkage
Development of the new optimized Z-bar linkage was done in conjunction with the Performance Series Buckets, Fusion™ coupler and Fusion™ family of work tools to ensure that all components function together to enhance visibility, performance and fuel efficiency.

Load Sensing Hydraulics
Load sensing hydraulics produce flow and pressure for the implement system upon demand and only in amounts necessary to perform the needed work functions, enhancing machine productivity and fuel efficiency.

Operator Environment
The new four post ROPS cab provides enhanced comfort, visibility, and productivity resulting in a more efficient operator. New features include automatic climate control, viscous mounts to reduce noise and vibration levels, post mounted membrane switches, and a convex windshield giving the operator a panoramic view.

Cat® C7.1 ACERT™ Engine
The innovative Cat C7.1 ACERT™ engine is optimized for maximum fuel efficiency and increased power density while meeting all Tier 4 Interim/Stage IIIB emissions requirements.

Torque Converter
Transfers more power to the ground and optimizes fuel efficiency in all applications.

Powershift Transmission
The K Series transmissions incorporate a new shifting strategy that delivers smoother shifts, faster acceleration, and increased travel speed when climbing a grade.

Fuel Efficiency
The 950K wheel loader has been integrated as a system; from the linkage and work tool carrying the payload, to the engine, transmission and torque converter moving the machine, the system has been optimized to achieve the lowest cost per ton.

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The Cat® 950K was designed to improve operator comfort, performance, and productivity, all while meeting Tier 4 Interim/ Stage IIIB emissions requirements. The Performance Series Buckets provide enhanced visibility and decreased cycle times. The unmatched, revolutionary world-class cab creates a comfortable, efficient, safe, and productive operator environment. The innovative Cat C7.1 ACERT™ engine is optimized for maximum fuel efficiency and increased power density while meeting all Tier 4 Interim/Stage IIIB emissions requirements.

Additionally, the 950K Power Package comes equipped with a larger counterweight, enhanced driveline, and higher engine power. The reliability, durability, and versatility of the 950K Power Package results in a machine that is better built to meet your needs. All day. Every day.

Reliability

Tested and Proven. Ready to Work.



Structures

The K Series features many components which leverage product designs that have delivered a reliable and durable machine for generations.

Strata Precleaner

The system removes 93% of the dust particles before the air has reached the primary engine air filter. As air enters the precleaner, stationary vanes cause the incoming air to spin. The resulting centrifugal force spins dust and dirt to the outer walls where they are ejected out into the exhaust stream, while the clean air flows down the center of the tube and continues into the primary air filter. The primary benefit is extended filter life.

Cold Start/High Altitude Package

A new optional cold start package includes a fan pump bypass, transmission pump bypass, ether aid, and an engine heater plug/cord. The bypass systems reduce the parasitic load on the engine. With the new optional cold start package available on K Series, starting capability has been dramatically improved in cold weather conditions. The system also improves starting capability at high altitudes.

Monitoring Programs

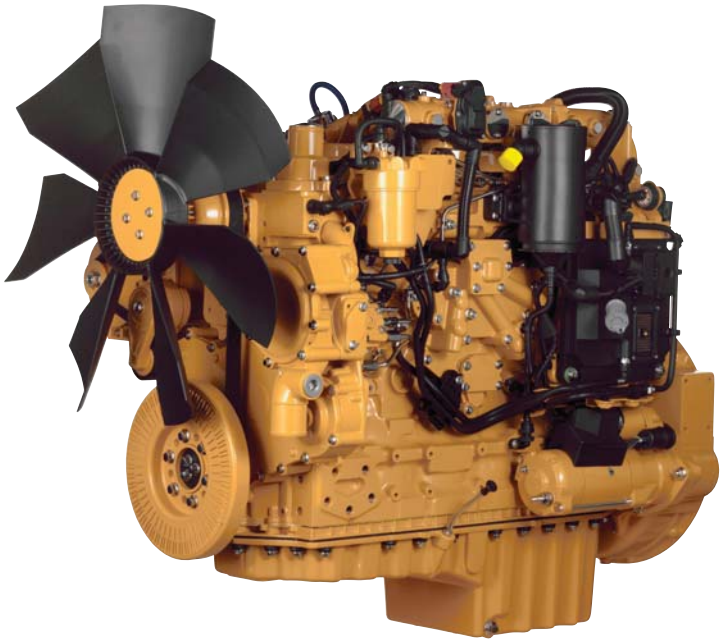
Monitoring product health is key to maintaining reliability of any equipment. Many programs offered by Caterpillar make the tracking of the customer's machine health quick and easy. These programs include Product Link, VisionLink™, and S·O·S℠ Services.

Renowned Cat Dealer Support

From helping you choose the right machine to knowledgeable support, Cat dealers provide the best when it comes to sales and service. Manage costs with preventive maintenance programs like Scheduled Oil Sampling (S·O·S℠) analysis or elaborate Customer Support Agreements. Stay productive with best-in-class parts availability. Cat dealers can even help you with operator training to help boost your profits. And when it's time for machine rebuild, your Cat dealer can help you save even more with Genuine Cat Reman parts. Receive the same warranty and reliability as new products at cost savings of 40 to 70 percent for power train and hydraulic components.

Durability

Better Built to Meet Your Needs





Frames

The robotically welded two-piece structural frame design provides a rugged and reliable foundation for the machine that improves stability, performance, and serviceability. A robust articulating hitch system joins the front and rear frames improving durability. Enhanced line routings across the hitch joint streamline the manufacturing process and improve reliability and durability.

Engine

The new Cat C7.1 ACERT™ engine was designed to optimize power density. It uses a combination of technologies to reduce regulated emissions while ensuring high performance and excellent fuel efficiency. An upgraded ADEM™ 4 electronic control module manages the combustion process and a new high-pressure common rail fuel system allows precise injection timing for a clean, efficient fuel burn. The rugged Cat Clean Emissions Module is securely rubber mounted on its own platform above the engine and contains a Diesel Oxidation Catalyst, Diesel Particulate Filter and Cat Regeneration System. Regeneration, the process by which soot is removed from the Diesel Particulate Filter, is completely automatic and does not interrupt the machine's work cycle.

Emissions

The 950K features a Cat C7.1 ACERT™ engine and a Cat Clean Emissions Module to deliver the performance and efficiency that customers demand, while meeting Tier 4 Interim/Stage IIIB emissions requirements. The six-cylinder electronic engine is turbocharged and aftercooled. ACERT™ Technology is a combination of building blocks that includes electronics, fuel systems, air management systems and aftertreatment components. The system is optimized based on engine size, the type of application and the geographic location in which it will work. The technologies are applied systematically and strategically to meet high customer expectations for productivity, fuel efficiency, reliability and service life.

Axles

The axles have upgraded components and are designed to handle extreme applications resulting in reliable performance and extended life. The front axle is rigidly mounted to the frame in order to withstand internal torque loads and still maintain support for the wheel loader. The rear axle can oscillate to ±13 degrees helping to ensure all four wheels stay on the ground providing stability even in the roughest terrain.



Productivity

Move More. All Day. Every Day.

Z-bar Linkage

Caterpillar engineers used an innovative systems integration approach to completely redesign the linkage system to meet customer needs in many applications. Development of the new optimized Z-bar linkage was done in conjunction with the Performance Series Buckets, Fusion™ coupler and Fusion™ family of work tools to ensure that all components function together to optimize visibility, performance and fuel efficiency. Visibility has been optimized by placing line routings and structural components out of the operator's sight lines. New parallel lift capabilities and a 30 to 60 percent increase in tilt force at maximum lift enhance performance and versatility.

Load Sensing Hydraulics

Load sensing hydraulics produce flow and pressure for the implement system upon demand and only in amounts necessary to perform the needed work functions, enhancing machine productivity and fuel efficiency. Implement controllability is improved through simultaneous implement operation and repeatable fine modulation, enabling greater operator comfort through ease of operation.

Ride Control

Ride control provides the operator with a smoother ride over rough terrain, enabling a more comfortable ride at higher speeds. The benefit is reduced cycle times higher productivity and better fuel efficiency while performing load and carry applications. The system works by using an accumulator to dampen the linkage motion, acting as a shock absorber.

Torque Converter

The 950K torque converter has been optimized to improve fuel efficiency and deliver more power to the ground.

Transmission

The K Series transmissions incorporate a new shifting strategy that delivers smoother shifts, faster acceleration, and better performance climbing a grade. When placing the transmission into forward gear, the machine will automatically start in second gear. With the further enhancement of a torque based 2 to 1 downshift, the downshift will only occur based on machine load. Owners and operators will fully benefit from utilizing the automatic 1-4 transmission mode, which results in lower fuel consumption and optimal machine performance.

Versatility

Work Tool Options to Meet Your Needs



Work Tools for Many Job Site Requirements

An extensive range of work tools and bucket styles are available for the 950K to customize these machines for your operation. The list includes: Performance Series Buckets (General Purpose, Material Handling, Rock); Specialty Buckets (Multi-Purpose, Side Dump, High Dump, Top Clamp, Waste Handling, Woodchip); Pallet Forks, Forestry Forks (Log and Lumber, Logging, Millyard, Unloading Grapple), Pipe and Pole Forks; Plows (angle or V-style); and Rakes (with or without top clamp).

Performance Series Buckets: Load Easy, Fuel Efficient, Carry More

Performance Series Buckets utilize a system-based approach to balance bucket shape with the machine's linkage, weight, lift and tilt capacities. Operators benefit from reduced dig times and better material retention; ultimately translating into significant productivity and fuel efficiency improvements.

Lower Operating Costs

Performance Series Buckets feature a longer floor that easily digs through the pile and provides excellent visibility for the operators to see when the bucket is full. Less time digging in the pile results in lower fuel consumption and improved tire life. A unique spill guard protects the cab and linkage components from material overflow.

