

1.2 - 1.4 m²	1.6 - 1.8 yd°	
7906 kg	17,393 lb	
	- 1	
73 kW	98 HP	
67 kW	90 HP	
	7906 kg 73 kW	7906 kg 17,393 lb 73 kW 98 HP

Operator Station

Ergonomical design emphasizes comfort, visibility and easy operation.



Operator Comfort. The G-Series cab design employed a powerful supercomputer using virtual reality to simulate the ideal operator environment. The result is remarkable peripheral visibility coupled with operators' most requested features. The IT14G cab is a spacious work environment that promotes productive operation. Exceptional sound insulation and use of low-noise components make the Cat IT14G cab one of the quietest in the industry.

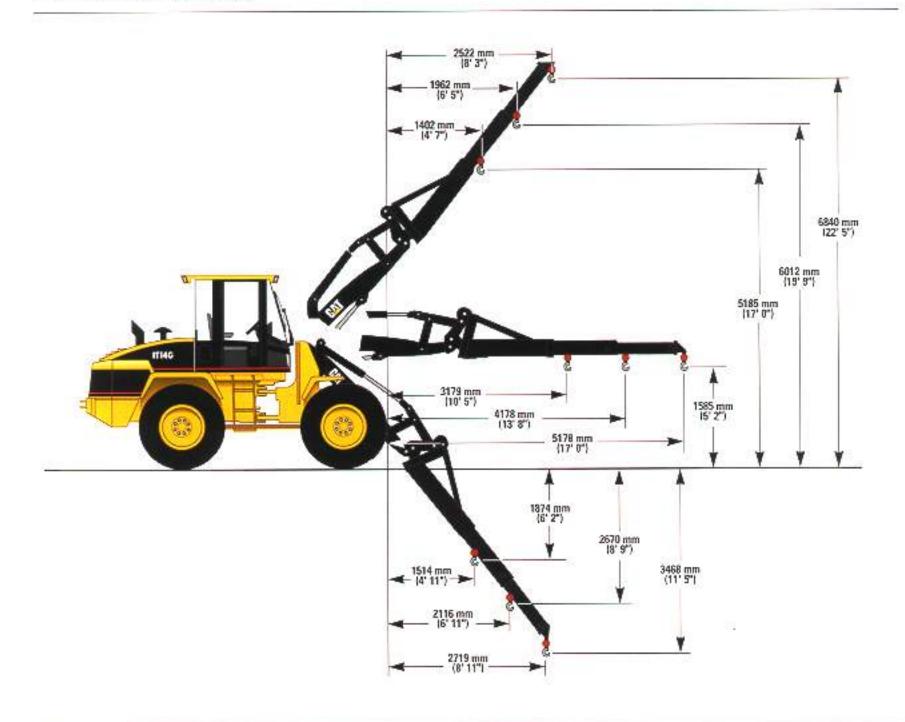
Operators can customize the cab to their individual needs through the vast range of adjustments. The seat, tilt steering console and climate controls are a few of the many areas of adjustments that make the IT14G the new leader in operator preference.



- 1 Tilt Steering Console
- 2 Warning Indicators and Light Controls
- 3 Multi-Port Ventilation
- Windshield Wiper Controls and Status Indicators
- 5 Implement Controls
- 6 "Creeper" Variable Speed Control (Optional)

Dimensions with Material Handling Arm

All dimensions are approximate.



