914G
Wheel Loader
IT14G
Integrated Toolcarrier

Cat® 3054C DIT Engine	
Gross Power	75 kW/101 hp
Net Power	72 kW/96 hp
Maximum Operating Weight	
914G	7950 kg
IT14G	8450 kg
Bucket Capacities	1.2 to 1.4 m^3

914G Wheel Loader and IT14G Integrated Toolcarrier

The 914G/IT14G defines world-class performance, value and reliability.

Performance

✔ The Cat 3054C DIT engine meets the latest Stage II emissions criteria and is performance matched with a Cat hystat transmission for smoothness and operator comfort. **pg. 4**

Operator Station

Ergonomically designed for total machine control in a comfortable, spacious environment. All controls, levers, switches, and gauges are positioned to maximize productivity. **pg. 6**

Work Tools

Caterpillar's selection of general purpose and multi purpose buckets are designed to optimize performance. A quick coupler (optional on the 914G) maximizes productivity. **pg. 8**

The 914G and IT14G set the standard in it's class for rugged, reliable performance, responsiveness and operating comfort.

✔ *New feature*

Owning and Operating Costs

✔ Cost saving features help improve your bottom line. **pg. 10**

Serviceability

✔ Improved access and fewer maintenance requirements provide unparalleled ease of service. **pg. 10**

Environmentally Responsible Design

Caterpillar machines not only help you build a better world, they help maintain and preserve our fragile environment. **pg. 11**

Complete Customer Support

Caterpillar dealer services ensure a longer machine operating life with lower costs. **pg. 12**

Performance

Exceptionally tough, the rugged performance and improved gradeability of the 914G/IT14G helps increase productivity.

Caterpillar Engine. The Caterpillar 3054C DIT (Direct Injection Turbo-charged) engine has a proven reputation for rugged, reliable operation while providing peak performance in a wide range of operating conditions.

Low Emission, Stage II Engine. The standard 3054C DIT is a very low emission engine designed to meet today's Stage 2 worldwide environmental emission standards.

Cylinder Block. The 3054C cylinder block features a deep skirted, internally stiffened cast iron block. Extra stock is used in the main bearing bulkheads for added rigidity.

Steel Crankshaft. The 3054C features a large diameter, hardened forged chrome-molybdenum steel crankshaft with wide main and rod bearings for long service life.

Pistons. The pistons are three-ring, controlled-expansion design.

Oil Pump. The 3054C uses a gear-driven oil pump located in the oil pan. Being mounted below the crankshaft centerline allows the pump to prime quicker and get up to pressure faster to help reduce wear and extend engine service life.

Fuel Pump and Fuel Filter. The 3054C uses a highly dependable rotary distributor-type fuel pump. The fuel filter is integrated with an electric lift pump located on the hystat cover for easy serviceability. The electric lift pump provides exceptional cold start performance and automatic priming during filter changes.

Water Pump. The gear-driven water pump provides reliable performance compared with belts that can break and disable the engine.

Starting System. The starting system for the 3054C is a 24V, 4.5 kW gear reduction starter that incorporates internal shielding to prevent inadvertent starts. A glow plug starting aid is standard for improved starting in extremely cold temperatures.

Hydrostatic Transmission. The high-pressure closed-loop hydrostatic transmission delivers high performance with a broader range of power and performance to the ground.

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.

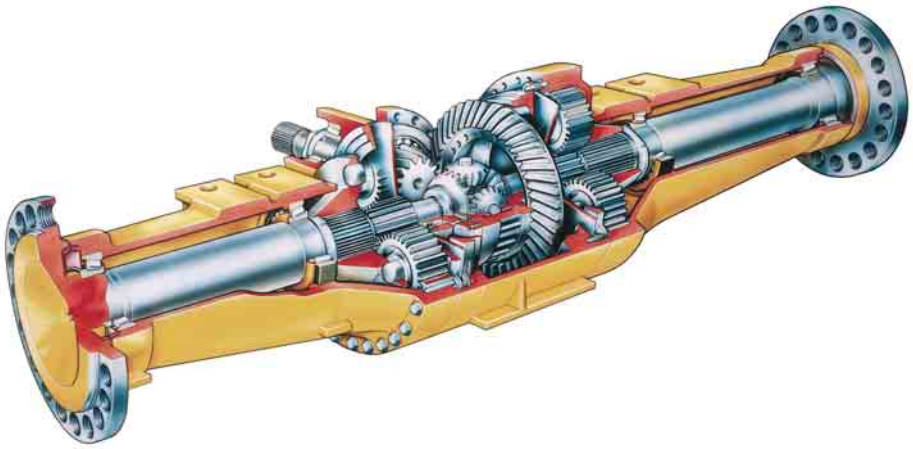
Duo-Cone Seals on Axles. Patented Duo-Cone Seals on the axle and housing keep oil in and lock contaminants out.

Differentials. A choice of standard conventional or Limited Slip Differentials adapts the machine to a wide range of operating conditions.

Final Drives. Planetary final drives consist of ring gears and planetary carrier assemblies.

Fixed Front, Oscillating Rear Axle. The fixed front, oscillating rear axle (±11 degrees) ensures four-wheel ground contact for optimum traction and stability.

Disc Brakes. Hydraulically-actuated disc brakes are standard on both front and rear axles which provide improved performance and low-effort operation.



