

930G

Wheel Loader



Standard and High Lift Arrangement

Cat® 3056E DIT ATAAC Engine

Rated Net Power (ISO 9249) at 2300 rpm	112 kW/150 hp
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Maximum Net Power (ISO 9249) at 1900 rpm	120 kW/161 hp
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Bucket Capacities	2.1-5.0 m ³
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Operating Weight	13 030 kg
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Maximum Weight	13 170 kg
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930G Wheel Loader

Offering world class performance, value and reliability.

Caterpillar® Power Train

The 930G uses a Caterpillar power train for reliable, long life. The Caterpillar 3056E DIT ATAAC six-cylinder engine with Cat power shift transmission is performance-matched to the torque converter and axles for smoother performance and greater operator comfort. **pg. 4**

VersaLink™ Loader Linkage

✓ Loader linkage provides unsurpassed visibility, versatility and stability. The single piece boom-style lift arm design offers exceptional strength, rigidity and visibility. A high lift version is available for high-dump or long reach requirements. **pg. 6**

Operator Station

The operator station is ergonomically designed to create a comfortable work area. Easy-to-use machine controls and white-faced gauges reduce operator fatigue and increase efficiency and productivity. **pg. 8**

Hydraulic System

✓ Modular hydraulic system provides fast loading cycles, easy reconfiguration and exceptional ride control. **pg. 5**

Performance

✓ Outstanding Cat Wheel Loader power and durability successfully combine to deliver exceptional versatility and economy. Superior engineering and machine design allow greater productivity. **pg. 7**

The 930G is one of the most versatile wheel loaders in the world. Size, power, performance and interchangeability of work tools make this machine ideal for a wide range of jobs.



✓ *New feature*

Work Tools

- ✓ A wide range of Caterpillar Work Tools are available to meet the needs of your jobsite applications. The machine's quick coupler system allows the operator to quickly change from one high performance work tool to another without leaving the cab. **pg. 10**

Serviceability

Perform daily maintenance with easy ground-level access to all major service points. Gull-wing doors provide excellent engine access and a swing-out fan simplifies radiator service. **pg. 11**

Environmentally Responsible Design

Quiet operation, low engine emissions, less fluid disposal and clean, easy servicing help you meet worldwide regulations and protect the environment. **pg. 13**

Owning and Operating Costs

Extended service intervals, an advanced electronic warning system, lower fuel consumption and faster cycle times save you time and money. **pg. 12**

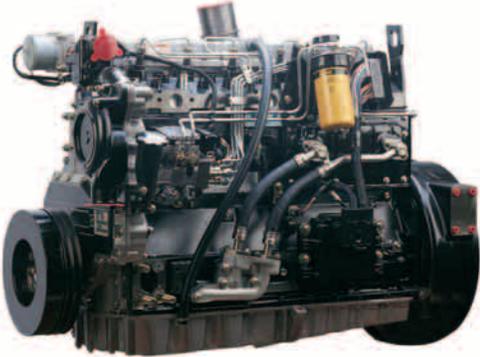
Complete Customer Support

Caterpillar dealers offer unmatched customer support, with excellent warranty programs and fast parts availability, resulting in maximum uptime and minimum repair costs. **pg. 14**



Caterpillar Power Train

Rugged, dependable Cat components deliver maximum rimpull to the ground and full power to the loader hydraulics.



Caterpillar Engine. The six-cylinder, 3056E direct injection, turbocharged (DIT) engine with air-to-air after cooler (ATAAC) has a proven reputation for reliability, durability and performance. Fuel injection is electronically controlled for precise timing.

Torque Rise. The engine features a 37% torque rise for increased power during heavy-duty use.

Emission Standards. The 3056E DIT ATAAC engine meets worldwide emissions standards.

Cylinders. Low cylinder pressure rise and low peak pressure provide outstanding reliability and durability.

Cooling System. Engine and cooling system are in separate compartments for clean, quiet operation and easy service.

Air-to-Air After Cooling. Air-to-air after cooling reduces engine emissions.

Electronic Control Module.

The Caterpillar engine control module not only controls the timing needs of the engine but also monitors critical systems to maintain optimum performance and provide engine protection.



Service Intervals. The normal engine oil change requirement is every 500 hours of operation.

Axles. Heavy-duty design features strong gears and bearings for durable performance. Oscillating rear axle helps assure four-wheel ground contact for optimum traction and stability.

Brakes. Oil-disc brakes are adjustment free and fully enclosed.

Optional Heavy-Duty Brakes.

Optional heavy-duty brakes provide additional brake discs and oil cooler for severe applications.

Limited Slip Differentials. Optional front and rear Limited Slip differentials provide improved traction in poor or uneven underfoot conditions.

Duo-Cone® Seals. Duo-Cone Seals keep oil in and contaminants out.

Transmission. Rugged, field-proven Caterpillar 4F/3R transmission uses heavy-duty components for durable and reliable operation. High-energy friction materials allow for better heat tolerance while thick reaction plates allow for better heat dissipation. The transmission is also designed for easy service and rebuild.

Electronic Clutch Pressure Control.

Electronic Clutch Pressure Control (ECPC) manages shift torque providing exceptional smoothness.

Gears. High-contact ratio spur gears are precision ground and heat treated for quiet, durable operation.

Shifting Options. Operator can choose manual shift or two autoshift modes (full throttle or variable shift control). Full throttle selection provides maximum acceleration while variable selection increases fuel economy and improves operator comfort.

Hydraulic System

Modular system provides greater productivity, high efficiency, low effort precise control.

Precise Control. Designed by Caterpillar, the modular hydraulic system provides low effort operation and superior control.

Load-Sensing Hydraulics. The load-sensing, variable flow hydraulic system senses work demand and adjusts flow and pressure to match. This allows full hydraulic forces at any engine speed for delicate jobs in tight areas.

Auxiliary Hydraulics. Adjustable flow third function hydraulics allows proportional control of work tools such as brooms by matching power to application speed. Power range is infinitely adjustable to optimize broom rotation, reduce debris fling and prevent overheating for long life. Third and fourth function hydraulics are packaged together. Fifth and sixth function hydraulics are also available for responsive independent positioning of work tools with multiple hydraulic cylinders.

Joystick Control. Low effort, joystick implement control improves efficiency with simultaneous lift and tilt functions.

Modular Hydraulic Control Valves. Modular hydraulic control valves add a new dimension of versatility that greatly simplifies and lowers overall cost of reconfiguring the machine for additional functions.



Tilt Cylinder. A large tilt cylinder delivers exceptional backdrag performance.

Hoses. Caterpillar XT™ hoses and couplings provide rugged, reliable performance with significantly reduced risk.

Variable Displacement Axial Pump. Variable displacement axial pump provides intuitive hydraulic flow. Closed-centered implement valves, with pressure compensation for reduced lever effort, signal hydraulic system requirements to a control valve located on the pump. This valve controls the pump to deliver the flow and pressure necessary to fulfill the implement demands.

Load-Sensing Steering. Load-sensing steering provides low effort operator control, making more power available for rimpull, breakout and lift forces.

Optional Ride Control System. The optional Ride Control System provides a comfortable ride at all speeds and improves hard bank digging. Three modes are available: auto, on and off. Auto mode is factory set to engage above 6 mph but can be adjusted to any speed. On mode should be used in load and carry applications for ride control at all speeds.

VersaLink Loader Linkage

Linkage design offers unparalleled versatility without compromise to performance.



Linkage Design. Versatility is the key benefit of the VersaLink loader linkage. The 930G can be configured in many ways:

- with a Quick Coupler, work tool changes are quick and easy. In this configuration, the 930G offers the versatility of an integrated toolcarrier and the performance of a wheel loader;
- equipped with pin-on tools, like a bucket, the 930G becomes a dedicated wheel loader, with exceptional breakout force, tipping load and dump height;
- equipped with the High Lift VersaLink loader linkage option, the 930G is ideal for special applications that require more reach and lift height.

