

# 314C CR 314C LCR

Hydraulic Excavator



## Engine

Engine Model	Cat® 3064 T	
Gross Power	70 kW	94 hp
Flywheel Power	67 kW	90 hp

## Drive

Max. Drawbar Pull	110 kN	24,730 lb
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## Weights

Operating Weight – 314C CR	14 610 kg	32,190 lb
Operating Weight – 314C LCR	14 810 kg	32,590 lb

- Equipped with 2600 mm (8'6") blade, one-piece boom, 3000 mm (9'10") stick, 600 mm (24") shoes, 760 mm (30") bucket, and 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>) bucket capacity.

# 314C CR Hydraulic Excavator

*The 314C CR offers a compact radius and improved performance, versatility and styling.*

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## Compact Radius

- ✓ The 314C CR features a compact radius, making it ideal for working in urban construction where space is often restricted. **pg. 4**

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## Engine

- ✓ The new Cat 3064 T engine delivers outstanding performance, fuel efficiency and low sound levels. This compact engine was developed specifically for construction equipment and provides excellent durability. **pg. 5**

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## Hydraulics

The open-center, two-pump hydraulic system provides high efficiency and reliability. The machine's pump flow control improves fuel efficiency, ensures smooth control, reduces sound levels and extends component life. **pg. 6**

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## Serviceability

Longer service intervals and easier maintenance result in better machine availability and lower owning and operating costs. **pg. 11**

*Increased horsepower, better controllability, extended service intervals and a redesigned operator station increase your productivity and lower your operating costs.*



Courtesy of Machine.Market

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### Front Linkage

Front linkage variations allow the use of one boom, two sticks and five bucket sizes for maximum productivity on a wide range of jobs. **pg. 7**

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### Undercarriage and Blades

- ✓ Rugged Cat undercarriage design and proven structural manufacturing techniques ensure outstanding durability in the toughest conditions. Blades feature replaceable and reversible cutting edges for long service life and reliability. **pg. 8**

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### Operator Station

- ✓ An enlarged cab and new window design enhance visibility and operator comfort. Sliding door system allows easy operator access, even in tight quarters. All operator controls are designed for smooth, low-effort operation and easy reach. **pg. 10**

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### Complete Customer Support

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine configuration to eventual replacement. **pg. 12**

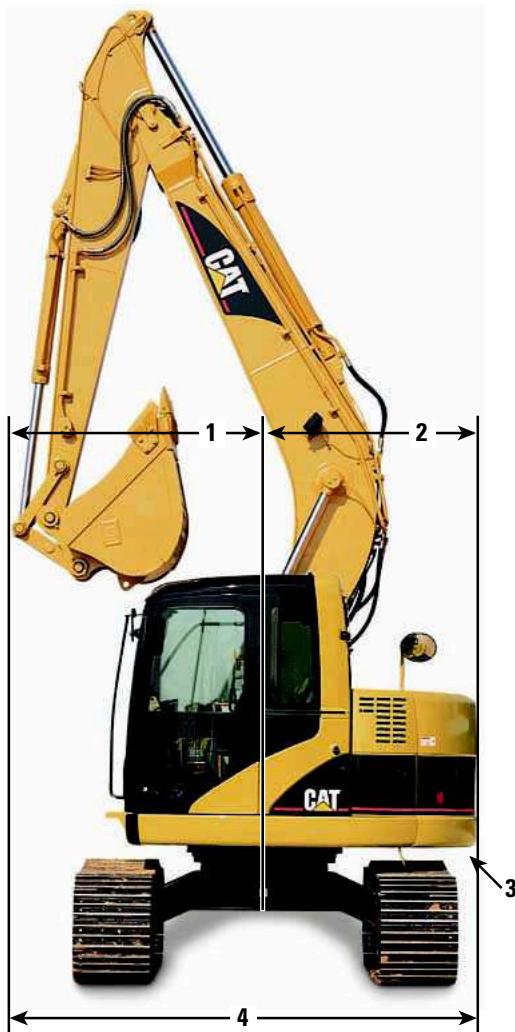


✓ *New Feature*



## Compact Radius

*Compact radius design delivers top performance in tight quarters.*



**Compact Radius Design.** The 314C CR features a compact radius, making it ideal for working in tight areas.

**Shorter Tail Swing Radius.** A shorter tail swing radius makes the 314C CR easier to operate against walls and in other tight areas, reducing the risk of damage to the rear of the machine during operation.