Operating Specifications with Material Handling Arm

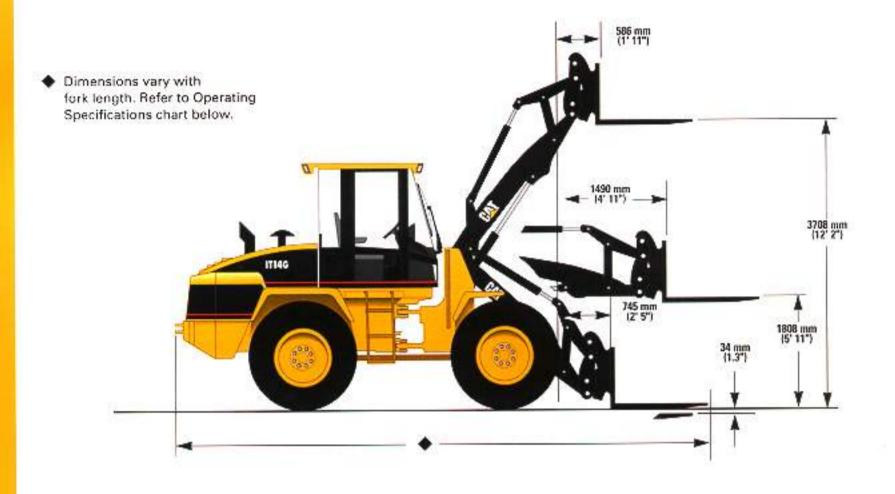
Material Handling Arm Position	Retracted	Mid-Position	Extended
Operating load at 400 full turn	1292 kg (2842 lb)	1015 kg (2233 lb)	837 kg (1841 lb)
Static tipping load, straight*	2981 kg (6558 lb)	2345 kg (5159 lb)	1936 kg (4259 lb)
Static tipping load, full 400 full turn*	2585 kg (5678 lb)	2031 kg (4486 lb)	1675 kg (3685 lb)
Operating weight*	7600 kg (16,720 lb)	7600 kg (16.720 lb)	7600 kg (16,720 lb)

Static tipping and operating weights shown include lubricants, full fuel tank, ROPS cab.
80 kg (176 lb) operator, standard 250 kg (550 lb) counterweight and 17.5 - R25 (L2 equivalent) tires.

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

Dimensions with Forks

All dimensions are approximate.



Operating Specifications with Forks

Fork Tine Length	1050 mm (3' 5")	1200 mm (3' 11")	1350 mm (4′ 5″)
Operating load:			
Per SAE J1197 FEB91	1050 1 (4070 11)	1901 1 - 72040 113	1735 La (2017 III)
(50% of full turn static tipping load)	1850 kg (4070 lb)	1791 kg (3940 lb)	1735 kg (3817 lb)
Per CEN 474-3, rough terrain (60% of full turn static tipping load)	2220 kg (4884 lb)	2149 kg (4728 lb)	2082 kg (4580 lb)
Per CEN 474-3, firm & level ground	2220 kg (4664 lb)	2147 Kg (472010)	2002 18 (1500 10)
(80% of full turn static tipping load)	2960 kg (6512 lb)	2865 kg (6303 lb)	2776 kg (6107 lb)
Overall length	6723 mm (22° 1")	6873 mm (22' 7")	7023 mm (23' 1")
Load center	525 mm (21")	600 mm (24")	675 mm (27")
Static tipping load with level arms and forks,	101.004.000.000.004.04.004.004.000		
600 mm (23.6") load center, straight*	4267 kg (9,387 lb)	4133 kg (9,093 lb)	4008 kg (8,818 lb)
Static tipping load with level arms and forks,	Scotting to other process of the state of		
600 mm (23.6") load center, full 400 turn*	3700 kg (8,140 lb)	3582 kg (7,880 lb)	3471 kg (7,636 lb)
Operating weight*	7715 kg (16,973 lb)	7732 kg (17,010 lb)	7745 kg (17,039 lb)

Static tipping and operating weights shown are for an IT14G with lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator, standard 250 kg (550 lb) counterweight and 17.5 R25 (L2 equivalent) tires.

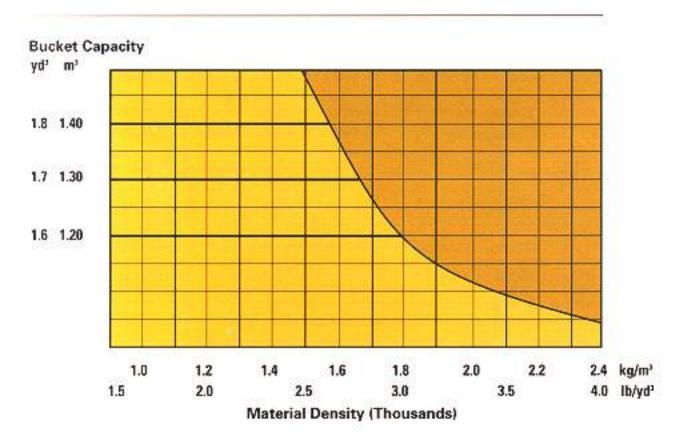
Tipping load is defined by SAE J732 JUN92.