Reconfiguration. The VersaLink loader linkage can be reconfigured from pin-on to Quick Coupler or from standard linkage to high lift linkage with a minimum of new parts required.

Outstanding Performance.

The VersaLink loader linkage is designed for exceptional loader performance in a wide range of applications, offering:

- increased breakout force to shorten cycle times and increase bucket fill factors;
- higher dump clearance for working in “high target” situations that ordinary loaders cannot;
- more dig depth for better excavation performance, even when equipped with larger 20.5 R25 tires;
- greater rackback angle for improved material retention, resulting in higher productivity;
- greater dozing angle for improved control of material when fine grading.

Visibility. Visibility to critical areas such as bucket corners and fork tips is optimized for more productive material and pallet handling. The VersaLink loader linkage geometry maximizes visibility throughout the entire production cycle.

Parallel Lift. Parallel lift simplifies working with palletized or stacked material. Operators can concentrate on material placement while the load automatically remains parallel throughout the lift range. And, like an integrated toolcarrier, the 930G can easily manipulate loads.

Exceptional Strength and Durability.

The one-piece fabricated box-section design of the VersaLink loader linkage delivers unprecedented torsional loading strength. The result is high rigidity and fewer stress paths for exceptional durability.

High Lift Version. Special applications call for special equipment. The optional High Lift VersaLink loader linkage provides an additional clearance of 483 mm and is ideal for jobs that require higher lift of lighter materials such as:

- feedlots
- dairies
- waste transfer stations
- fertilizer producers
- miscellaneous material handling

Performance

Power, durability and design contribute to outstanding performance.

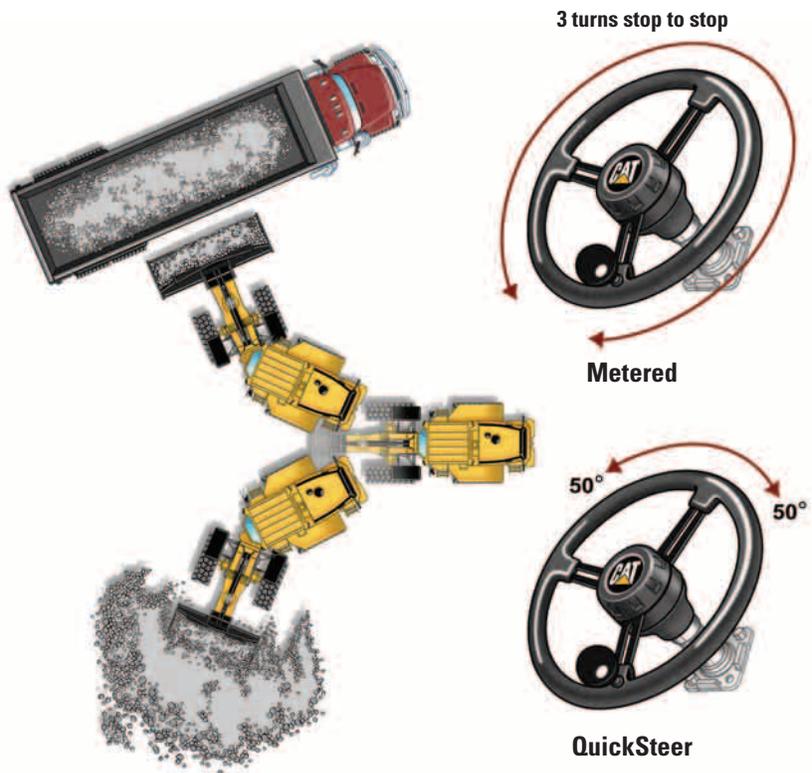
Productivity. Balanced structural design and exceptional rimpull tuned to powerful implement hydraulics allow fast cycle times and higher productivity.

Versatility. The hydraulic quick coupler and wide range of Cat Work Tools enable one machine to accomplish the tasks of many. Auxiliary hydraulics allow unparalleled versatility and interchangeability. Adjustable flow third function hydraulics provide proportional control and allow you to efficiently match power to the application. Broom performance demands are optimized to machine ground speed for minimal debris. Packaged third and fourth, as well as fifth and sixth function hydraulics expand work tool and machine capability.

Application Specific. Industrial and Waste Handling guarding packages and multiple tire options increase machine durability and are available to meet your specific job needs.

Optional Dual Mode Steering.

The operator can choose traditional steering or select QuickSteer mode with a switch in the cab for faster, extremely low effort truck loading. This mode provides higher productivity and efficiency with less operator fatigue.



Operator Station

Ergonomic design emphasizes comfort, visibility and easy operation.



Cab. The ergonomic cab provides a comfortable work environment with large windows, spacious interior room, generous storage areas and low interior sound levels.

Access/Egress. The two-door design makes access and egress easy. Both doors open fully and lock flush against the cab for efficiency and safety. Steps leading up to the cab are wide, serrated and angled out for secure footing.

Windows. Large windows improve visibility in all directions. The rear window features a standard electric defroster. Sliding glass is available as an option on the doors.

Visibility. Visibility to critical areas such as the bucket have been optimized. The VersaLink loader linkage geometry maximizes visibility throughout the production cycle.



Instrument Panel. The 930G instrument panel is conveniently located with easy-to-read gauges and expanded warning/indicator and diagnostic functions.

Electronic Engine Speed Control.

A specific engine rpm can be set and maintained with a switch in the cab.

Steering System. The load-sensing, closed-center steering system with flow amplification matches steering response to a wide variety of applications. The adjustable steering console tilts easily out of the way. Dual suspended brake pedals function as a brake and a transmission neutralizer so the operator can maintain high engine rpm for full hydraulic flow and fast cycle times.

Low Effort Operation. Joystick hydraulic controls provide ease of lift and tilt functions. A single joystick is standard. An integrated directional control switch on the joystick provides easy operation and enhanced productivity. A two lever control is optional.

Storage. Generous storage space includes a lockable compartment, coat hook and special molded compartments designed to hold a lunchbox/cooler, cup or can. A tool box is also provided.

Seat. The standard seat is available in cloth or vinyl with fully adjustable fore/aft position, seatback angle, bottom cushion height, armrest angle and suspension stiffness. Other seat options include:

- Cat Contour Seat, fabric, with adjustable backrest and lumbar support.
- Cat Contour Seat, fabric, electrically adjustable with air suspension.
- KAB seat, fabric, heated with alarm and fully adjustable armrests.

Seat Belt. All seats include a comfortable 51 mm or 75 mm wide retractable seat belt.

Customize the Cab. The cab can be customized with various options such as:

- 12V or 24V converter for powering electronics such as cellular phones, two-way radios and music systems
- Optional rear view camera
- Radio installation package
- Sun visor for windshield
- Roll-down sun screen for rear window
- External mirror package
- Auxiliary lighting packages

Work Tools

Increase your productivity by performing a variety of jobs with one machine.



Versatility. With a variety of work tools offered by Caterpillar, the 930G is ideal for a wide range of applications.

Quick Coupler. Work tools can be changed quickly and easily with the machine's integral quick coupler system. A switch in the operator compartment activates a hydraulic cylinder for positive tool engagement or disengagement.

Buckets. With exceptional rimpull and high breakout and lift forces, the 930G demonstrates strong performance as a bucket loading machine. A wide range of Caterpillar buckets are available including:

- general purpose
- penetration
- light material

Material Handling. Exceptional visibility and heavy-lift capabilities enable you to work quickly and efficiently with the 930G as a material handler. A wide range of tools are available such as:

- pallet forks
- offset forks
- material handling arm

Auxiliary Hydraulics. Optional third and fourth function hydraulics are available for use with work tools that require hydraulic power, such as rotary brooms, high dump and side dump buckets. Optional 5th and 6th function hydraulics are also available for snow plow, snow wing jobs and hedge/grass cutting.