**Flexibility in Tight Quarters.** The shorter tail measurement allows the excavator to work productively in urban construction, on logging roads and other space-restricted sites.

### Dimensions

1) Front Swing From Center
2500 mm (8 ft 2 in) stick - 1970 mm (6 ft 6 in)
3000 mm (9 ft 10 in) stick - 2220 mm (7 ft 3 in)
2) Rear Swing From Center
1480 mm (4 ft 10 in)
3) Overhang
500 mm (20 in) shoes - 235 mm (9 in)
600 mm (24 in) shoes - 185 mm (7 in)
700 mm (28 in) shoes - 135 mm (5 in)
4) Width
2500 mm (8 ft 2 in) stick - 3450 mm (11 ft 4 in)
3000 mm (9 ft 10 in) stick - 3700 mm (12 ft 1 in)

## Engine

*The four-cylinder turbocharged Cat 3064 T engine is built for power, reliability, economy and low emissions.*

**Torque Rise.** The engine has a long-stroke piston movement for high torque at medium to low speeds – a feature that is especially beneficial for heavy-duty use.

**Automatic Engine Control.** Provides convenient one-touch command. Three-stage control maximizes fuel efficiency and reduces sound levels.

**Low Fuel Consumption.** The engine offers low fuel consumption, improved thermal efficiency and reduced resistance between pistons and liners.

**Maintenance Access.** The oil level gauge, oil filter, fuel filter and priming pump are all located in front of the engine for easy maintenance. The engine oil filter and fuel filter change intervals have been extended.

**Crankshaft and Connecting Rods.** The engine has a specially-balanced crankshaft to counteract typical four-cylinder engine vibration. The surface of the crankshaft journals and pins are induction-hardened to improve abrasion resistance.

**Pistons and Rings.** Heat-resistant aluminum alloy pistons have a short compression height, reducing weight and improving combustion efficiency. The piston ring set consists of three rings, treated for maximum wear resistance.



**Cooling System.** A large-diameter fan and full-length, water-cooled cylinders, combined with excellent thermal efficiency, help prevent overheating. The result is longer engine life and the ability to operate at high temperatures and under heavy loads. The core radiator is equipped with waved fins to prevent clogging.

**Lubrication System.** The system utilizes an external gear-type, high-efficiency oil pump. The large oil filter is composed of a main filter and a bypass filter, designed for high performance.

# Hydraulics

*Cat hydraulics deliver power and precise control to keep material moving at high volume.*



**High Efficiency Hydraulics.** The 314C CR uses an open-center, two-pump system. The main pumps are variable-displacement axial piston pumps and are driven directly from the engine. The pump drive is direct, so transmission efficiency remains high.

**Component Layout.** All major components are located close together, so shorter tubes and lines are used between components, resulting in less friction loss in the lines and reduced pressure drops.

**Flow Control System.** When controls are in neutral position, flow is minimized resulting in longer component life and lower fuel consumption and sound levels.

**Hydraulic Cross-Sensing System.**

The system utilizes each of the main hydraulic pumps to 100 percent of engine power under all operating conditions, resulting in faster implement speeds and pivot turns.

**Stick Regeneration Circuit.** Saves energy while the stick is in use, providing shorter cycle times and lower operating costs.

**Pilot System.** Increased pilot hydraulic pressure provides better control to the front linkage, swing and travel operations.

**Precise Control.** Hydraulics deliver smooth changes in speed and outstanding overall control, so operators remain comfortable and productive throughout the day.

**Boom Drift Reducing Valve.** This valve reduces the natural drift of the boom, so lifted material will remain suspended for long periods with virtually no drift.

**Auxiliary Hydraulic Valve.** The auxiliary hydraulic valve is standard on the 314C CR for use with optional hydraulic circuits.



## Front Linkage

*Designed for maximum flexibility to keep productivity and efficiency high on all jobs.*

**Front Linkage Attachments.** Allows the use of one boom, two sticks and five buckets. Using these combinations makes the excavator productive in a wide range of applications.