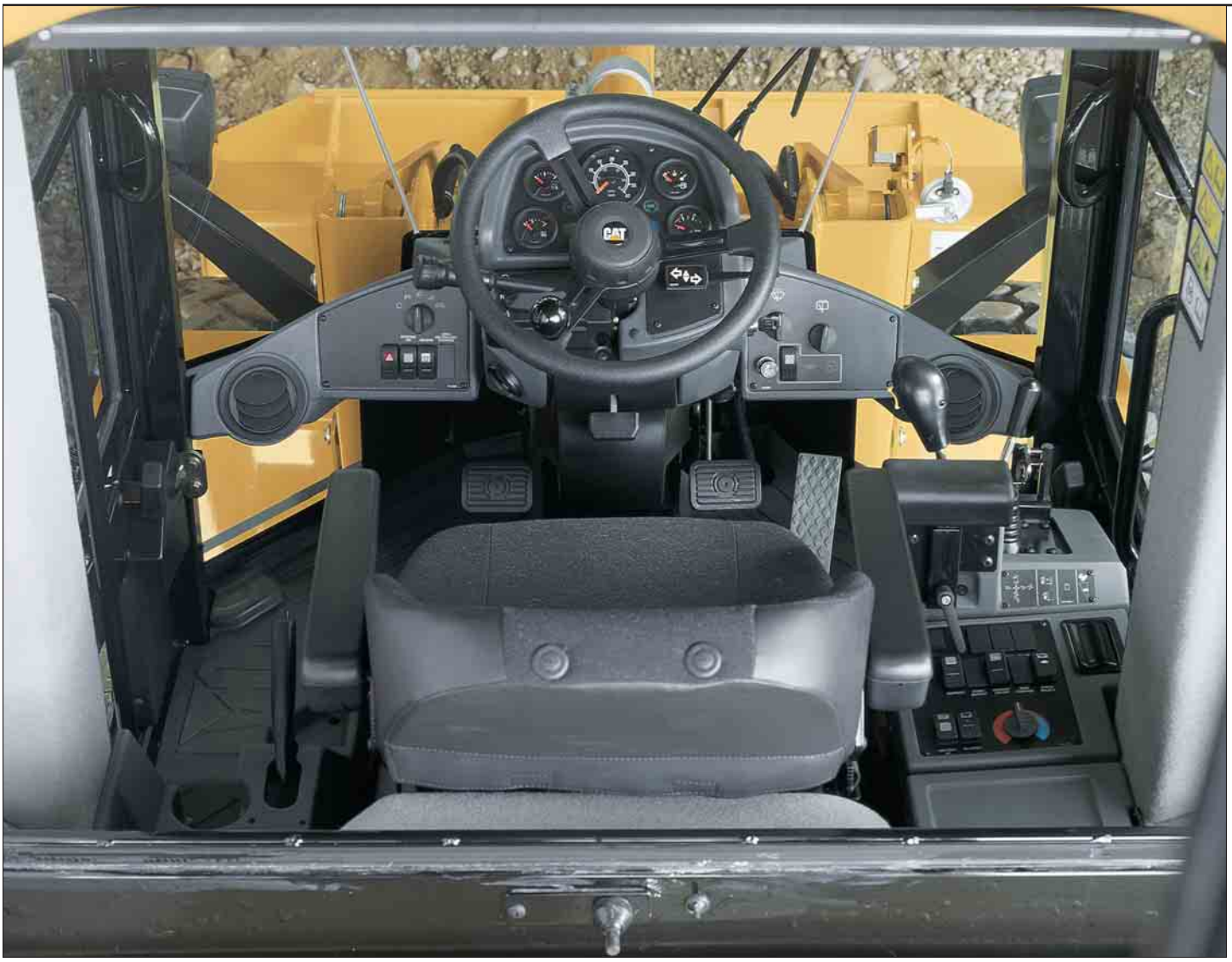
Parking Brake. Parking brake features include the following:

- Mechanical, shoe-type brake
- Mounted on drive line for positive manual operation
- Transmission is automatically neutralized when parking brake is applied

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

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.

Low-Effort Operation. Hydraulic pilot controls give the 914G/IT14G uncompromised ease of operation of lift and tilt functions. A remote transmission control option adds a forward/neutral/reverse control switch on the implement lever for easier operation and enhanced productivity. Third and fourth function controls are also available for use with special work tools. Hydrostatic, closed-center steering system with flow amplification provides fast or slow steering response, depending on the operational requirement.

Right Side Console

Steering System. The adjustable steering console lifts 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.

Optional Engine Speed Control (ESC). A specific engine rpm can be set and maintained with a switch in the cab.

Optional Creeper Control. The creeper control option allows variable function of travel speeds with full engine rpm.

Seating Options. The Comfort Series Seat option is designed for maximum comfort and fully-adjustable support.

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

Visibility. Visibility to critical areas such as the bucket is optimized. Lift arm spacing is wide and lineage geometry maximizes visibility throughout the production cycle.

Windows. Large windows with full-length glass windshield featuring bonded, tinted glass with silicon joints and fewer obstructions allows expansive peripheral visibility.

Wipers. Front and rear wipers with washers are standard on the G-Series Cab. The front wiper is intermittent.

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.

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

Customize the Cab. The cab can be customized with:

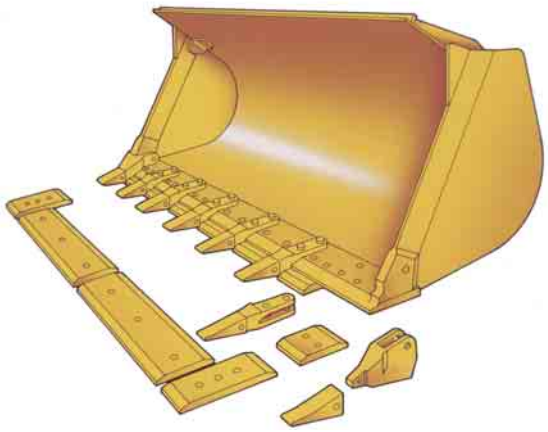
- 12V converter for powering electronics such as cellular phones, two-way radios and music systems
- Radio installation package
- Sun visor for windshield
- Roll-down sun screen for rear window
- External mirror package
- Auxiliary lighting packages

Work Tools

Caterpillar offers a wide range of work tools to match the 914G/IT14G to the job and your specific application.

Versatility. With a variety of work tools offered by Caterpillar, the 914G/IT14G is ideal for a wide range of applications.

Quick Coupler. Work tools can be changed quickly and easily with the integral quick coupler system, standard on the IT14G and optional on the 914G. A switch in the IT14G cab activates a hydraulic cylinder for positive tool engagement or disengagement.



Buckets. With exceptional rimpull and high breakout and lift forces, the 914G/IT14G demonstrates strong performance as a bucket loading machine. A wide range of Caterpillar buckets are available including:

- General purpose
- Multi purpose
- Light material
- Material handling

Buckets resist high load twisting and distortion and feature integral spill plates to help reduce spillage. Choice of ground engaging tools includes:

- Bolt-on cutting edges
- Bolt-on teeth
- Bolt-on segments
- Weld-on flush-mounted teeth

Material Handling. Exceptional visibility and heavy-lift capabilities enable you to work quickly and efficiently in material handling applications. The additional range of tools available on the IT14G include:

- Pallet forks
- Material handling arm
- Hydraulic brooms

Auxiliary Hydraulics. Optional 3rd (standard on IT14G) and 4th function hydraulics are available for use with work tools that require hydraulic power, such as rotary brooms, augers, high dump and side dump buckets.

Work Tool Controls. Work tool controls feature pilot operated lift and tilt circuits with low effort single-lever control. Controls can be locked for roading.

