950M/962M

Millyard Loaders

Engine	950M		962M	
Engine Model	Cat® C7.1 ACERT™		Cat C7.1 ACERT	
Maximum Power SAE J1995				
U.S. EPA Tier 4 Final/EU Stage IV	187 kW	250 hp	202 kW	271 hp
Equivalent to Tier 3/Stage IIIA	196 kW	263 hp	196 kW	263 hp

Making Your Choice Easy

Application Specific Configurations
Maximize productivity while keeping your operating costs low. Cat millyard offerings are built for the most demanding environments with a range of options to protect both you and your machine.

RELIABLE, PRODUCTIVE AND FUEL EFFICIENT

- *Up to 10 percent more fuel efficient than the industry-leading K Series**
- *Up to 25 percent more fuel efficient than H Series**
- ***Cat engines with ACERT Technology** meet Tier 4 Final/Stage IV emission standards, or emit equivalent to Tier 3/Stage IIIA, depending on the emission standards of the specific country*
- ***Optimized Z-bar linkage** provides optimal visibility, parallel lift performance and fuel efficiency*
- ***Cat Fusion™ coupler system and suite of millyard work tools** provide a wide range of work tools and allow the same work tool on different sizes of wheel loaders*
- ***Machine guarding options** are available to help protect your machine from the harsh environments ensuring durability and reliability*

EASE OF OPERATION

- ***Best-in-class operator environment** for unmatched operator comfort and efficiency*
- ***Advanced technology with Cat Connect** monitors, manages and enhances job site operations*

SERVICE ACCESS

- *One-piece tilting hood, centralized service centers, windshield cleaning platform and harness tie-off provide best-in-class service access*

Contents

Today is a new generation in the millyard, one that trusts traditional methods supplemented by advanced technologies. Caterpillar's purpose-built medium wheel loaders are a generation that redefines what it means to be successful in millyard applications.

Cat M Series wheel loaders can deliver what you need and expect: the ability to work in tough applications, innovations that enhance production, increased operator safety, serviceability, fuel efficiency, and long-lasting machine durability. All of these features work together, along with a wide range of different types of work tools, to ensure M Series wheel loaders meet your needs in these tough applications.

**Fuel efficiency is measured in mass of material moved per volume of fuel burned. Many factors influence actual results such as, but not limited to, machine configuration, operator technique, machine application, climate, etc.*

Reliable

Proven Components and Technology You Can Count On

Every Tier 4 Final/Stage IV, or equivalent to Tier 3/Stage IIIA engine is equipped with a combination of proven electronic, fuel, air and aftertreatment components, if required.

More Powerful, Reliable Engine Electronics

The electronics used in Tier 4 Final/Stage IV or equivalent Tier 3/Stage IIIA engines are more powerful and robust than ever. Increased features and connection commonality improve the customer experience and increase quality and reliability. Over-foam wiring harness adds to reliability even in the most demanding applications.

Hydraulics

The M Series hydraulic systems have significant design changes and customer value improvements. The main hydraulic valve is a mono-block with an integrated ride control section. The mono-block design reduces weight, has fewer leak points, and is common across all M Series models. Auxiliary hydraulic functions can be easily added at the factory or in the field with the addition of a second remote valve.

Equipment Monitoring

Cat Connect technologies and Cat dealer services take the guesswork out of equipment management. Product Link™ and the online VisionLink® application enable you to monitor real-time machine data and manage machine's health. Your Cat dealer offers expert advice and S·O·S℠ Services to maintain equipment reliability and efficiency.

Cold Start Package

The optional cold start package provides dependable starts in extreme cold weather and high altitudes.

Fuel Efficient

Engineered to Lower Your Operating Costs

Engine and Emissions

Cat ACERT engines are designed for maximum fuel efficiency and increased power density, while meeting Tier 4 Final/Stage IV emission standards, or emitting equivalent to Tier 3/Stage IIIA. This engine features innovative Cat electronics, a fuel injection process, air-management systems; an aftertreatment solution with Cat Selective Catalytic Reduction, and a fuel efficient regeneration system, if required.

Efficient Systems and Components

Innovative systems intelligently lower the average working engine speeds and reduce the overall system heat loads which result in significantly improved performance and fuel efficiency.

Advanced Systems with Innovative Integration

The deep system integration of the engine and emissions system, power train, hydraulic system and cooling system result in lower fuel consumption on average as compared to previous generation machines.

Productive Economy Mode

The productive economy mode automatically controls the engine torque and speed based on the machine's power train load and places engine speed and torque in the most efficient operating range. The result is improved fuel efficiency while delivering optimal performance.

Tier 4 Final/Stage IV Engines

- **Next Generation Fuel Systems** – Cat injection timing precisely controls the fuel injection process through a series of carefully timed microbursts, providing more control of combustion for the cleanest, most efficient fuel burn.
- **Cat NO_x Reduction System** – The Cat NO_x Reduction System (NRS) captures and cools a small quantity of exhaust gas, then routes it back into the combustion chamber where it drives down combustion temperatures and reduces NO_x emissions.
- **Aftertreatment Technologies** – To meet the additional 80 percent reduction in NO_x emissions required by Tier 4 Final/Stage IV emission standards, the Selective Catalytic Reduction (SCR), has been added to the already proven Cat Tier 4 Interim/Stage IIIB aftertreatment solution.

Productive
Work Smart and Move More

Hydraulics
The ride control system has two accumulators enabling it to be more effective over a greater payload range, increasing productivity and operator efficiency.

Transmission
The power trains feature a lock-up clutch torque converter that has been matched with the engine power and hydraulics improving performance and fuel efficiency. These rugged transmissions have a split-flow oil system which uses new multi-viscosity oil to improve fuel economy.

Durable
Better Designed to Meet Your Needs

Frames
The robotically welded two-piece structural frame design provides strong and rigid structures. The M Series articulating hitch system, joining the front and rear frames, provides increased bearing force capacity.

Axles
The M Series axles are designed to handle extreme applications resulting in reliable performance and durable life. 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 for excellent stability and traction.

Easy to Operate
Safe. Comfortable. Efficient.

Ensuring operators are safe, confident in the control of their machines, have a clean, comfortable and quiet operating environment with controls that are intuitive and low effort all contribute to lower operator fatigue and better performance.

Cab Access

A switch has been added to the electronic service center which unlatches the door remotely (optional). The gas strut then swings the door open all while the operator is safely on the ground. The angle of the steps up to the cab have been increased to an optimal fifteen degrees enabling operators to walk up like stairs versus climbing more vertically like a ladder. Grab handles have been repositioned so a secure three points of contact can be maintained at all times.

Visibility

Once in the cab, the new door securely seals against the new roll formed ROPS posts and the lower glass panel has been extended several inches to improve visibility to the left side of the machine. New larger convex mirrors improve visibility to the rear and integrated spot mirrors provide visibility close to both sides of the machine.

Sound

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.

Central Display

The central display panel has a large text box, analog 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 large analog gauges the operator can easily identify if key systems are within normal operating range.

Touch Screen Display

A new multipurpose color touch screen display dramatically simplifies the operator interface; with machine controls, rear vision camera and new fully integrated Cat Production Measurement system. Intuitive navigation with in-language text enables operators to modify certain machine operating parameters and monitor machine conditions literally at the touch of their fingers.

Control Panel

Sealed against moisture and dirt, the centralized switch panel with LEDs provides reliability and ready access to frequently required functions, even while wearing gloves. The ISO symbols located on each membrane switch are molded all the way through to ensure the image will not wear off over time.

The M Series maintains the "help" feature which explains the function of each membrane switch.

Focusing on operator efficiency, the control panel has been streamlined to include easy to reach highly utilized machine controls. The touch screen display enables the relocation of some expanded functions while eliminating the need for a second switch panel for further simplicity and easy machine operation.

Steering Wheel

The steering configuration on these machines offers a low-effort hand metering unit hydraulic steering system. Load sensing steering directs power through the steering system only when needed.

Electro-Hydraulic (EH) Joystick Steering with Force Feedback *(Optional)*

Operators will enjoy and quickly adopt the industry leading seat mounted EH joystick steering system, which provides precision control and dramatically decreases operator arm fatigue.

Implement Controls (EH)

Seat-mounted, single axis implement control levers (joysticks, optional) provide operators 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 are easy to set on-the-go for tilt, lower and lift, and are ideal for repeatable cycles.

Ride Control

The next generation of ride control works as a shock absorber, improving ride quality and smoothness over rough terrain, increasing operator confidence, comfort and efficiency, ensuring excellent material retention.

Integrated Technologies

Monitor, Manage, and Enhance Job Site Operations

Cat Connect makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect services are also available from your dealership including:

EQUIPMENT MANAGEMENT

Equipment Management – increase uptime and reduce operating costs.

PRODUCTIVITY

Productivity – monitor production and manage job site efficiency (applies to bucket applications).

SAFETY

Safety – enhance job site awareness to keep your people and equipment safe.