Special Applications. Some of the numerous specialty tools available include:

- hydraulic brooms

Serviceability

Easy access and minimal maintenance requirements provide exceptional ease of service.

Easy Access. Gull-wing engine enclosure doors with gas struts lift for exceptional access to filters and service points. Radiator and oil coolers are easily accessible for cleaning.

Simplified Routine Service. All service points are accessible from the ground level. Easily check radiator coolant, hydraulic oil and transmission oil levels with sight gauges.

Swing-out Cooling Fan. A swing-out cooling fan allows quick, easy cleaning and service of the radiator. The fan is hydraulically driven and separate from the engine compartment for exceptional low noise operation.

Optional Reversing Fan. Optional reversing capability of the fan cleans screens without interrupting machine operation.

Pressure Taps. Standard pressure taps allow quick diagnosis of the entire hydraulic system.

S•O•SSM Ports. Scheduled Oil Sampling ports are factory installed for improved access to engine, transmission and hydraulic oils. S•O•S ports make oil sampling quicker, cleaner and provide the best oil sample for analysis.

Oil Filters. Spin-on filters for engine oil, transmission oil and hydraulic oil are vertically mounted for easier servicing.

Clamps and Bushings. Metal clamps with rubber bushings are used at hose attachment points to eliminate metal-to-metal contact and increase wear life.



Self-Diagnostics. Self-diagnostic transmission and data link allows quick and easy troubleshooting by service personnel. Service codes are easily accessed through the gauge console.

Ground Level Access. The control valves feature convenient ground level access for easy modifications to the system.

Extended Life Coolant/Antifreeze. Cat Extended Life Coolant/Antifreeze allows extended operation (up to 6000 hours) between changes.

Other Service Features. Other service features include:

- Maintenance-free driveshaft
- Stationary radiator and coolant hoses
- Standard hydraulic oil cooler
- Adjustment-free brakes
- Adjustment-free engine fuel system
- Grouped grease fittings
- Positive torque hose clamps
- Braided, color coded and numbered wiring consistent throughout Caterpillar machines

Owning and Operating Costs

Cost saving features help improve your bottom line.



Low Fuel Consumption. The 3056E DIT ATAAC engine features low fuel consumption for more economical operation and meets all worldwide emissions standards. Load sensing hydraulics matches power and speed to your specific job application for high efficiency.

Heavy-Duty Power, Fast Cycle Times. High horsepower provides rugged, dependable power and faster cycle times, allowing the operator to get more work done in a day.

Extended Service Intervals.

Service intervals have been extended to reduce machine service time and increase machine availability:

- 4000 hour hydraulic oil change (S•O•S sampling required)
- 1000 hour hydraulic filter change
- 500 hour engine oil change

Smoother Transmission for Increased Productivity. A smoother shifting transmission provides a more comfortable work environment, allowing the operator to be more productive throughout the entire work shift.

Demand Fan. Demand fan changes speed to meet cooling requirements and save fuel.

Engine Derate Feature. Auto Derate monitors vital engine systems and will reduce the engine horsepower up to 50% to protect the engine.

Optional Axle Cooler. Protection for severe applications.

Equipment Management Option.

Caterpillar's asset management or equipment management system called Product Link-World View, enables dealers and their customers to track equipment for hours and location, and in some cases monitor machine health. This easy-to-use system provides information flow between a machine and the user through the internet based Dealer Storefront. This information helps lower operating costs through timely service/repairs and optimized machine use.

Machine Security System Option.

The Machine Security System (MSS) inhibits unauthorized machine use by immobilizing vital electrical circuits. Critical machine circuits are inhibited unless a valid key is used to start the machine.

Environmentally Responsible Design

Caterpillar machines help you build a better world and help preserve the fragile environment.

Low Fuel Consumption. As the top performer in its size class, the 930G gets more work done in less time and provides low fuel consumption with minimal impact on the environment.

Low Exhaust Emissions. The Cat 3056E DIT ATAAC is a low emission engine designed to meet current worldwide emission regulations and is Stage II compliant.

Quiet Operation. The engine cooling system allows the engine to be fully enclosed, allowing less engine noise to escape. With the optional sound suppression package, the 930G is even quieter.

Ozone Protection. To help protect the earth's ozone layer, the air conditioning unit uses only R-134a refrigerant which does not contain harmful chlorofluorocarbons (CFC's).

Fewer Leaks and Spills. Engine oil, transmission and hydraulic filters are positioned vertically and are easily removed without spillage. The Cat 3056E is fitted with a Closed Circuit Breather to eliminate valve cover drips. Cat O-ring face seals, XT hose and hydraulic cylinders are all designed to help prevent fluid leaks that can weaken the machine's performance and cause harm to the environment.



Rebuildable Components. All major components are designed for rebuildability.

Biodegradable Hydraulic Oil. Caterpillar biodegradable hydraulic oil can be used, providing an environmentally-sound alternative to mineral-based oils.

Complete Customer Support

Caterpillar dealer services ensure a longer machine operating life with lower costs.



Selection. Make detailed comparisons of machines before purchasing. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions. You can also build the machine that is right for you. Go online anytime to review the full range of features and options available using the Build & Quote application on your Cat dealer's website or www.cat.com.

Purchase. Look at the total package. Consider the financing options available through your Cat dealer as well as day-to-day operating costs. Dealer support services can be included in the cost of the machine to yield lower equipment owning and operating costs over the life of the machine.

Operation. For the best operating techniques to increase productivity and your profit, turn to your Cat dealer for the latest training literature and knowledgeable staff.

Maintenance. Choose from a wide range of maintenance services at the time of machine purchase. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S Oil Analysis and Technical Analysis help avoid unscheduled repairs that can cost unnecessary time and money.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved to make the right choice.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. Additionally, Caterpillar offers a line of genuine remanufactured components which can help lower repair costs.

Engine

Caterpillar four-stroke cycle, six cylinder 3056E DIT ATAAC diesel engine.

Rated Net Power	2300 rpm
ISO 9249	112 kW/150 hp
EEC 80/1269	112 kW/150 hp
Maximum Net Power	1900 rpm
ISO 9249	120 kW/161 hp
EEC 80/1269	120 kW/161 hp
Bore	100 mm
Stroke	127 mm
Displacement	6 liters

- Net Power ratings are tested at the reference conditions for the specified standard.
- Net power advertised is the power available at the flywheel when the engine is equipped with alternator, air cleaner, muffler and fan at minimum speed.
- No derating required up to 3000 m altitude. Auto derate protects hydraulic and transmission systems.
- When the fan is at maximum speed rated net power is 102 kW (137 hp) and Maximum Net Power is 114 kW (153 hp) at the flywheel per the SAE reference conditions.
- The Caterpillar 3056E DIT ATAAC engine meets Stage II off highway emission regulations.

Features

- Electronically controlled rotary fuel pump
- Three-ring, controlled-expansion, lubricated pistons
- Gear-driven water and oil pumps
- One-piece cast iron cylinder heads with two valves per cylinder
- Fuel priming pump and fuel/water separator
- S•O•S sampling port for engine oil
- Replaceable dry liners
- Cast aluminum valve cover
- Radiator can be easily accessed for cleaning

Transmission

Standard Transmission. Maximum travel speeds (600/65 R25 tires).

Forward	km/h
1	7
2	12
3	24
4	38
Reverse	
1	7
2	12
3	24

- Electronically-controlled Caterpillar countershaft transmission with full on-the-go directional and speed change capability.
- High-energy friction materials and thick reaction plates for better tolerance of heat.
- High-contact ratio spur gears are precision ground and heat treated for quiet, reliable operation.
- Electronic autoshift is standard.
- Button on implement control lever allows downshifting on demand.
- Computer controlled modulation provides smoother transitions.