IT14G 8-bar Parallel Linkage. 8-bar parallel linkage on the IT14G simplifies keeping forks level throughout the range of lift, without adjustment. Longer lift arms, taller front tower and higher pivot points offer more lift, height and reach than conventional loaders. Having more tilt capacity than lift in almost every position provides superior load control.

Serviceability

Improved access and fewer maintenance requirements provide unparalleled ease of service.

Easy Access. One-piece engine enclosure hood 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 and hydraulic oil levels with sight gauges.

Swing-Out Oil Cooler. A swing-out oil cooler allows quick, easy cleaning and service to the radiator.

S•O•S℠ 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 and hydraulic oil are vertically mounted for easier servicing.

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
- Grouped grease fittings
- Positive torque hose clamps
- Braided, color coded and numbered wiring
- Self priming electric fuel lift pump

Electrical System. The electrical system is a 24-volt system. Standard machines include two 12V (900 CCA) Caterpillar maintenance-free batteries, easily accessible inside the engine enclosure, and a charging system equipped with an 80-amp alternator.

Owning and Operating Costs

Cost saving features help improve your bottom line.

Low Fuel Consumption. The 3054C DIT engine features low fuel consumption for more economical operation.

Increased Power, Faster Cycle Times. Higher horsepower and increased torque rise results in more power and faster speed-on-a-grade, 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

Machine Security System Option. The Machine Security System (MSS) option inhibits unauthorized machine use by immobilizing vital electrical circuits.

Environmentally Responsible Design

Caterpillar machines not only help you build a better world, they help maintain and preserve our fragile environment.

Low Exhaust Emissions. The Cat 3054C DIT is a low emission engine designed to meet current worldwide emission regulations and is Stage II compliant.

Low Fuel Consumption. The 914G and the IT14G get more work done in a day resulting in less fuel consumed and minimal impact on the environment.

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 and hydraulic filters are positioned vertically and are easily removed without spillage. Cat O-ring face seals, XT hose and hydraulic cylinders are all designed to help prevent fluid leaks that can weaken machine 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 in the 914G/IT14G, providing an environmentally-sound alternative to mineral-based oils.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Services. Customer Service is critical today in every business. That's why so many people buy Cat equipment. They know they are getting quality reliability and performance backed-up with the best Customer Service. Your Caterpillar dealer offers a wide range of services that can be set up under a Customer Support Agreement. The dealer will help you choose a plan that can cover the whole machine including work tools, to help you to get the best out of your investment.

Product Support. You will find a solution for your parts requirements at your dealer. Cat dealers utilize a worldwide network to find in-stock parts to minimize downtime. In addition your dealer can offer alternative solutions like Reman, Classic Parts and quality used parts to save money on original Caterpillar components.

Service Capability. Whether in the dealer's fully equipped shop or in the field, you will get highly trained service technicians using the latest technology and tools.

Maintenance. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S•O•S Fluid Analysis and Technical Analysis help you avoid unscheduled repairs.

Selection. Make detailed comparisons of the machines you are considering before you buy. How long do components last? What is the cost of preventive maintenance? Your Cat dealer can give you precise answers to these questions to make sure you operate your machines at the lowest cost.

Purchase. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment and owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training material and ideas to help you increase productivity.

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

Engine

Cat Engine 3054C DIT	
Gross Power	75 kW/100 hp
Net Power	
ISO 9249	72 kW/96 hp
EEC 80/1269	72 kW/96 hp
Bore	105 mm
Stroke	127 mm
Displacement	4.4 Liter

- Caterpillar four-stroke cycle, four cylinder 3054C DIT diesel engine. Stage II compliant.
- Ratings at 2300 rpm.
- Net power shown is the power available at the flywheel when the engine is equipped with air clean, fan, muffler and alternator.
- No derating required up to 2300 m altitude.
- Direct injection rotary fuel pump with individual adjustment-free injection valves.
- Cast iron block with internally stiffened deep skirt design.
- Field replaceable dry cylinder liners.
- Replaceable valve guides and seats.
- Large diameter, hardened chrome-molybdenum steel crankshaft.
- Three-ring controlled-expansion pistons lubricated from oil jets.
- Helical steel front gear train.
- Electric fuel priming pump and fuel/water separator are standard.
- Gear-driven oil pump located in oil pan.
- Gear-driven water pump.
- Direct electric 24V starting and charging system with two 12V 900 CCA Caterpillar maintenance free batteries and 80A alternator.
- Glow plug starting aid is standard for improved starting in extremely cold temperatures.

Sound

Operator Sound

The operator sound level measured according to the procedures specified in ISO 6396 is typically 74 dB(A), for cab offered by Caterpillar with doors and windows closed.

Exterior Sound

Labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 105 dB(A) for the standard European Union configuration and 103 dB(A) for the optional sound suppression attachment.

Steering

Steering Articulation	40°
Steering Angle, each direction	40°
Steering Cylinders, two, bore	63.5 mm
Hydraulic Output at 2300 engine rpm and 6900 kPa	57 L/min

- Fully hydraulic power steering features center-point frame articulation, front/rear wheel track and dedicated fixed displacement steering pump to provide flow at all engine and ground speeds.
- Adjustable steering column for operator comfort.
- High impact rubber steering stops.
- Optional secondary steering system available.

Loader Hydraulic System

	914G	IT14G
Output at 2300 engine rpm and 6900 kPa with SAE 10W oil at 65°	90 L/min	90 L/min
Hydraulic Cycle Time	10.9 sec	12.5 sec
Implement pump		
Pump Flow	90 L/min	90 L/min
Relief Pressure	245 bar	245 bar
Hydraulic Cycle Time	10.9 sec	12.5 sec
Raise	5.6 sec	6.9 sec
Dump	2.1 sec	2.5 sec
Seconds Lower, empty, float down	3.2 sec	3.1 sec
Total	10.9 sec	12.5 sec
Relief Valve Setting	245 bar	245 bar
Lift Cylinders, double acting	89 x 672 mm	85 x 795 mm
Tilt Cylinder, double acting	102 x 400 mm	76 x 805 mm

- Open centered system with low effort pilot operated hydraulic controls.
- Fixed displacement implement, gear-type pump is directly connected to engine output.
- Features pilot safety valve to disable implement functions and standard hydraulic oil cooler that tilts out for easy cleaning of heat exchangers and full flow filtering.
- Optional Ride Control system for smooth operation in rough roading conditions.