Higher Productivity

Performance Series Buckets achieve higher fill factors – ranging from 100% to 115% depending on the machine application and material type. The buckets feature optimized geometry with a bucket opening matched to the machine's linkage and incorporate a curved side profile to maximize material retention. The optimized design results in unsurpassed production capabilities.

Unloading Grapple Fork

The new Unloading Grapple Fork is ideal for unloading and stacking timber. A rounded top clamp and frame open the interior profile of the fork, enabling larger capacity loads to be moved. Easy and gentle loading out of stacks is permitted by the short tines, while a large, broad clamp holds tight to short or long timber. Forks are available with a kick-out that unloads the fork even at full lift, enabling higher lumber stacking.

Fusion™ Quick Coupler



Improved Machine Performance

Fusion™ is the patented wheel loader coupler system from Caterpillar. The Fusion Coupler System provides performance virtually identical to pin on – with all the flexibility of a quick coupler system. The Fusion Coupler sits back, close-in to the loader arms – minimizing offset and increasing the machine's performance.

No Loss of Performance

Imagine lifting a hundred pound box with your arms fully extended. Now imagine lifting that same load close to your body. That's the genius of Fusion: designed to integrate the work tool and the machine by pulling the coupler and tool closer in to the loader. As a result, the center of gravity is moved inward, towards the machine. This translates to increased lifting ability when compared to machines equipped with other coupler systems.

Unsurpassed Durability

An advanced wedging mechanism creates a tight, rattle-free fit. This patented lock up system eliminates play and wear – resulting in a long service life. Wedges pull the attachment tight to the machine in two directions – in and down. Constant hydraulic pressure on the coupler wedges compensate for wear, assuring a tight fit through the life of the coupler. Tight fit gives better tool control and increased productivity. Coupler durability is substantially increased over traditional couplers.

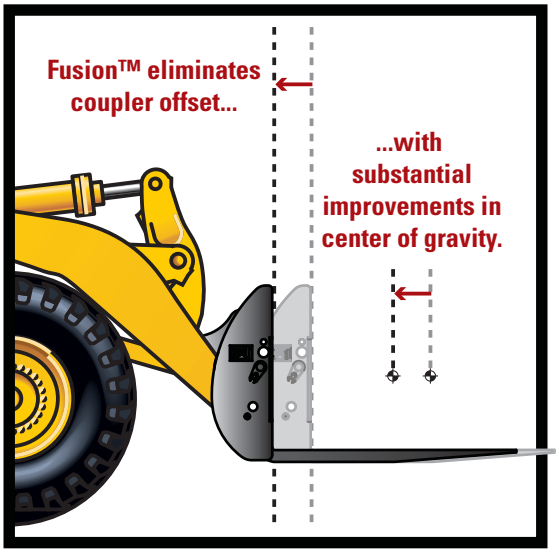
Increased Visibility

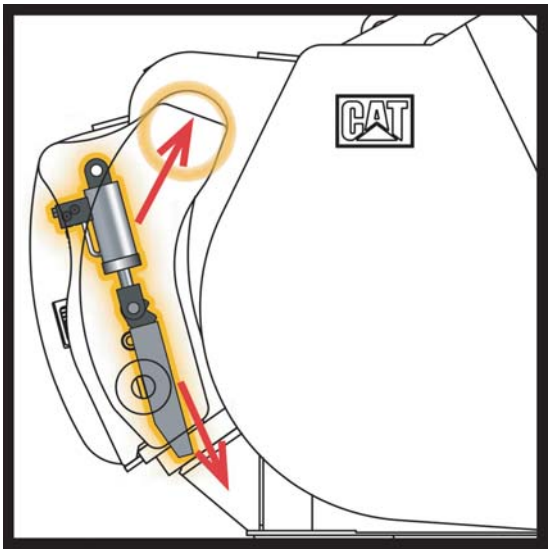
An open coupler frame design clears sight lines from the operator's seat, making it easier than ever before to engage and disengage attachments with certainty. Offset tines and other design changes to Fusion Pallet Forks, working in conjunction with the Fusion Coupler, increase visibility substantially at ground level and truck bed height when compared to traditional coupler and fork combinations.

Common Interface Compatibility

The Fusion Coupler System gives Cat customers one common interface – eliminating the need for many different couplers across the entire range of small and medium wheel loaders. This expanded machine compatibility not only allows one machine to use a range of work tools, but also allows one work tool to be picked up by machines of many different sizes.

The Fusion coupler interface is designed to work on 924 through 972 machines. Each machine will have its own optimal bucket and fork recommendations. However, cross-machine compatibility gives you additional flexibility and fleet options not found with any other wheel loader coupler.





Operator Environment

Safe. Comfortable. Efficient.







Conventional Steering

The conventional steering configuration offers a low-effort hand metering unit hydraulic steering system. Load sensing steering directs power through the steering system only when needed. The optional Command Control Steering is still offered on the 950K and is a load sensing system that links the steering wheel and frame angle positions to provide the proper amount of steering control. Full machine articulation is accomplished with a ± 70 degrees turn of the wheel versus two or three 360 degree turns on a conventional steering wheel.

Implement Controls (EH)

Seat mounted single axis implement control levers provide the operator with precise control of the work tool, all while moving with the seat for maximum comfort. In cab programmable kick-outs and automatic cylinder snubbing maximize operator comfort and productivity throughout their shift. Optional implement joysticks are available for 2V, 3V, and 4V hydraulics.

Seat

The Cat Optimized Seating System is 6-way adjustable to accommodate operators of all sizes. The seat has a one piece high back that supports the lumbar area of the back up through the shoulders. Both armrests are large and can be adjusted up, down, fore, and aft to enhance comfort and convenience. An optional feature for the cab seat is a heated backrest and cushion.

Automatic Climate Control and Air Quality

The new climate control system automatically adjusts the air temperature and fan speed to maintain the operator's preferred climate setting. The cab air filtration system recirculates 90% of the cab air and is now serviced from outside the cab, enabling maximum air quality and cab cleanliness. The new air conditioning sealing system keeps refrigerant contained preventing system shutdown. Combined together, the operator remains efficient and productive all shift long due to a sustainable work environment.

Information Display

The central display panel has a large text box, five analog like gauges, and LED warning indicators. The large text box provides in-language information about machine operation, feature activation and system troubleshooting and calibration. With the 5 large analog-type gauges the operator can easily identify if key systems are within normal operating range. A resettable trip totals function has been incorporated to display information for average fuel consumed, total fuel consumed, idle fuel, idle time, operating hours, odometer, etc.

Entry and Exit

Well-placed grab bars and a ladder inclination angle of 10-degrees forward makes the walk into the cab feel more like a staircase than a ladder. The new wider front hinged door can be opened and closed while seated, greatly improving ingress and egress. Two new left-hand and right-hand sliding windows can also be opened and closed with one hand while seated for comfortable communication to personnel on the ground.

Visibility

Visibility has been enhanced by adding a convex windshield and eliminating two cab posts. The cab has a clean and clear panoramic view to enhance safe operation of the machine. External rearview mirrors are mounted on the cab to provide all around visibility. The external mirrors fold horizontally to provide fast, safe access to clean the window from the front platform. Optional heated and powered mirrors are available to further improve visibility in cold climates.

Rearview Camera

With the new standard rearview camera, visibility is greatly enhanced. The camera is located in a pocket on the grill to protect it from damage and the elements. The camera can be set to activate only when the transmission is in reverse to help eliminate distractions in the cab, especially when in dark environments. Two rear work lights are located in the rear grill and can be activated to illuminate the area behind the machine in low light conditions.

Control Panels and Park Brake Switch

Two control panels located on the front right ROPS post consist of large membrane switches making them easy to activate while wearing gloves. The membrane switches contain LED's to denote activation/mode and have a positive feel and "click" to signal activation. The ISO symbols located on each membrane switch are molded all the way through to ensure the image will not wear off over time. A new "help" feature explains the function of each membrane switch. A two position rocker switch activates the electro-hydraulic park brake and is automatically applied upon machine shutdown.

Sound and Vibration

New viscous cab mounts connect the cab to the frame of the machine, decreasing noise and vibration the operator is subjected to. The result is a sustainable work environment and well-rested operator, remaining efficient and productive. All Day. Every Day.









Serviceability

Easy to Maintain. Easy to Service.







Electrical Service Center

The electrical service center provides grouped ground level access to numerous electrical features, enhancing safety and convenience for operators and service technicians. It is conveniently located beneath the left platform for access before entering the cab and contains the maintenance free batteries, a fuse relay panel, main disconnect switch, ground level engine shutdown switch, hood tilt switch, and the jump start receptacle.

Engine Access

The K Series retains the Cat sloped “one-piece” tilting hood, which has become one of our brand’s hallmarks and provides industry-leading access to the engine, Cat Clean Emissions Module (CEM) and other components but with fresh new styling clearly distinct from the H Series. New to the loaders is a rear clamshell hood design that allows quick access to the engine oil dipstick and fill, fuel fill port, and cooler cores.

Cooling System

The cooling system is readily accessible for clean out and maintenance. With six cooling fins per inch and a perforated grill, most airborne debris entering the system passes through the cooler cores. The cooler cores swing out providing easy access for cleaning; an option variable pitch fan is available to automatically purge the cooler cores by periodically reversing the airflow.

Hydraulic Service Center

The hydraulic components are all conveniently located behind the hinged right side access ladder at a new single ground level service center improving safety and reducing service time. Accessible from the service center are the transmission and hydraulic oil filters, brake accumulators, pressure test ports, etc.

Sustainability

Conserving Resources



The 950K is designed to compliment your business plan, reduce emissions and minimize the consumption of natural resources.

- Improved fuel efficiency – less fuel consumed results in lower emissions.
- Engine air filter life doubled to reduce cost and waste.
- Machine is built with a 95% recyclability rate (ISO 16714) to conserve valuable natural resources and further enhance machine end of life value.
- Improved operator efficiency through enhanced visibility and reduced noise/vibration levels.
- Product Link family of products and solutions that collect, communicate, store and deliver product and job-site information to maximize productivity and reduce costs.
- Major components are rebuildable, eliminating waste and saving money by giving the machine and/or major components a second – and even third – life.