Loader Hydraulic System

Output at 2300 engine rpm and 69 bar with

SAE 10W oil at 65°C 220 L/min

Maximum working pressure 259 bar

Hydraulic cycle time

Raise 5 Seconds

Dump 1.7 Seconds

Lower, empty,

float down 2.8 Seconds

Total 9.5 Seconds

Lift cylinders, double acting

Bore 114.3 mm

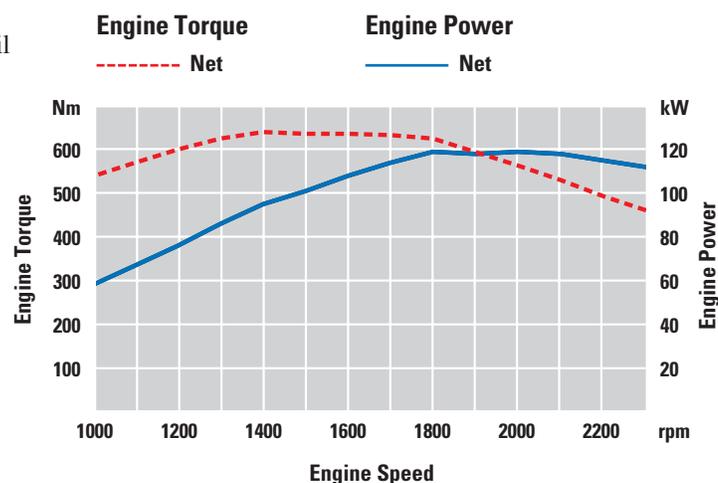
Stroke 777 mm

Tilt cylinders, double acting

Bore 152.4 mm

Stroke 939 mm

- Load-sensing system provides only the flow and pressure needed to move the load.
- Variable-displacement axial piston pump provides implement and steering flow.
- Low effort, hydraulic joystick controls.
- Electronic pilot shut-off switch disables implement functions for added safety.
- Hydraulic couplings with O-ring face seals.
- Optional heavy-duty oil cooler.
- Adjustable-flow third function hydraulics available as an option.
- Optional third and fourth, fifth and sixth function hydraulics.



Tires

- 20.5 - 25, 12PR (L-2)
 - 20.5 - 25, 12PR (L-3)
 - 20.5 R25, radial (L-2/L-3)
 - 600/65 R25, GP-3D
- Other tire choices are available, contact your Cat Dealer for details.
 - In certain applications, the loader's productive capabilities may exceed the tire's tonnes-km/h capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Steering

Minimum turning radius (over tire)	5257 mm
Steering angle, each direction	40°
Steering cylinders, two, bore	70 mm
Hydraulic output at 2300 engine rpm and 69 bar	70 L/min
Maximum working pressure	241 bar

- Optional dual-mode steering.
- Center-point frame articulation.
- Front and rear wheels track.
- Variable displacement piston pump provides steering power at all engine and ground speeds.
- Tilt steering console.
- High-impact rubber steering stops.
- Secondary steering system meets ISO 5010 and roading regulations in various countries.

Axles

- Fixed front, oscillating rear ($\pm 11^\circ$ with 600/65 R25 tires).
- Caterpillar axle with fully-enclosed brakes and final drives.
- Patented Duo-Cone Seals between axle shaft and housing with built-in protection from debris.
- Rear wheel can raise or drop a total of 326 mm with 20.5 tires or 302 mm with 600/65 tires.
- Limited Slip differentials are optional on front, rear or both axles.
- Rear axle trunnion has remote lubrication fitting.
- Planetary final drives are lubricated from the main oil sump.
- High contact gearset reduces noise levels during meshing.

Weights

Operating Weight	13 027 kg
Maximum Weight	13 172 kg

Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.1 m³ high density bucket with bolt-on cutting edge, 80 kg operator and 600/65 R25 GP-3D tires.

Brakes

Service brake

- Inboard oil-immersed disc brakes on front and rear axles are standard.
- Completely enclosed and sealed.
- Adjustment-free.
- Separate circuits for front and rear.
- Dual pedal braking system.
- Fully integrated with hydraulic system, no air system required.

Secondary brake

- Indicator light alerts operator if brake pressure drops.
- Continually-charged nitrogen accumulators provide stopping power after loss of engine power.

Parking brake

- Mechanical, shoe-type brake.
- Mounted on drive line for positive manual operation.
- Application of parking brake neutralizes the transmission.

Heavy-duty brake

- Optional heavy-duty brakes with integrated oil cooler.

Service Refill Capacities

	Liters
Fuel tank	225
Cooling system	40
Crankcase	16
Transmission	34.5
Differentials and final drives	
Front axle	26
Rear axle	25
Hydraulic system (including tank)	125
Hydraulic tank	70

Implement Controls

Lift circuit

- Four positions: raise, hold, lower and float.
- Adjustable automatic kickout from horizontal to full tilt.

Tilt circuit

- Three positions: tilt back, hold and dump.
- Two-speed dump for quick dumping with bucket and precise load control with forks or other work tools.
- Adjustable automatic bucket positioner to desired loading angle.
- Does not require visual spotting.

Controls

- Choice of two low effort control systems: a joystick or a two-lever control of lift and tilt circuits.
- Optional third and fourth, fifth and sixth function hydraulic circuits available with a selection of lever controls for remote hydraulic functions.
- Controls can be disabled for roading.
- Adjustable third function hydraulics option.

ROPS/FOPS

- Caterpillar cab with integrated Rollover Protective Structure (ROPS/FOPS) are standard.
- ROPS meets ISO 3471:1994.
- FOPS meets ISO 3449:1992 Level II.

Sound

Operator Sound

The operator sound level measured according to the procedures specified in ISO 6394:1992 is 74 dB(A), for cab offered by Caterpillar, with doors and windows closed.

Exterior Sound

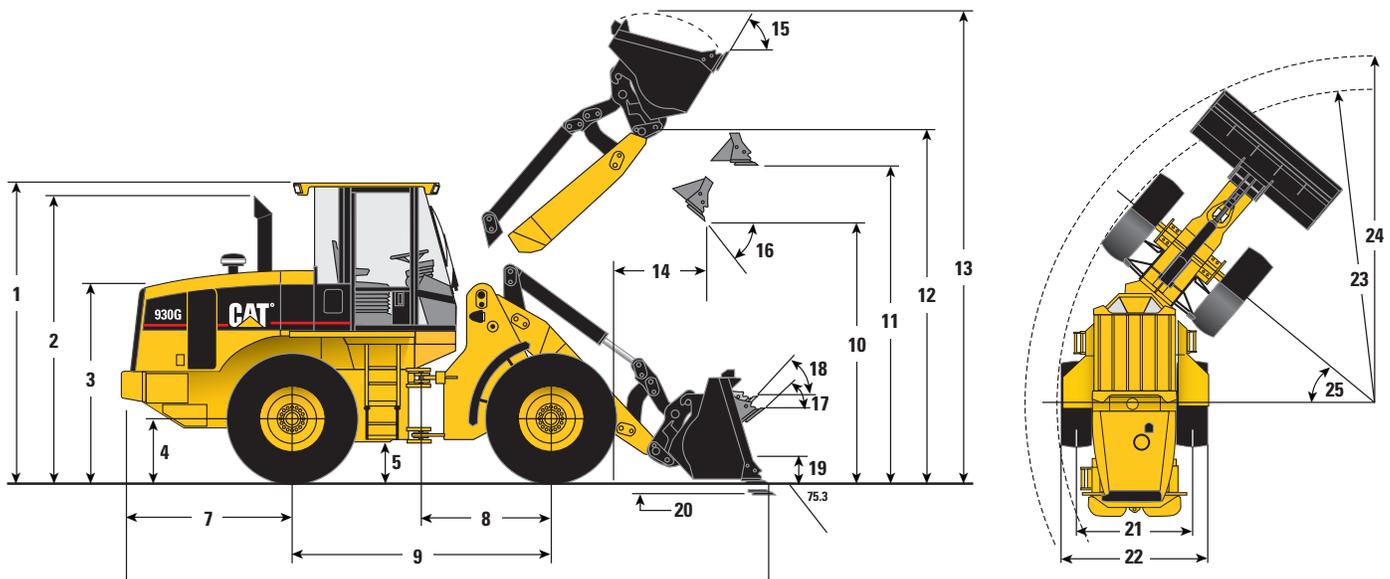
As manufactured by Caterpillar, this machine's exterior sound power level meets the criteria spelled out in the European Directives, labeling 107 dB(A).