Consult your local dealer on the services available.

Featured Cat Connect technologies include:

LINK Technologies

LINK technologies wirelessly connect you to your equipment giving you access to essential information you need to know to run your business. Link data can give you valuable insight into how your machine or fleet is performing so you can make timely, fact-based decisions that can boost job site efficiency and productivity.

Product Link/VisionLink

- Product Link is deeply integrated into your machine to take the guesswork out of equipment management.
- Easy access to timely information like machine location, hours, fuel usage, idle time and event codes via the online VisionLink user interface can help you effectively manage your fleet and lower operating cost.

DETECT Technologies

DETECT technologies enhance operator awareness of the environment around working equipment and provide alerts to help keep people and assets safe.

Rear Vision Camera

- Integrated into standard display, enhances visibility behind the machine helping you work confidently.
- Optional second display can be added to provide a dedicated rear view of the job site.

Rear Object Detection (Optional)

- Integrated into touchscreen display, the radar system warns an operator of an object in critical zone while going in reverse.
- Increased awareness of the working environment enhances site safety.

Versatile

Do More Jobs with One Machine, Fusion Quick Coupler and Various Work Tools

Optimized Z-bar Linkage

Parallel lift capabilities, high lift, high tilt forces and versatility provide the optimal solution for millyard applications.

Fusion Quick Coupler

Maximum 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.

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.

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.

Common Interface Compatibility

The Fusion Coupler System 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.

Forks and Buckets

Millyard, Logging, and Log and Lumber Forks are designed to move wood in the millyard. Light Material, General Purpose and Material Handling Buckets are designed with Performance Series characteristics and bring fuel efficiency to load-and-carry work in the yard.

1. **Fusion™ Coupler:** 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.
2. **Millyard Forks:** Specially designed for millyard work, this fork style is ideal for unloading, sorting, decking and feeding logs to the mill.
3. **Grapple Forks:** The new Sorting Grapple Forks and Unloading Grapple Forks are 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.
4. **Logging Forks:** Feature a heavy-duty design for unloading and stacking heavy, tree-length wood.
5. **Log and Lumber Forks:** Ideal for loading and unloading lumber, logs or palletized material.
6. **Pallet Forks:** Handle a variety of banded or baled material. Fusion Pallet Forks feature an open frame design and offset tines for maximum visibility to the tines.
7. **Millyard Pole Forks:** Optimized for pole yards, the Millyard Pole Fork features a refined frame profile and a top clamp that closes tighter to the frame. The result is positive, secure clamping of single poles as they are moved through the yard. The curved frame design promotes a rolling action of the logs for smooth loading and unloading.
8. **Woodchip Buckets:** Extra capacity and loading characteristics and visibility windows make this bucket style perfect for handling woodchip.

Multi-Purpose Buckets: A unique four-way action can load, bulldoze, clamp, and clean up debris.

9. **Performance Series General Purpose and Material Handling Buckets:** Designed for loading, carrying, stockpiling and backfilling in a variety of applications and materials.
10. **High Dump Buckets:** Fuel-saving design earns you more with every pass. Loads easily, dumps at any height for feeding mills and hoppers.

Check with your local Cat dealer for specific work tool attachments available in your region.

To extend the global portfolio of work tools designed for M/M XE Series machines, Caterpillar has an agreement with UFO that enables us to offer a selection of products in addition to Caterpillar Work Tools. The Millyard Tools are manufactured for the Europe, Africa and Middle East markets and manufactured in Sweden.

Application Specific Configuration

Maximize Performance and Productivity While Minimizing Operating Costs

Cooling System

An optional variable pitch fan automatically purges the cooler cores by periodically reversing the airflow when needed. This fan is beneficial in providing more airflow in the reverse direction (when compared to a system that simply reverses the fan rotation), which more thoroughly expels any debris build-up in the cooling cores. The variable pitch fan reduces the need for an air wand used to clean the backside of the cooler cores. For very high debris applications often found in millyards, consider pairing the variable pitch fan with optional high debris cooling cores for a robust solution and reduced maintenance.

An optional axle oil cooling system provides the capability to dissipate heat generated in high energy applications, such as braking with a large load or extended roading.

Air Systems

In conjunction with the standard strata precleaner, the optional turbine engine precleaner extends filter element life and helps to provide clean air to the engine in high debris applications by ejecting saw dust and similar material before it ever reaches the air cleaner. Similar in function, a Cat Advanced Cabin Filtration (ACF) precleaner is also available to extend service intervals of the cabin filter.

Guarding

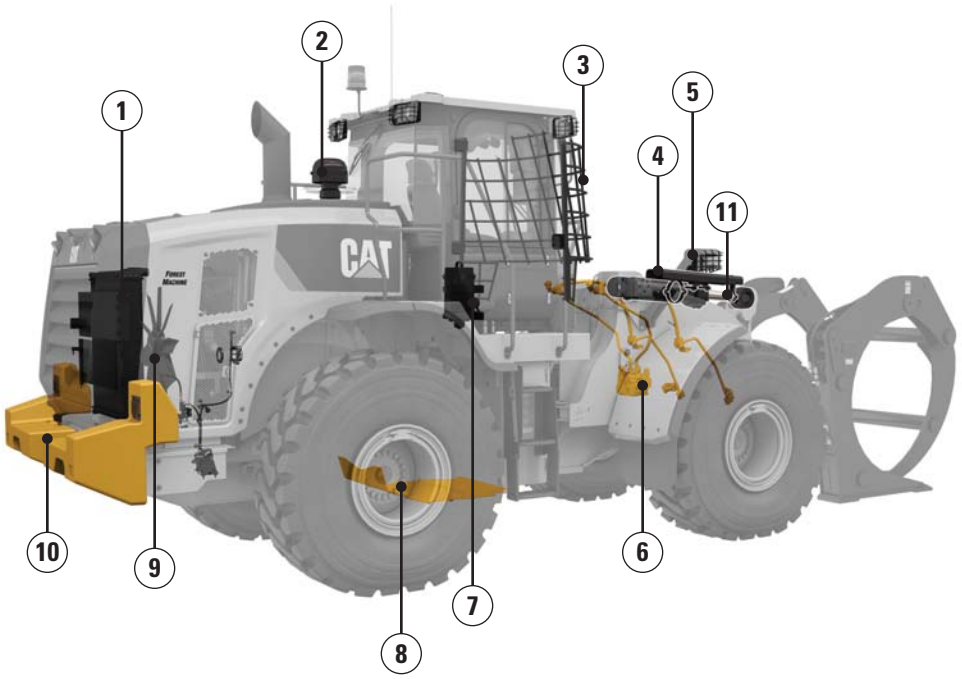
Depending on the level of protection required, three optional guard designs are available to help protect the cab glass from damage while working in tough forestry applications. There are two front windshield guard options and a full cab glass guarding option available. Protecting the underside of the machine, the power train guard prevents debris build-up and damage to major components or systems such as the engine or transmission.

Configured for Success

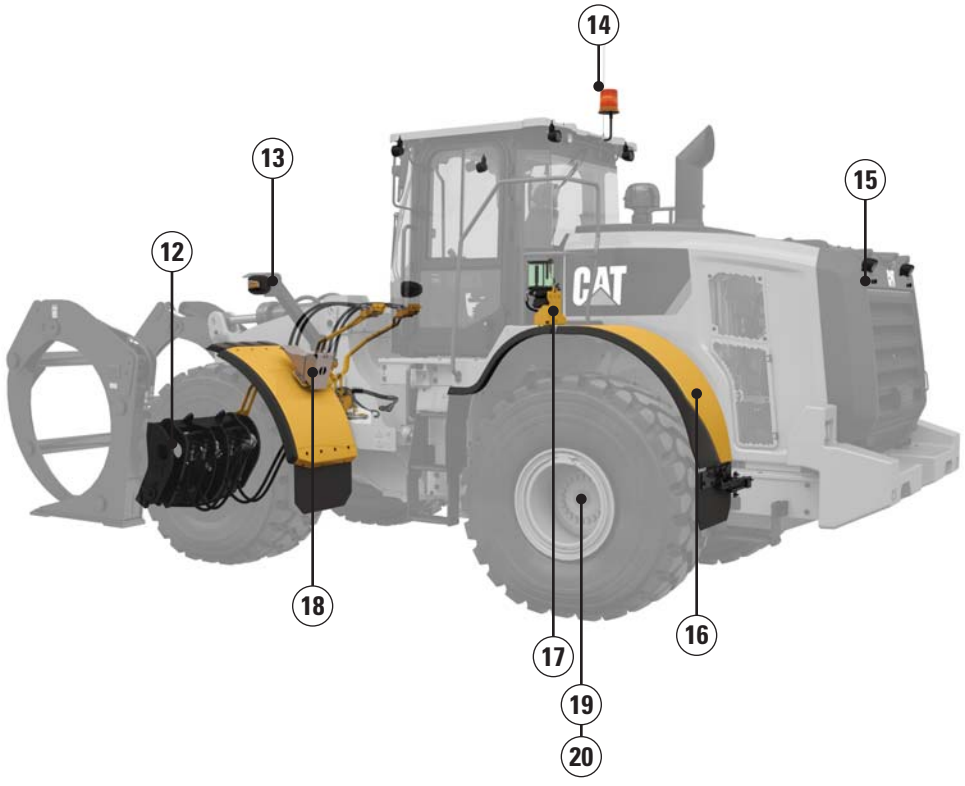
Ready to Work for You

Optional Attachments:

