

# 930G

## Wheel Loader



### Standard and High Lift Arrangement

#### Cat® 3056E DIT ATAAC Engine

Rated Net Power (ISO 9249) at 2300 rpm	112 kW/152 hp
Maximum Net Power (ISO 9249) at 1900 rpm	120 kW/163 hp
Bucket Capacities	2.1-5.0 m <sup>3</sup>
Operating Weight	12 680 kg
Maximum Weight	13 200 kg

# 930G Wheel Loader

*Offering world class performance, value and reliability.*

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## 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**

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## 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**

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## 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**

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## Hydraulic System

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

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## 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*



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### 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**

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### 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**

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### 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**

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### 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**

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### 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 R 25 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.*

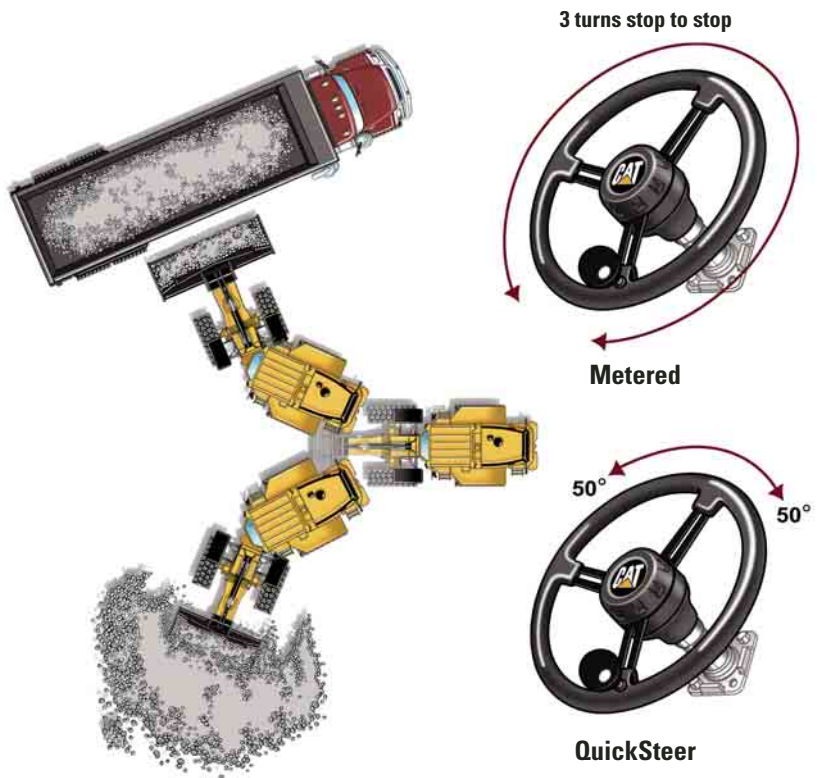
**Productivity.** Balanced structural design and exceptional rimpull tuned to powerful implement hydraulics allow fast cycle times and higher productivity.