**Boom.** The boom is designed to provide maximum digging capability. The Cat one-piece boom features a fabricated box-section design. Robotic welding and high-tensile strength steel on upper, lower and side plates provide high durability and consistency.

**Sticks.** Two stick attachments are available: a long stick to maximize reach or medium stick for the most versatile front linkage. Both sticks use a box-section design made of high tensile-strength steel and a buffer plate.

**Linkage Bearings.** A self-lubricated, sintered bearing greatly extends the greasing interval on front linkage pins by reducing pin friction. Greasing intervals on the bucket swing pin connection are also extended using a mesh bearing design.

**Buckets.** High tensile-strength steel is used in high-stress areas for excellent wear and shock resistance. The side plates are angled to prevent contact of the bucket sidewalls during trenching operations. All five bucket sizes are a general-purpose design and share a common side profile.



### **Bucket-Flop Adjustment Mechanism.**

All 300-family excavators are equipped with this feature, allowing the operator or service person to reduce the side play at the bucket to stick-nose connection. This attachment is only available when Cat buckets are ordered.

## Undercarriage and Blades

*Durable undercarriage absorbs stresses and provides excellent stability.*



**Track Types.** The 314C CR is available with two different track types: standard and long.

### **Carbody and Track Roller Frame.**

X-shaped, box-section carbody provides high rigidity and excellent resistance to torsional bending. The track frame is made from a press-formed pentagonal section for maximum strength and long service life. The carbody and track roller frames use robotic welding to ensure continuous, high-quality welds.

**Rollers and Idlers.** Sealed and lubricated track rollers, carrier rollers and idlers provide excellent service life to keep the machine in the field longer.

**Main Frame.** The rugged main frame is designed for maximum durability and efficient use of materials.

**Grease-Lubricated Track.** Grease-lubricated seals protect the track link and provide longer wear life by helping to keep dirt and debris from entering the pin and bushing joint.

**Roller Lubrication.** All rollers, sprockets and idler joints are closed with floating seals. Lubricating oil from the seals prevents water and dirt from entering. The seals also make lubrication maintenance-free.

**Travel Motors.** Automatic speed selection enables the machine to automatically shift up and down from high and low speeds in a smooth, controlled manner. An “anti-hunt” feature eliminates the hunting often associated with auto shifting when operating near the shift point.

**Idler Guard.** An idler guard is integral to the track roller frame. This standard guard helps maintain track alignment while traveling or working on slopes.

**Segment-Type Rubber Track.** Optional segment-type rubber track prevents damage to concrete and other road surfaces, especially in urban areas.





**Rubber Pads.** The 314C CR standard shoe has four extra holes for installation of steel-backed rubber street pads. Optional rubber pads are attached to the track shoes, eliminating potential damage to paved road surfaces. (Pads are installed by your local Caterpillar dealer or can be purchased through the dealer for later installation.)



**Blades.** Three blade widths are available as attachments. The bolt-on cutting edge consists of three pieces, which can be reused by turning them upside down. Replaceable bolt-on edges protect the blade from damage and wear. Mesh bearings in the pin joints of the blade cylinder extend the greasing interval.



## Operator Station

*Designed for simple, easy operation, the 314C CR allows the operator to focus on production.*



**Cab Design.** An enlarged cab with curved styling gives the operator a comfortable, spacious working environment and improved visibility.

**Sliding Door.** The cab door slides alongside the cab and takes less space to open and close than a hinged door. This unique design allows the operator to easily get in and out of the cab when working against walls on job sites, even when attachments are added.

**Consoles.** Redesigned consoles feature a simple, functional design. Both consoles have attached adjustable armrests and slide forward and backward.

**Monitor.** A compact monitor is located at the right console for excellent visibility from the operator's seat. The monitor displays instrument panel gauges and indicators in an easy-to-read format.

**Cab Mounts.** The cab shell is attached to the frame with viscous rubber cab mounts, that dampen vibrations and sound levels while enhancing operator comfort.

**Travel Controls.** The footrest provides a more comfortable way to control the travel pedals. The two travel control levers have a reverse-L shape, making them easier to operate. Lever stroke and force have been adjusted to improve fine control and to prevent jolting during travel.