1) *Radiator with Wider Fin Spacing for High Debris Applications*
2) *Engine Precleaner*
3) *Window Guard*
4) *Tilt Cylinder Guard*
5) *Light Guard*
6) *Auxiliary Hydraulics: 3rd and 4th Valve*
7) *Advanced Cabin Filtration*
8) *Power Train Guard*
9) *Variable Pitch Fan*
10) *Counterweight*
11) *Logger Linkage*
    a. *Larger Lift Cylinders*
    b. *Larger Tilt Cylinders*



12) *Fusion Coupler*
13) *LED Lights*
14) *Warning Beacon*
15) *Strobe Lights*
16) *Roading Fenders*
17) *Cat Autolube*
18) *Wheel Chocks*
19) *Axle Oil Coolers (front, rear)*
20) *Traction Aid: Automatic Front/Rear Differential Locks (manual front is standard)*
21) *Low Profile Tires (not shown)*



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.

Cat Autolube System
The optional, fully integrated Cat Autolube system provides full system monitoring and diagnostic test visibility by being integrated into the machine, display and VisionLink. Easy access to the refill pump and grease zerks means simple, fast servicing.

Parts Availability
Caterpillar provides an unsurpassed level of personalized service to help you work more cost effectively and efficiently. 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

Customer machine data shows Cat wheel loaders are the most fuel efficient machines in the industry. Several features contribute to this excellent fuel efficiency:

- **Deep system integration between engine, hydraulics, transmission and ride control** results in reduced emissions, more productivity, and lower fuel consumption without interrupting machine performance.
- **Manual/automatic differential** locks increase traction and reduce tire scuffing lowering operating costs.
- **Productive economy mode** optimizes engine torque and speed further reducing fuel consumption.
- **External caliper disc parking brake** makes maintenance easily accessible.
- **Adjustable automatic idle engine shutdown system** reduces idle time, overall operating hours and fuel consumption.
- **Lock-up clutch torque converter and shift strategy** increases driveline efficiency with reduced torque interruption conserving fuel. Auto 1-D transmission mode keeps engine speed low reducing fuel consumption while delivering optimal machine performance.

Customer Support

Unmatched Support Makes the Difference

Renowned Cat Dealer Support

- Your Cat dealer is ready to help you every step of the way. From new or used machine sales, to rental or rebuild options, your Cat dealer can provide an optimal solution to your business needs.
- Unsurpassed worldwide parts availability, trained technicians and customer support agreements maximize your machine uptime.
- Financing options are offered to meet a variety of customer needs.

Serviceable

Easy to Maintain. Easy to Service.

Engine Access

The Cat sloped “one-piece” tilting hood provides industry leading access to the engine. Its design provides the best-in-class service access to engine, oil levels and coolant sight gauge.

Cooling System

The cooling system is readily accessible for clean out and maintenance. With nine cooling fins per 25.4 mm (1.0 in) and a perforated grill, most airborne debris entering the system passes through the cooler cores. The hydraulic and A/C cooler cores swing out providing easy access to both sides for cleaning. An access panel on the left side of the cooling package swings down to provide access to the back side of the engine coolant and Air-to-Air After Cooler (ATAAC). An optional variable pitch fan can automatically purge the cooler cores by periodically reversing the airflow when needed.

Service Centers

The electrical and hydraulic service centers provide grouped access to numerous features, enhancing safety and convenience for your operators and service technicians, while reducing service time.

The electrical service center, located beneath the left platform, 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.

Hydraulic system components are protected by full flow and kidney-loop filtration. A filter in the hydraulic tank return line filters all of the oil returning to the tank. There is also a case drain screen for additional protection and finally, a separate kidney-loop filter with a finer micron rating continuously filters smaller particles out of the system. This multilevel design ensures the hydraulic oil is clean and thoroughly protects the rest of the hydraulic system from contamination. A thermal bypass valve has been added to improve hydraulic system warm-up.

The hydraulic service centers are now virtually identical for the M Series product line. This consistent layout makes it easier for service technicians who work on a variety of M Series models.

Engine

- Cat engine with ACERT Technology.
- The power ratings apply at the stated speed when tested under the reference conditions for the specified standards.
- The net power advertised is the power available at the flywheel when the engine is equipped with fan, alternator, air cleaner and aftertreatment.
- The gross power advertised is with the fan at maximum speed.

Emission Standards	**Tier 4 Final/Stage IV**				**Equivalent to Tier 3/Stage IIIA**			
	950M		**962M**		**950M**		**962M**	
Engine Model	Cat C7.1		Cat C7.1		Cat C7.1		Cat C7.1	
Displacement	7.01 L	428 in³	7.01 L	428 in³	7.01 L	428 in³	7.01 L	428 in³
Bore	105 mm	4.13 in	105 mm	4.13 in	105 mm	4.13 in	105 mm	4.13 in
Stroke	135 mm	5.31 in	135 mm	5.31 in	135 mm	5.31 in	135 mm	5.31 in
Maximum Gross Power								
SAE J1995	187 kW	250 hp	202 kW	271 hp	196 kW	263 hp	196 kW	263 hp
Engine Speed	2,100 rpm		2,100 rpm		2,000 rpm		2,000 rpm	
Maximum Power								
ISO 14396	186 kW	249 hp	201 kW	269 hp	195 kW	261 hp	195 kW	261 hp
Engine Speed	2,100 rpm		2,100 rpm		2,000 rpm		2,000 rpm	
Maximum Net Power								
SAE J1349	171 kW	230 hp	186 kW	250 hp	185 kW	248 hp	185 kW	248 hp
ISO 9249	171 kW	230 hp	186 kW	250 hp	185 kW	248 hp	185 kW	248 hp
Engine Speed	2,000 rpm		2,000 rpm		2,000 rpm		2,000 rpm	
Peak Gross Torque								
SAE J1995	1235 N·m	911 lbf-ft	1249 N·m	921 lbf-ft	1053 N·m	777 lbf-ft	1053 N·m	777 lbf-ft
Engine Speed	1,300 rpm		1,350 rpm		1,400 rpm		1,400 rpm	
Peak Torque								
ISO 14396	1231 N·m	908 lbf-ft	1249 N·m	921 lbf-ft	1050 N·m	774 lbf-ft	1050 N·m	774 lbf-ft
Engine Speed	1,300 rpm		1,350 rpm		1,400 rpm		1,400 rpm	
Maximum Net Torque								
SAE J1349	1163 N·m	858 lbf-ft	1172 N·m	865 lbf-ft	984 N·m	726 lbf-ft	984 N·m	726 lbf-ft
ISO 9249	1163 N·m	858 lbf-ft	1172 N·m	865 lbf-ft	984 N·m	726 lbf-ft	984 N·m	726 lbf-ft
Engine Speed	1,300 rpm		1,350 rpm		1,400 rpm		1,400 rpm	

M Series Wheel Loader Specifications

Cab/Sound

ROPS	ISO 3471:2008
FOPS	ISO 3449:2005 Level II

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.

	950M	962M
With Cooling Fan Speed at Maximum Value:		
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)	70 dB(A)
Exterior Sound Power Level (ISO 6395:2008)	107 dB(A)	107 dB(A)
Exterior Sound Pressure Level (SAE J88:2013)*	75 dB(A)	75 dB(A)

*Distance of 15 m (49.2 ft), moving forward in second gear ratio.

Loader Hydraulic System

- Mono-block main hydraulic valve design reduces weight and has 40 percent fewer leak points than previous designs.
- Auxiliary third and fourth hydraulic functions can be easily added at the factory or in the field with the addition of a second remote valve.
- Ride control system now has two accumulators enabling it to be more effective over a greater payload range, increasing productivity and operator efficiency due to a better ride.

	950M Logger		962M Logger	
Maximum Flow – Implement Pump	286 L/min	76 gal/min	286 L/min	76 gal/min
3rd Function Maximum Flow	240 L/min	63 gal/min	240 L/min	63 gal/min
4th Function Maximum Flow	240 L/min	63 gal/min	240 L/min	63 gal/min
Maximum Working Pressure – Implement Pump*	29 300 kPa	4,250 psi	29 300 kPa	4,250 psi
3rd Function Maximum Working Pressure	21 780 kPa	3,159 psi	21 780 kPa	3,159 psi
4th Function Maximum Working Pressure	21 780 kPa	3,159 psi	21 780 kPa	3,159 psi

*Pressure is adjustable to set for specific tools and applications. Consult your local Cat dealer for further details.