Customer Support

Ready to Help. Anytime. Anywhere.

Machine Selection

Cat dealers are ready to help evaluate machine options; from new or used machine sales, to rental or rebuild options, Cat dealers can provide an optimal solution to meet customer business needs.

Product Support

Cat dealers are with customers every step of the way to maximize machine uptime by providing unsurpassed worldwide parts support, trained technicians and customer support agreements.

Operation

To help maximize the return on your investment, Cat dealers offer various training resources to improve operating techniques.

Financing

Cat dealers offer financing options to meet a variety of customer needs.



Owning Costs

Proven Best Investment





Customer Support Agreements

A Customer Support Agreement (CSA) is an arrangement between you and your Cat dealer that helps you lower your total cost per ton. CSAs are flexible, allowing them to be tailored to your business needs. They can range from simple Preventive Maintenance Kits to elaborate Total Cost Performance Guarantees. Having a CSA with your Cat dealer enables more time for you to do what you do best – run your business.

Monitoring Systems

Monitoring product health is key to optimizing the life of an investment into a Cat Wheel Loader.

- **Cat Product Link** – Cat Product Link allows remote monitoring of equipment to improve overall fleet management effectiveness. Product Link is deeply integrated into machine systems. Events and diagnostic codes, as well as hours, fuel, idle time and other detailed information are transmitted to a secure web based application, VisionLink™. VisionLink includes powerful tools to convey information to users and dealers, including mapping, working and idle time, fuel level and more.
- **S·O·S℠ Services** – Helps manage component life and decrease machine downtime, increasing productivity and efficiency. Regular fluid sampling can help track what is going on inside your machine. Wear related problems are predictable and easily repairable. Maintenance can be done to accommodate your schedule, resulting in increased uptime and flexibility in maintenance repairs before failure.

Parts Availability

Caterpillar provides an unsurpassed level of personalized service to help you work more cost effective and efficient. By utilizing a worldwide parts network Cat dealers help minimize machine downtime and save money by delivering replacement parts within 24 hours.

Resale Value

Owning quality equipment is an important factor in maintaining resale value. Caterpillar is not only known for machines that are better built, but provides product and dealer support to maintain the reliability and durability of your machine.



Operating Costs

Save Time and Money by Working Smart

Data from customer machines show Cat wheel loaders are among the most fuel efficient machines in the industry. Several features contribute to this excellent fuel efficiency:

- **Performance Series Buckets** – Deliver faster fill times and better material retention, ultimately reducing cycle times while improving productivity and fuel efficiency.
- **Load-Sensing Hydraulics** – Provides only the hydraulic flow required by the implement and steering systems for improved fuel efficiency and greater rimpull.
- **ACERT™ Engine** – Power dense engine enables a more fuel-efficient method to meet emissions regulations.
- **Fuel Management System (FMS)** – Optimizes power for maximum fuel savings with minimal impact on production.
- **Engine Idle Shutdown** – Automatic engine and electrical system shutdown conserves fuel.
- **Torque Converter** – Transfers more power to the ground and optimizes fuel efficiency in all applications.
- **Shift Strategy** – Reduced torque interruption increases driveline efficiency, conserving fuel. Auto 1-4 transmission mode keeps engine rpm low, reducing fuel consumption while delivering optimal machine performance.

Machine configuration, operator technique, and job site layout can impact fuel consumption by as much as 30 percent.

- **Machine Configuration** – Select the correct work tool and tire type based on machine application. Radial tires are preferred; ensure proper inflation pressures. Heavier tires burn more fuel. Keep engine rpm low by using auto 1-4 transmission mode.
- **Job Site Layout** – Spot loading targets in the right position. Avoid traveling more than twice the machine length during short cycle loading. Reduce transport distance for load and carry cycles by optimizing job site layout.
- **Loading Bucket** – Load in first gear and keep engine rpm low. Raise and tilt bucket smoothly and do not use a “pumping” motion. Avoid lift lever detent and use transmission neutralizer.
- **Loading Truck or Hopper** – Do not raise the work tool any higher than necessary. Keep engine rpm low and unload in controlled manner.
- **Idle** – Set the parking brake to engage Engine Idle Management System.

950K Wheel Loader Specifications

Engine

Engine Model	Cat® C7.1 ACERT™	
Max Gross Power (1,900 rpm) – SAE J1995	181 kW	243 hp
Max Gross Power (1,900 rpm) – SAE J1995 (metric)	183 kW	245 hp
Max Net Power (1,900 rpm) – ISO 9249	165 kW	221 hp
Max Net Power (1,900 rpm) – ISO 9249 (metric)	167 kW	224 hp
Max Net Power (1,900 rpm) – SAE J1349	165 kW	221 hp
Max Net Power (1,900 rpm) – SAE J1349 (metric)	167 kW	224 hp
Max Net Power (1,900 rpm) – EEC 80/1269	165 kW	221 hp
Max Net Power (1,900 rpm) – EEC 80/1269 (metric)	167 kW	224 hp
Peak Gross Torque (1,300 rpm) – SAE J1995	1054 N·m	777 ft-lb
Peak Net Torque (1,400 rpm) – SAE J1349	988 N·m	729 ft-lb
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in^3

- Cat engine with ACERT™ Technology – meets Tier 4 Interim/Stage IIIB emissions requirements.

Weights

Operating Weight	19 993 kg	44,064 lb

- For 3.3 m^3 (4.4 yd^3) general purpose buckets with BOCE.

Buckets

Bucket Capacities	2.50 to 9.20 m^3	3.25 to 12.00 yd^3

- Refer to bucket selection chart.

Operating Specifications

Static tipping load full 40° turn – ISO 14397-1*	11 743 kg	25,883 lb
Static tipping load full 40° turn – Rigid Tires**	12 591 kg	27,751 lb
Breakout Force	154 kN	34,742 lb

- For 3.3 m^3 (4.4 yd^3) general purpose buckets with BOCE.

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

** Compliance to ISO (2007) 14397-1 Sections 1 thru 5.

Transmission

Forward 1	6.9 km/h	4.3 mph
Forward 2	12.9 km/h	8.0 mph
Forward 3	22.7 km/h	14.1 mph
Forward 4	37.9 km/h	23.6 mph
Reverse 1	7.5 km/h	4.7 mph
Reverse 2	14.1 km/h	8.8 mph
Reverse 3	24.8 km/h	15.4 mph
Reverse 4	39.8 km/h	24.7 mph

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

Hydraulic System

Steering System Pump Type	Piston	
Implement System – Maximum Pump Output (2,340 rpm)	340 L/min	90 gal/min
Implement System – Maximum Operating Pressure	26 200 kPa	3,800 psi
Implement System – Optional 3rd and 4th Function Maximum Flow	280 L/min	74 gal/min
Implement System – Optional 3rd and 4th Function Maximum Pressure	20 700 kPa	3,000 psi
Hydraulic Cycle Time – Raise from Carry Position	5.9 Seconds	
Hydraulic Cycle Time – Dump, at Maximum Raise	1.8 Seconds	
Hydraulic Cycle Time – Lower, Empty, Float Down	2.5 Seconds	
Hydraulic Cycle Time – Total	10 Seconds	

- Cycle time with rated payload.

Brakes

Brakes	Meet OSHA, SAE J1473 OCT90 and ISO 3450-1985 required standards

Axles

Front	Fixed	
Rear	Oscillating ± 13 degrees	
Maximum Single-Wheel Rise and Fall	481 mm	18.9 in

Tires

- Choose from a variety of tires to match your application.
- Choices include:
  23.5R25 VSW BS L2 Radial
  23.5R25 VUT BS L2 Radial
  750/65R25 VLT BS E3/L3 Radial
  23.5R25 VJT BS E3/L3 Radial
  23.5-25 SRG LD FS L3 Bias
  23.5R25 XHA2 MX L3 Radial
  23.5R25 XHA MX L3 Radial
  23.5R25 VMT BS L3 Radial
  725/70-25 LS 150 Titan L4 Bias
  23.5R25 XLDD2 MX L5 Radial
  Cat Flexport™
- NOTE: In certain applications (such as load and carry), the loader's productive capabilities might exceed the tires' tonnes-km/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. Other special tires are available on request.

Cab

ROPS/FOPS	Meets SAE and ISO standards

- Cat cab with a four post integrated Rollover Protective Structure (ROPS) are standard in North America and Europe.
- ROPS meets SAE J1040 APR88 and ISO 3471:1994 criteria.
- Falling Objects Protective Structure (FOPS) meets SAE J231 JAN81 and ISO:1992 Level II criteria.

Sound

- The sound values indicated below are for specific operating conditions only. Machine and operator sound levels will vary at different engine and/or cooling fan speeds. Hearing protection may be needed when the machine is operated with a cabin that is not properly maintained, or when the doors and/or windows are open for extended periods or in a noisy environment.
- The operator sound pressure level for a standard machine configuration, measured according to the procedures specified in ISO 6396:2008, is 71 dB(A) with the cooling fan speed set at maximum value.
- The machine sound power level for a standard machine configuration, measured according to the procedures specified in ISO 6395:2008, is 110 dB(A) with the cooling fan speed set at maximum value.
- The machine sound pressure level for a standard machine configuration, measured according to the procedures specified in SAE J88:2006, is 75 dB(A). The measurement was conducted under the following conditions: distance of 15 m (49.2 ft), moving forward in an intermediate gear ratio, static hydraulic cycle (with no payload) and with the cooling fan speed set at maximum value.
- The operator sound pressure level for a machine installed with a Low Sound package, measured according to the procedures specified in ISO 6396:2008, is 69 dB(A) with the cooling fan speed set at maximum value.
- The machine sound power level for a machine installed with a Low Sound package, measured according to the procedures specified in ISO 6396:2008, is 107 dB(A) with the cooling fan speed set at maximum value.