**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.

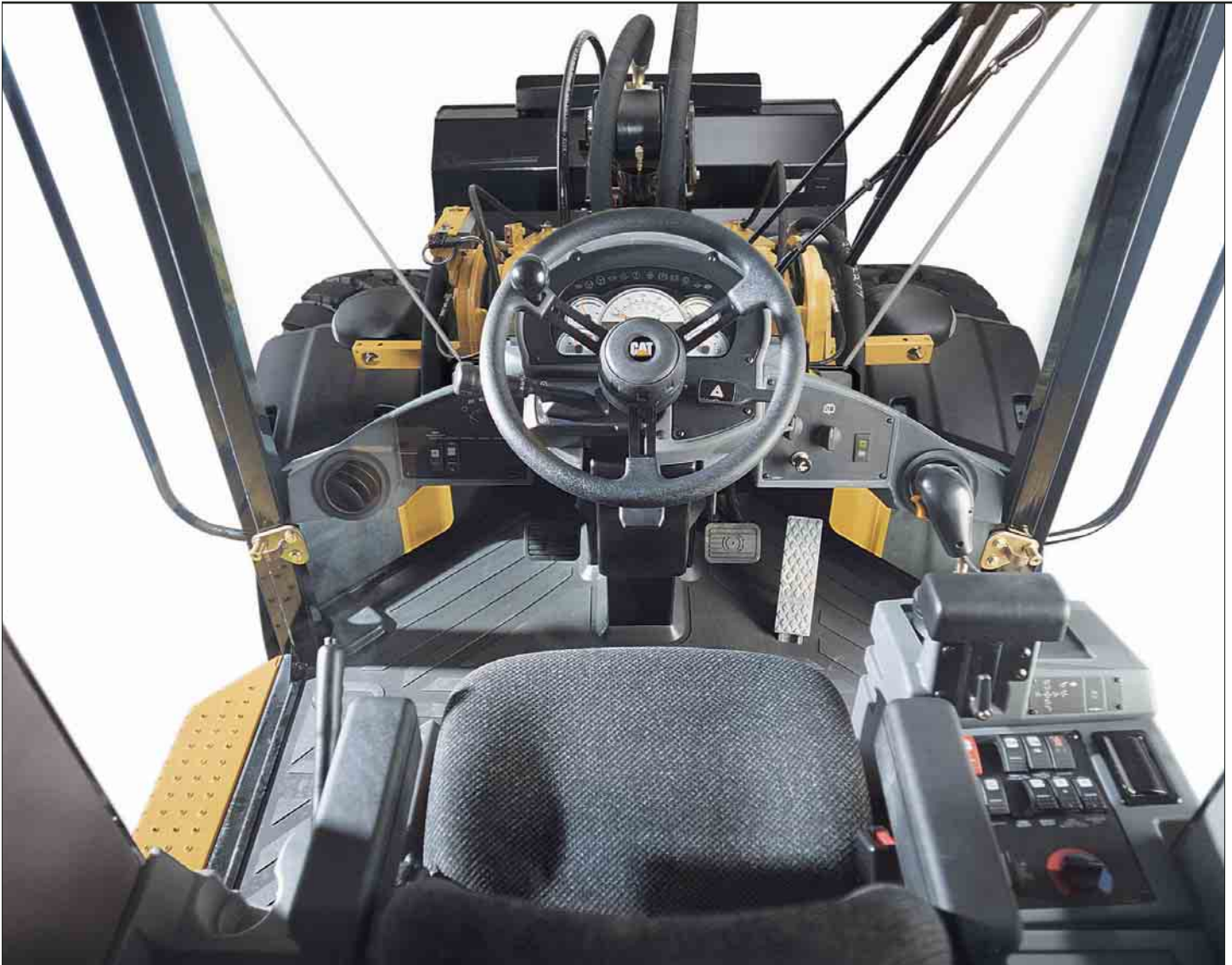
### **Optional Dual Mode Steering.**

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.

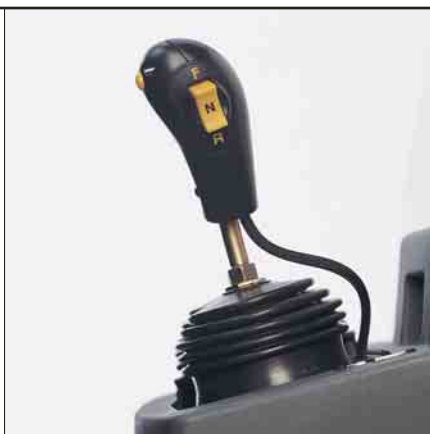


**Instrument Panel.** The 930G instrument panel is conveniently located with easy-to-read gauges and expanded warning/indicator and diagnostic functions.

#### **Electronic Engine Speed Control.**

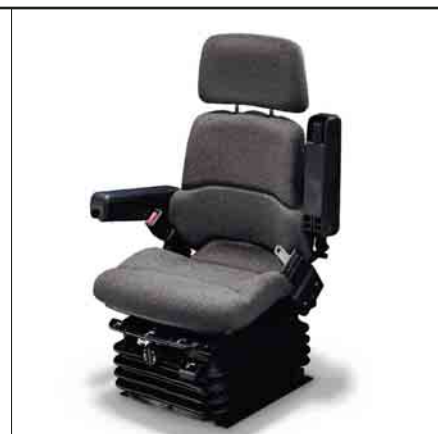
A specific engine rpm can be set and maintained with a switch in the cab.

**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•S<sup>SM</sup> 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](http://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/152 hp	
EEC 80/1269	112 kW/152 hp	
Maximum Net Power		1900 rpm
ISO 9249	120 kW/163 hp	
EEC 80/1269	120 kW/163 hp	
Bore	100 mm	
Stroke	127 mm	
Displacement	6 liters	

- All engine horsepowers are metric including front page.
- 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 (139 hp) and Maximum Net Power is 114 kW (155 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 (20.5 R 25 tires).