Steering

- Steering system uses a dedicated load sensing variable displacement pump with dual double acting cylinders.

	950M		962M	
Maximum Flow				
Steering Pump EH	140 L/min	37 gal/min	140 L/min	37 gal/min
Steering Pump HMU	146 L/min	39 gal/min	146 L/min	39 gal/min
Maximum Working Pressure – Steering Pump	23 400 kPa	3,394 psi	23 400 kPa	3,394 psi

Transmission

- Standard lock-up clutch torque converter matched with the engine power and hydraulics to improve performance and fuel efficiency.
- Powershift transmissions also have a split-flow oil system which use new multi-viscosity oil to improve fuel economy.

	950M		962M	
Forward 1	6.9 km/h	4.3 mph	6.9 km/h	4.3 mph
Forward 2	12.0 km/h	7.5 mph	12.0 km/h	7.5 mph
Forward 3	19.3 km/h	12.0 mph	19.3 km/h	12.0 mph
Forward 4	25.7 km/h	16.0 mph	25.7 km/h	16.0 mph
Forward 5	39.5 km/h	24.5 mph	39.5 km/h	24.5 mph
Reverse 1	6.9 km/h	4.3 mph	6.9 km/h	4.3 mph
Reverse 2	12.0 km/h	7.5 mph	12.0 km/h	7.5 mph
Reverse 3	25.7 km/h	16.0 mph	25.7 km/h	16.0 mph
Reverse 4	—	—	—	—

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

M Series Wheel Loader Specifications

Service Refill Capacities

	950M		962M	
Fuel Tank	275 L	72.6 gal	275 L	72.6 gal
Diesel Exhaust Fluid (DEF) Tank*	16 L	4.2 gal	16 L	4.2 gal
Cooling System	59 L	15.6 gal	59 L	15.6 gal
Engine Crankcase	22 L	5.8 gal	22 L	5.8 gal
Transmission (gear box)	43 L	11.4 gal	43 L	11.4 gal
Axles				
Front	43 L	11.4 gal	43 L	11.4 gal
Rear	43 L	11.4 gal	43 L	11.4 gal
Hydraulic Tank	125 L	33.0 gal	125 L	33.0 gal

*Must meet the requirements outlined in ISO 22241-1 for Tier 4 Final/Stage IV models.

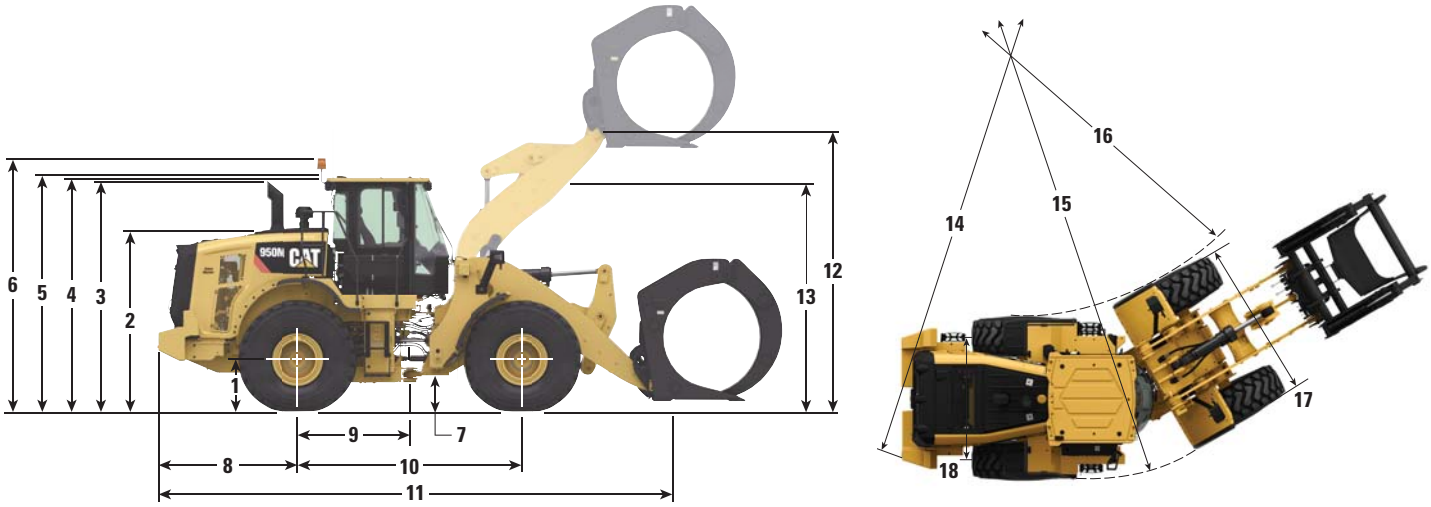
Power Train

- M Series axles are designed to handle extreme applications resulting in reliable performance and durable life.
- 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 for excellent stability and traction.
- External caliper disc parking brakes mounted to the input shaft of the front axles. Since they are external, they do not have the inefficiencies of enclosed wet parking brakes due to brake discs running in oil nor is there any oil to change reducing fuel and maintenance costs. External caliper parking brakes are easily accessible for inspection and service.

	950M	962M
Front Axle	Fixed	Fixed
Traction Aid (standard)	Manual differential lock	Manual differential lock
Traction Aid (optional)	Auto differential lock	Auto differential lock
Rear Axle	Oscillating	Oscillating
Oscillation Angle by Tire Size		
23.5 R25	±13 degrees	±13 degrees
Traction Aid (standard)	Open differential	Open differential
Traction Aid (optional)	Auto differential lock	Auto differential lock
Brakes		
Service	Inboard wet disc	Inboard wet disc
Park	Spring applied hydraulically released	Spring applied hydraulically released

Wheel Loader Dimensions

All dimensions are approximate.



		950M Logger Linkage*		962M Logger Linkage**	
1	Height to Axle Centerline	747 mm	2'5"	747 mm	2'5"
2	Height to Top of Hood	2697 mm	8'10"	2697 mm	8'10"
3	Height to Top of Exhaust Pipe	3413 mm	11'2"	3413 mm	11'2"
4	Height to Top of ROPS	3451 mm	11'4"	3451 mm	11'4"
5	Height to Top of Product Link Antenna	3653 mm	12'0"	3653 mm	12'0"
6	Height to Top of Warning Beacon	3747 mm	12'4"	3747 mm	12'4"
7	Ground Clearance	367 mm	1'2"	367 mm	1'2"
8	Center Line of Rear Axle to Edge of Counterweight	1942 mm	6'4"	1942 mm	6'4"
9	Center Line of Rear Axle to Hitch	1675 mm	5'6"	1675 mm	5'6"
10	Wheelbase	3350 mm	11'0"	3350 mm	11'0"
11	Overall Length (without sorting grapple)	6906 mm	22'8"	7488 mm	24'7"
12	Hinge Pin Height at Maximum Lift	4027 mm	13'3"	4527 mm	14'10"
13	Lift Arm Clearance at Maximum Lift	3280 mm	10'9"	3634 mm	11'11"
14	Clearance Circle (radius) to Counterweight	6023 mm	19'10"	6023 mm	19'10"
15	Clearance Circle (radius) to Outside of Tires	5985 mm	19'8"	6001 mm	19'9"
16	Clearance Circle (radius) to Inside of Tires	3219 mm	10'7"	3219 mm	10'7"
17	Width over Tires (unloaded)	2814 mm	9'3"	2814 mm	9'3"
	Width over Tires (loaded)	2822 mm	9'3"	2822 mm	9'3"
18	Tread Width	2140 mm	7'0"	2140 mm	7'0"

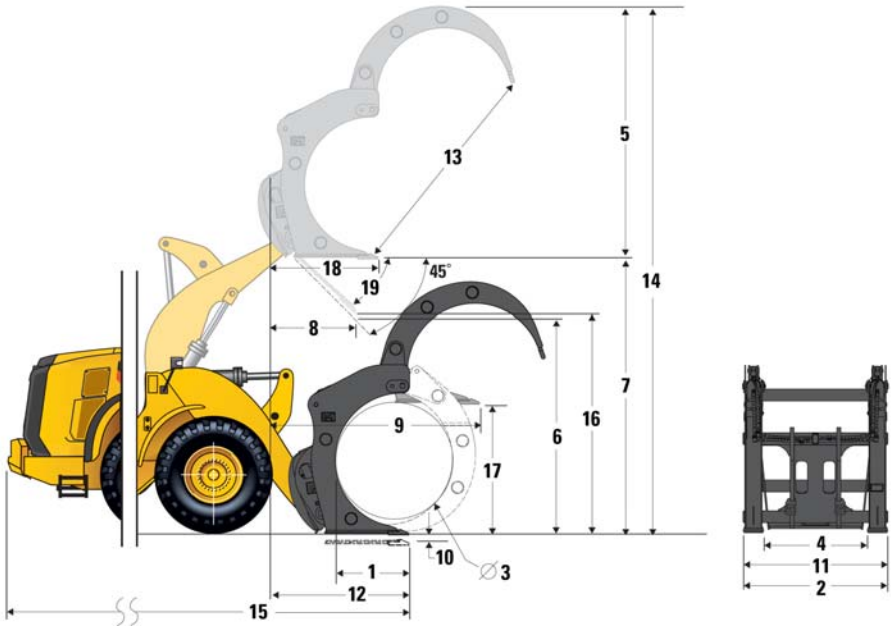
*950M dimensions listed are for a machine configured with an auxiliary counterweight, 2.63 m² (28 ft²) Pin-On Sorting Grapple, and Michelin 23.5R25 XHA2 L3 radial tires.