Service Refill Capacities

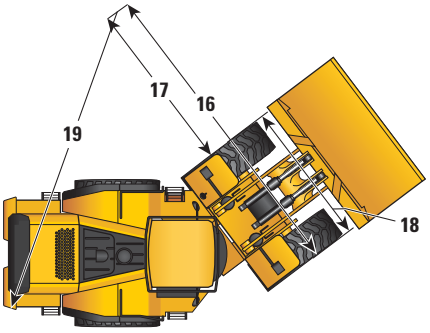
Fuel Tank – Standard	314 L	83 gal
Cooling System	60 L	15.9 gal
Crankcase	18 L	4.8 gal
Transmission	43 L	11.4 gal
Differentials and Final Drives – Front	43 L	11.4 gal
Differentials and Final Drives – Rear	43 L	11.4 gal
Hydraulic Tank	189 L	49.9 gal

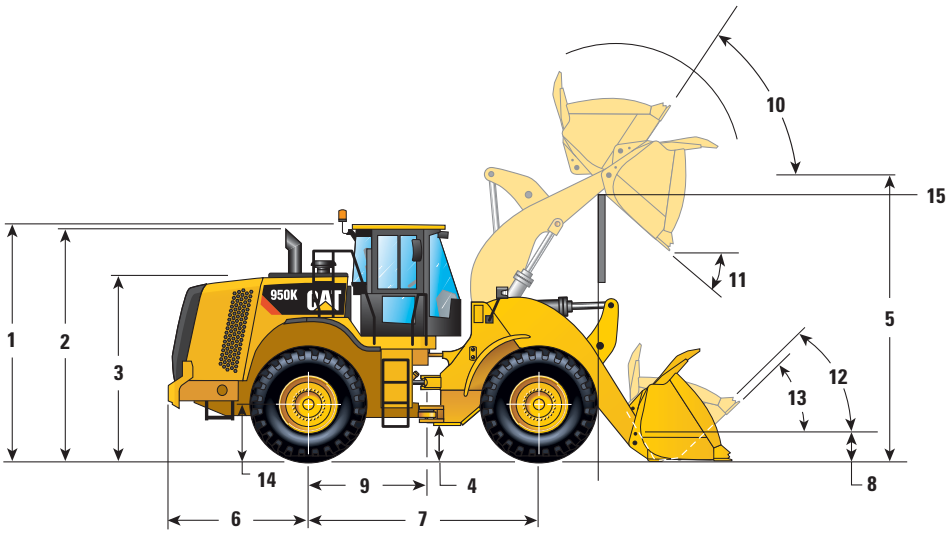
- All non-road Tier 4/Stage IIIB and IV, and Japan (MLIT) Step 4 diesel engines are required to use:
  – Ultra Low Sulfur Diesel (ULSD) fuels containing 15 ppm (mg/kg) sulfur or less. Biodiesel blends up to B20 are acceptable when blended with 15 ppm (mg/kg) sulfur or less ULSD and when the biodiesel feedstock meets ASTM D7467 specifications.
  – Cat® DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specifications are required.

950K Wheel Loader Specifications

Dimensions

All dimensions are approximate and based on L3 Michelin XHA2 tires.





1	Height to Top of ROPS	3356 mm	11'0"
2	Height to Top of Exhaust Pipe	3099 mm	10'2"
3	Height to Top of Hood	2415 mm	7'11"
4	Ground Clearance With 23.5R25 (See Tire Option Chart for Other Tires)	397 mm	1'3"
5	B-Pin Height – Standard	4021 mm	13'2"
6	Center Line of Rear Axle to Edge of Counterweight	2055 mm	6'9"
7	Wheelbase	3350 mm	10'11"
8	B-Pin Height @ Carry – Standard	659 mm	26"
9	Center Line of Rear Axle to Hitch	1510 mm	4'11"
10	Rack Back @ Maximum Lift	59 degrees	
11	Dump Angle @ Maximum Lift	51 degrees	
12	Rack Back @ Carry	46 degrees	
13	Rack Back @ Ground	38 degrees	
14	Height to Center Line of Axle	688 mm	2'3"
15	Lift Arm Clearance	3275 mm	10'7"

Turning Radius

All dimensions are approximate and based on L3 Michelin XHA2 tires.

16	Clearance Circle to Outside of Tires	5952 mm	19'6"
17	Clearance Circle to Inside of Tires	3233 mm	10'7"
18	Width Over Tires	2719 mm	8'11"
19	Clearance Circle to Outside Edge of Counterweight	6025 mm	19'9"

Operating Specifications

Bucket Type		General Purpose – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	2.70	2.70	2.50	2.90	2.90	2.70
	yd^3	3.53	3.53	3.27	3.79	3.79	3.53
Capacity – Struck (§)	m^3	2.30	2.30	2.11	2.55	2.55	2.33
	yd^3	3.01	3.01	2.76	3.34	3.34	3.05
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2975	2859	2859	2919	2802	2802
	ft/in	9'9"	9'4"	9'4"	9'6"	9'2"	9'2"
Reach at Maximum Lift and 45° Discharge (§)	mm	1356	1469	1469	1395	1506	1506
	ft/in	4'5"	4'9"	4'9"	4'6"	4'11"	4'11"
Reach at Level Lift Arm and Bucket Level (§)	mm	2562	2723	2723	2631	2792	2792
	ft/in	8'4"	8'11"	8'11"	8'7"	9'1"	9'1"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8186	8359	8359	8255	8428	8428
	ft/in	26'11"	27'6"	27'6"	27'1"	27'8"	27'8"
Overall Height with Bucket at Maximum Lift	mm	5392	5392	5392	5464	5464	5464
	ft/in	17'9"	17'9"	17'9"	18'0"	18'0"	18'0"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 689	13 856	13 856	13 729	13 897	13 897
	ft/in	44'11"	45'6"	45'6"	45'1"	45'8"	45'8"
Static Tipping Load, Straight (ISO)*	kg	14 018	13 880	14 190	13 873	13 733	14 036
	lb	30,896	30,591	31,275	30,577	30,269	30,935
Static Tipping Load, Straight (Rigid Tire)*	kg	14 836	14 696	15 016	14 695	14 554	14 865
	lb	32,699	32,391	33,096	32,389	32,078	32,764
Static Tipping Load, Articulated (ISO)*	kg	12 092	11 954	12 243	11 953	11 813	12 096
	lb	26,652	26,347	26,985	26,345	26,036	26,659
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 929	12 790	13 088	12 794	12 653	12 944
	lb	28,497	28,189	28,847	28,199	27,888	28,529
Breakout Force** (§)	kN	180	178	197	169	167	184
	lb	40,442	40,157	44,336	37,997	37,715	41,441
Operating Weight*	kg	19 802	19 910	19 753	19 887	19 995	19 838
	lb	43,643	43,881	43,535	43,830	44,068	43,722

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		General Purpose – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.10	3.10	2.90	3.30	3.30	3.10
	yd^3	4.05	4.05	3.79	4.32	4.32	4.05
Capacity – Struck (§)	m^3	2.76	2.76	2.54	2.94	2.94	2.72
	yd^3	3.61	3.61	3.32	3.85	3.85	3.56
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2876	2758	2758	2838	2719	2719
	ft/in	9'5"	9'0"	9'0"	9'3"	8'11"	8'11"
Reach at Maximum Lift and 45° Discharge (§)	mm	1429	1540	1540	1458	1568	1568
	ft/in	4'8"	5'0"	5'0"	4'9"	5'1"	5'1"
Reach at Level Lift Arm and Bucket Level (§)	mm	2688	2849	2849	2737	2898	2898
	ft/in	8'9"	9'4"	9'4"	8'11"	9'6"	9'6"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8312	8485	8485	8361	8534	8534
	ft/in	27'4"	27'11"	27'11"	27'6"	28'0"	28'0"
Overall Height with Bucket at Maximum Lift	mm	5525	5525	5525	5571	5571	5571
	ft/in	18'2"	18'2"	18'2"	18'4"	18'4"	18'4"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 762	13 931	13 931	13 791	13 961	13 961
	ft/in	45'2"	45'9"	45'9"	45'3"	45'10"	45'10"
Static Tipping Load, Straight (ISO)*	kg	13 776	13 635	13 929	13 652	13 510	13 802
	lb	30,363	30,052	30,700	30,089	29,777	30,421
Static Tipping Load, Straight (Rigid Tire)*	kg	14 602	14 460	14 762	14 480	14 337	14 637
	lb	32,184	31,870	32,536	31,915	31,599	32,262
Static Tipping Load, Articulated (ISO)*	kg	11 862	11 721	11 996	11 743	11 602	11 875
	lb	26,145	25,834	26,440	25,883	25,571	26,172
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 708	12 565	12 847	12 591	12 448	12 728
	lb	28,008	27,695	28,316	27,751	27,435	28,054
Breakout Force** (§)	kN	161	159	175	154	153	167
	lb	36,203	35,922	39,334	34,742	34,463	37,633
Operating Weight*	kg	19 924	20 032	19 875	19 993	20 101	19 944
	lb	43,911	44,149	43,803	44,064	44,302	43,956