Typical material densities-loose

	kg/m³	lb/yd ³
Basalt	1960	3305
Bauxite. Kaolin	1420	2394
Clay		
natural bed	1660	2799
dry	1480	2495
wet	1660	2799
Clay and gravel		
dry	1420	2394
wet	1540	2596
Decomposed rock		
75% rock, 25% earth	1960	3305
50% rock, 50% earth	1720	2900
25% rock, 75% earth	1570	2647
Earth		
dry, packed	1510	2546
wet, excavated	1600	2698
Granite		
broken	1660	2799
Gravel		
pitrun	1930	3254
dry	1510	2546
dry, 6-50 mm (.2-2")	1690	2849
wet, 6-50 mm (.2-2")	2020	3406

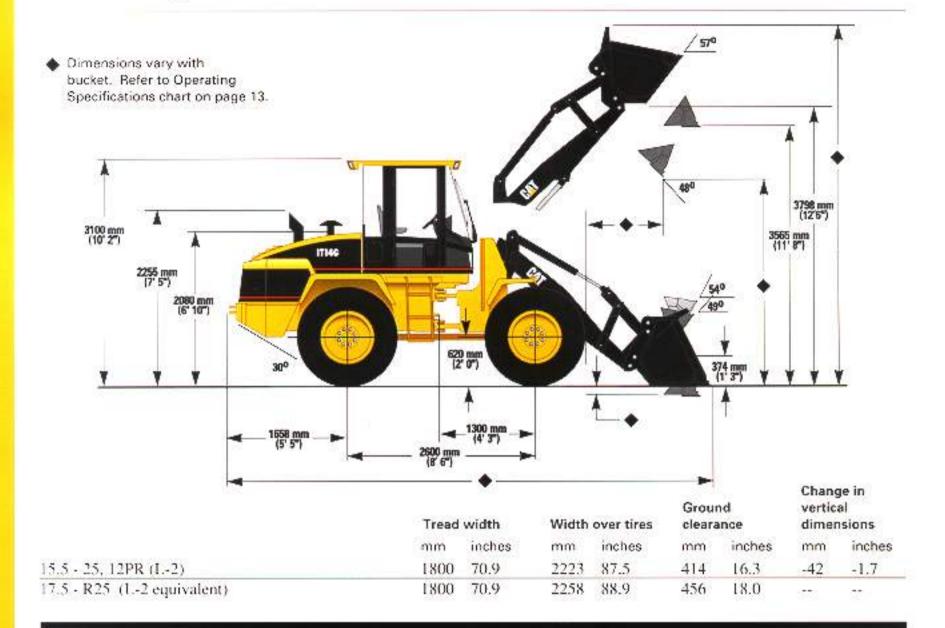
	kg/m³	lb/yd²
Gypsum		
broken	1810	3052
crushed	1600	2698
Limestone		
broken	1540	2596
crushed	1540	2596
Sand		
dry, loose	1420	2394
damp	1690	2849
wet	1840	3102
Sand and clay		
loose	1600	2698
Sand and gravel		
dry	1720	2900
wet	2020	3416
Sandstone	1510	2546
Shale	1250	2107
Slag		
broken	1750	2950
Stone		
crushed	1600	2698

Bucket Size Selector



Dimensions with Bucket

All dimensions are approximate.



Supplemental Specifications

	Change in Operating Weight		Change in Articulater Static Tipping Load	
	kg	lb	kg	lb
Air conditioner	+55	+121	+61	+134
Canopy, ROPS (less cab)	-199	-438	-150	-330
Ride control	+28	+62	+5	+11
Powertrain guard	+18	+40	+15	+33
Standard speed version	-70	-154	-63	-138
Secondary steering	+31	+68	+38	+84
Tires & rims, 15.5 - 25, 12PR (L-2)	-159	-350	-85	-187
Tires & rims, 15.5 - 25, 12PR (L-3)	-78	-172	-42	-92
Tires & rims, 15.5 - 25, R25 (L-2 equivalent)	-84	-185	-45	-99
Tires & rims, 15.5 - 25, R25 (L-3 equivalent)	-36	-79	-19	-42
Tires & rims, 17.5 - 25, 12 PR (L-2)	-126	-277	-68	-150
Tires & rims, 17.5 - 25, 12 PR (L-3)	+12	+26	+6	+13
Tires & rims, 17.5 - 25, R25 (L-3 equivalent)	+156	+343	+83	+183
Tires & rims, 17.5 - 25, R25 (L-2/L-3 equivalent)	+95	+209	+50	+110