**962M dimensions listed are for a machine configured with a logger counterweight, 2.63 m² (28 ft²) Pin-On Sorting Grapple, and Michelin 23.5R25 XHA2 L3 radial tires.

"Width Over Tires" dimensions are over the bulge and include growth.

Dimensions will vary slightly depending on the tire selection.

Operating Specifications with Sorting Grapples



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**
1 Tine Length	mm	1220	1220	1220	1220
	in	48.0	48.0	48.0	48.0
2 Fork Width	mm	1855	1855	1855	1855
	in	73.0	73.0	73.0	73.0
3 Minimum Opening (only applies to millyard forks)	mm	—	—	—	—
	in	—	—	—	—
4 Distance Inside of Tine Tips	mm	1314	1314	1314	1314
	in	52.0	52.0	52.0	52.0
5 Maximum Height of Fork	mm	3352	3356	3352	3356
(with clamp open if applicable)	in	132.0	132.1	132.0	132.1
6 Clearance with Full Lift, 45° Dump	mm	2853	2853	3044	3044
(if maximum dump <> 45°)	in	112.3	112.3	119.9	119.9
7 Clearance @ Full Lift Fork Level	mm	3759	3759	3950	3950
	in	148.0	148.0	155.5	155.5
8 Reach with Full Lift, 45° Dump	mm	1350	1350	1306	1306
(if maximum dump <> 45°)	in	53.1	53.1	51.4	51.4
9 Reach with Lift Arm Horizontal and Fork Level	mm	2701	2701	2798	2798
	in	106.3	106.3	110.2	110.2
10 Digging Depth	mm	–68	–68	–67	–67
	in	–2.7	–2.7	–2.6	–2.6
11 Width Over Tines	mm	1850	1850	1850	1850
	in	72.8	72.8	72.8	72.8
12 Reach @ Ground Level	mm	2096	2096	2218	2218
	in	83.0	83.0	87.0	87.0

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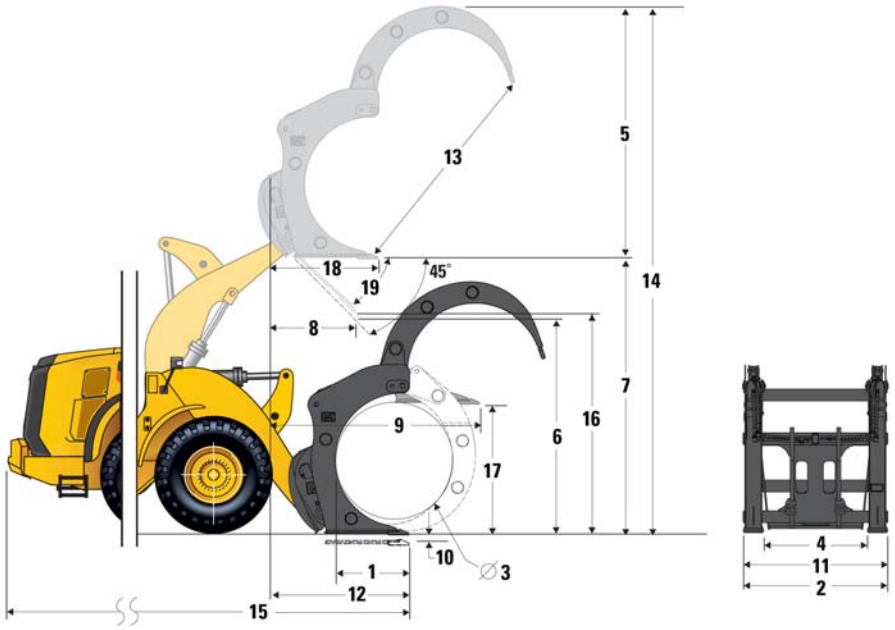
Operating Specifications with Sorting Grapples *(continued)*



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**	**2.63 m² (28 ft²)**
13 Maximum Opening Across Tine and Clamp	mm	3027	3027	3027	3027
	in	119.2	119.2	119.2	119.2
14 Overall Height of Fork @ Full Lift and Clamp Open	mm	7111	7115	7302	7306
	in	280.0	280.1	287.5	287.6
15 Overall Length (tip of tine to rear of machine)	mm	8323	8323	8560	8560
	in	327.7	327.7	337.0	337.0
16 Clearance @ Full Lift and Maximum Dump Discharge (if <> 45°)	mm	2841	2719	3034	2911
	in	111.9	107.0	119.4	114.6
17 Clearance with Horizontal Lift Arms and Fork Level	mm	1798	1798	1798	1798
	in	70.8	70.8	70.8	70.8
18 Reach @ Full Lift and Fork Level	mm	1963	1963	1920	1920
	in	77.3	77.3	75.6	75.6
19 Maximum Discharge Angle from Horizontal	degrees	46	57	46	57
	radius	0.8	1.0	0.8	1.0
Static Tipping Load, Articulated Fork Level (with tire deflection)	kg	7972	7848	8826	8710
	lb	17,576	17,302	19,458	19,202
Static Tipping Load, Straight Fork Level (with tire deflection)	kg	9377	9285	10 425	10 345
	lb	20,672	20,471	22,983	22,807
Operating Weight	kg	20 273	20 759	21 286	21 772
	lb	44,694	45,766	46,926	47,998

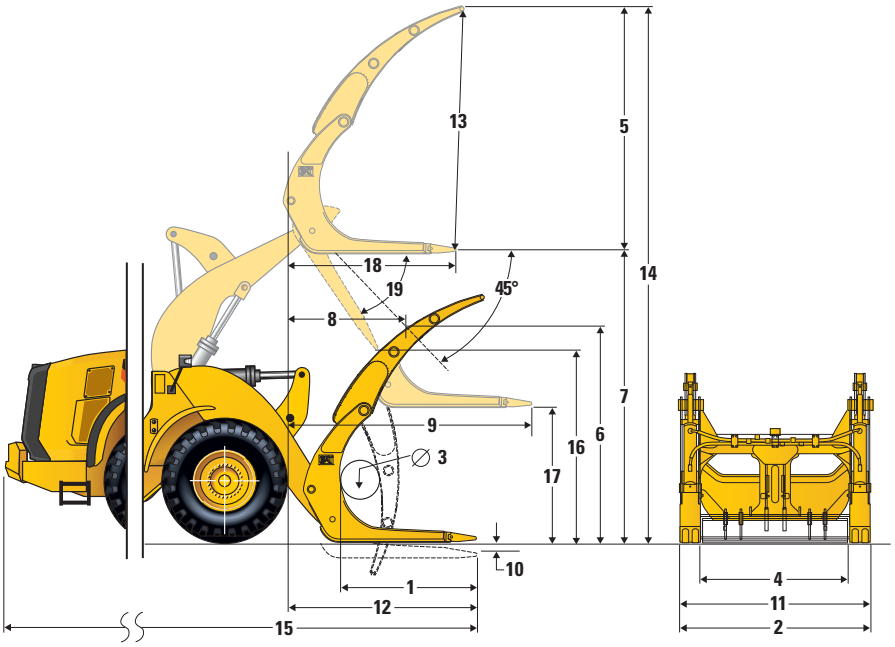
(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Note: Static tipping loads and operating weight are based on the following loader configuration: L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

Consult your dealer to determine the rated operating load using the applicable logging fork load chart per application ground conditions and hydraulic limit (CEN EN 474-3).