Forward		km/h
1		7
2		13
3		25
4		38
Reverse		
1		7
2		13
3		25

- 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

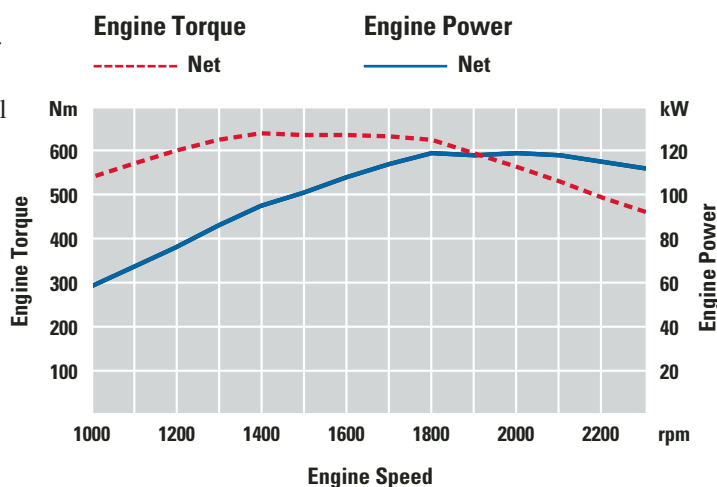
Stroke 777 mm

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, 12 PR (L2)
- 20.5 - 25, 12 PR (L3)
- 20.5 R 25, radial (L2)
- 20.5 R 25, radial (L3)
- 17.5 R 25 (L4/5)
- 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.
- 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	12 684 kg
Maximum Weight	13 198 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 20.5 R 25 L3 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

## 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).

## 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

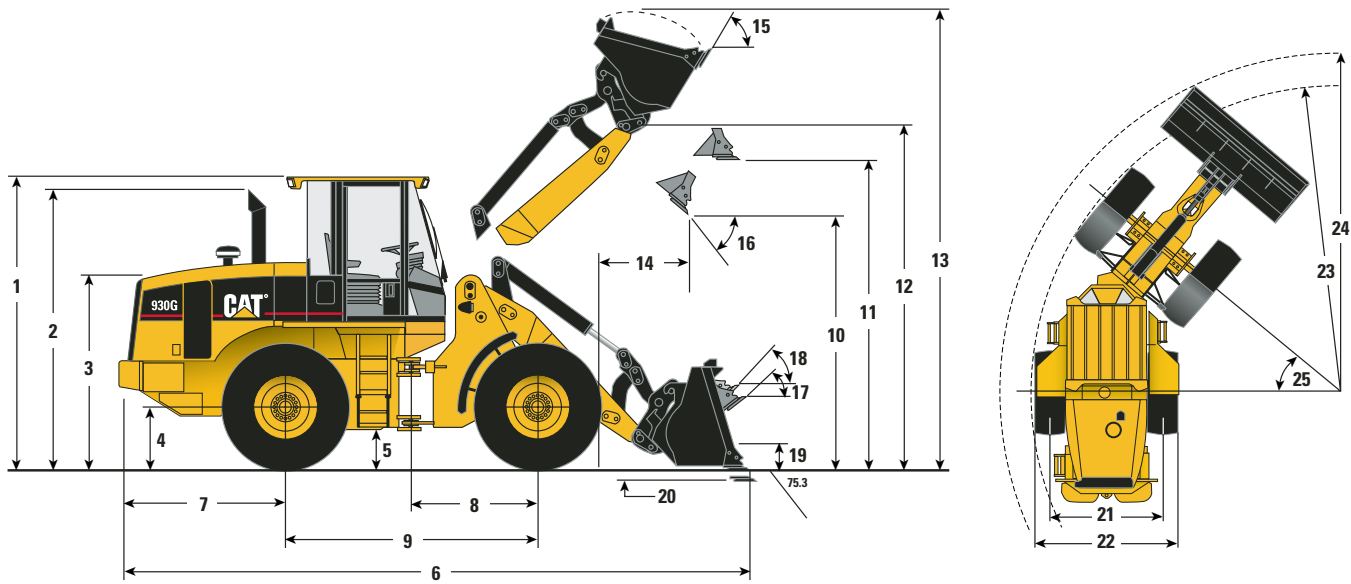
- Choice of two low effort control systems: a joystick or a two-lever control of lift and tilt circuits.
- Optional third and fourth, fifth and sixth function hydraulic circuits available with a selection of lever controls for remote hydraulic functions.
- Controls can be disabled for roading.
- Adjustable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

## Supplemental Specifications

	Change in Operating Weight	Change in Articulated Static Tipping Load with 2.1 m <sup>3</sup> 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, 12 PR (L2)	-868	-486
17.5-25, 12 PR (L3)	-796	-446
17.5-25, radial (L2)	-828	-464
17.5-25, radial (L3)	-728	-408
Tires, 3 piece rims		
17.5-25, 12 PR (L2)	-744	-417
17.5-25, 12 PR (L3)	-672	-376
17.5-25, radial (L2)	-704	-394
17.5-25, radial (L3)	-604	-338
20.5-25, 12 PR (L2)	-456	-255
20.5-25, 12 PR (L3)	-252	-141
20.5-25, radial (L2)	-388	-217
20.5-25, radial (L3)	0	0

## Dimensions with Bucket

All dimensions are approximate. Dimensions may vary with bucket.