Static tipping load changes are for an IT14G with lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator, standard 250 kg (550 lb) counterweight, 17.5 R25 L-2 equivalent tires and a 1.3 cu.m (1.7 cu.yd.) general purpose bucket with bolt-on cutting edge.

Operating Specifications

Rated bucket capacity (§)	m'
38 (8.3)	yd'
Struck capacity (§)	m
546 S64, C1 C	yd
Width	mm
	ft/in
Dump clearance at full	mm
lift and 45° discharge (§)	ft/in
Reach at full lift	mm
and 45" discharge (§)	ft/in
Reach at 45° discharge and	mm
21.30 mm (7° 0") clearance (§)	ft/in
Reach with lift arms	mm
horizontal and bucket level	ft/in
Digging depth (§)	mm
	in
Overall length	mm
	ft/in
Overall height with bucket	mm
at full raise (§)	ft/in
Loader clearance circle with	M
bucket in carry position	ft/in
Static tipping load straight* (§)	kg
	1b
Static tipping load	kg
full 40° tum* (§)	lb
Breakout force (§)	kg
	lb
Operating weight*	kg
	Ib

Genera Purpos	l e Buckets								Penetra Buckets	
With Bolt-On Cutting Edge			With Bolt-On Teeth			With Bolt-On Teeth, Segments		With Fl Mounte		
Couple Mounte		Pin On	Couplet		Pin On	Couple: Mounte		Pin On	Coupler Mtd.	Pin On
1.3	1.4	1.4	1.2	1.3	1.3	1.3	1.4	1.4	1.3	1.3
1.7	1.8	1.8	1.6	1.7	1.7	1.7	1.8	1.8	1.7	1.7
1.1	1.2	1.2	1.0	1.1	1.1	1.1	1.2	1.2	1.1	1.1
1.4	1.5	1.5		1.5	1.5	1.4	1.5	1.5	1.5	1.5
2401	2401	2401	2424	2424	2424	2424	2424	2424	2434	2434
7110.51	7'10.5"	7'10.5"	711.4"	711.4"	711.4"	711.4"	7`11.4"	711,41	711.8"	711.8
2920	2885	2905	2975	2940	2961	2927	2892	2913	2940	2961
91.71	9161	916"	9° 9"	9'.8"	9191	-917"	91.611	917"	918"	9191
787	823	801	757	792	771	780	816	794	792	771
21 7"	2' 8"	2' 8"	2' 6"	2'.7"	216"	2° 7"	2° 8"	2' 7''	2' 7''	2' 6"
1425	1442	1431	1351	1368	1358	1375	1390	1381	1380	1371
41.81	41.91	4' 8"	4' 5"	4' 6"	4' 6"	4' 6"	41.7"	4' 6"	4' 6"	4' 6"
2150	2200	2170	2090	2140	2110	2140	2191	2161	2140	2110
7' 1"	7' 3"	7' 2"	6' 10"	7' 0"	6' 11"	7°0"	7° 2"	7' 1"	7' 0"	6' 11"
175	175	175	156	156	156	175	175	175	156	156
6.9"	6.9"	6.9**	6.1"	6.1"	6.1"	6.9"	6.9"	6.9°	6.1"	6.1
6424	6474	6444	6506	6556	6526	6524	6574	6544	6554	6524
21' 1"	21° 3"	21' 2"	2114"	2116"	21' 5"	21`5"	21' 7"	21' 6"	21' 6"	21° 5"
4801	4854	4833	4801	4854	4833	4801	4854	4833	4854	4833
15' 9"	15' 11"	15' 10"	15' 9"	15` 11"	15` 10``	15` 9''	15' 11"	15' 10"	15' 11"	15' 10'
10.40	10.42	10.41	10.47	10.50	10.48	10.47	10.50	10.48	10.49	10.47
34' 1"	34' 2"	34' 2"	34° 4"	341.511	34° 5"	34' 4"	34' 5"	34' 5"	34' 5"	34' 4"
5307	5261	5126	5400	5354	5219	5268	5223	5088	5370	5235
11 675	11 574	11 277	11 880	11 779	11 482	11 590	11 491	11 194	11 814	11 517
4588	4546	4452	4675	4633	4539	4549	4508	4414	4649	4555
10 094	10 001	9794	10 285	10 193	9986	10 008	9918	9711	10 228	10 021
7850	7419	7701	8438	7949	8267	7904	7464	7752	7962	8280
17 270	16 322	16 942	18 564	17 488	18 187	17 389	16 421	17 054	17 516	18 216
7861	7874	7555	7819	7832	7513	7893	7906	7586	7820	7500
17 294	17 323	16 621	17 202	17 230	16 529	17 365	17 393	16 689	17 204	16 500