Additional work tools are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with Millyard Forks



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**
1 Tine Length	mm	1609	1609	1609	1609
	in	63.3	63.3	63.3	63.3
2 Fork Width	mm	2324	2324	2324	2324
	in	91.5	91.5	91.5	91.5
3 Minimum Opening (only applies to millyard forks)	mm	427	427	427	427
	in	17.0	17.0	17.0	17.0
4 Distance Inside of Tine Tips	mm	1780	1780	1780	1780
	in	70.0	70.0	70.0	70.0
5 Maximum Height of Fork (with clamp open if applicable)	mm	2843	2843	2843	2843
	in	111.9	111.9	111.9	111.9
6 Clearance with Full Lift, 45° Dump (if maximum dump <> 45°)	mm	2641	2554	2832	2745
	in	104.0	100.6	111.5	108.1
7 Clearance @ Full Lift Fork Level	mm	3773	3787	3964	3978
	in	148.6	149.1	156.1	156.6
8 Reach with Full Lift, 45° Dump (if maximum dump <> 45°)	mm	1582	1688	1538	1644
	in	62.3	66.5	60.5	64.7
9 Reach with Lift Arm Horizontal and Fork Level	mm	3015	3152	3112	3249
	in	118.7	124.1	122.5	127.9
10 Digging Depth	mm	–54	–40	–53	–39
	in	–2.1	–1.6	–2.1	–1.5
11 Width Over Tines	mm	2286	2286	2286	2286
	in	90.0	90.0	90.0	90.0
12 Reach @ Ground Level	mm	2399	2526	2521	2648
	in	94.0	99.0	99.0	104.0

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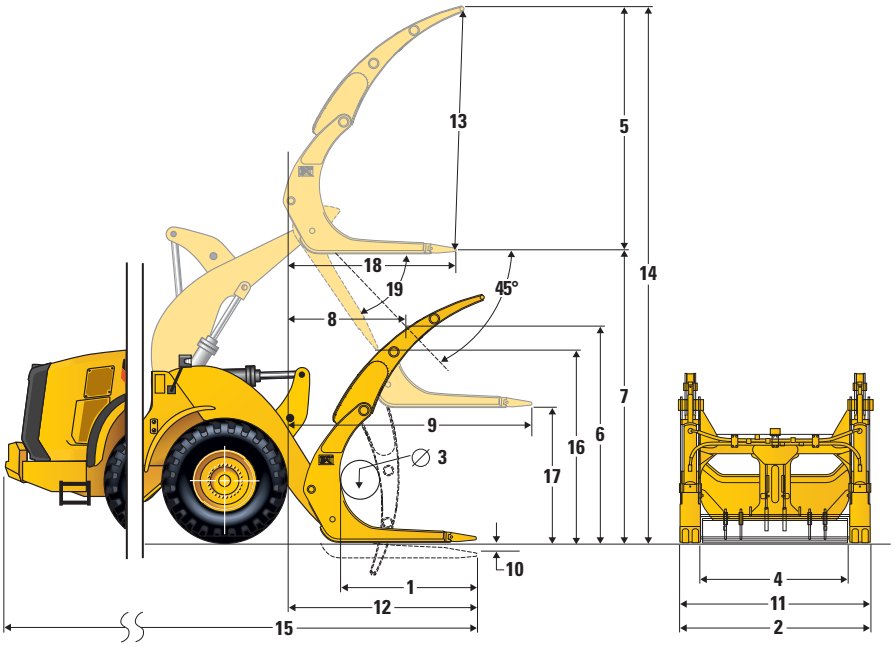
Operating Specifications with Millyard Forks *(continued)*



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**	**1.26 m² (14 ft²)**
13 Maximum Opening Across Tine and Clamp	mm	2709	2709	2709	2709
	in	106.7	106.7	106.7	106.7
14 Overall Height of Fork @ Full Lift and Clamp Open	mm	6617	6630	6807	6821
	in	260.5	261.0	268.0	268.5
15 Overall Length (tip of tine to rear of machine)	mm	8626	8753	8863	8990
	in	339.6	344.6	348.9	354.0
16 Clearance @ Full Lift and Maximum Dump Discharge (if <> 45°)	mm	2625	2278	2819	2471
	in	103.4	89.7	111.0	97.3
17 Clearance with Horizontal Lift Arms and Fork Level	mm	1812	1826	1812	1826
	in	71.3	71.9	71.3	71.9
18 Reach @ Full Lift and Fork Level	mm	2277	2415	2234	2371
	in	89.7	95.1	87.9	93.3
19 Maximum Discharge Angle from Horizontal	degrees	46	63	46	63
	radius	0.8	1.1	0.8	1.1
Static Tipping Load, Articulated Fork Level (with tire deflection)	kg	9029	8036	9959	8936
	lb	19,905	17,716	21,955	19,700
Static Tipping Load, Straight Fork Level (with tire deflection)	kg	10 642	9577	11 788	10 686
	lb	23,462	21,113	25,989	23,558
Operating Weight	kg	20 548	21 220	21 561	22 233
	lb	45,301	46,782	47,533	49,014

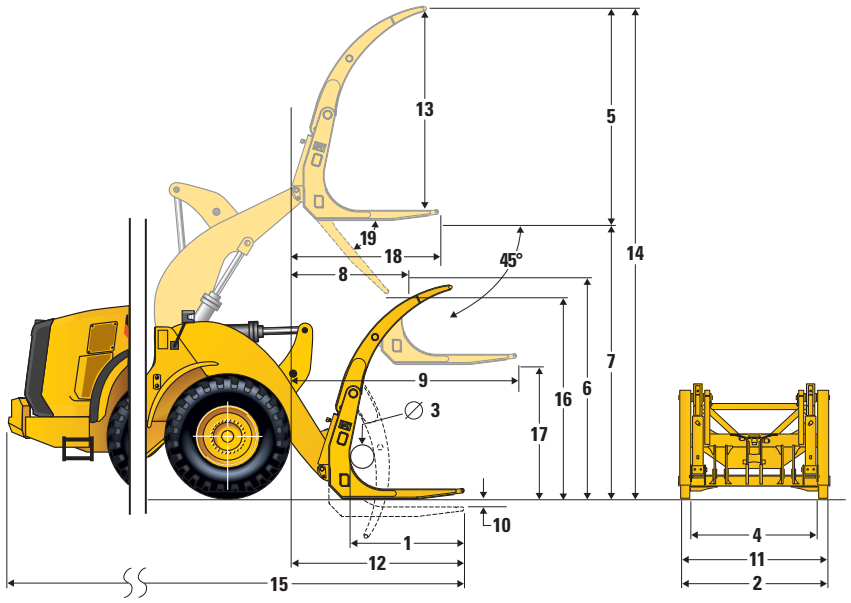
(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Note: Static tipping loads and operating weight are based on the following loader configuration: L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

Consult your dealer to determine the rated operating load using the applicable logging fork load chart per application ground conditions and hydraulic limit (CEN EN 474-3).

Additional work tools are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with Millyard Pole Forks



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**
1 Tine Length	mm	1677	1677	1677	1677
	in	66.0	66.0	66.0	66.0
2 Fork Width	mm	2236	2236	2236	2236
	in	88.0	88.0	88.0	88.0
3 Minimum Opening (only applies to millyard forks)	mm	330	330	330	330
	in	13.0	13.0	13.0	13.0
4 Distance Inside of Tine Tips	mm	1904	1904	1904	1904
	in	75.0	75.0	75.0	75.0
5 Maximum Height of Fork (with clamp open if applicable)	mm	3144	3148	3144	3148
	in	123.8	123.9	123.8	123.9
6 Clearance with Full Lift, 45° Dump (if maximum dump <> 45°)	mm	2374	2359	2565	2550
	in	93.5	92.9	101.0	100.4
7 Clearance @ Full Lift Fork Level	mm	3671	3747	3862	3938
	in	144.5	147.5	152.0	155.0
8 Reach with Full Lift, 45° Dump (if maximum dump <> 45°)	mm	1705	1827	1661	1783
	in	67.1	71.9	65.4	70.2
9 Reach with Lift Arm Horizontal and Fork Level	mm	3291	3388	3388	3486
	in	129.5	133.4	133.4	137.2
10 Digging Depth	mm	–156	–80	–155	–79
	in	–6.1	–3.2	–6.1	–3.1
11 Width Over Tines	mm	2184	2184	2184	2184
	in	86.0	86.0	86.0	86.0
12 Reach @ Ground Level	mm	2750	2793	2869	2914
	in	108.0	110.0	113.0	115.0

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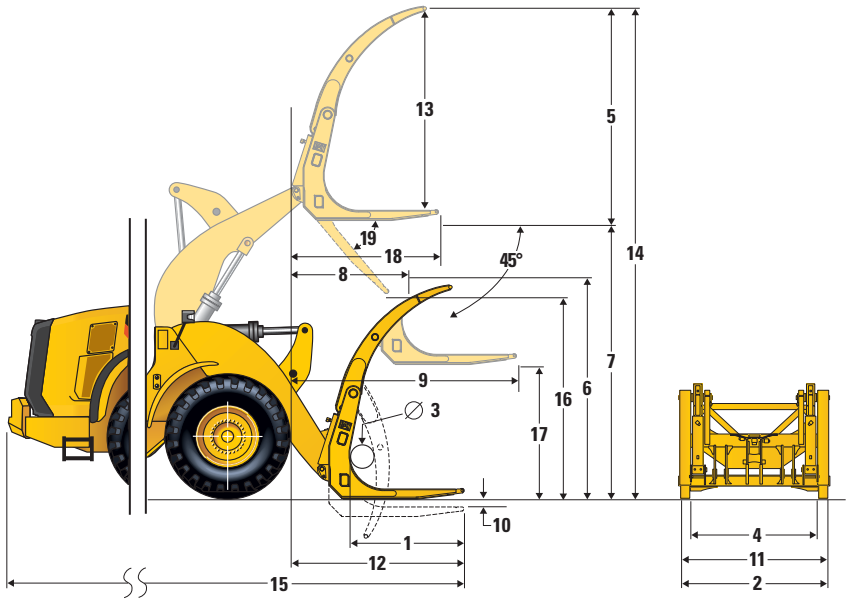
Operating Specifications with Millyard Pole Forks *(continued)*