	Standard VersaLink	High Lift VersaLink
<b>1</b> Height to top of ROPS/FOPS	3278 mm	3278 mm
<b>2</b> Height to top of exhaust stack	3205 mm	3205 mm
<b>3</b> Height to top of hood	2234 mm	2234 mm
<b>4</b> Height to centre of axle	685 mm	685 mm
<b>5</b> Ground clearance	411 mm	411 mm
<b>6</b> Overall length	7399 mm	7884 mm
<b>7</b> Length - rear axle to bumper	1816 mm	1816 mm
<b>8</b> Centre line of front axle to hitch	1450 mm	1450 mm
<b>9</b> Wheel base length	2900 mm	2900 mm
<b>10</b> Dump clearance at maximum lift and 45° dump	2926 mm	3426 mm
<b>11</b> Bucket clearance at maximum lift and carry	3716 mm	4216 mm
<b>12</b> Bucket pin height at maximum lift	4049 mm	4549 mm
<b>13</b> Overall height - bucket raised	5334 mm	5825 mm
<b>14</b> Reach at maximum lift and 45° dump	1082 mm	1082 mm
<b>15</b> Rack back angle at maximum lift and level	60°	62°
<b>16</b> Dump angle at maximum lift	45°	45°
<b>17</b> Rack back angle at ground	51°	52°
<b>18</b> Rack back angle at carry	53°	57°
<b>19</b> Carry height	418 mm	568 mm
<b>20</b> Digging depth	152 mm	167 mm
	<b>20.5-25 12 PR L2</b>	<b>20.5 R 25 L3</b>
<b>21</b> Width over tread center	1850 mm	1850 mm
<b>22</b> Overall width over tires	2415 mm	2455 mm
<b>23</b> Minimum turning radius over tires	5246 mm	5264 mm
<b>24</b> Loader clearance radius with bucket in carry position	See Operating Specifications on pg 22-25	
<b>25</b> 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 20.5 R 25 L3 tires.

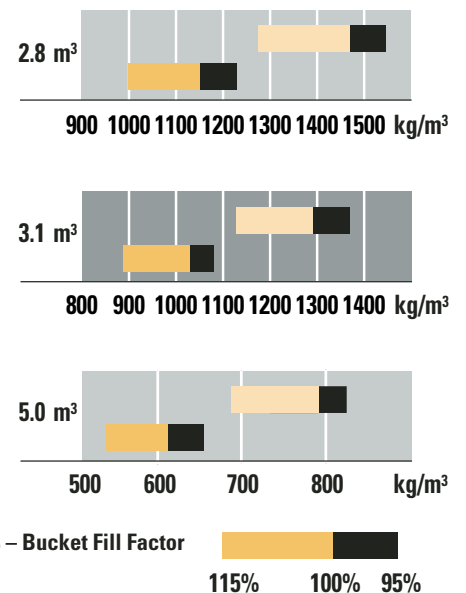
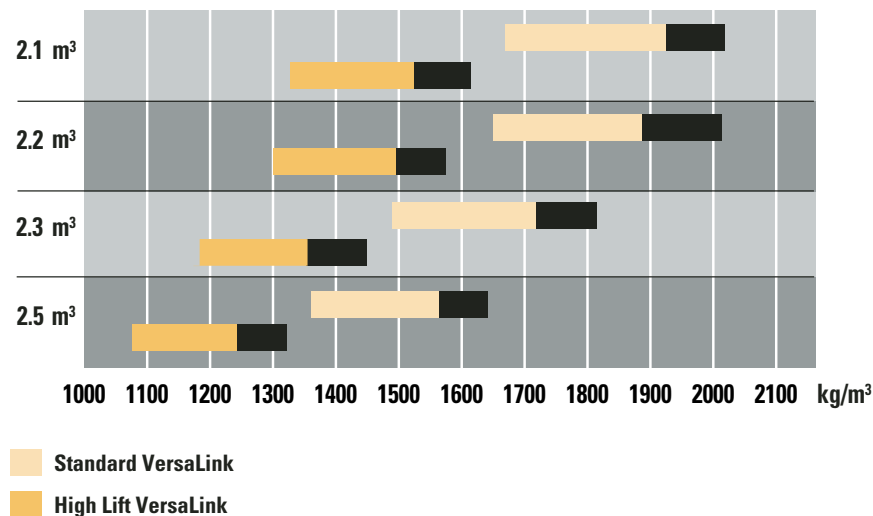
## Typical Material Densities – Loose

	kg/m <sup>3</sup>		kg/m <sup>3</sup>
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