Static tipping and operating weights shown are for high-speed version IT14G and include lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator, standard 250 kg (550 lb) counterweight and 17.5 - R25 (L2 equivalent) tires.

Note: Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers (SAE). SAE Standards J732 JUN92 and J742 FEB85 govern loader rating, denoted in the text by (§).

Cab

Caterpillar cab and Rollover Protective Structure (ROPS) are standard in North America and Europe,

Features

- ROPS meets the following criteria: SAE J394.
 SAE J1040 APR88.
 ISO 3471-1980.
- also meets the following criteria for Falling Objects Protective Structure: SAE J231 JAN81. ISO 3449-1984.

Note

When properly installed and maintained, the cab offered by Caterpillar when tested with doors and windows closed according to ANSI/SAE J1166 MAY90, meets OSHA, MSHA and EEC Occupational Noise Exposure Criteria requirements for operator sound exposure limits in effect at time of manufacture. When tested as per 86/662/EEC and ISO 6394 with a closed cab configuration, theater/defroster fan in the maximum speed position), the operator sound pressure level is below 73 dB(A).

Tires

Tubeless, nylon, loader design tires.

Choice of

- 15.5 25, 12PR (L-2).
- 15.5 25, 12PR (L-3).
- 15.5 R25, radial (L-2 equivalent).
- 15.5 R25, radial (L-3 equivalent).
- 17.5 25, 12 PR (L-2).
- 17.5 25. 12 PR (L-3).
- 17.5 R25, radial (L-2 equivalent).
- 17.5 R25, radial (L-3 equivalent).
- 17.5 R25, radial (L-2/L-3 equivalent).

Note

In certain applications (such as load-andcarry work) the loader's productive capabilities might exceed the tires' tonnes-km/h (ton-MPH) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model.

Steering

Full hydraulic power steering, Meets ISO 5010-1992, SAE J1511-OCT90.

Ratings

Minimum turning radius

(over tire) 4748 mm (15° 7")

Steering angle, each direction 40°

Steering cylinders, two

bore 63.5 mm (2.5 in.)

Hydraulic output at 2200 RPM and 6900 kPa (1000 psi)

57 liters/min (15.1 gpm)

Relief valve setting

21 400 kPa (3100 psi)

Features

- center-point frame articulation.
- front and rear wheels track.
- dedicated fixed displacement steering pump provides flow at all engine and ground speeds.
- adjustable steering column.
- high-impact rubber steering stops.
- secondary steering system available to meet roading regulations in various countries, and to meet ISO 5010.

Attachment Controls

Pilot-operated lift and tilt circuits.

Lift circuit features

- four positions: raise, hold, lower and float;
- can adjust automatic kickout from horizontal to full lift.

Tilt circuit features

- three positions: tilt back, hold and dump.
- can adjust automatic bucket/attachment positioner to desired loading angle.
- · does not require visual spotting.
- two-position selector for return-towork angle with bucket or forks.

Controls

- low effort single-lever control of lift and tilt circuits.
- standard third valve with individual lever control operates quick coupler.
- third and fourth function hydraulic circuits available for use with special attachments.
- controls can be locked for roading.