**Seat.** The low-back seat slides forward and backward independent of the consoles, so it can be adjusted to the operator's comfort level.

### **Hydraulic Activation Control Lever.**

For added safety, this lever must be in the locked position before the operator can leave the cab. This feature prevents the machine from operating without the operator in the cab.

**Climate Control.** The 314C CR features a fully automatic climate control. The air conditioner is standard and adjusts temperature and flow.



## Serviceability

*Simplified service and maintenance save you time and money.*

**Extended Service Intervals.** Extended service and maintenance intervals reduce service time and machine availability. Use of oil-free bearings extends front linkage greasing interval to 1000 hours, except in bucket area.

**Ground-Level Maintenance.** For operator convenience, most daily maintenance areas can be easily reached from ground level.

**Fan Guard.** Engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of injury.

**DT Electrical Connectors.** Connectors are water- and vibration-resistant, improving electrical system reliability.

**Radiator and Pump Compartment.** Opening the engine hood allows easy access to the engine radiator and the oil cooler. A reserve tank and drain cock are attached to the radiator to simplify maintenance.

**Air Filter.** Cat radial seal provides superior cleaning efficiency.

**Engine Inspection.** The engine can be accessed from the upper structure or from under the machine. A steel wall separates the engine and pump compartments, preventing hydraulic oil from spraying on the engine in the event of a hydraulic line failure.

**Engine Maintenance.** To make daily servicing easier, the oil level gauge, oil filter, fuel filter and priming pump are grouped in front of the engine.



**Fuel Tank.** A drain cock is installed at the bottom of the tank, making it easier to remove water and sediment during maintenance.

**Fuel-Water Separator.** The water separator has a primary fuel filter element and is located in the radiator compartment for easy access from the ground.



## Complete Customer Support

*Cat dealer services help you operate longer with lower costs.*



**Selection.** Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments and operating hours? What production is needed? What is the true cost of lost production? Your Cat dealer can give precise answers to these questions.

**Purchase.** Look past the initial price; look at the value the 314C CR offers. Consider the resale value and compare productivity and day-to-day operating costs. Consult your local Cat dealer for financing options.

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

**Maintenance.** Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

**Replacement.** Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can 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. You can save money with Cat remanufactured components.

**Warranty.** Your local Cat dealer is there to support and protect you. Extended warranty options are also available.

## Engine

Engine Model	Cat 3064 T	
Gross Power	70 kW	94 hp
Flywheel Power	67 kW	90 hp
ISO 9249	67 kW	90 hp
SAE J1349	67 kW	90 hp
EEC 80/1269	67 kW	90 hp
Bore	102 mm	4 in
Stroke	130 mm	5.1 in
Displacement	4.25 L	259 in <sup>3</sup>

## Weights

Operating Weight	14 810 kg	32,590 lb
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- Equipped with 2600 mm (8'6") blade, one-piece boom, long undercarriage, 3000 mm (9'10") stick, 600 mm (24") shoes, 760 mm (30") bucket, and 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>) bucket capacity.