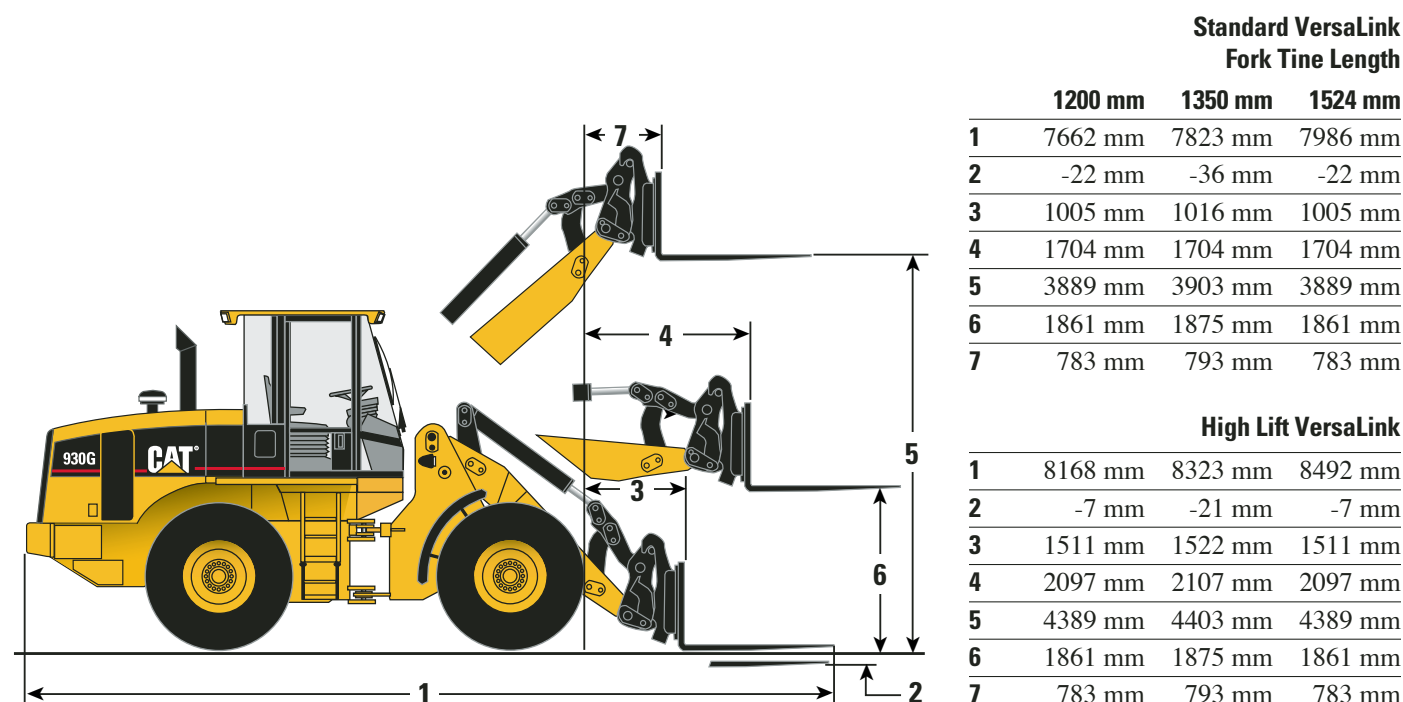
### Material Density

#### Bucket



## Dimensions with Pallet Forks

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



## Operating Specifications with Pallet Forks

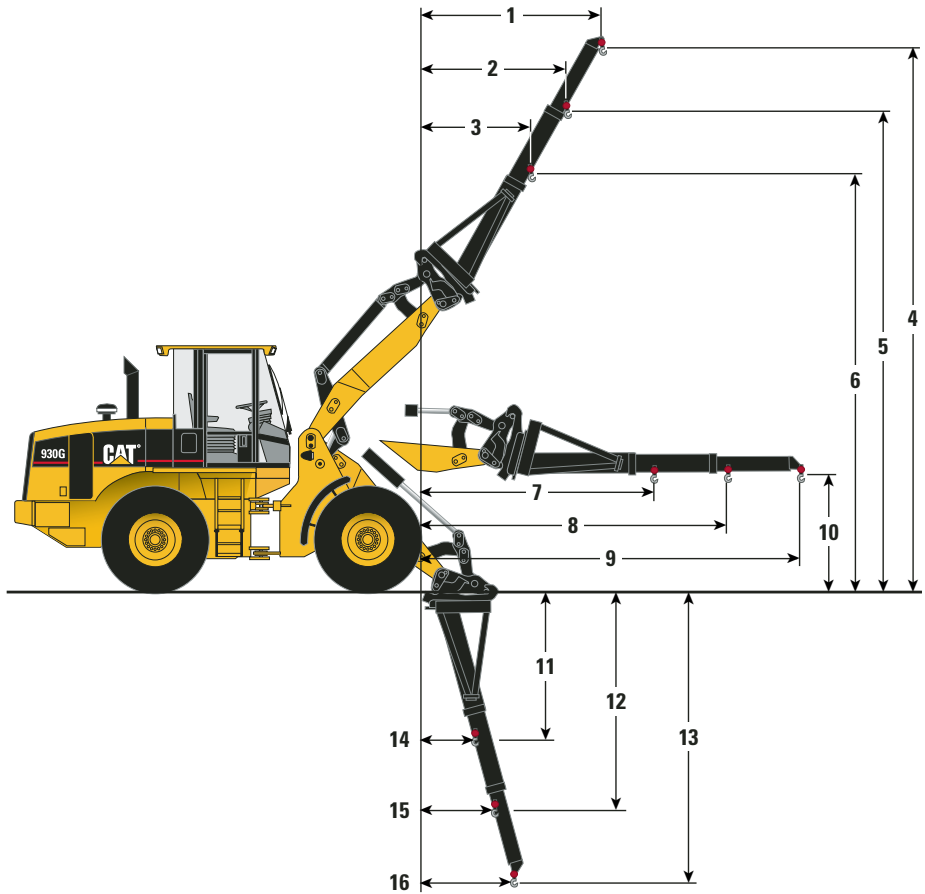
Standard VersaLink	Fork Tine Length		
	1200 mm	1350 mm	1524 mm
Operating load			
Per EN 474-3, rough terrain (60% of FTSTL)	3796 kg	3598 kg	3484 kg
Per EN 474-3, firm and level ground (80% of FTSTL)	5061 kg	4798 kg	4646 kg
Load center	600 mm	675 mm	762 mm
Static tipping load with level arms and forks, straight*	7232 kg	6864 kg	6652 kg
Static tipping load with level arms and forks, full 40° turn*	6326 kg	5997 kg	5807 kg
Operating weight*	12 378 kg	12 446 kg	12 468 kg
<b>High Lift VersaLink</b>			
Operating load			
Per EN 474-3, rough terrain (60% of FTSTL)	3266 kg	3106 kg	3014 kg
Per EN 474-3, firm and level ground (80% of FTSTL)	4354 kg	4141 kg	4019 kg
Load center	600 mm	675 mm	762 mm
Static tipping load with level arms and forks, straight*	6245 kg	5948 kg	5778 kg
Static tipping load with level arms and forks, full 40° turn*	5443 kg	5176 kg	5024 kg
Operating weight*	12 523 kg	12 591 kg	12 613 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 20.5 R 25 L3 tires. Tipping load is defined by SAE J732 JUN92.

## Dimensions with Material Handling Arm

All dimensions are approximate.

	Standard VersaLink	High Lift VersaLink
1	2225 mm	2116 mm
2	1788 mm	1705 mm
3	1350 mm	1294 mm
4	7736 mm	8293 mm
5	6837 mm	7381 mm
6	5939 mm	6470 mm
7	3363 mm	3746 mm
8	4362 mm	4756 mm
9	5362 mm	5746 mm
10	1876 mm	1876 mm
11	1898 mm	1823 mm
12	2824 mm	2702 mm
13	3751 mm	3581 mm
14	1124 mm	1853 mm
15	1498 mm	2329 mm
16	1873 mm	2807 mm