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		General Purpose – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.40	3.40	3.20	3.60	3.60	3.40
	yd^3	4.45	4.45	4.19	4.71	4.71	4.45
Capacity – Struck (§)	m^3	3.04	3.04	2.81	3.18	3.18	2.94
	yd^3	3.98	3.98	3.68	4.16	4.16	3.85
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2819	2700	2700	2793	2673	2673
	ft/in	9'3"	8'10"	8'10"	9'1"	8'9"	8'9"
Reach at Maximum Lift and 45° Discharge (§)	mm	1473	1582	1582	1495	1604	1604
	ft/in	4'10"	5'2"	5'2"	4'10"	5'3"	5'3"
Reach at Level Lift Arm and Bucket Level (§)	mm	2761	2922	2922	2796	2957	2957
	ft/in	9'0"	9'7"	9'7"	9'2"	9'8"	9'8"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8385	8558	8558	8420	8593	8593
	ft/in	27'7"	28'1"	28'1"	27'8"	28'3"	28'3"
Overall Height with Bucket at Maximum Lift	mm	5597	5597	5597	5630	5630	5630
	ft/in	18'5"	18'5"	18'5"	18'6"	18'6"	18'6"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 805	13 975	13 975	13 826	13 997	13 997
	ft/in	45'4"	45'11"	45'11"	45'5"	46'0"	46'0"
Static Tipping Load, Straight (ISO)*	kg	13 607	13 465	13 754	13 534	13 391	13 677
	lb	29,990	29,677	30,314	29,830	29,515	30,144
Static Tipping Load, Straight (Rigid Tire)*	kg	14 437	14 293	14 590	14 366	14 221	14 514
	lb	31,820	31,503	32,157	31,663	31,345	31,991
Static Tipping Load, Articulated (ISO)*	kg	11 701	11 558	11 828	11 632	11 489	11 755
	lb	25,789	25,476	26,070	25,636	25,322	25,909
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 550	12 406	12 683	12 482	12 338	12 611
	lb	27,660	27,343	27,954	27,512	27,193	27,796
Breakout Force** (§)	kN	151	150	164	147	146	159
	lb	34,071	33,792	36,855	33,133	32,855	35,772
Operating Weight*	kg	20 017	20 125	19 968	20 053	20 161	20 004
	lb	44,117	44,355	44,009	44,197	44,435	44,089

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

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(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		General Purpose – Pin On			Material Handling – Pin On		
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.80	3.80	3.60	2.70	2.70	2.50
	yd^3	4.97	4.97	4.71	3.53	3.53	3.27
Capacity – Struck (§)	m^3	3.36	3.36	3.12	2.32	2.32	2.11
	yd^3	4.39	4.39	4.08	3.03	3.03	2.76
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2758	2638	2638	2896	2770	2770
	ft/in	9'0"	8'7"	8'7"	9'6"	9'1"	9'1"
Reach at Maximum Lift and 45° Discharge (§)	mm	1524	1632	1632	1272	1374	1374
	ft/in	5'0"	5'4"	5'4"	4'2"	4'6"	4'6"
Reach at Level Lift Arm and Bucket Level (§)	mm	2842	3003	3003	2581	2742	2742
	ft/in	9'3"	9'10"	9'10"	8'5"	8'11"	8'11"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8466	8639	8639	8205	8378	8378
	ft/in	27'10"	28'5"	28'5"	27'0"	27'6"	27'6"
Overall Height with Bucket at Maximum Lift	mm	5678	5678	5678	5618	5618	5618
	ft/in	18'8"	18'8"	18'8"	18'6"	18'6"	18'6"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 854	14 025	14 025	13 700	13 868	13 868
	ft/in	45'6"	46'1"	46'1"	45'0"	45'6"	45'6"
Static Tipping Load, Straight (ISO)*	kg	13 431	13 288	13 568	13 836	13 699	14 037
	lb	29,603	29,287	29,905	30,495	30,192	30,938
Static Tipping Load, Straight (Rigid Tire)*	kg	14 265	14 120	14 408	14 635	14 496	14 846
	lb	31,442	31,121	31,756	32,256	31,950	32,720
Static Tipping Load, Articulated (ISO)*	kg	11 534	11 390	11 652	11 931	11 794	12 113
	lb	25,421	25,104	25,682	26,297	25,994	26,698
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 387	12 241	12 510	12 750	12 611	12 941
	lb	27,301	26,981	27,573	28,101	27,796	28,524
Breakout Force** (§)	kN	142	141	153	176	175	193
	lb	31,963	31,687	34,427	39,722	39,437	43,481
Operating Weight*	kg	20 108	20 216	20 059	19 825	19 933	19 776
	lb	44,318	44,556	44,210	43,693	43,931	43,585

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

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(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		Material Handling – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	2.90	2.90	2.70	3.10	3.10	2.90
	yd^3	3.79	3.79	3.53	4.05	4.05	3.79
Capacity – Struck (§)	m^3	2.52	2.52	2.31	2.61	2.61	2.44
	yd^3	3.30	3.30	3.02	3.41	3.41	3.19
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2853	2728	2728	2821	2696	2696
	ft/in	9'4"	8'11"	8'11"	9'3"	8'10"	8'10"
Reach at Maximum Lift and 45° Discharge (§)	mm	1314	1416	1416	1346	1448	1448
	ft/in	4'3"	4'7"	4'7"	4'5"	4'9"	4'9"
Reach at Level Lift Arm and Bucket Level (§)	mm	2641	2802	2802	2686	2847	2847
	ft/in	8'8"	9'2"	9'2"	8'9"	9'4"	9'4"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8265	8438	8438	8310	8483	8483
	ft/in	27'2"	27'9"	27'9"	27'4"	27'10"	27'10"
Overall Height with Bucket at Maximum Lift	mm	4975	4975	4975	5483	5483	5483
	ft/in	16'4"	16'4"	16'4"	18'0"	18'0"	18'0"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 734	13 903	13 903	13 761	13 930	13 930
	ft/in	45'1"	45'8"	45'8"	45'2"	45'9"	45'9"
Static Tipping Load, Straight (ISO)*	kg	13 716	13 578	13 872	13 620	13 481	13 769
	lb	30,232	29,926	30,575	30,020	29,713	30,348
Static Tipping Load, Straight (Rigid Tire)*	kg	14 519	14 379	14 680	14 425	14 284	14 579
	lb	32,000	31,691	32,355	31,793	31,483	32,133
Static Tipping Load, Articulated (ISO)*	kg	11 818	11 680	11 955	11 727	11 588	11 858
	lb	26,048	25,743	26,350	25,847	25,540	26,135
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 640	12 500	12 783	12 551	12 411	12 687
	lb	27,859	27,551	28,173	27,664	27,354	27,963
Breakout Force** (§)	kN	167	166	182	161	160	175
	lb	37,667	37,384	41,052	36,235	35,954	39,374
Operating Weight*	kg	19 881	19 989	19 832	19 931	20 039	19 882
	lb	43,816	44,055	43,708	43,927	44,165	43,819

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

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(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		Material Handling – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.30	3.30	3.10	3.40	3.40	3.20
	yd^3	4.32	4.32	4.05	4.45	4.45	4.19
Capacity – Struck (§)	m^3	2.78	2.78	2.61	2.92	2.92	2.74
	yd^3	3.64	3.64	3.41	3.82	3.82	3.58
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2789	2664	2664	2761	2636	2636
	ft/in	9'1"	8'8"	8'8"	9'0"	8'7"	8'7"
Reach at Maximum Lift and 45° Discharge (§)	mm	1378	1480	1480	1406	1508	1508
	ft/in	4'6"	4'10"	4'10"	4'7"	4'11"	4'11"
Reach at Level Lift Arm and Bucket Level (§)	mm	2731	2892	2892	2771	2932	2932
	ft/in	8'11"	9'5"	9'5"	9'1"	9'7"	9'7"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8355	8528	8528	8395	8568	8568
	ft/in	27'5"	28'0"	28'0"	27'7"	28'2"	28'2"
Overall Height with Bucket at Maximum Lift	mm	5527	5527	5527	5566	5566	5566
	ft/in	18'2"	18'2"	18'2"	18'4"	18'4"	18'4"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 787	13 957	13 957	13 811	13 981	13 981
	ft/in	45'3"	45'10"	45'10"	45'4"	45'11"	45'11"
Static Tipping Load, Straight (ISO)*	kg	13 526	13 386	13 671	13 445	13 304	13 585
	lb	29,812	29,504	30,131	29,633	29,323	29,942
Static Tipping Load, Straight (Rigid Tire)*	kg	14 333	14 191	14 483	14 254	14 111	14 399
	lb	31,590	31,279	31,920	31,416	31,102	31,736
Static Tipping Load, Articulated (ISO)*	kg	11 638	11 498	11 764	11 561	11 420	11 683
	lb	25,650	25,341	25,929	25,480	25,170	25,750
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 464	12 323	12 595	12 389	12 247	12 516
	lb	27,472	27,160	27,761	27,306	26,992	27,586
Breakout Force** (§)	kN	155	154	168	150	149	162
	lb	34,901	34,621	37,819	33,788	33,510	36,529
Operating Weight*	kg	19 979	20 087	19 930	20 019	20 127	19 970
	lb	44,033	44,271	43,925	44,121	44,359	44,013

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		Material Handling – Pin On					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.60	3.60	3.40	3.80	3.80	3.60
	yd^3	4.71	4.71	4.45	4.97	4.97	4.71
Capacity – Struck (§)	m^3	3.15	3.15	2.95	3.28	3.28	3.11
	yd^3	4.12	4.12	3.86	4.29	4.29	4.07
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2729	2604	2604	2693	2568	2568
	ft/in	8'11"	8'6"	8'6"	8'10"	8'5"	8'5"
Reach at Maximum Lift and 45° Discharge (§)	mm	1438	1540	1540	1474	1576	1576
	ft/in	4'8"	5'0"	5'0"	4'10"	5'2"	5'2"
Reach at Level Lift Arm and Bucket Level (§)	mm	2816	2977	2977	2867	3028	3028
	ft/in	9'2"	9'9"	9'9"	9'4"	9'11"	9'11"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8440	8613	8613	8491	8664	8664
	ft/in	27'9"	28'4"	28'4"	27'11"	28'6"	28'6"
Overall Height with Bucket at Maximum Lift	mm	5614	5614	5614	5662	5662	5662
	ft/in	18'6"	18'6"	18'6"	18'7"	18'7"	18'7"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 838	14 009	14 009	13 869	14 041	14 041
	ft/in	45'5"	46'0"	46'0"	45'6"	46'1"	46'1"
Static Tipping Load, Straight (ISO)*	kg	13 354	13 213	13 489	13 249	13 106	13 379
	lb	29,433	29,121	29,731	29,200	28,886	29,487
Static Tipping Load, Straight (Rigid Tire)*	kg	14 165	14 022	14 305	14 062	13 918	14 197
	lb	31,220	30,905	31,529	30,993	30,675	31,290
Static Tipping Load, Articulated (ISO)*	kg	11 475	11 333	11 592	11 375	11 232	11 487
	lb	25,291	24,979	25,550	25,070	24,756	25,319
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 305	12 162	12 427	12 207	12 063	12 324
	lb	27,122	26,806	27,390	26,906	26,588	27,163
Breakout Force** (§)	kN	145	143	156	139	138	150
	lb	32,610	32,333	35,171	31,355	31,079	33,731
Operating Weight*	kg	20 063	20 171	20 014	20 117	20 225	20 068
	lb	44,218	44,456	44,110	44,337	44,575	44,229