Transmission

	914G km/h	IT14G km/h
Standard Transmission Maximum Travel Speeds		
Forward 1 (turtle)	9	9
Forward 2 (rabbit)	35	32
Reverse 1 (turtle)	9	9
Reverse 2 (rabbit)	35	32

- Maximum travel speeds with 17.5-25 tires.
- Closed-loop hydrostatic system delivers high performance.
- Single-path, variable displacement pump (axial piston type) and two variable displacement motors (bent axis type) driving fixed ratio gear box on rear axle.
- Single lever control for precise, easy control for full power directional changes.
- Full power directional changes.
- HIGH/LOW speed switch for roading or working transmission modes. Full rimpull is available in either mode.
- Inching function allows momentary travel speeds as low as zero with full engine rpm.
- Optional creeper control allows variable function of travel speeds with full engine rpm.
- Optional remote transmission control adds a forward/neutral/reverse switch on the implement lever and directional indicators on the instrument cluster.

Final Drives

- Planetary final drives consist of ring gears pressed and doweled into axle housing and planetary carrier assemblies including planet gears with full-floating bronze sleeve bearings.
- High contact ratio gearset reduces noise levels during meshing.
- Planetary reduction gears are inboard mounted for optimal protection and durability.

Axles

Axle Oscillation	11°

- Fixed front, oscillating rear (±11 degrees).
- Caterpillar axle with fully-enclosed brakes and final drives.
- Patented Duo-Cone Seals between axle and housing.
- Rear wheel can raise or lower a total of 350 mm.
- Optional Limited Slip Differentials on front, rear or both axles. Conventional differentials are standard.
- Rear axle trunnion has remote lubrication fitting.

Brakes

- Service brake features completely closed and sealed standard inboard oil-immersed disc brakes on front and rear axles that are adjustment free.
- Dual pedal low-effort hydraulic braking system.
- Hydrostatic drive is variably neutralized during braking.
- Hydrostatic system provides additional hydraulic braking
- Parking brake is mechanical, shoe-type mounted on drive line for positive manual operation. The transmission on 914G is automatically neutralized when parking brake is applied.
- Meets ISO 3450 requirements.

Service Refill Capacities

	Liter
Fuel tank	150
Cooling system	23
Crankcase	7
Differentials and final drives	
Front	15
Rear	15
Hydraulic system (including tank)	100
Hydraulic tank	70

- Transfer Gearbox
  Standard speed version – 2.5 Liter
  High speed version – 4.0 Liter

Dimensions

	914G	IT14G
	mm	mm
Overall Height	3100	3100
Wheelbase	2600	2600
Width Over Tires	2260	2260
Bucket Width	2401	2401
Overall Length	6229	6424
Dump Clearance at Maximum Lift and 45° Dump	2659	2921
Bucket Clearance at Maximum Lift and Carry	973	787
Overall Height – Bucket Raised	4390	4802

Operating Specifications

	914G	IT14G
Maximum Operating Weight*	7950 kg	8450 kg
Breakout Force	62 kN	77 kN
Static Tipping Load/Full Turn	5323 kg	4792 kg
Reach Full Lift/45° Dump Angle	973 mm	787 mm
Dump Clearance Full Lift 45° Dump Angle	2659 mm	2921 mm
Articulation Angle	40°	40°
Bucket Capacity With Bolt-on Cutting Edge	1.3 m^3	1.3 m^3

* 914G with 1.4 m^3 bucket with bolt-on cutting edge and optional 150 kg counterweight.
IT14G with 1.4 m^3 bucket with bolt-on cutting edge and standard 150 kg counterweight.

Tires

Size	17.5-25
Tread Width	1800 mm
Choice of	Tubeless, nylon loader-design tires

ROPS/FOPS

ROPS meets ISO3471:1994 and
FOPS meets ISO3449:1992 Level II

Typical material densities-loose

	kg/m^3
Basalt	1960
Bauxite, Kaolin	1420
Clay	
natural bed	1660
dry	1480
wet	1660
Clay and gravel	
dry	1420
wet	1540
Decomposed rock	
75% rock, 25% earth	1960
50% rock, 50% earth	1720
25% rock, 75% earth	1570

	kg/m^3
Earth	
dry, packed	1510
wet, excavated	1600
Granite	
broken	1660
Gravel	
pitrun	1930
dry	1510
dry, 6-50 mm	1690
wet, 6-50 mm	2020
Gypsum	
broken	1810
crushed	1600
Limestone	
broken	1540
crushed	1540

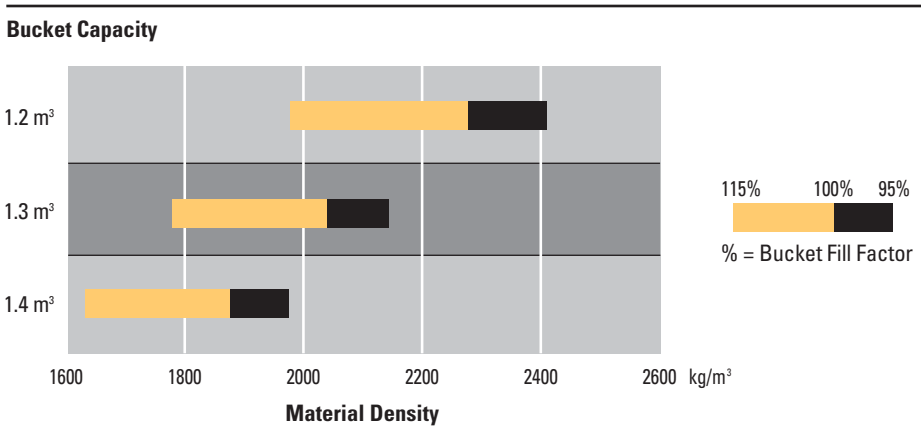
	kg/m^3
Sand	
dry, loose	1420
damp	1690
wet	1840
Sand and clay	
loose	1600
Sand and gravel	
dry	1720
wet	2020
Sandstone	1510
Shale	1250
Slag	
broken	1750
Stone	
crushed	1600