## Swing Mechanism

Swing Torque	30 900 N•m	22,790 lb•ft
Swing Speed	12.6 RPM	

## Drive

Maximum Drawbar Pull	110 kN	24,730 lb
Travel Speed	5.5 kph	3.4 mph

## Hydraulic System

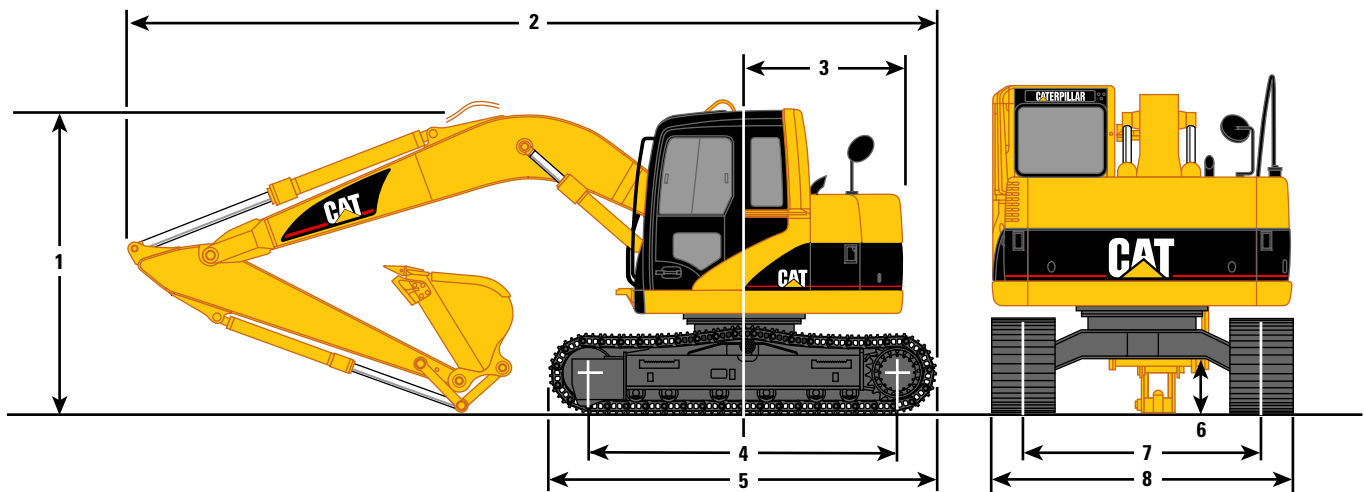
Main Implement System - Maximum Flow (2x)	127 L/min	33.5 gal/min
Maximum Pressure - Implements	29 900 kPa	4,340 psi
Maximum Pressure - Travel	34 300 kPa	4,980 psi
Maximum Pressure - Swing	23 050 kPa	3,340 psi
Pilot System - Maximum Flow	26.9 L/min	6.9 gal/min
Pilot System - Maximum Pressure	4120 kPa	600 psi
Blade - Maximum Flow	58.5 L/min	15.5 gal/min
Blade System - Maximum Pressure	20 600 kPa	2,990 psi
Boom Cylinder - Bore	110 mm	4 in
Boom Cylinder - Stroke	1000 mm	39.4 in
Stick Cylinder - Bore	120 mm	4.7 in
Stick Cylinder - Stroke	1197 mm	47.1 in
Bucket Cylinder - Bore	100 mm	3.9 in
Bucket Cylinder - Stroke	939 mm	37 in

## Service Refill Capacities

Fuel Tank	200 L	52.8 gal
Cooling System	17.5 L	4.6 gal
Engine Oil	17.5 L	4.6 gal
Swing Drive	3 L	0.8 gal
Final Drive (Each)	2.5 L	0.66 gal
Hydraulic System (Including Tank)	150 L	39.6 gal
Hydraulic Tank	120 L	31.7 gal