Machine and Linkage		950M Logger	950M Logger	962M Logger	962M Logger
Interface		**Pin-On**	**Fusion**	**Pin-On**	**Fusion**
End Area		**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**	**1.39 m² (15 ft²)**
13 Maximum Opening Across Tine and Clamp	mm	2914	2914	2914	2914
	in	114.7	114.7	114.7	114.7
14 Overall Height of Fork @ Full Lift and Clamp Open	mm	6815	6895	7005	7086
	in	268.3	271.4	275.8	279.0
15 Overall Length (tip of tine to rear of machine)	mm	8977	9020	9211	9256
	in	353.4	355.1	362.6	364.4
16 Clearance @ Full Lift and Maximum Dump Discharge (if <> 45°)	mm	2356	2178	2550	2372
	in	92.8	85.8	100.4	93.4
17 Clearance with Horizontal Lift Arms and Fork Level	mm	1710	1786	1710	1786
	in	67.3	70.3	67.3	70.3
18 Reach @ Full Lift and Fork Level	mm	2553	2651	2509	2607
	in	100.5	104.4	98.8	102.6
19 Maximum Discharge Angle from Horizontal	degrees	46	54	46	54
	radius	0.8	0.9	0.8	0.9
Static Tipping Load, Articulated Fork Level (with tire deflection)	kg	8772	8101	9656	8964
	lb	19,339	17,859	21,287	19,762
Static Tipping Load, Straight Fork Level (with tire deflection)	kg	10 252	9539	11 338	10 600
	lb	22,602	21,030	24,997	23,370
Operating Weight	kg	19 927	20 488	20 940	21 501
	lb	43,932	45,168	46,164	47,400

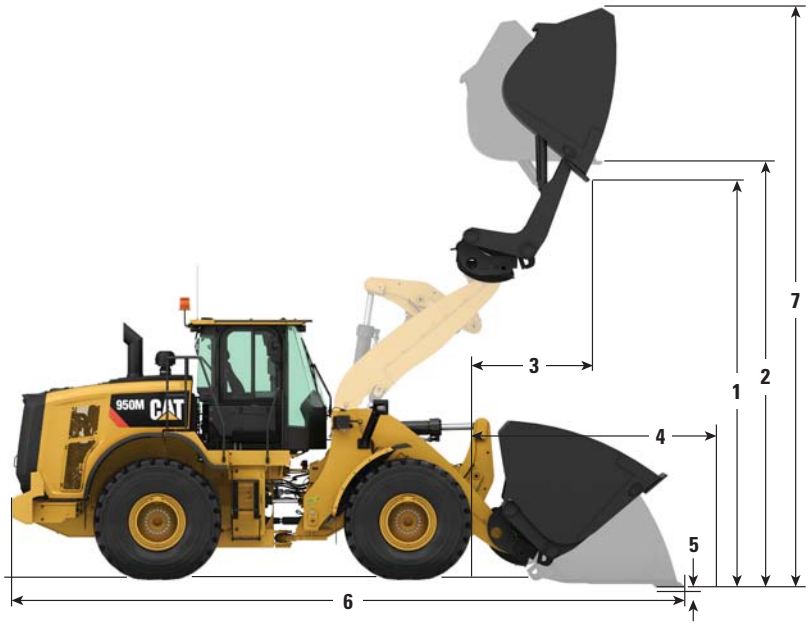
(With Tire Deflection) Full compliance to ISO 14397-1:2007 Sections 1 thru 6, which requires 2% verification between calculations and testing.

Note: Static tipping loads and operating weight are based on the following loader configuration: L3 Michelin XHA tires, air conditioning, ride control, power train guard, full fluids, fuel tank, coolant, lubricants, and operator.

Consult your dealer to determine the rated operating load using the applicable logging fork load chart per application ground conditions and hydraulic limit (CEN EN 474-3).

Additional work tools are available and offerings vary by region. Consult your local Cat dealer for further details.

Operating Specifications with High Dump Buckets



Machine and Linkage		950M Logger			962M Logger		
Interface		**Pin-On**	**Fusion QC**	**Universal QC**	**Pin-On**	**Fusion QC**	**Universal QC**
Edge Type		**BOCE**	**BOCE**	**BOCE**	**BOCE**	**BOCE**	**BOCE**
Capacity – Rated	m^3	7.60	7.60	7.60	9.20	9.20	9.20
	yd^3	10.00	10.00	10.00	12.00	12.00	12.00
Capacity – 110%	m^3	8.40	8.40	8.40	10.10	10.10	10.10
	yd^3	11.00	11.00	11.00	13.25	13.25	13.25
Width	mm	3350	3350	3350	3350	3350	3350
	ft/in	10'11"	10'11"	10'11"	10'11"	10'11"	10'11"
Nominal Material Density 100% Fill Factor	kg/m^3	650	610	610	560	530	530
	lb/yd^3	1,090	1,020	1,030	950	890	900
1 Dump Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	4473	4528	4541	4487	4540	4553
	ft/in	14'8"	14'10"	14'10"	14'8"	14'10"	14'11"
2 Clearance at Maximum Lift, Maximum Rack, Bucket Rolled out to Level	mm	4969	5025	5038	5130	5183	5190
	ft/in	16'3"	16'5"	16'6"	16'9"	17'0"	17'0"
3 Reach at Maximum Lift, Maximum Rack, Bucket Rolled out to 45° Discharge	mm	1899	1933	1940	2033	2070	2078
	ft/in	6'2"	6'4"	6'4"	6'8"	6'9"	6'9"
4 Reach at Level Lift Arm and Bucket Level	mm	3472	3537	3552	3770	3835	3850
	ft/in	11'4"	11'7"	11'7"	12'4"	12'6"	12'7"
5 Digging Depth	mm	59	59	59	57	57	58
	ft/in	2'3"	2'3"	2'3"	2'2"	2'2"	2'2"

BOCE = Bolt-On Cutting Edge

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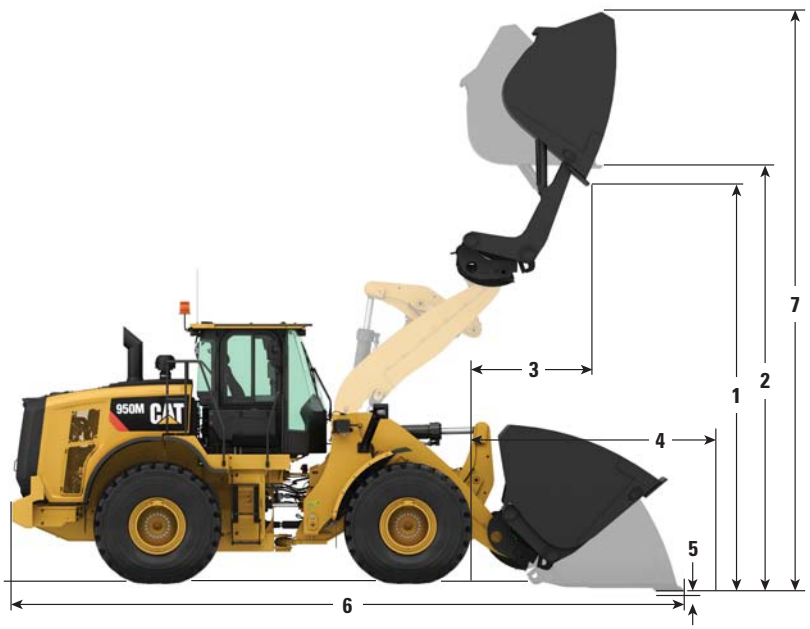
Operating Specifications with High Dump Buckets *(continued)*