914G – Operating Specifications

		General Purpose Buckets						Penetration Buckets	
		With Bolt-On Cutting Edge		With Bolt-On Teeth, Segments		With Bolt-On Teeth		With Flush Mounted Teeth	
Rated bucket capacity	m^3	1.3	1.4	1.3	1.4	1.2	1.3	1.3	1.4
Struck capacity	m^3	1.1	1.2	1.1	1.2	1.0	1.1	1.1	1.2
Width	mm	2401	2401	2424	2424	2424	2424	2434	2434
Dump clearance at full lift and 45° discharge	mm	2659	2623	2667	2632	2715	2680	2680	2680
Reach at full lift and 45° discharge	mm	973	1008	964	1000	944	979	979	979
Reach at 45° discharge and 2130 mm clearance	mm	1331	1348	1282	1297	1259	1275	1287	1249
Reach with lift arms horizontal and bucket level	mm	1980	2030	1970	2020	1920	1970	1970	1970
Digging depth	mm	89	89	89	89	70	70	70	70
Overall length	mm	6229	6279	6328	6378	6310	6360	6358	6438
Overall height with bucket at full raise	mm	4390	4442	4390	4442	4390	4442	4442	4442
Loader clearance circle with bucket in carry position	m	10.34	10.37	10.42	10.45	10.42	10.45	10.44	10.49
Static tipping load straight*	kg	6098	6069	6059	6029	6169	6166	6183	6011
Static tipping load full 40° turn*	kg	5323	5295	5284	5256	5415	5387	5404	5232
Breakout force	kN	64	60	64	60	69	65	65	64
Operating weight*	kg	7378	7391	7409	7422	7336	7349	7336	7500

* Static tipping and operating weights shown are for high-speed version 914G and include lubricants, full fuel tank, ROPS cab, 80 kg operator and 17.5 - R25 (L2 equivalent) tires.

914G – Bucket Size Selector

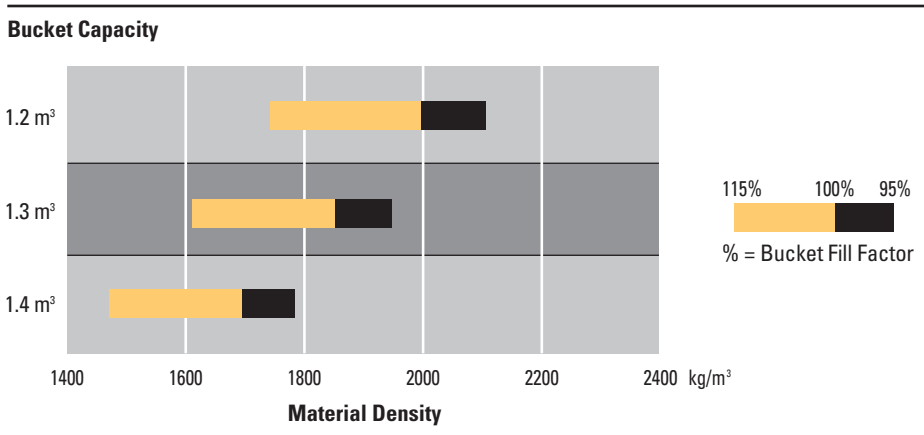


IT14G – Operating Specifications

		General Purpose Buckets						Penetration Buckets
		With Bolt-On Cutting Edge		With Bolt-On Teeth		With Bolt-On Teeth, Segments		With Flush Mounted Teeth
Rated bucket capacity	m^3	1.3	1.4	1.2	1.3	1.3	1.4	1.3
Struck capacity	m^3	1.1	1.2	1.0	1.1	1.1	1.2	1.1
Width	mm	2401	2401	2424	2424	2424	2424	2434
Dump clearance at full lift and 45° discharge	mm	2921	2886	2977	2942	2930	2895	2942
Reach at full lift and 45° discharge	mm	787	823	757	792	779	814	792
Reach at 45° discharge and 2130 mm clearance	mm	1426	1443	1351	1368	1375	1390	1380
Reach with lift arms horizontal and bucket level	mm	2151	2201	2090	2140	2139	2189	2140
Digging depth	mm	174	174	155	155	174	174	155
Overall length	mm	6424	6474	6506	6556	6524	6574	6554
Overall height with bucket at full raise	mm	4802	4855	4802	4855	4802	4855	4855
Loader clearance circle with bucket in carry position	m	10.40	10.42	10.47	10.50	10.47	10.50	10.49
Static tipping load straight*	kg	5541	5495	5637	5589	5503	5456	5605
Static tipping load full 40° turn*	kg	4792	4750	4882	4840	4754	4712	4855
Breakout force	kN	79	74	85	80	79	75	80
Operating weight*	kg	8032	8044	7990	8003	8063	8076	7990

* Static tipping and operating weights shown are for high-speed version IT14G and include lubricants, full fuel tank, ROPS cab, 80 kg operator, standard 250 kg counterweight and 17.5 - R25 (L2 equivalent) tires.

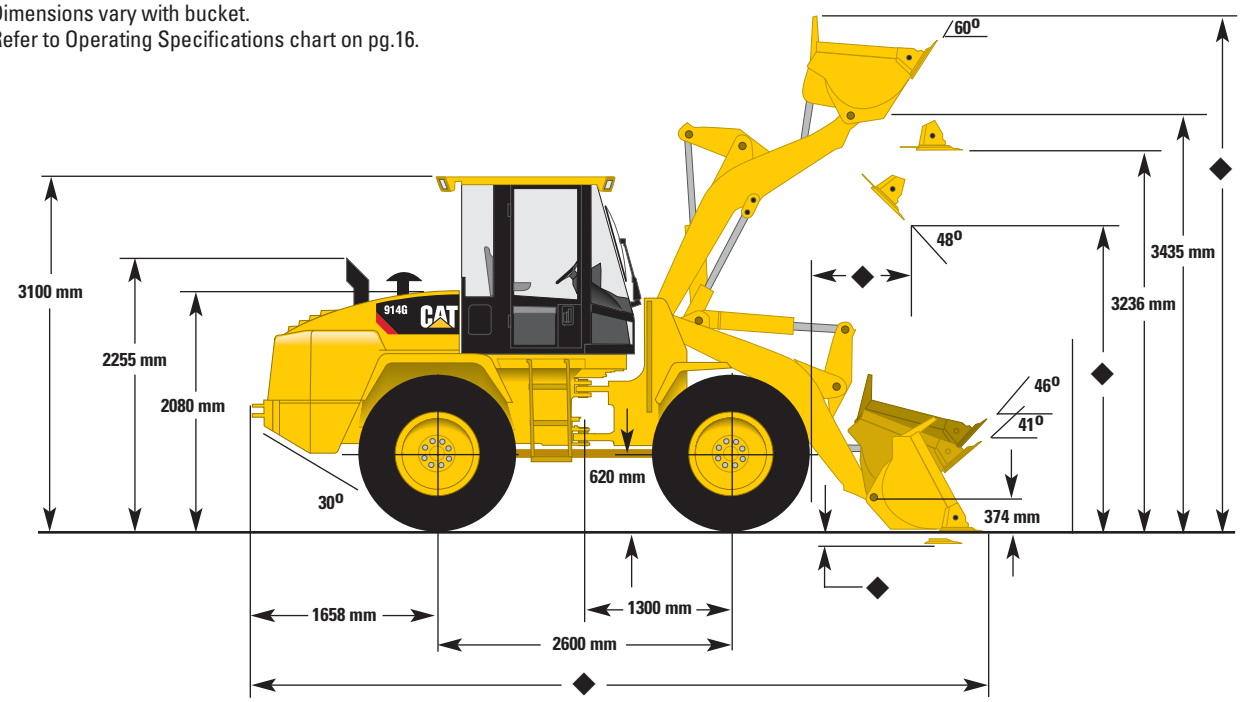
IT14G – Bucket Size Selector



914G – Dimensions with Bucket

All dimensions are approximate.