Supplemental Specifications

	Change in Operating Weight	Change in Articulated Static Tipping Load with 2.1 m ³ Hook-On Bucket
	kg	kg
Air conditioner	-37	-59
Canopy, ROPS (less cab)	-218	-149
Counterweight, 470 kg (removal)	-470	-658
Guard, crankcase	-16	-20
Guard, driveshaft	-17	-12
Guard, power train	-58	-49
Ride Control System	-45	-24
Secondary steering (removal)	-17	-20
Tires, 1 piece rims		
17.5-25, 12PR (L-2)	-868	-486
17.5-25, 12PR (L-3)	-796	-446
17.5-25, radial (L-2)	-828	-464
17.5-25, radial (L-3)	-728	-408
Tires, 3 piece rims		
17.5-25, 12PR (L-2)	-744	-417
17.5-25, 12PR (L-3)	-672	-376
17.5-25, radial (L-2)	-704	-394
17.5-25, radial (L-3)	-604	-338
20.5-25, 12PR (L-2)	-456	-255
20.5-25, 12PR (L-3)	-252	-141
20.5-25, radial (L-2)	-388	-217
20.5-25, radial (L-3)	-216	-121
600/65 R25, radial (L-2) Michelin	-212	-119
600/65 R25, radial (L-3) Goodyear	0	0

Dimensions with Bucket

All dimensions are approximate. Dimensions may vary with bucket.



	Standard VersaLink	High Lift VersaLink
1 Height to top of ROPS/FOPS	3288 mm	3288 mm
2 Height to top of exhaust stack	3215 mm	3215 mm
3 Height to top of hood	2244 mm	2244 mm
4 Height to centre of axle	695 mm	695 mm
5 Ground clearance	421 mm	421 mm
6 Overall length	7390 mm	7877 mm
7 Length - rear axle to bumper	1816 mm	1816 mm
8 Centre line of front axle to hitch	1450 mm	1450 mm
9 Wheel base length	2900 mm	2900 mm
10 Dump clearance at maximum lift and 45° dump	2936 mm	3436 mm
11 Bucket clearance at maximum lift and carry	3726 mm	4226 mm
12 Bucket pin height at maximum lift	4069 mm	4559 mm
13 Overall height - bucket raised	5344 mm	5835 mm
14 Reach at maximum lift and 45° dump	1073 mm	1073 mm
15 Rack back angle at maximum lift and level	60°	62°
16 Dump angle at maximum lift	45°	45°
17 Rack back angle at ground	51°	52°
18 Rack back angle at carry	53°	57°
19 Carry height	428 mm	577 mm
20 Digging depth	142 mm	157 mm
	20.5-25 12PR L-2	600/65 R25 GP-3D
21 Width over tread center	1950 mm	1950 mm
22 Overall width over tires	2504 mm	2544 mm
23 Minimum turning radius over tires	5236 mm	5256 mm
24 Loader clearance radius with bucket in carry position	See Operating Specifications on pg 22-25	
25 Steering angle - left/right	40°	40°
Change in vertical dimension	+11 mm	0

Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.1 m³ high density bucket with bolt-on cutting edge, 80 kg operator and 600/65 R25 GP-3D tires.

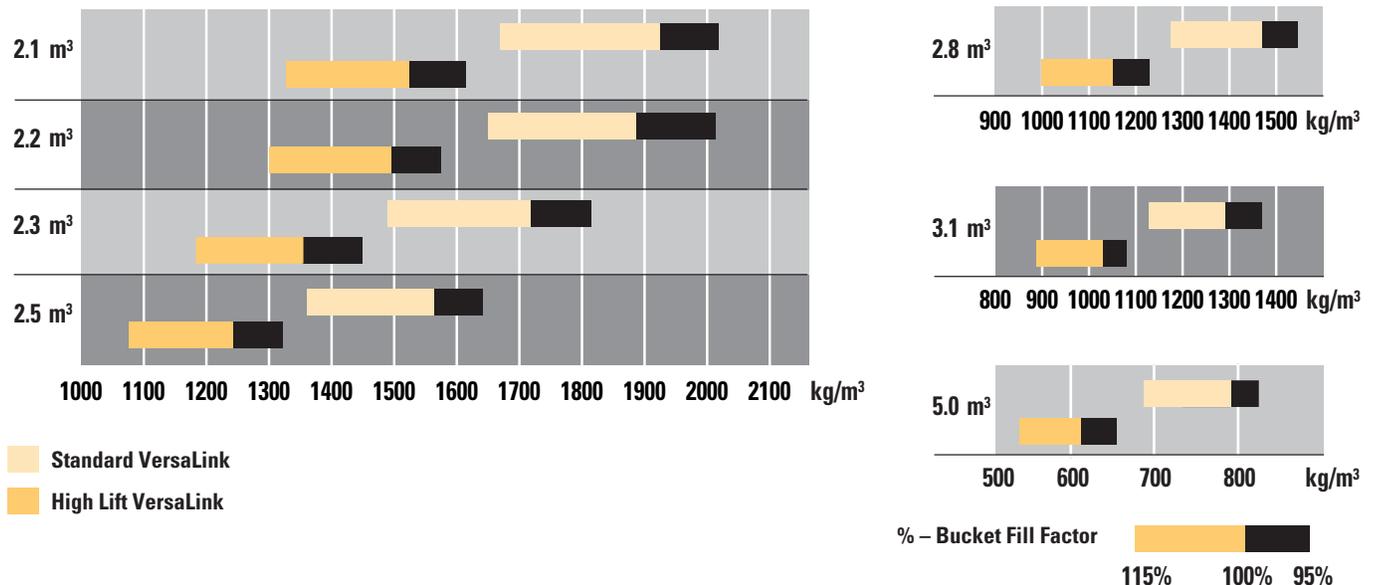
Typical Material Densities – Loose

	kg/m ³		kg/m ³
Basalt	1960	Gypsum	
Bauxite, Kaolin	1420	broken	1810
Clay		crushed	1600
natural bed	1660	Limestone	
dry	1480	broken	1540
wet	1660	crushed	1540
Clay and gravel		Sand	
dry	1420	dry, loose	1420
wet	1540	damp	1690
Decomposed rock		wet	1840
75% rock, 25% earth	1960	Sand and clay	
50% rock, 50% earth	1720	loose	1600
25% rock, 75% earth	1570	Sand and gravel	
Earth		dry	1720
dry, packed	1510	wet	2020
wet, excavated	1600	Sandstone	1510
Granite		Shale	1250
broken	1660	Slag	
Gravel		broken	1750
pitrun	1930	Stone	
dry	1510	crushed	1600
dry, 6-50 mm	1690		
wet, 6-50 mm	2020		