## Operating Specifications with Material Handling Arm

Standard VersaLink	Retracted	Mid-Position	Extended
Operating load	2330 kg	1863 kg	1553 kg
Static tipping load, straight*	5332 kg	4266 kg	3559 kg
Static tipping load, full 40° full turn*	4659 kg	3725 kg	3106 kg
Operating weight*	12 345 kg	12 345 kg	12 345 kg
<b>Equipped with High Lift VersaLink</b>			
Operating load	2066 kg	1680 kg	1418 kg
Static tipping load, straight*	4732 kg	3862 kg	3260 kg
Static tipping load, full 40° full turn*	4132 kg	3360 kg	2835 kg
Operating weight*	12 490 kg	12 490 kg	12 490 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 20.5 R 25 L3 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 <sup>3</sup>	2.1	2.3	2.5	2.1	2.3	2.5	1.9	2.1	2.3	
Struck capacity	m <sup>3</sup>	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	
* <b>10</b> Dump clearance at full lift and 45° discharge	mm	2833	2773 (2907)	2727 (2861)	2721	2660 (2794)	2614 (2748)	2721	2660 (2794)	2614 (2748)	
* <b>14</b> Reach at full lift and 45° discharge	mm	931	1006 (934)	1051 (980)	1039	1100 (1028)	1146 (1074)	1039	1100 (1028)	1146 (1074)	
Reach at 45° discharge and 2130 mm clearance	mm	1518	1543 (1546)	1561 (1568)	1545	1567 (1578)	1582 (1597)	1545	1567 (1578)	1582 (1597)	
Reach with lift arms horizontal and bucket level	mm	2527	2612 (2467)	2667 (2532)	2673	2758 (2613)	2823 (2678)	2673	2758 (2613)	2823 (2678)	
* <b>20</b> Digging depth	mm	201	201 (157)	201 (157)	214	214 (170)	214 (170)	214	214 (170)	214 (170)	
* <b>6</b> Overall length	mm	7431	7516 (7336)	7581 (7401)	7577	7662 (7482)	7727 (7547)	7557	7642 (7462)	7707 (7527)	
* <b>13</b> Overall height with bucket at full raise	mm	5307	5386 (5276)	5420 (5343)	5307	5386 (5276)	5420 (5343)	5307	5386 (5276)	5420 (5343)	
* <b>24</b> Loader clearance radius with bucket in carry position	mm	5827	5849 (5783)	5866 (5799)	5885	5908 (5841)	5926 (5858)	5885	5908 (5841)	5926 (5858)	
Static tipping load, straight	kg	9090	8971 (9656)	8884 (9560)	8925	8805 (9488)	8716 (9391)	9030	8910 (9594)	8823 (9499)	
Static tipping load, full 40° turn	kg	7894	7783 (8406)	7701 (8317)	7730	7617 (8238)	7534 (8148)	7834	7722 (8345)	7640 (8255)	
Breakout force	kN	136	126 (143)	120 (135)	134	125 (142)	119 (134)	143	133 (151)	126 (142)	
Operating weight	kg	12 912	12 972 (12 767)	13 013 (12 808)	13 048	13 108 (12 903)	13 149 (12 944)	12 962	13 022 (12 817)	13 063 (12 858)	

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 m<sup>3</sup> high density bucket with bolt-on cutting edge, 80 kg operator and 20.5 R 25 L3 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	Waste
	Bolt-On Cutting Edge		Bolt-On Teeth and Segments**		Bolt-On Teeth**		Bolt-On Cutting Edge	Bolt on Rubber Edge
	2.1	2.3	2.1	2.3	2.0	2.1	2.8	3.1
	1.7	2.0	1.7	1.9	1.6	1.9	2.3	2.6
	2550	2550	2585	2585	2585	2585	2585	2550
	2926 (3017)	2892 (2982)	2822 (2913)	2788 (2878)	2822 (2913)	2788 (2878)	2686 (2881)	2746
	1082 (975)	1123 (1016)	1185 (1078)	1227 (1119)	1185 (1078)	1227 (1119)	1323 (1113)	1261
	1704 (1641)	1727 (1665)	1751 (1693)	1773 (1716)	1751 (1693)	1773 (1716)	1807 (1711)	1782
	2535 (2394)	2587 (2447)	2681 (2540)	2733 (2593)	2681 (2540)	2733 (2593)	2873 (2587)	2787
	152 (152)	157 (157)	152 (152)	170 (170)	165 (165)	170 (170)	182 (169)	176
	7399 (7259)	7456 (7316)	7545 (7405)	7602 (7462)	7525 (7384)	7582 (7442)	7752 (7465)	7671
	5334 (5222)	5351 (5230)	5344 (5222)	5351 (5230)	5344 (5222)	5351 (5230)	5479 (5304)	5538
	5812 (5761)	5828 (5776)	5870 (5820)	5886 (5836)	5870 (5820)	5886 (5835)	5927 (5304)	5886
	9450 (9941)	9357 (9881)	9284 (9773)	9189 (9712)	9390 (9880)	9295 (9819)	9036 (9662)	9129
	8223 (8672)	8135 (8618)	8057 (8504)	7968 (8449)	8163 (8611)	8074 (8556)	7825 (8411)	7909
	135 (153)	129 (146)	134 (152)	128 (145)	143 (163)	136 (155)	115 (130)	111
	12 809 (12 644)	12 864 (12 648)	12 945 (12 780)	13 000 (12 784)	12 859 (12 694)	12 914 (12 698)	13 054 (12 766)	12 969