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		General Purpose – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	2.70	2.70	2.50	2.90	2.90	2.70
	yd^3	3.53	3.53	3.27	3.79	3.79	3.53
Capacity – Struck (§)	m^3	2.30	2.30	2.11	2.55	2.55	2.33
	yd^3	3.01	3.01	2.76	3.34	3.34	3.05
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2936	2820	2820	2880	2763	2763
	ft/in	9'7"	9'3"	9'3"	9'5"	9'0"	9'0"
Reach at Maximum Lift and 45° Discharge (§)	mm	1402	1516	1516	1440	1552	1552
	ft/in	4'7"	4'11"	4'11"	4'8"	5'1"	5'1"
Reach at Level Lift Arm and Bucket Level (§)	mm	2622	2783	2783	2691	2852	2852
	ft/in	8'7"	9'1"	9'1"	8'9"	9'4"	9'4"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8246	8419	8419	8315	8488	8488
	ft/in	27'1"	27'8"	27'8"	27'4"	27'11"	27'11"
Overall Height with Bucket at Maximum Lift	mm	5424	5424	5424	5497	5497	5497
	ft/in	17'10"	17'10"	17'10"	18'1"	18'1"	18'1"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 714	13 884	13 884	13 755	13 926	13 926
	ft/in	45'0"	45'7"	45'7"	45'2"	45'9"	45'9"
Static Tipping Load, Straight (ISO)*	kg	13 406	13 268	13 613	13 288	13 149	13 490
	lb	29,547	29,243	30,004	29,288	28,981	29,733
Static Tipping Load, Straight (Rigid Tire)*	kg	14 213	14 074	14 432	14 099	13 958	14 313
	lb	31,326	31,019	31,809	31,075	30,765	31,547
Static Tipping Load, Articulated (ISO)*	kg	11 509	11 371	11 696	11 397	11 258	11 579
	lb	25,366	25,063	25,778	25,119	24,812	25,521
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 335	12 196	12 534	12 227	12 086	12 421
	lb	27,188	26,881	27,626	26,949	26,639	27,377
Breakout Force** (§)	kN	170	169	186	160	159	174
	lb	38,308	38,025	41,807	36,105	35,825	39,220
Operating Weight*	kg	20 277	20 385	20 228	20 339	20 447	20 290
	lb	44,689	44,927	44,581	44,827	45,065	44,719

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		General Purpose – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.10	3.10	2.90	3.30	3.30	3.10
	yd^3	4.05	4.05	3.79	4.32	4.32	4.05
Capacity – Struck (§)	m^3	2.76	2.76	2.54	2.94	2.94	2.72
	yd^3	3.61	3.61	3.32	3.85	3.85	3.56
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2837	2718	2718	2798	2679	2679
	ft/in	9'3"	8'11"	8'11"	9'2"	8'9"	8'9"
Reach at Maximum Lift and 45° Discharge (§)	mm	1475	1585	1585	1503	1613	1613
	ft/in	4'10"	5'2"	5'2"	4'11"	5'3"	5'3"
Reach at Level Lift Arm and Bucket Level (§)	mm	2748	2909	2909	2797	2958	2958
	ft/in	9'0"	9'6"	9'6"	9'2"	9'8"	9'8"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8372	8545	8545	8421	8594	8594
	ft/in	27'6"	28'1"	28'1"	27'8"	28'3"	28'3"
Overall Height with Bucket at Maximum Lift	mm	5558	5558	5558	5604	5604	5604
	ft/in	18'3"	18'3"	18'3"	18'5"	18'5"	18'5"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 789	13 961	13 961	13 818	13 991	13 991
	ft/in	45'3"	45'10"	45'10"	45'5"	45'11"	45'11"
Static Tipping Load, Straight (ISO)*	kg	13 174	13 034	13 374	13 081	12 940	13 278
	lb	29,037	28,728	29,477	28,831	28,520	29,266
Static Tipping Load, Straight (Rigid Tire)*	kg	13 988	13 847	14 200	13 898	13 755	14 107
	lb	30,831	30,519	31,298	30,631	30,316	31,092
Static Tipping Load, Articulated (ISO)*	kg	11 289	11 149	11 470	11 201	11 060	11 379
	lb	24,882	24,573	25,280	24,687	24,376	25,080
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 123	11 981	12 315	12 037	11 894	12 227
	lb	26,720	26,407	27,143	26,530	26,216	26,949
Breakout Force** (§)	kN	153	152	166	147	146	159
	lb	34,451	34,172	37,295	33,132	32,855	35,769
Operating Weight*	kg	20 393	20 501	20 344	20 440	20 548	20 391
	lb	44,946	45,184	44,838	45,048	45,287	44,940

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		General Purpose – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.40	3.40	3.20	3.60	3.60	3.40
	yd^3	4.45	4.45	4.19	4.71	4.71	4.45
Capacity – Struck (§)	m^3	3.04	3.04	2.81	3.18	3.18	2.94
	yd^3	3.98	3.98	3.68	4.16	4.16	3.85
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2779	2660	2660	2753	2633	2633
	ft/in	9'1"	8'8"	8'8"	9'0"	8'7"	8'7"
Reach at Maximum Lift and 45° Discharge (§)	mm	1518	1627	1627	1539	1648	1648
	ft/in	4'11"	5'4"	5'4"	5'0"	5'4"	5'4"
Reach at Level Lift Arm and Bucket Level (§)	mm	2821	2982	2982	2856	3017	3017
	ft/in	9'3"	9'9"	9'9"	9'4"	9'10"	9'10"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8445	8618	8618	8480	8653	8653
	ft/in	27'9"	28'4"	28'4"	27'10"	28'5"	28'5"
Overall Height with Bucket at Maximum Lift	mm	5630	5630	5630	5664	5664	5664
	ft/in	18'6"	18'6"	18'6"	18'7"	18'7"	18'7"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 833	14 006	14 006	13 854	14 028	14 028
	ft/in	45'5"	46'0"	46'0"	45'6"	46'1"	46'1"
Static Tipping Load, Straight (ISO)*	kg	13 037	12 896	13 233	12 970	12 827	13 164
	lb	28,735	28,423	29,167	28,586	28,272	29,014
Static Tipping Load, Straight (Rigid Tire)*	kg	13 855	13 712	14 063	13 789	13 646	13 996
	lb	30,538	30,222	30,996	30,393	30,075	30,847
Static Tipping Load, Articulated (ISO)*	kg	11 159	11 018	11 337	11 095	10 953	11 271
	lb	24,596	24,284	24,986	24,455	24,141	24,842
Static Tipping Load, Articulated (Rigid Tire)*	kg	11 997	11 854	12 185	11 934	11 791	12 122
	lb	26,442	26,126	26,857	26,304	25,987	26,717
Breakout Force** (§)	kN	144	143	156	140	139	151
	lb	32,517	32,240	35,060	31,655	31,379	34,072
Operating Weight*	kg	20 463	20 571	20 414	20 497	20 605	20 448
	lb	45,100	45,339	44,992	45,176	45,414	45,068

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		General Purpose – Fusion QC			Material Handling – Fusion QC		
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.80	3.80	3.60	2.70	2.70	2.50
	yd^3	4.97	4.97	4.71	3.53	3.53	3.27
Capacity – Struck (§)	m^3	3.36	3.36	3.12	2.20	2.20	2.00
	yd^3	4.39	4.39	4.08	2.88	2.88	2.62
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2718	2598	2598	2853	2728	2728
	ft/in	8'11"	8'6"	8'6"	9'4"	8'11"	8'11"
Reach at Maximum Lift and 45° Discharge (§)	mm	1568	1677	1677	1314	1416	1416
	ft/in	5'1"	5'6"	5'6"	4'3"	4'7"	4'7"
Reach at Level Lift Arm and Bucket Level (§)	mm	2902	3063	3063	2641	2802	2802
	ft/in	9'6"	10'0"	10'0"	8'8"	9'2"	9'2"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8526	8699	8699	8265	8438	8438
	ft/in	28'0"	28'7"	28'7"	27'2"	27'9"	27'9"
Overall Height with Bucket at Maximum Lift	mm	5711	5711	5711	5418	5418	5418
	ft/in	18'9"	18'9"	18'9"	17'10"	17'10"	17'10"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 883	14 057	14 057	13 725	13 895	13 895
	ft/in	45'7"	46'2"	46'2"	45'1"	45'8"	45'8"
Static Tipping Load, Straight (ISO)*	kg	12 880	12 737	13 073	13 251	13 114	13 444
	lb	28,389	28,074	28,813	29,206	28,904	29,630
Static Tipping Load, Straight (Rigid Tire)*	kg	13 702	13 558	13 907	14 040	13 902	14 242
	lb	30,201	29,882	30,651	30,944	30,640	31,390
Static Tipping Load, Articulated (ISO)*	kg	11 011	10 868	11 185	11 375	11 238	11 549
	lb	24,268	23,953	24,652	25,070	24,768	25,454
Static Tipping Load, Articulated (Rigid Tire)*	kg	11 852	11 707	12 038	12 183	12 045	12 367
	lb	26,123	25,804	26,532	26,853	26,549	27,258
Breakout Force** (§)	kN	136	134	146	167	166	182
	lb	30,581	30,306	32,844	37,672	37,389	41,057
Operating Weight*	kg	20 542	20 650	20 493	20 283	20 391	20 234
	lb	45,275	45,513	45,167	44,702	44,940	44,594