Machine and Linkage		950M Logger			962M Logger		
Interface		**Pin-On**	**Fusion QC**	**Universal QC**	**Pin-On**	**Fusion QC**	**Universal QC**
Edge Type		**BOCE**	**BOCE**	**BOCE**	**BOCE**	**BOCE**	**BOCE**
6 Overall Length	mm	9111	9176	9191	9547	9612	9627
	ft/in	29'11"	30'2"	30'2"	31'4"	31'7"	31'7"
7 Overall Height with Bucket at Maximum Height and Maximum Rack	mm	6882	6937	6950	7196	7249	7261
	ft/in	22'6"	22'9"	22'9"	23'7"	23'9"	23'9"
Loader Clearance Circle Diameter with Bucket at Carry Position	mm	14 342	14 384	14 393	14 578	14 625	14 637
	ft/in	47'1"	47'3"	47'3"	47'10"	48'0"	48'1"
Static Tipping Load, Straight (with tire deflection)	kg	11 463	10 811	10 913	12 092	11 438	11 537
	lb	25,264	23,828	24,053	26,652	25,209	25,429
Static Tipping Load, Straight (no tire deflection)	kg	12 296	11 627	11 725	12 928	12 256	12 352
	lb	27,101	25,626	25,843	28,493	27,012	27,224
Static Tipping Load, Articulated (with tire deflection)	kg	9633	9009	9117	10 084	9460	9566
	lb	21,231	19,856	20,095	22,226	20,850	21,083
Static Tipping Load, Articulated (no tire deflection)	kg	10 478	9836	9941	10 940	10 299	10 401
	lb	23,093	21,679	21,911	24,112	22,699	22,925
Breakout Force	kN	108	104	103	106	102	101
	lbf	24,449	23,425	23,187	23,897	22,969	22,751
Operating Weight	kg	21 122	21 689	21 468	22 307	22 873	22 653
	lb	46,552	47,801	47,314	49,164	50,412	49,927

BOCE = Bolt-On Cutting Edge

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

(No Tire Deflection) Compliance to ISO 14397-1:2007 Sections 1 thru 5.

Note: Additional compatible high dump buckets are available. Refer to Reference Guide: Light Material High Dump Buckets for Cat 950-972 Medium Wheel Loaders (GEJQ9356) for technical specifications.

Medium Wheel Loaders Standard Equipment

Standard Equipment

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

OPERATOR ENVIRONMENT

- Cab, pressurized and sound suppressed (ROPS/FOPS)
- Viscous mounts
- Multi-function 18 cm (7 in) color touch-screen display for rear vision camera, clock and machine parameters
- EH controls, SAL (single axis lever) lift and tilt function
- Steering, wheel
- Radio ready (entertainment) includes antenna, speakers and converter (12V, 10-amp)
- Air conditioner, heater, and defroster (auto temp and fan)
- EH parking brake
- Beverage holders (2) with storage compartment for cell phone/MP3 player
- Bucket/work tool function lockout
- Coat hook (2)
- Cab air filter
- Ergonomic cab access ladders and handrails
- Horn, electric
- Light, two dome (cab)
- Mirrors, rearview external with integrated spot mirrors
- Post mounted membrane 16 switch keypad
- 2 receptacles, 12V
- Seat, Cat Comfort (cloth) air suspension
- Seat belt, 51 mm (2 in) retractable, with indicator
- Sun visor, front
- Wet-arm wipers/washers front and rear, intermittent front wiper
- Window, sliding (left and right sides)
- Cab tie-off

COMPUTERIZED MONITORING SYSTEM

- With following gauges:
  - Speedometer/tachometer
  - Digital gear range indicator
  - Diesel Exhaust Fluid (DEF) level (Tier 4 Final/Stage IV models)
  - Temperature: engine coolant, hydraulic oil, transmission oil
  - Fuel level
- With following warning indicators:
  - Regeneration
  - Temperature: axle oil, engine intake manifold
  - Pressure: engine oil, fuel pressure hi/low, primary steering oil, service brake oil
  - Battery voltage hi/low
  - Engine air filter restriction
  - Hydraulic oil filter restriction
  - Hydraulic oil low
  - Parking brake
  - DEF low level (Tier 4 Final/ Stage IV models)
  - Transmission filter bypass

ELECTRICAL AND LIGHTING

- Batteries (2), maintenance free 1,400 CCA
- Ignition key; start/stop switch
- Starter, electric, heavy duty
- Starting and charging system (24V)
- Lighting system:
  - Four halogen work lights (cab mounted)
  - Two halogen roading lights (with signals)
  - Two halogen rear vision lights (hood mounted)
- Alarm, back-up
- Alternator, 145-amp brushed
- Main disconnect switch
- Receptacle start (cables not included)

CAT CONNECT TECHNOLOGIES

- Link technologies: Product Link
- Detect technologies: rear vision camera

POWER TRAIN

- Engine, Cat ACERT meets Tier 4 Final/ Stage IV emission standards, or emits equivalent to Tier 3/Stage IIIA
- Cat Clean Emissions Module (CEM) with Diesel Particulate Filter (DPF) and Diesel Exhaust Fluid (DEF) tank and pump (Tier 4 Final/Stage IV models)
- Fuel priming pump (electric)
- Fuel/water separator
- Precleaner, engine air intake
- Economy Mode (selectable)
- Transmission, automatic power shift
- Torque converter, locking clutch with free wheel stator
- Switch, transmission neutralizer lockout
- Axles, manually actuated differential lock front axle, open differential rear axle
- Axles, ecology drains
- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS)
- Brake wear indicators
- Parking brake, disc and caliper
- Fan, radiator, on demand

LINKAGE

- Linkage, Z-bar, cast crosstube/tilt lever
- Kickout, lift and tilt, automatic

HYDRAULICS

- Hydraulic system, load sensing
- Steering, load sensing
- Ride control, 2V
- Remote diagnostic pressure taps
- Hoses, Cat XT™
- Oil sampling valves

FLUIDS

- Premixed extended life coolant with freeze protection to –34° C (–29° F)

OTHER STANDARD EQUIPMENT

- Hood, non-metallic power tilting
- Service centers (electrical and hydraulic)
- Platform, window washing
- Fenders
- Ecology drains for engine, transmission, and hydraulics
- Ether aid ready
- Grill, airborne debris
- Filters: fuel, engine air, engine oil, hydraulic oil, transmission
- Fuel cooler
- Grease zerks
- Hitch, drawbar with pin
- Precleaner rain cap
- Sight gauges: engine coolant, hydraulic oil, and transmission oil level
- Toolbox
- Vandalism protection caplocks

Optional Equipment

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

OPERATOR ENVIRONMENT

- Door, remote opening system
- Cover, HVAC metallic
- EH controls, SAL 3rd function
  - Additional roller switch for 4th function
- EH controls, joystick lift and tilt
  - Additional integrated roller switches for 3rd and 4th functions
- EH joystick
- Filter, carbon fresh air
- Mirrors, heated rearview external with integrated spot mirrors
- Precleaner, HVAC
- Precleaner, HVAC (RESPA)
- Radio, AM/FM/USB/MP3 Bluetooth®
- Radio, AM/FM/CD/USB/MP3 Bluetooth
- Radio, AM/FM/CD/USB/MP3 Bluetooth with Satellite Sirius and XM
- Radio, CB ready
- Seat, heated air suspension
- Seat belt, 76 mm (3 in) retractable, with indicator
- Steering, EH wheel with directional FNR shifter and gear selector
  - Additional FNR with implement controls
- Roof, metallic
- Steering, secondary
- Sun visor, rear
- Windows, rubber mounted
- Windows, with front guard
- Windows, with heavy duty front guard
- Windows, with full guards front, rear and sides

ELECTRICAL AND LIGHTING

- Four additional auxiliary halogen cab mounted work lights or
- Two additional auxiliary front HI LED and two additional auxiliary rear LED cab mounted work lights with 2 LED work lights in the radiator grill and LED front turn signals also includes replacement of the standard four halogen cab mounted work lights with four LED work lights (standard offering and only roading light available is the halogen roading light)
- Warning amber strobe beacon
- Reversing strobes
- External seat belt indicator light
- Speed limiter – 20 km/h (Europe only)

STARTERS, BATTERIES, AND ALTERNATORS

- Cold start – 120V
- Cold start – 240V

CAT CONNECT TECHNOLOGIES

- Link technologies: VIMS™
- Payload technologies:
  - Advanced Productivity subscription
  - Cat Production Measurement 2.0
  - Printer
  - Aggregate Autodig
- Detect technologies:
  - Cat Rear Object Detection
- Machine Security System

POWER TRAIN

- Axles
  - Automatic front/rear differential locks
  - Axle oil cooler
  - Extreme temperature seals
  - Seal guards
- Fan, VPF (variable pitch fan), automatic and manual control
- Radiator, high debris with wider fin spacing

WORK TOOLS

- Fusion quick coupler
- Performance Series buckets
- Millyard forks
- Grapple forks
- Logging forks
- Log and lumber forks
- Pallet forks
- Millyard pole forks
- Woodchip buckets
- High dump buckets

HYDRAULICS

- 3rd function with Ride Control
- 4th function with Ride Control

FLUIDS

- Premixed extended life coolant with freeze protection to –50° C (–58° F)

OTHER OPTIONAL EQUIPMENT

- Cat Autolube System
- Fenders, roading
- Guard, power train
- Oil change, high speed engine
- Precleaner, turbine
- Precleaner, trash
- Wheel chocks
- Low profile tires
- Auto idle shutdown

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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