# 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 <sup>3</sup>	2.1	2.3	2.5	2.1	2.3	2.5	1.9	2.1	2.3	
Struck capacity	m <sup>3</sup>	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	
<b>*10</b> Dump clearance at full lift and 45° discharge	mm	3333	3283 (3407)	3227 (3361)	3221	3160 (3407)	3115 (3248)	3221	3160 (3294)	3115 (3248)	
<b>*14</b> Reach at full lift and 45° discharge	mm	945	1005 (934)	1051 (980)	1039	1099 (1934)	1145 (1074)	1039	1099 (1028)	1143 (1074)	
Reach at 45° discharge and 2130 mm clearance	mm	1960	1991 (1983)	2014 (2008)	1998	2026 (1930)	2046 (2047)	1998	2026 (2024)	2046 (2047)	
Reach with lift arms horizontal and bucket level	mm	2921	3006 (2861)	3071 (2926)	3067	3152 (2861)	3217 (3072)	3067	3152 (3007)	3217 (3072)	
<b>*20</b> Digging depth	mm	216	216 (172)	216 (172)	229	229 (172)	229 (185)	229	229 (185)	229 (185)	
<b>* 6</b> Overall length	mm	7908	7993 (7820)	8058 (7885)	8054	8139 (7820)	8204 (8031)	8038	8123 (7949)	8188 (8014)	
<b>*13</b> Overall height with bucket at full raise	mm	5793	5872 (5758)	5905 (5826)	5793	5872 (5758)	5905 (5826)	5793	5872 (5758)	5905 (5826)	
<b>*24</b> Loader clearance radius with bucket in carry position	mm	6064	6087 (6020)	6105 (6038)	6124	6148 (6081)	6167 (6099)	6124	6148 (6081)	6167 (6100)	
Static tipping load, straight	kg	7313	7205 (7745)	7127 (7661)	7154	7044 (7583)	6965 (7498)	7255	7146 (7686)	7068 (7602)	
Static tipping load, full 40° turn	kg	6313	6211 (6706)	6138 (6628)	6153	6050 (6644)	5976 (6465)	6254	6152 (6647)	6079 (6568)	
Breakout force	kN	145	135 (153)	128 (145)	144	134 (152)	127 (143)	153	142 (163)	135 (153)	
Operating weight	kg	13 057	13 117 (12 912)	13 158 (12 953)	13 192	13 252 (13 048)	13 293 (13 089)	13 107	13 167 (12 962)	13 208 (13 003)	

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 m<sup>3</sup> high density bucket with bolt-on cutting edge, 80 kg operator and 20.5 R 25 L3 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	Waste
	Bolt-On Cutting Edge		Bolt-On Teeth and Segments**		Bolt-On Teeth**		Bolt-On Cutting Edge	Bolt on Rubber Edge
	2.1	2.3	2.1	2.3	2.0	2.1	2.8	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
	3426 (3517)	3392 (3482)	3322 (3413)	3288 (3378)	3322 (3413)	3288 (3378)	3290 (3381)	3246
	1082 (974)	1123 (1015)	1185 (1077)	1226 (1119)	1185 (1077)	1226 (1119)	1219 (1112)	1261
	2140 (2070)	2165 (2097)	2195 (2129)	2220 (2155)	2195 (2129)	2220 (2155)	2160 (2150)	2233
	2928 (2788)	2981 (2841)	3074 (2934)	3127 (2987)	3074 (2934)	3127 (2987)	3121 (2980)	3181
	167 (167)	172 (172)	180 (180)	185 (185)	180 (180)	185 (185)	184 (184)	191
	7884 (7743)	7940 (7800)	8030 (7889)	8086 (7946)	8013 (7873)	8069 (7929)	8087 (7947)	8152
	5825 (5702)	5833 (5709)	5825 (5702)	5833 (5709)	5825 (5702)	5833 (5709)	5961 (5786)	6019
	6045 (5997)	6062 (6014)	6106 (6058)	6123 (6076)	6106 (6058)	6123 (6076)	6167 (6058)	6125
	7582 (7984)	7498 (7937)	7421 (7822)	7336 (7775)	7523 (7924)	7439 (7878)	7198 (7735)	7289
	6561 (6931)	6481 (6889)	6400 (6769)	6319 (6726)	6502 (6871)	6422 (6829)	6191 (6697)	6284
	145 (164)	139 (157)	143 (163)	137 (155)	153 (175)	146 (166)	123 (139)	119
	12 954 (12 789)	13 009 (12 793)	13 089 (12 925)	13 144 (12 929)	13 004 (12 839)	13 059 (12 614)	13 198 (12 911)	13 114

## 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 R 25 L2  
Radial, 20.5 R 25 L3  
Radial, 17.5 R 25 L4/L5

# 930G Wheel Loader

HEHL3225 (04/2005) 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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