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		Material Handling – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	2.90	2.90	2.70	3.10	3.10	2.90
	yd^3	3.79	3.79	3.53	4.05	4.05	3.79
Capacity – Struck (§)	m^3	2.40	2.40	2.20	2.61	2.61	2.44
	yd^3	3.14	3.14	2.88	3.41	3.41	3.19
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2811	2685	2685	2779	2653	2653
	ft/in	9'2"	8'9"	8'9"	9'1"	8'8"	8'8"
Reach at Maximum Lift and 45° Discharge (§)	mm	1357	1459	1459	1389	1491	1491
	ft/in	4'5"	4'9"	4'9"	4'6"	4'10"	4'10"
Reach at Level Lift Arm and Bucket Level (§)	mm	2701	2862	2862	2746	2907	2907
	ft/in	8'10"	9'4"	9'4"	9'0"	9'6"	9'6"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8325	8498	8498	8370	8543	8543
	ft/in	27'4"	27'11"	27'11"	27'6"	28'1"	28'1"
Overall Height with Bucket at Maximum Lift	mm	5480	5480	5480	5517	5517	5517
	ft/in	18'0"	18'0"	18'0"	18'2"	18'2"	18'2"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 761	13 932	13 932	13 788	13 959	13 959
	ft/in	45'2"	45'9"	45'9"	45'3"	45'10"	45'10"
Static Tipping Load, Straight (ISO)*	kg	13 142	13 004	13 330	13 048	12 909	13 235
	lb	28,966	28,662	29,381	28,758	28,452	29,170
Static Tipping Load, Straight (Rigid Tire)*	kg	13 934	13 795	14 132	13 841	13 701	14 038
	lb	30,712	30,405	31,147	30,507	30,198	30,941
Static Tipping Load, Articulated (ISO)*	kg	11 272	11 134	11 442	11 182	11 043	11 352
	lb	24,844	24,539	25,219	24,646	24,340	25,020
Static Tipping Load, Articulated (Rigid Tire)*	kg	12 084	11 944	12 264	11 996	11 856	12 175
	lb	26,633	26,326	27,029	26,440	26,131	26,834
Breakout Force** (§)	kN	159	158	173	153	152	166
	lb	35,805	35,524	38,869	34,496	34,217	37,348
Operating Weight*	kg	20 335	20 443	20 286	20 384	20 492	20 335
	lb	44,817	45,055	44,709	44,925	45,163	44,817

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

*** Rock bucket specifications are given on Michelin 23.5R25 XLDD2 L5 Radial tires.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

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

(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Operating Specifications

Bucket Type		Material Handling – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.30	3.30	3.10	3.40	3.40	3.20
	yd^3	4.32	4.32	4.05	4.45	4.45	4.19
Capacity – Struck (§)	m^3	2.78	2.78	2.61	2.92	2.92	2.74
	yd^3	3.64	3.64	3.41	3.82	3.82	3.58
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2747	2622	2622	2719	2593	2593
	ft/in	9'0"	8'7"	8'7"	8'11"	8'6"	8'6"
Reach at Maximum Lift and 45° Discharge (§)	mm	1420	1523	1523	1449	1551	1551
	ft/in	4'7"	4'11"	4'11"	4'9"	5'1"	5'1"
Reach at Level Lift Arm and Bucket Level (§)	mm	2791	2952	2952	2831	2992	2992
	ft/in	9'1"	9'8"	9'8"	9'3"	9'9"	9'9"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8415	8588	8588	8455	8628	8628
	ft/in	27'8"	28'3"	28'3"	27'9"	28'4"	28'4"
Overall Height with Bucket at Maximum Lift	mm	5561	5561	5561	5600	5600	5600
	ft/in	18'3"	18'3"	18'3"	18'5"	18'5"	18'5"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 815	13 987	13 987	13 839	14 012	14 012
	ft/in	45'4"	45'11"	45'11"	45'5"	46'0"	46'0"
Static Tipping Load, Straight (ISO)*	kg	12 958	12 818	13 148	12 885	12 744	13 070
	lb	28,560	28,252	28,979	28,398	28,089	28,807
Static Tipping Load, Straight (Rigid Tire)*	kg	13 754	13 613	13 954	13 683	13 541	13 878
	lb	30,314	30,003	30,756	30,157	29,844	30,588
Static Tipping Load, Articulated (ISO)*	kg	11 098	10 958	11 270	11 028	10 887	11 196
	lb	24,460	24,152	24,839	24,306	23,997	24,676
Static Tipping Load, Articulated (Rigid Tire)*	kg	11 913	11 772	12 096	11 846	11 704	12 024
	lb	26,257	25,946	26,659	26,109	25,796	26,500
Breakout Force** (§)	kN	148	146	159	143	142	154
	lb	33,277	32,999	35,937	32,256	31,979	34,761
Operating Weight*	kg	20 428	20 536	20 379	20 466	20 574	20 417
	lb	45,022	45,260	44,914	45,105	45,343	44,997

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

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(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

950K Wheel Loader Specifications

Operating Specifications

Bucket Type		Material Handling – Fusion QC					
Edge Type		Bolt-On Edges	Teeth and Segments	Tips	Bolt-On Edges	Teeth and Segments	Tips
Capacity – Rated (§)	m^3	3.60	3.60	3.40	3.80	3.80	3.60
	yd^3	4.71	4.71	4.45	4.97	4.97	4.71
Capacity – Struck (§)	m^3	3.10	3.10	2.90	3.28	3.28	3.11
	yd^3	4.05	4.05	3.79	4.29	4.29	4.07
Width (§)	mm	2927	2994	2994	2927	2994	2994
	ft/in	9'7"	9'9"	9'9"	9'7"	9'9"	9'9"
Dump Clearance at Maximum Lift and 45° Discharge (§)	mm	2687	2561	2561	2651	2525	2525
	ft/in	8'9"	8'4"	8'4"	8'8"	8'3"	8'3"
Reach at Maximum Lift and 45° Discharge (§)	mm	1480	1583	1583	1517	1619	1619
	ft/in	4'10"	5'2"	5'2"	4'11"	5'3"	5'3"
Reach at Level Lift Arm and Bucket Level (§)	mm	2876	3037	3037	2927	3088	3088
	ft/in	9'5"	9'11"	9'11"	9'7"	10'1"	10'1"
Digging Depth (§)	mm	90	90	60	90	90	60
	in	3.5"	3.5"	2.3"	3.5"	3.5"	2.3"
Overall Length	mm	8500	8673	8673	8551	8724	8724
	ft/in	27'11"	28'6"	28'6"	28'1"	28'8"	28'8"
Overall Height with Bucket at Maximum Lift	mm	5643	5643	5643	5697	5697	5697
	ft/in	18'7"	18'7"	18'7"	18'9"	18'9"	18'9"
Loader Clearance Circle with Bucket at Carry Position (§)	mm	13 867	14 040	14 040	13 898	14 073	14 073
	ft/in	45'6"	46'1"	46'1"	45'8"	46'3"	46'3"
Static Tipping Load, Straight (ISO)*	kg	12 799	12 658	12 984	12 697	12 555	12 881
	lb	28,210	27,899	28,618	27,985	27,672	28,391
Static Tipping Load, Straight (Rigid Tire)*	kg	13 599	13 456	13 794	13 499	13 355	13 694
	lb	29,972	29,658	30,404	29,752	29,436	30,182
Static Tipping Load, Articulated (ISO)*	kg	10 947	10 806	11 115	10 850	10 708	11 017
	lb	24,128	23,817	24,498	23,915	23,602	24,283
Static Tipping Load, Articulated (Rigid Tire)*	kg	11 767	11 624	11 945	11 672	11 529	11 849
	lb	25,935	25,620	26,327	25,726	25,409	26,117
Breakout Force** (§)	kN	138	137	149	133	132	143
	lb	31,176	30,901	33,524	30,013	29,739	32,198
Operating Weight*	kg	20 506	20 614	20 457	20 560	20 668	20 511
	lb	45,194	45,432	45,086	45,313	45,551	45,205

* Static tipping loads and operating weights shown are based on a global machine configuration with Michelin 23.5R25 XHA2 L3 Radial tires, full fluids, operator, standard counterweight, standard linkage, cold start, roading fenders, Product Link, open differential axles (front/rear), power train guard, secondary steering, and sound suppression.