Bucket Size Selector

Material Density

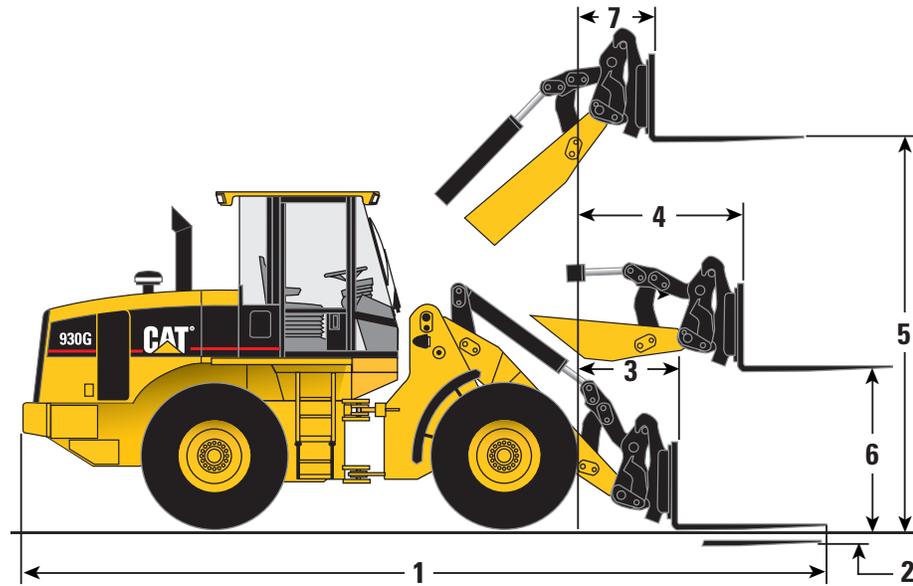
Bucket



Dimensions with Pallet Forks

All dimensions are approximate. Dimensions may vary with fork length.

	Standard VersaLink Fork Tine Length		
	1200 mm	1350 mm	1524 mm
1	7653 mm	7814 mm	7977 mm
2	-32 mm	-46 mm	-32 mm
3	987 mm	998 mm	987 mm
4	1695 mm	1705 mm	1695 mm
5	3899 mm	3913 mm	3899 mm
6	1871 mm	1885 mm	1871 mm
7	774 mm	784 mm	774 mm
	High Lift VersaLink		
1	8161 mm	8321 mm	8485 mm
2	-17 mm	-31 mm	-17 mm
3	1495 mm	1506 mm	1495 mm
4	2088 mm	2098 mm	2088 mm
5	4399 mm	4413 mm	4399 mm
6	1871 mm	1885 mm	1871 mm
7	774 mm	784 mm	774 mm



Operating Specifications with Pallet Forks

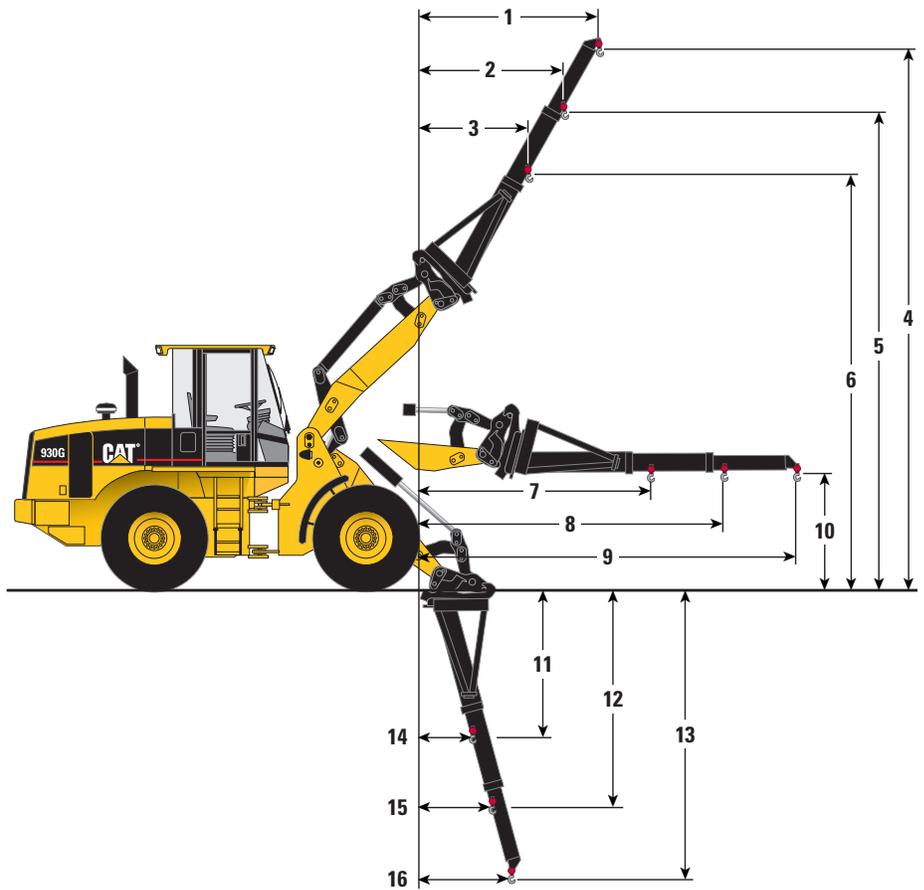
Standard VersaLink	Fork Tine Length		
	1200 mm	1350 mm	1524 mm
Operating load			
Per EN 474-3, rough terrain (60% of FTSTL)	3850 kg	3650 kg	3535 kg
Per EN 474-3, firm and level ground (80% of FTSTL)	5133 kg	4866 kg	4713 kg
Load center	600 mm	675 mm	762 mm
Static tipping load with level arms and forks, straight*	7334 kg	6962 kg	6746 kg
Static tipping load with level arms and forks, full 40° turn*	6416 kg	6083 kg	5891 kg
Operating weight*	12 596 kg	12 664 kg	12 686 kg
High Lift VersaLink			
Operating load			
Per EN 474-3, rough terrain (60% of FTSTL)	3313 kg	3152 kg	3059 kg
Per EN 474-3, firm and level ground (80% of FTSTL)	4418 kg	4202 kg	4079 kg
Load center	600 mm	675 mm	762 mm
Static tipping load with level arms and forks, straight*	6335 kg	6035 kg	5862 kg
Static tipping load with level arms and forks, full 40° turn*	5522 kg	5253 kg	5099 kg
Operating weight*	12 741 kg	12 809 kg	12 831 kg

* Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, work tool, 80 kg operator and 600/65 R25 GP-3D tires. Tipping load is defined by SAE J732 JUN92.

Dimensions with Material Handling Arm

All dimensions are approximate.

	Standard VersaLink	High Lift VersaLink
1	2217 mm	2107 mm
2	1778 mm	1696 mm
3	1341 mm	1285 mm
4	7746 mm	8303 mm
5	6847 mm	7391 mm
6	5949 mm	6480 mm
7	3354 mm	3748 mm
8	4353 mm	4747 mm
9	5353 mm	5747 mm
10	1886 mm	1886 mm
11	1877 mm	1803 mm
12	2803 mm	2681 mm
13	3730 mm	3560 mm
14	1137 mm	1866 mm
15	1512 mm	2343 mm
16	1886 mm	2820 mm



Operating Specifications with Material Handling Arm

Standard VersaLink	Retracted	Mid-Position	Extended
Operating load	2363 kg	1890 kg	1576 kg
Static tipping load, straight*	5407 kg	4327 kg	3609 kg
Static tipping load, full 40° full turn*	4726 kg	3779 kg	3151 kg
Operating weight*	12 562 kg	12 562 kg	12 562 kg
Equipped with High Lift VersaLink			
Operating load	2097 kg	1705 kg	1439 kg
Static tipping load, straight*	4814 kg	3919 kg	3308 kg
Static tipping load, full 40° full turn*	4193 kg	3410 kg	2877 kg
Operating weight*	12 707 kg	12 707 kg	12 707 kg

* Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, work tool, 80 kg operator and 600/65 R25 GP-3D tires. Tipping load is defined by SAE J732 JUN92.

Machine stability and operating weights are affected by tire size, tire ballast and other work tools.