◆ Dimensions vary with bucket.
Refer to Operating Specifications chart on pg.16.



	Tread width	Width over tires	Ground clearance	Change in vertical dimensions
	mm	mm	mm	mm
15.5 - 25, 12 PR (L-2)	1800	2223	414	-42
17.5 - R25 (L-2 equivalent)	1800	2258	456	–

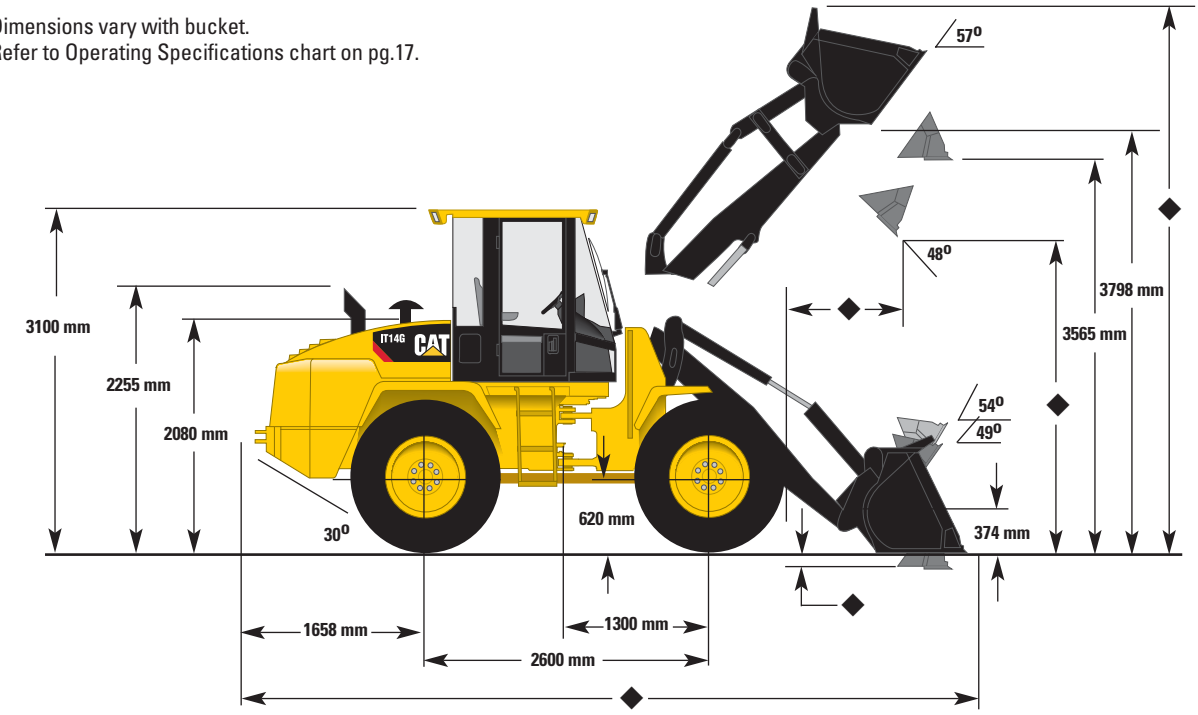
914G – Supplemental Specifications

	Change in Operating Weight	Change in Articulated Static Tipping Load
	kg	kg
Air conditioner	+55	+71
Canopy, ROPS (less cab)	-199	-174
Counterweight, 150 kg	+152	+287
Ride control	+32	+6
Secondary steering	+30	+44
Tires & rims, 15.5 - 25, 12 PR (L-2)	-159	-99
Tires & rims, 15.5 - 25, 12 PR (L-3)	-78	-48
Tires & rims, 15.5 - R25, radial (L-2 equivalent)	-84	-52
Tires & rims, 15.5 - R25, radial (L-3 equivalent)	-36	-23
Tires & rims, 17.5 - 25, 12 PR (L-2)	-126	-78
Tires & rims, 17.5 - 25, 12 PR (L-3)	+12	+7
Tires & rims, 17.5 - R25, radial (L-3 equivalent)	+156	+96
Tires & rims, 17.5 - R25, radial (L-2/L-3 equivalent)	+95	+58

IT14G – Dimensions with Bucket

All dimensions are approximate.

◆ Dimensions vary with bucket.
Refer to Operating Specifications chart on pg.17.



	Tread width	Width over tires	Ground clearance	Change in vertical dimensions
	mm	mm	mm	mm
15.5 - 25, 8 PR (L-2)	1800	2222	414	-42
17.5 - R25 (L-2 equivalent)	1800	2298	456	–