** Measured 102 mm (4") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

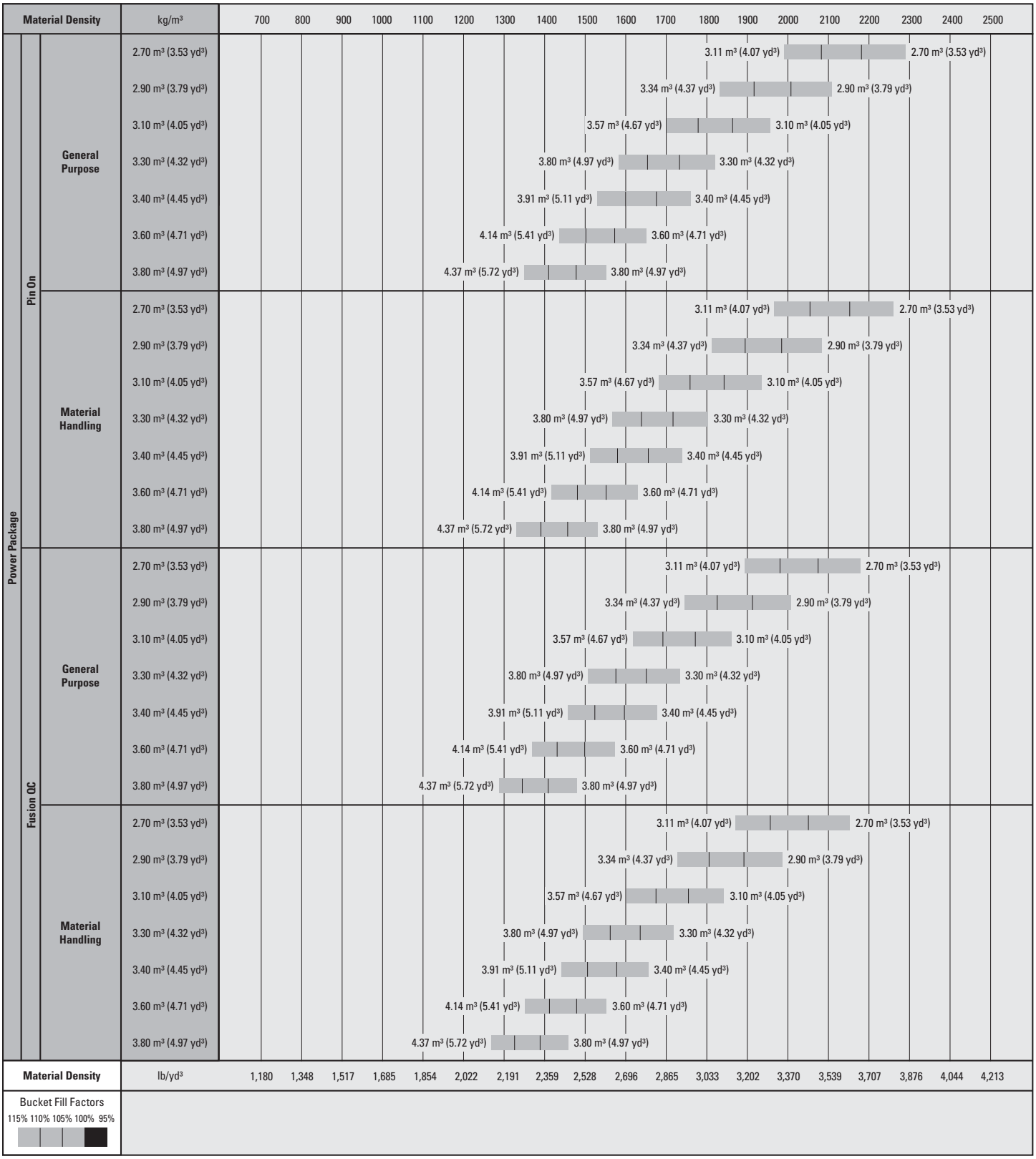
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(Rigid Tire) Compliance to ISO 14397-1 (2007) Sections 1 thru 5.

Bucket Selection Charts



Note: All buckets are showing Bolt-On Edges.
Material Handling buckets are flat floor buckets.

Bucket Fill Factors

(as a % of ISO Rated Capacity)

Loose Material		Performance Series Bucket
Earth/Clay		115
Sand and Gravel		115
Aggregate:	25-76 mm (1 to 3 in)	110
	19 mm (0.75 in) and smaller	105
Rock		100

Note: Fill Factors achieved will also depend on whether the product is washed or not washed.

Change in Specifications

	Width over tires		Change in vertical dimensions		Change in operating weight		Change in static tipping load	
Tires	mm	in	mm	in	kg	lb	kg	lb
23.5R25 VSW BS L2 Radial	2843	112	–36	–1.4	96	212	64	141
23.5R25 VJT BS E3/L3 Radial	2844	112	–31	–1.2	184	406	123	271
23.5R25 VUT BS L2 Radial	2798	110	–38	–1.5	36	79	24	53
23.5R25 VMT BS L3 Radial	2797	110	2	0.1	200	441	133	293
750/65R25 VLT BS E3/L3 Radial	2947	116	–4	–0.2	744	1,640	496	1,093
23.5-25 STR LD FS L3 Bias	2798	110	–10	–0.4	–224	–538	–149	–328
23.5R25 XHA2 MX L3 Radial	2813	110	0	0	0	0	0	0
23.5R25 XLDD2 MX L5 Radial	2816	110	27	–1	608	1,340	405	893
23.5R25 XLD MX L3 Radial	2947	116	–5	–0.2	592	1,305	395	871
725/70-25 LS 150 Titan L4 Bias	2895	114	28	1.1	708	1,561	472	1,041

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

POWER TRAIN

- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)
- Brake wear indicators
- Diesel Particulate Filter (DPF)
- Engine, Cat® C7.1 with Tier 4 Interim rating
- Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
- Fuel Management System (FMS)
- Fuel priming pump, (electric)
- Fuel/water separator
- Glow plugs
- Guard, vandalism
- Precleaner, engine air intake
- Radiator, unit core (6 fpi) with ATAAC
- Switch, transmission neutralizer lockout
- Torque converter (free wheel stator)
- Transmission, automatic planetary power shift (4F/4R)
- Variable Shift Control (VSC)

ELECTRICAL

- Alarm, back-up
- Alternator, 115-amp brushed
- Batteries, (2) maintenance free 1,400 CCA
- Ignition key; start/stop switch
- Lighting system:
  - Four halogen work lights
  - Two halogen roading lights (with signals)
  - Two halogen rear vision lights (hood mounted)
- Main disconnect switch
- Receptacle start (cables not included)
- Starter, electric, heavy duty
- Starting and charging system (24-volt)

OPERATOR ENVIRONMENT

- Air conditioner, heater, and defroster (auto temp and fan)
- Beverage holders (2) with storage compartment for cell phone/MP3 player
- Bucket/work tool function lockout
- Cab, pressurized and sound suppressed, (ROPS/FOPS) radio ready (entertainment) includes antenna, speakers, and converter (12-volt 10-amp)
- Camera, rearview
- Coat hook (2)
- EH controls, lift and tilt function
- EH parking brake
- Computerized Monitoring System
  - Instrumentation, gauges:
    - Digital gear range indicator
    - DPF soot loading percent
    - Engine coolant temperature
    - Fuel level
    - Hydraulic oil temperature
    - Speedometer/tachometer
    - Transmission oil temperature
  - Instrumentation, warning indicators:
    - Axle oil temperature
    - Battery voltage hi/low
    - Engine air filter restriction
    - Engine intake manifold temperature
    - Engine oil pressure
    - Fuel level and pressure hi/low
    - Hydraulic oil filter restriction
    - Hydraulic oil low
    - Parking brake
    - Primary steering oil pressure
    - Service brake oil pressure
    - Transmission filter bypass
- Horn, electric
- Light, two dome (cab)
- Mirrors, rearview external (includes spot mirrors)
- Post mounted membrane switch keypads
- Receptacle, 12-volt
- Seat, Cat Comfort (cloth) air suspension
- Seat belt, retractable, 51 mm (2") wide
- Steering, HMU wheel
- Sun visor, front
- Wet-arm wipers/washers front and rear,
  - Intermittent front wiper
- Window, sliding (left and right side)
- Viscous mounts

TIRES

A tire must be selected from the mandatory attachments section. Base machine price includes a tire allowance.

FLUIDS

Premixed 50% concentration of Extended Life Coolant with freeze protection to –34° C (–29° F)

OTHER STANDARD EQUIPMENT

- Auto idle shutdown
- Couplings, Cat O-ring face seal
- Ecology drains for engine, transmission, and hydraulics
- Ether aid
- Fenders, steel front with mud-flap/rear with extension
- Filters:
  - Fuel, primary/secondary
  - Engine air, primary/secondary
  - Engine oil
  - Hydraulic oil
  - Transmission
- Fuel cooler
- Grease zerks
- Grill, airborne debris
- Hitch, drawbar with pin
- Hood, non-metallic power tilting with rear clamshell
- Hoses, Cat XT
- Hydraulic oil cooler (swing out)
- Hydraulic system, load sensing
- Kickout, lift and tilt, automatic (adjustable in cab)
- Linkage, optimized Z-bar
- Oil sampling valves
- Platform, window washing
- Product Link
- Remote, diagnostic pressure taps
- Service center (electrical and hydraulic)
- Sight gauges: engine coolant, hydraulic oil and transmission oil level
- Toolbox
- Vandalism protection caplocks

950K Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

Power Train
- – Differentials
  - – Open, front or rear
  - – Limited slip, front or rear
- – Extreme temperature seals
- – Seal guards
- – Axle oil cooler 2V/3V
- – Axle oil cooler 4V

Hydraulics arrangement, 2V with ride control
Hydraulics arrangement, 3V with ride control
Hydraulics arrangement, 4V with ride control
Cold start/high altitude package (120V)
Power and traction package
Comfort package
Work lighting package, halogen
Work lighting package, HID
Industrial package
Cab protection package
Fusion coupler
Fusion coupler ready, 2V
Fusion coupler ready, 3V/4V
Bucket and work tool options (contact Cat Work Tools)
Lights, signal LED
Product Link, satellite
Control, aggregate autodig
Command control 2V/3V
Command control 4V
Payload control system
Printer, payload CNTL system
Radio, AM/FM CD/MP3 player
Radio, CB (ready)
Radio, Satellite-XM (Bluetooth capable)
Radio, Satellite-Sirus (Bluetooth capable)
Steering secondary
Filter, carbon fresh air
Seat belt, 76 mm (3") wide
Sun visor, rear
Security system, machine
Cooling, high ambient
Guard, power train
Guard, front window
Guard, complete cab
Guard, front window (Logger)
Autolube
Fenders, narrow front
Fenders, roading with fender extensions front/rear
Precleaner, HVAC
Precleaner, turbine
Precleaner, turbine/trash
Oil change system, high speed
Sound suppression (low) NACD
Fan, variable pitch
Antifreeze, –50° C (–58° F)

Notes

950K Wheel Loader

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