Service Refill Capacities

		Canona	
Fuel tank	150	39.6	
Cooling system	22.7	6	
Crankcase	7	1.8	
Transfer Gearbox:			
std. speed version	2.5	.7	
high speed version	4.0	1.1	
Differentials and final	drives		
front	15	4	
rear	15	4	
Hydraulic system			
(including tank)	100	26.4	
Hydraulic tank	70	18.5	

Engine Enclosure Hood

One-piece engine enclosure hood.

Provides open access to many service points. The hood is manufactured with a state-of-the-art material, Dicyclopentadiene (DCPD), which provides an excellent combination of impact resistance and durability.

The curved design of the engine enclosure provides unparalleled rear visibility as well as modern styling to the machine appearance.

Features

- impact resistant, rustproof.
- lockable latch.
- modern, stylish appearance.
- pneumatically-assisted struts.
- repairable.

Axles

Fixed front, oscillating rear (±11°).

Features

- Caterpillar axle with fully-enclosed brakes and final drives.
- Patented Duo-Cone Seals between axle and housing.
- rear wheel can raise or drop a total of 350 mm (13.8 in.).
- conventional differentials standard.
- Limited Slip differentials are optional on front, rear or both axles.
- rear axle trunnion has remote lubrication fitting.

Brakes

Meets the following standards: OSHA, SAE J1473 OCT 90, ISO 3450-1985.

Service brake features

- inboard-mounted oil-immersed disc brakes.
- completely enclosed and scaled.
- adjustment-free.
- front and rear axle brakes on high speed version.
- front axle brakes on standard speed version.
- dual pedal braking system.
- transmission is automatically neutralized during braking.
- hydrostatic system provides additional hydraulic braking capacity.

Parking brake features

- mechanical, shoe-type brake.
- mounted on drive line for positive manual operation.

Final Drives

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

Features

- ring gears are pressed in and doweled into axle housing.
- carrier assemblies include 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.

Loader Hydraulic System

Open-centered system. Pilot-operated hydraulic implement controls.

Output at 2200 RPM and		
6900 kPa (1000 psi)	00 H 1 1 1	22.0
with SAE 10W oil at 66°C (150°F)	90 liters/min	23.8 gpm
Relief valve setting	24 100 kPa	3,500 psi
Lift cylinders, double acting:	9880 MARCH	
bore and stroke	89 x 795 mm	3.5 x 31.3"
Tilt cylinder, double acting:	Attle Destal	
bore and stroke	76 x 805 mm	3.0 x 31.7"

Hydraulic cycle time	Seconds
Raise	6.9
Dump	2.5
Lower, empty, float down	3.1

Features

- fixed displacement implement pump (gear type) directly connected to engine output.
- low effort, pilot-operated controls.
- pilot shutoff valve disables implement functions for added safety.
- · full-flow filtering.
- hydraulic couplings with O-Ring Face Seals.
- standard hydraulic oil cooler tilts out for easy cleaning of heat exchangers.
- Ride Control system available to reduce machine bounce when traveling.

Engine

Caterpillar four-stroke cycle, four cylinder 3054 turbocharged diesel engine.

Ratings at 2200 RPM	kW	HP
Gross power	73	98
Net power	67	90

The following ratings apply at 2200 rpm when tested under the specified standard conditions for the specified standard:

NET POWER	kW	HP	PS
Caterpillar	67	90	
ISO 9249	67	90	
EEC 80/1269	67	90	
SAE J1349	66	89	
DIN 70020	55	935)	93

Dimensions

Bore	100 mm	3.94 in.
Stroke	127 mm	5.00 in.
Displacement	4.0 liters	244 cu in.

Exhaust Emissions

The Caterpillar 3054T meets the current European and North American emission regulations, as well as the future proposed EU/EPA Off-Highway Construction Equipment regulations (ISO 8178).

Power rating conditions

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32" Hg) dry barometer.
- used 35° API gravity fuel having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/gal)].
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- no derating required up to 2286 m (7,500 ft) altitude.

Features

- 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 chromemolybdenum steel crankshaft.
- three-ring controlled-expansion pistons lubricated from oil jets.
- · helical steel front gear train.
- fuel priming pump and fuel/water separator are standard.
- gear-driven oil pump located in oil pan.
- gear-driven water pump.
- direct electric 24-volt starting and charging system with two 12-volt 750 CCA Caterpillar batteries and 60-amp alternator.
- thermal starting aid is standard for improved starting in extremely cold temperatures.