Standard VersaLink and Bucket

Operating specifications



**Hook-on Buckets
using Quick Coupler**



Pin-on Buckets
(values in brackets)

		General Purpose Buckets								
		Bolt-On Cutting Edge			Bolt-On Teeth and Segments**			Bolt-On Teeth**		
Rated bucket capacity	m ³	2.1	2.3	2.5	2.1	2.3	2.5	1.9	2.1	2.3
Struck capacity	m ³	1.7	1.9	2.1	1.7	1.9	2.1	1.6	1.8	2.0
Bucket width	mm	2550	2550	2550	2585	2585	2585	2585	2585	2585
*10 Dump clearance at full lift and 45° discharge	mm	2843	2783 (2917)	2737 (2871)	2731	2670 (2804)	2624 (2758)	2731	2670 (2804)	2624 (2758)
*14 Reach at full lift and 45° discharge	mm	936	997 (925)	1042 (971)	1030	1091 (1019)	1137 (1065)	1030	1091 (1019)	1137 (1065)
Reach at 45° discharge and 2130 mm clearance	mm	1514	1539 (1542)	1557 (1564)	1541	1563 (1574)	1578 (1593)	1541	1563 (1574)	1578 (1593)
Reach with lift arms horizontal and bucket level	mm	2518	2603 (2458)	2668 (2523)	2664	2749 (2604)	2814 (2669)	2664	2749 (2604)	2814 (2669)
*20 Digging depth	mm	191	191 (147)	191 (147)	204	204 (160)	204 (160)	204	204 (160)	204 (160)
* 6 Overall length	mm	7422	7507 (7327)	7572 (7392)	7568	7653 (7473)	7718 (7538)	7548	7633 (7453)	7698 (7518)
*13 Overall height with bucket at full raise	mm	5307	5386 (5276)	5420 (5343)	5307	5386 (5276)	5420 (5343)	5307	5386 (5276)	5420 (5343)
*24 Loader clearance radius with bucket in carry position	mm	5826	5848 (5781)	5865 (5798)	5884	5907 (5840)	5925 (5857)	5884	5907 (5840)	5925 (5857)
Static tipping load, straight	kg	9228	9109 (9794)	9022 (9698)	9063	8943 (9626)	8854 (9529)	9168	9048 (9732)	8961 (9637)
Static tipping load, full 40° turn	kg	8015	7904 (8527)	7822 (8438)	7851	7738 (8359)	7655 (8269)	7955	7843 (8466)	7761 (8376)
Breakout force	kN	138	129 (146)	122 (138)	137	127 (144)	120 (136)	146	135 (154)	128 (145)
Operating weight	kg	13 130	13 190 (12 985)	13 231 (13 026)	13 266	13 326 (13 121)	13 367 (13 162)	13 180	13 240 (13 035)	13 281 (13 076)

Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.1 m³ high density bucket with bolt-on cutting edge, 80 kg operator and 600/65 R25 GP-3D tires. Tipping load is defined by SAE J732 JUN92.

* See also Dimensions with Bucket on pg.18.

** Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standards specifies the cutting edge.

	High Density (General Purpose)						Light Material	Penetration	Waste
	Bolt-On Cutting Edge		Bolt-On Teeth and Segments**		Bolt-On Teeth**		Bolt-On Cutting Edge	Flush Mounted Teeth	Rubber Edge
	2.1	2.3	2.1	2.3	2.0	2.1	2.8	2.3	3.1
	1.7	2.0	1.7	1.9	1.6	1.9	2.3		2.6
	2550	2550	2585	2585	2585	2585	2550		2550
	2936 (3027)	2902 (2992)	2832 (2923)	2798 (2888)	2832 (2923)	2798 (2888)	2800 (2891)		2756
	1073 (966)	1114 (1007)	1176 (1069)	1218 (1110)	1176 (1069)	1218 (1110)	1210 (1104)		1252
	1700 (1637)	1723 (1661)	1747 (1689)	1769 (1712)	1747 (1689)	1769 (1712)	1763 (1707)		1778
	2526 (2385)	2578 (2438)	2672 (2531)	2724 (2584)	2672 (2531)	2724 (2584)	2718 (2578)		2778
	142 (142)	147 (147)	155 (155)	160 (160)	155 (155)	160 (160)	159 (159)		166
	7390 (7250)	7447 (7307)	7536 (7396)	7593 (7453)	7516 (7375)	7573 (7433)	7597 (7456)		7662
	5344 (5222)	5351 (5230)	5344 (5222)	5351 (5230)	5344 (5222)	5351 (5230)	5479 (5304)		5538
	5811 (5760)	5826 (5775)	5869 (5819)	5885 (5834)	5870 (5819)	5885 (5834)	5867 (5816)		5885
	9588 (10 079)	9495 (10 019)	9422 (9911)	9327 (9850)	9528 (10 018)	9433 (9957)	9340 (9800)		9267
	8344 (8793)	8256 (8739)	8178 (8625)	8089 (8570)	8284 (8732)	8195 (8677)	8206 (8532)		8030
	137 (156)	131 (149)	136 (155)	130 (148)	145 (166)	138 (158)	118 (132)		113
	13 027 (12 862)	13 082 (12 866)	13 163 (12 998)	13 218 (13 002)	13 077 (12 912)	13 132 (12 916)	13 136 (12 984)		13 187

High Lift VersaLink and Bucket

Operating specifications



**Hook-on Buckets
using Quick Coupler**



Pin-on Buckets
(values in brackets)

		General Purpose Buckets								
		Bolt-On Cutting Edge			Bolt-On Teeth and Segments**			Bolt-On Teeth**		
Rated bucket capacity	m ³	2.1	2.3	2.5	2.1	2.3	2.5	1.9	2.1	2.3
Struck capacity	m ³	1.7	1.9	2.1	1.7	1.9	2.1	1.6	1.8	2.0
Bucket width	mm	2550	2550	2550	2585	2585	2585	2585	2585	2585
*10 Dump clearance at full lift and 45° discharge	mm	3343	3283 (3417)	3237 (3371)	3231	3170 (3304)	3125 (3258)	3231	3170 (3304)	3125 (3258)
*14 Reach at full lift and 45° discharge	mm	936	996 (925)	1042 (971)	1030	1090 (1019)	1136 (1065)	1030	1090 (1019)	1136 (1065)
Reach at 45° discharge and 2130 mm clearance	mm	1956	1987 (1978)	2010 (2004)	1994	2022 (2020)	2043 (2043)	1994	2022 (2020)	2043 (2043)
Reach with lift arms horizontal and bucket level	mm	2912	2997 (2852)	3062 (2917)	3058	3143 (2998)	3208 (3063)	3058	3143 (2998)	3208 (3063)
*20 Digging depth	mm	206	206 (162)	206 (162)	219	219 (175)	219 (175)	219	219 (175)	219 (175)
* 6 Overall length	mm	7901	7986 (7813)	8051 (7878)	8047	8132 (7959)	8197 (8024)	8032	8117 (7943)	8182 (8008)
*13 Overall height with bucket at full raise	mm	5803	5882 (5768)	5915 (5836)	5803	5882 (5768)	5915 (5836)	5803	5882 (5768)	5915 (2836)
*24 Loader clearance radius with bucket in carry position	mm	6063	6087 (6019)	6105 (6037)	6124	6148 (6081)	6167 (6099)	6124	6148 (6081)	6167 (6099)
Static tipping load, straight	kg	7425	7305 (7862)	7238 (7778)	7266	7156 (7700)	7077 (7615)	7367	7258 (7803)	7179 (7718)
Static tipping load, full 40° turn	kg	6412	6290 (6809)	6236 (6730)	6253	6149 (6647)	6074 (6567)	6354	6251 (6750)	6177 (6671)
Breakout force	kN	148	138 (15 619)	131 (14 754)	147	136 (15 484)	130 (14 620)	156	145 (16 568)	137 (15 594)
Operating weight	kg	13 275	13 335 (13 130)	13 376 (13 171)	13 410	13 470 (13 266)	13 511 (13 307)	13 325	13 385 (13 180)	13 426 (13 221)

Specifications are for 930G with optional counterweight, standard lubricants, full fuel tank, cab with A/C, sliding glass, Cat contour seat, limited slip axles with dual disc rear, 4L-4V hydraulics, heavy duty cooler, supplemental steering, roading fenders, reversing fan, back-up alarm, guards, ride control, radio, 2.1 m³ high density bucket with bolt-on cutting edge, 80 kg operator and 600/65 R25 GP-3D tires. Tipping load is defined by SAE J732 JUN92.