IT14G – Supplemental Specifications

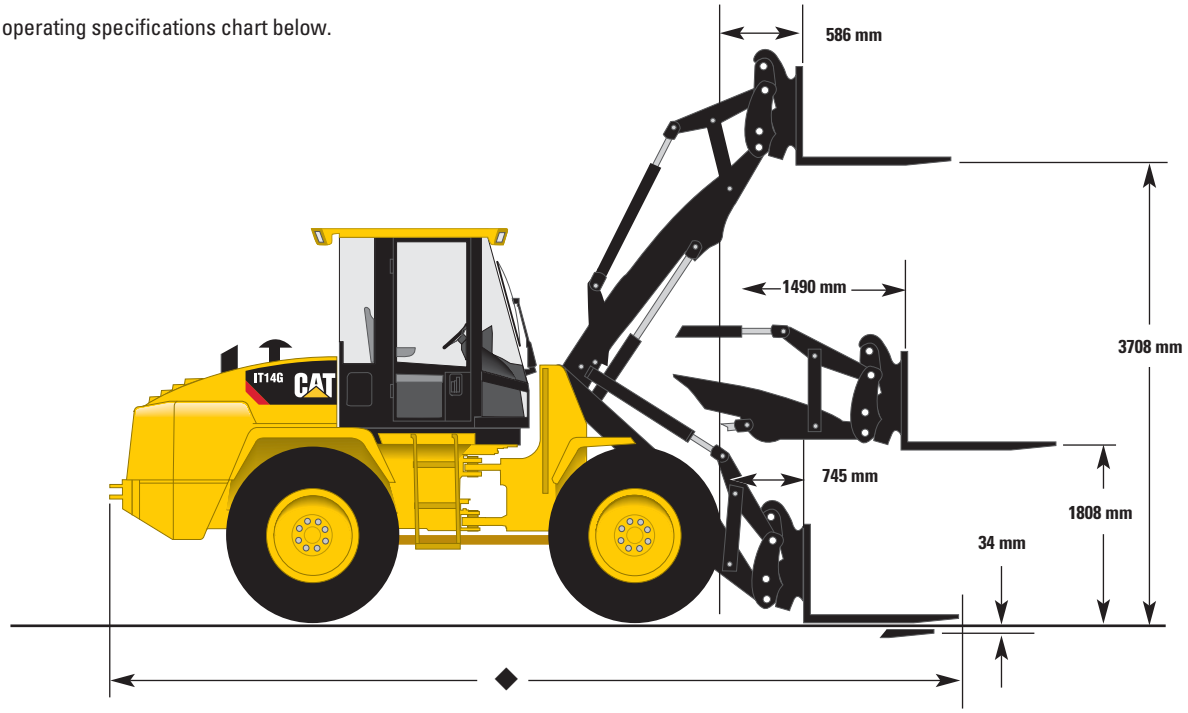
	Change in Operating Weight	Change in Articulated Static Tipping Load
	kg	kg
Air conditioner	+55	+62
Canopy, ROPS (less cab)	-122	-89
Ride control	+28	+5
Powertrain guard	+17	+15
Secondary steering	+30	+38
Tires & rims, 15.5 - 25, 12PR (L-2)	-140	-84
Tires & rims, 15.5 - 25, 12PR (L-3)	-76	-46
Tires & rims, 15.5 - 25, R25 (L-2 equivalent)	-84	-44
Tires & rims, 15.5 - 25, R25 (L-3 equivalent)	-4	-2
Tires & rims, 17.5 - 25, 12 PR (L-2)	-40	-21
Tires & rims, 17.5 - 25, 12 PR (L-3)	+32	+17
Tires & rims, 17.5 - 25, R25 (L-3 equivalent)	+100	+54
Tires & rims, 17.5 - 25, R25 (L-2/L-3 equivalent)	+76	+41

Static tipping load changes are for an IT14G with lubricants, full fuel tank, ROPS cab, 80 kg operator, standard 250 kg counterweight, 17.5 R25 L-2 equivalent tires and a 1.3 m^3 general purpose bucket with bolt-on cutting edge.

IT14G – Dimensions with Forks

All dimensions are approximate.

◆ Refer to operating specifications chart below.



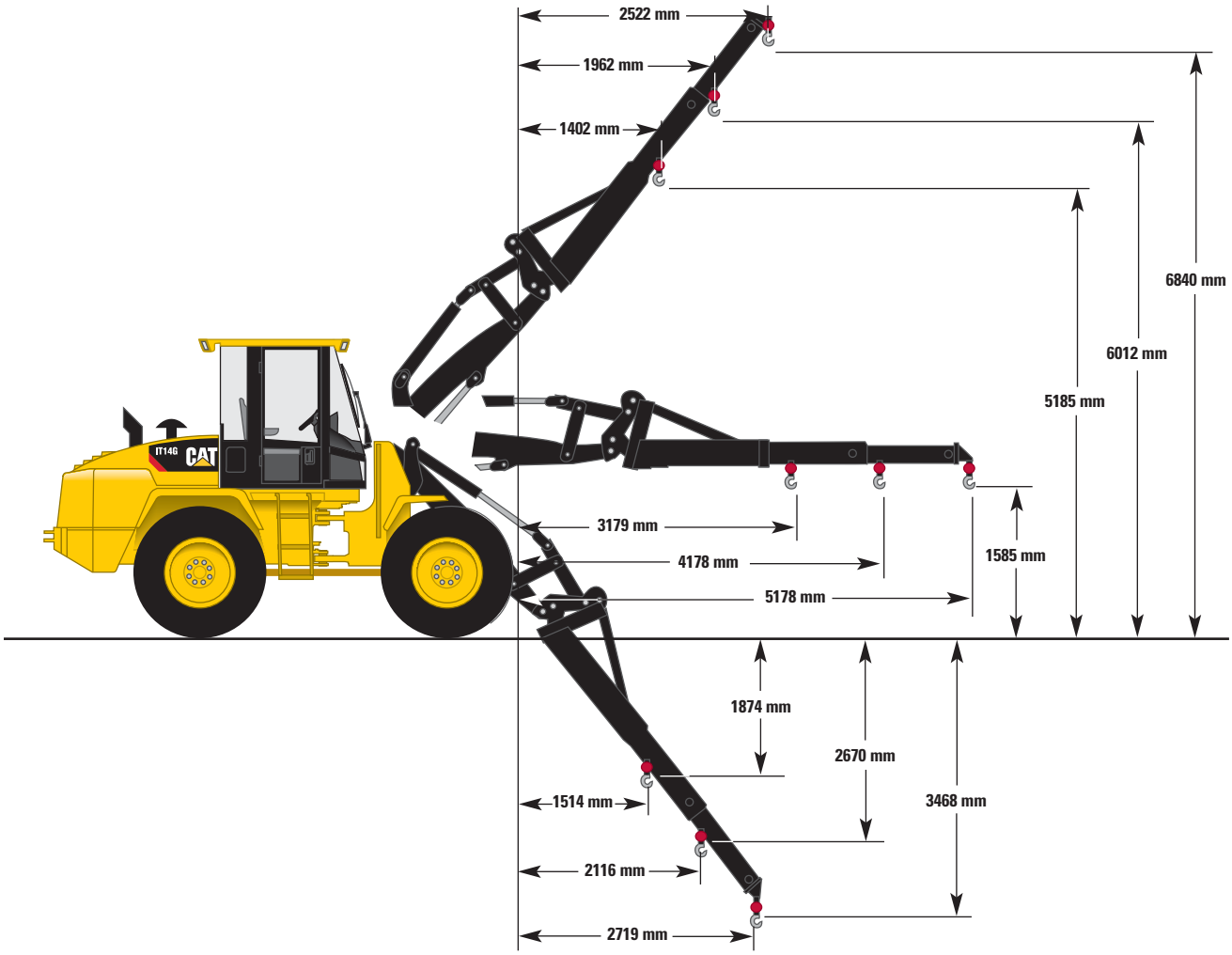
IT14G – Operating Specifications with Forks