Transmission

Closed-loop hydrostatic system delivers high performance and broad range of power output.

Standard version:

single-path, variable displacement pump (axial piston type) and single, variable displacement motor (bent axis type) driving fixed ratio gear box on rear axle.

Max travel speeds with 17.5-25 tires:

	100	km/h	MPH
Forward	Low	7	4.3
	High	20	12,4
Reverse	Low	7	4.3
	High	20	12.4

High-speed version:

single-path, variable-displacement pump (axial piston type) and two variable displacement motors (bent axis type) driving fixed ratio gear box on rear axle.

Max travel speeds with 17.5-25 tires:

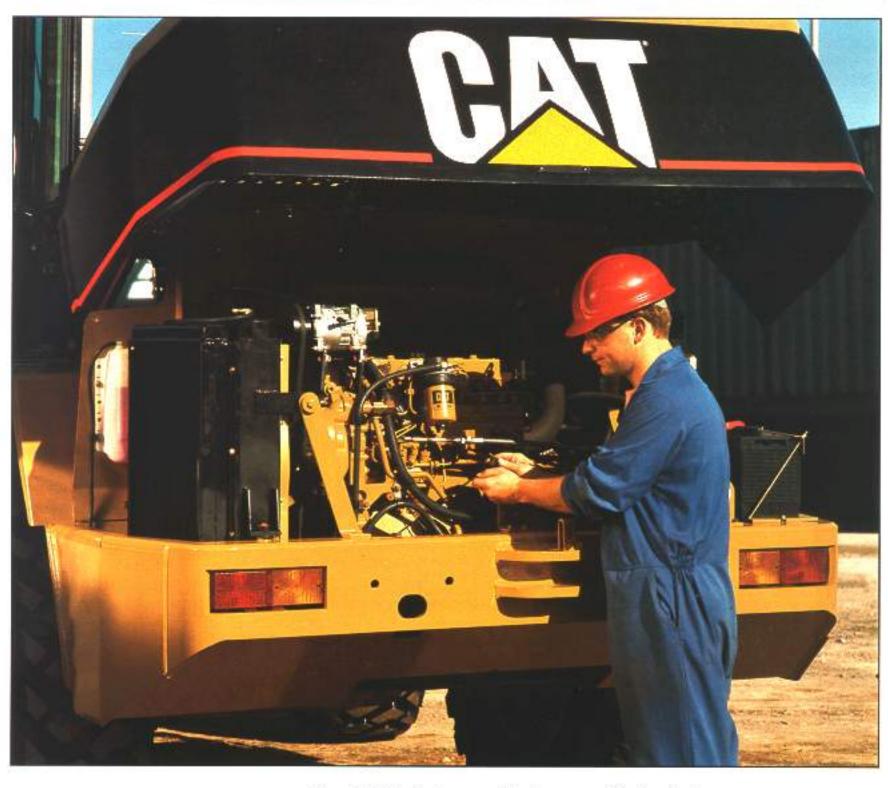
		km/h	MPH
Forward	Low	9	5.6
	High	32	19.9
Reverse	Low	9	5.6
	High	32	19.9

Features

- standard version [up to 20 km/h (12.4 mph)] or high speed version [up to 32 km/h (19.9 mph)] available.
- single lever control for easy and precise control of direction 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 function allows variable control of travel speeds (zero to 9 kph/5.6 mph) with full engine rpm.

Serviceability

More access and fewer maintenance requirements add up to unparalleled ease of service.



Quick Access. A tilt-up engine enclosure hood with dual pneumatically-assisted lift cylinders provides exceptional access to major power train components. All filters and service points are reachable from ground level for quick, easy periodic maintenance.

Simplified Service is part of the Cat IT14G Integrated Toolcarrier design. This machine is not only easy to operate ... it is easy to maintain.

Service features:

- Air cleaner service indicator;
- Battery access (engine hood);
- · Ecology drain valves available;
- Electrical fuse access (right door);
- · Ground level filter changes;
- · Remote grease fittings;
- Tilt-out hydraulic oil cooler (cleaning);
- Visual fluid level checks (hydraulic oil, coolant, brake oil, windshield wiper fluid);
- And more ...