* See also Dimensions with Bucket on pg.18.

** Dimensions are measured to the tip of the bucket teeth to provide accurate clearance data. SAE standards specifies the cutting edge.

	High Density (General Purpose)						Light Material	Penetration	Waste
	Bolt-On Cutting Edge		Bolt-On Teeth and Segments**		Bolt-On Teeth**		Bolt-On Cutting Edge	Flush Mounted Teeth	Rubber Edge
	2.1	2.3	2.1	2.3	2.0	2.1	2.8	2.3	3.1
	1.7	2.0	1.7	1.9	1.6	1.9	2.3		2.6
	2550	2550	2585	2585	2585	2585	2550		2550
	3436 (3527)	3402 (3492)	3332 (3423)	3298 (3388)	3332 (3423)	3298 (3388)	3300 (3391)		3256
	1073 (965)	1114 (1006)	1176 (1068)	1217 (1110)	1176 (1068)	1217 (1110)	1210 (1103)		1252
	2135 (2065)	2161 (2092)	2191 (2125)	2215 (2151)	2191 (2125)	2215 (2151)	2210 (2145)		2229
	2919 (2779)	2972 (2832)	3065 (2925)	3118 (2978)	3065 (2925)	3118 (2978)	3112 (2971)		3172
	157 (157)	162 (162)	170 (170)	175 (175)	170 (170)	175 (175)	174 (174)		181
	7877 (7737)	7933 (7793)	8023 (7883)	8079 (7939)	8007 (7866)	8063 (7923)	8081 (7940)		8146
	5835 (5712)	5843 (5719)	5835 (5712)	5843 (5719)	5835 (5712)	5843 (5719)	5971 (5796)		6029
	6045 (5996)	6061 (6013)	6106 (6058)	6122 (6075)	6106 (6058)	6122 (6075)	6105 (6057)		6125
	7696 (8102)	7612 (8055)	7535 (7940)	7450 (7892)	7637 (8043)	7553 (7996)	7466 (7852)		7388
	6662 (7035)	6582 (6993)	6501 (6873)	6420 (6830)	6603 (6976)	6523 (6934)	6438 (6800)		6359
	148 (16 759)	141 (15 955)	146 (16 625)	140 (15 820)	156 (17 858)	149 (16 944)	127 (14 146)		121
	13 172 (13 007)	13 227 (13 011)	13 307 (13 143)	13 362 (13 147)	13 222 (13 057)	13 277 (13 061)	13 281 (13 129)		13 332

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical

Alternator, 80-amp
Batteries, maintenance-free, 950 CCA, (2)
Directional signals (front & rear)
Halogen work lights (front & rear)
Ignition key start/stop switch
Starting aid, thermal
Starting and charging system, 24V
Switch, battery disconnect

Operator Environment

Cab, ROPS (sound suppressed and pressurized)

Gauges:

Engine coolant temperature
Hydraulic oil temperature
Torque converter oil temperature
Fuel level gauge
Speedometer
Digital tachometer
Digital hour meter/odometer
Transmission oil

Warning indicators:

Primary steering malfunction
Electrical system voltage low
Coolant temperature
Engine oil pressure low
Parking brake applied
Brake charge pressure low
Transmission oil temperature
Transmission oil filter bypass
Hydraulic oil filter bypass
Adjustable tilt steering column
Coat hook
Ground level door release
Heater/defroster
Horn, steering wheel mounted (electric)
Hydraulic control lever lockout
Interior light
Interior and exterior auxiliary power sockets

Lighter
Lunch box storage with cup holder
Pilot hydraulic implement controls
Rear window defroster, electric
Rear view mirrors (2 inside)
Seat, adjustable suspension, armrest (fabric or vinyl)
Seat belt, 51 mm or 75 mm, retractable
Tinted safety glass, front
Tool box
Two door cab, fixed glass
Wet arm wiper/washer (front & rear), front intermittent

Power Train

Engine, Caterpillar 3056E DIT ATAAC
Low emission diesel engine
Turbocharged
After cooled
Electronically controlled engine
Air cleaner, dry type
Axle seal guards
Brakes, enclosed wet-disc full hydraulic
Differentials, conventional (front/rear)
Driveshaft, lubed for life
Engine fuel priming pump
Engine speed control
Fuel/water separator
Muffler
Radiator, unit serviceable
S•O•S oil sampling port engine oil transmission oil
Torque converter
Transmission, 4F/3R, autoshift, single lever control with F/N/R and kickdown button
Transmission neutralizer; operator programmable

Hydraulics

Hydraulic diagnostic connectors
Hydraulic oil cooler
Hydraulic control, 2-valve, 1-lever with F/N/R
Load-sensing steering system
S•O•S oil sampling port, hydraulic oil

Other Standard Equipment

Antenna, for radio
Antifreeze/coolant, extended-life protects to -36°C
Brakes, secondary and parking
Counterweight
Engine enclosure, lockable
Fenders, front
Hitch, recovery
Loader linkage, VersaLink
Lift kickout, automatic
Machine Security System ready
Product Link, World View ready
Remote grease lines
Steering stops, cushioned
Swing-out, hydraulically driven demand fan
Vandalism protection, lockable service points
Visual indicators:
Air cleaner service
Coolant level
Hydraulic oil
Transmission oil

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Electrical

Alternator, 95-amp
Alarm, back-up
Beacon light, rotating, magnetic-mount
Electrical accessories package
(12V or 24V converter,
accessory plug outlet, wiring)
Rear-view camera system
Roading lights
Working lights, auxiliary, cab-mounted

Operator Environment

Air conditioner (R-134a refrigerant)
Canopy, ROPS
Closed Circuit Breather (CCB)
Mirrors, external (two, two sizes
available)
Radio prep packages:
12V installation, includes speakers,
cable, mounting bracket, hardware,
converter and accessory plug,
radio not included.
24V installation, same as above,
but without converter or
accessory plug
Radio, AM/FM
Seats:
Cat Contour Seat, fabric,
with adjustable backrest and
lumbar support
Cat Contour Seat, fabric, electrically
adjustable with air suspension
KAB seat, fabric, heated, with alarm
and fully adjustable armrests
Sliding door windows (left and right)
Sun screen, rear
Sun visor, front

Power Train

Brakes, heavy duty, with rear axle
oil cooler
Differential, limited slip, front axle
and/or rear axle
Fan, reversing
Ride control system
Starting aid, engine coolant heater,
120V or 240V

Hydraulics

Hydraulic control, two lever
(lift/tilt)
Hydraulic control auxiliary; third and
fourth, fifth and sixth valve
Hydraulic oil cooler, heavy-duty

Other Optional Equipment

Antifreeze/coolant, extended-life,
protects to -50°C
Buckets/ground engaging tools
Counterweight, additional 470 kg
Dust bowl precleaner
Fenders
roading, rear
steel, front
Guards:
Crankcase
Driveshaft, front
Lights
Power train
Radiator
Windshield
Linkage, high lift
Machine Security System
Material handling arm
Pallet forks, carriage
Product Link, World View
Quick Coupler, Caterpillar
Quick Coupler, wide
Radiator, wide fin spacing, 5.5 fpi
Sound suppression package
Steering:
Secondary
Dual Mode
Tires:
Radial, 20.5 R25 and 600/65 R25

930G Wheel Loader

HEHL3225 (12/2004) hr

Featured photos of machines may not always include standard equipment.
See your Caterpillar Dealer for available options.
Materials and specifications are subject to change without notice.

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