Fork Tine Length	1050 mm	1200 mm	1350 mm
Operating load			
Per SAE J1197 FEB91 (50% of full turn static tipping load)	1927 kg	1870 kg	1810 kg
Per CEN 474-3, rough terrain (60% of full turn static tipping load)	2312 kg	2244 kg	2172 kg
Per CEN 474-3, firm and level ground (80% of full turn static tipping load)	3082 kg	2992 kg	2896 kg
Overall length	6723 mm	6873 mm	7023 mm
Load center	525 mm	600 mm	675 mm
Static tipping load with level arms and forks, 600 mm load center, straight*	4447 kg	4309 kg	4179 kg
Static tipping load with level arms and forks, 600 mm load center, full 40° turn*	3853 kg	3734 kg	3620 kg
Operating weight*	7898 kg	7915 kg	7928 kg

* Static tipping and operating weights shown are for an IT14G with lubricants, full fuel tank, ROPS cab, 80 kg operator, standard 250 kg counterweight and 17.5 R25 (L2 equivalent) tires.

IT14G – Dimensions with Material Handling Arm

All dimensions are approximate.



IT14G – Operating Specifications with Material Handling Arm

Material Handling Arm Position	Retracted	Mid-Position	Extended
Operating load at 40° full turn	1370 kg	1076 kg	888 kg
Static tipping load, straight*	3158 kg	2484 kg	2051 kg
Static tipping load, full 40° full turn*	2740 kg	2153 kg	1777 kg
Operating weight*	7770 kg	7770 kg	7770 kg

* Static tipping and operating weights shown include lubricants, full fuel tank, ROPS cab, 80 kg operator, standard 250 kg counterweight and 17.5 - R25 (L2 equivalent) tires.

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

Standard Equipment

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

- 24V direct electric starting
- Air cleaner, radial seal
- Alarm, back-up
- Alternator, 80-ampere
- Antifreeze (protected to –36° C)
  - Extended life coolant antifreeze
- Batteries, two 900 CCA maintenance free
- Battery disconnect switch
- Brakes
  - Enclosed/sealed
  - Parking – mechanical on drive line, secondary
  - Service – inboard, oil-immersed, enclosed, wet-disc full hydraulic
- Bucket control, single lever, pilot
- Bucket/fork positioner, automatic
- Cab, ROPS (sound suppressed and pressurized)
  - Adjustable steering column
  - Cigar lighter
  - Cup holder
  - Ground level door release
  - Heater/defroster
  - Rearview mirrors, inside (2)
  - Storage space, lockable
  - Seat, adjustable fabric suspension
  - Seat belt, 75 mm, retractable
  - Tinted front safety glass
  - Two doors, fixed glass
  - Wiper and washer (front and rear), front intermittent
- Counterweight (150 kg); standard on IT14G only
- Defroster, rear window, wired glass
- Differentials, conventional (front and rear)
- Driveshaft; lubed for life
- Electric fuel pump
- Engine: Caterpillar 3054C DIT diesel
  - Low emission
  - Turbocharged
- Engine enclosure, lockable
- Fenders (front/rear)
- Glow plug starting aid
- Hitch, drawbar
- Horn, front, warning (electrical)
- Hydraulic control, pilot-operated, single lever, 2 valve
  - Third function hydraulics, standard on IT14G only
  - Pilot control detents
    - Float
    - Rackback
    - Raise
- Hydraulic oil cooler, tiltable
- Hydraulic diagnostic connectors
- Ignition key start/stop switch
- Indicators
  - Air cleaner
  - Air filter
  - Brake charge pressure
  - Engine oil pressure
  - Electrical system voltage
  - Hystat oil filter bypass
  - Parking brake
  - Primary steering
- Instrumentation
  - Battery voltage gauge
  - Engine coolant temperature gauge
  - Fuel level gauge
  - Hour meter, digital
  - Hydraulic oil level sight gauge
  - Hydraulic oil temperature gauge
- Lift kickout, automatic
- Lift/tilt kickout neutralizer
- Lighting system
  - Brake lights
  - Interior light
  - Turn signals (front and rear)
  - Working lights, halogen (front and rear)
- Linkage
  - Sealed Z-bar design loader linkage (914G only)
  - 8 bar parallel lift linkage with sealed pins (IT14G only)
- Muffler
- Pilot hydraulic implement controls
- Power receptacles; internal and external
- Pressure test points
- Radiator, serviceable unit core
- Radiator expansion bottle
- Single lever transmission control
- S•O•S ports
  - Engine oil
  - Hydraulic oil
- Hydraulic oil cooler
- Steering, hydraulic
- Suction fan
- Transmission, hydrostatic
- Vandalism protection-locked service points

Optional Equipment

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

Air Conditioner, R-134a refrigerant
Bottom guard, hystat
Canopy, ROPS
Counterweight, 150 kg (optional 914G only)
Creeper Control, transmission
Differential, Limited Slip (front and/or rear axle)
Drain valves, ecological
Engine Speed Control (ESC)
Electrical accessories package
  (12V converter, accessory plug outlet, wiring)
Fenders, roading
Forward/Neutral/Reverse (FNR) remote transmission control
Guard, windshield (optional 914G only)
Ground engaging tools, bucket
Hydraulic third and fourth valves
  (Hydraulic third valve standard on IT14G)
  - quick disconnects
  - hydraulic lines and control
Lighting
  Auxiliary front: 2 cab-mounted halogen, working
Machine Security System
  Includes 2 preprogrammed keys, additional keys are available through parts distribution (206-5162)
  Requires Caterpillar Service Tool, Electronic Technician (ET) to activate and modify programming of keys
Mirrors
  External (2)
Quick Coupler (standard on IT14G)
Radio prep package (12V)
  - includes speakers, antenna, converter and mounts (Radio not included)
Remote Forward/Neutral/Reverse transmission control
Ride Control system
Rotating beacon, magnetic
Seats:
  - heated, fabric, with parking brake alarm
  - Caterpillar Comfort Series, fabric, air suspension
Sliding door window
Speedometer
Starting aid
  Engine block heater (120V or 240V)
Steering, secondary
Sun screen, rear window
Sun visor
Tires:
  - bias ply, 15.5 x 25 and 17.5 x 25
  - radial, 15.5 x R25 and 17.5 x R25
Tire rims, 1- and 3-piece
Tool box, lockable
Tool kit

914G Wheel Loader
IT14G Integrated Toolcarrier

HEHL3082-1 (10/2007) hr

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