Quick Coupler and Attachments

For applications limited only by your imagination.

The Quick Coupler is an integral part of the Caterpillar Integrated Toolcarrier, Tool changes are quick and easy, most under 30 seconds. A lever in the operator compartment activates a hydraulic cylinder for positive tool retention or disengagement.

A wide selection of tools are available from Caterpillar Special Attachments Division and many third-party manufacturers.

8-Bar Parallel Design Inkage 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. Superior load control is provided by more tilt capacity than lift in almost all positions.

High Dump Height requirements are addressed with the new IT14G linkage. For applications not requiring tool changes, the IT14G is now also available with pin-on buckets and two-valve hydraulics.











Caterpillar® Hystat Power Train

The Cat hydrostatic power train provides dependable and smooth operation.

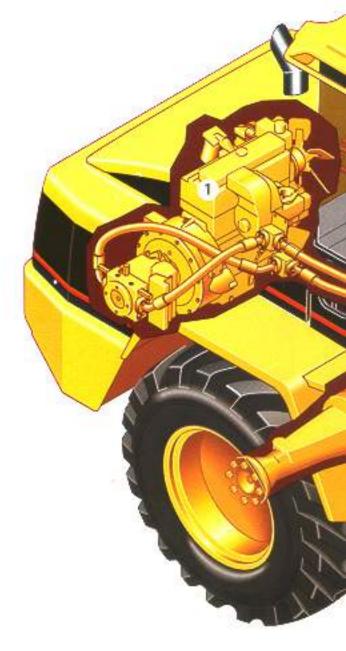
The IT14G Hystat Power Train features a high-pressure closed-loop hydrostatic transmission. This transmission provides a broader range of power and performance to the ground, with less operator input, than conventional converter-driven transmissions. Advantages of the Cat Hystat Power Train include:

- Simple and smooth operation:
- · Direct change of speed and direction:
- Stepless low speed variation without loss of power;
- Exceptional inching function for precise control;
- Fewer gear shifts raise efficiency and improve fuel consumption;
- Hydrostatic braking reduces wear on mechanical brakes;
- Less heat generated when pushing against a pile of material;
- Higher working productivity;
- Highly reliable ... fewer parts than a mechanical transmission.

1 - Caterpillar 3054T Diesel Engine.

This high-performance engine incorporates many of the same heavy-duty features that help make the larger Cat diesel engines the standard of the industry. It is designed for rugged, reliable operation while providing peak performance over a wide range of operating conditions. For added service life, the 3054T has many rebuild features such as field-replaceable cylinder liners and replaceable valve guides and seats.

Low Emission Engine. The standard 3054T is a very low emission engine designed not only to meet today's environmental standards, but also to meet future worldwide emission standards. It is one of the cleanest burning engines in its class.







Low-Effort Operation. New pilot hydraulic controls give the IT14G uncompromised ease of operation of lift, tilt, and quick coupler functions. Third and fourth function controls are also available for use with special attachments.

Hydrostatic, closed-center steering system with flow amplification provides fast or slow steering response, depending on the operational requirement.

More Seating Options. There is a wide choice of seat options. The Contour Series Seat, right, is the premium seat option and is designed for maximum comfort and fully-adjustable support. Ergonomically shaped seat cushions reduce pressure on the lower back and thighs, while allowing unrestricted arm and leg movement. Even the arm rest angle is adjustable.

Heated and air-suspension seats are among the other options to further enhance operator comfort.



IT14G Integrated Toolcarrier



Your Cat Dealer

There is one very important component included with every Caterpillar IT14G Integrated Toolcarrier that no one else can offer; your Cat Dealer.

Whether you have questions about performance, service or financing, your Cat Dealer has the answers. He is dedicated to helping you make the right equipment choice for your requirements.

Plus, your Cat Dealer has most parts you will ever need for your Cat equipment right on the shelf. If not, the Dealer's worldwide computerized network will immediately find the closest location of the part you need, minimizing your downtime.

When you need more details about the IT14G, contact your Cat Dealer. You'll find he's easy to talk to. And he's genuinely interested in talking to you.

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Materials and specifications are subject to change without notice.