## Dimensions

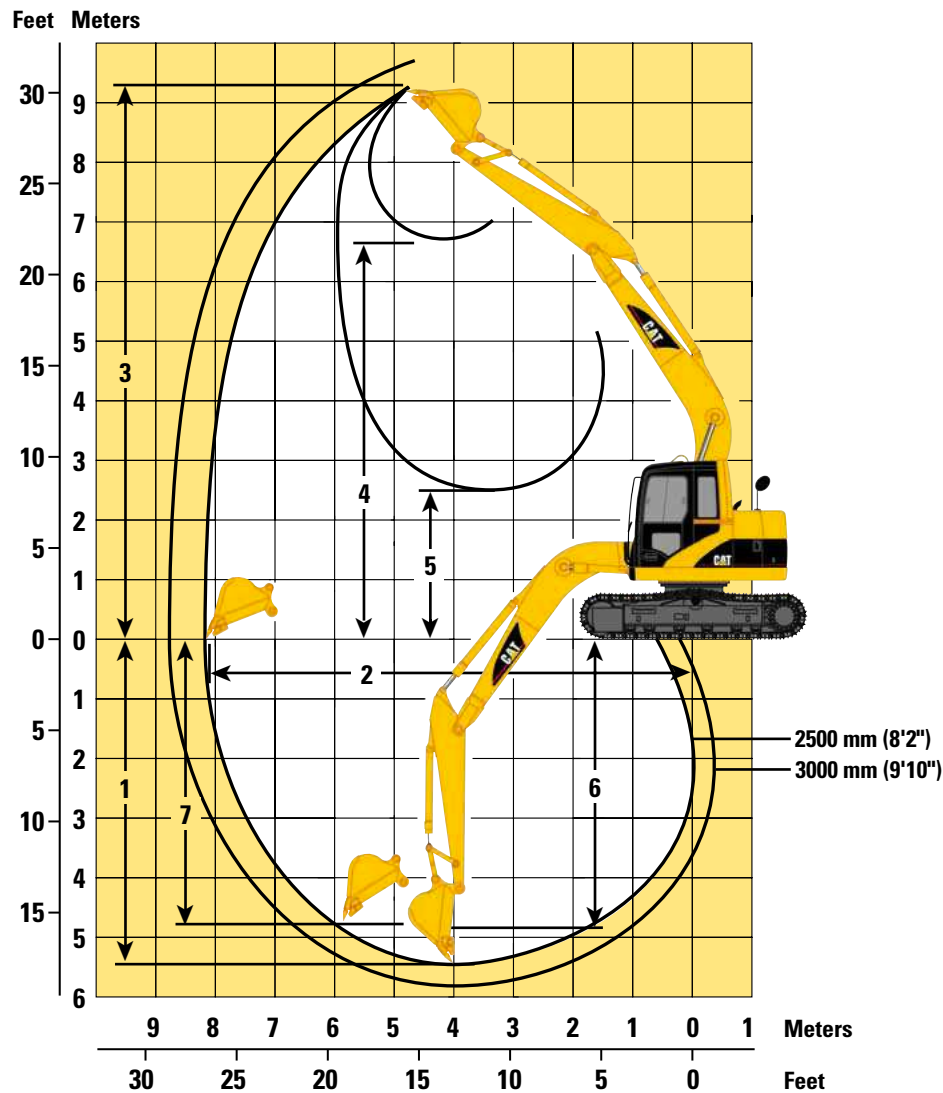
All dimensions are approximate.



Boom 4.65 m (15'3")	2500 mm (8'2") Stick	3000 mm (9'10") Stick
<b>1</b> Shipping height	2810 mm (9'3")	2730 mm (8'11")
<b>2</b> Shipping length		
314C CR	7280 mm (23'11")	7280 mm (23'11")
314C LCR	7410 mm (24'4")	7410 mm (24'4")
<b>3</b> Tail swing radius	1480 mm (4'10")	1480 mm (4'10")
<b>4</b> Length to centers of rollers		
314C CR	2780 mm (9'1")	2780 mm (9'1")
314C LCR	3040 mm (9'11")	3040 mm (9'11")
<b>5</b> Track length		
314C CR	3490 mm (11'5")	3490 mm (11'5")
314C LCR	3750 mm (12'4")	3750 mm (12'4")
<b>6</b> Ground clearance	455 mm (1'6")	455 mm (1'6")
<b>7</b> Track gauge	1990 mm (6'6")	1990 mm (6'6")
<b>8</b> Transport width		
500 mm (20") shoes	2490 mm (8'2")	2490 mm (8'2")
600 mm (24") shoes	2590 mm (8'6")	2590 mm (8'6")
700 mm (28") shoes	2690 mm (8'10")	2690 mm (8'10")



# Working Ranges



Stick Length	2500 mm (8'2")*	3000 mm (9'10")**
1 Maximum Digging Depth	5450 mm (17'11")	5950 mm (19'6")
2 Maximum Reach at Ground Level	8180 mm (26'10")	8630 mm (28'4")
3 Maximum Cutting Height	9300 mm (30'6")	9620 mm (31'7")
4 Maximum Loading Height	6860 mm (22'6")	7190 mm (23'7")
5 Minimum Loading Height	2500 mm (8'2")	2060 mm (6'9")
6 Maximum Depth Cut for 2440 mm (8') Level Bottom	5240 mm (17'2")	5770 mm (18'11")
7 Maximum Vertical Wall Digging Depth	4910 mm (16'1")	5330 mm (17'6")
Minimum Front Swing Radius	1970 mm (6'6")	2220 mm (7'3")
Stick Digging Force (SAE)	63 kN (14,100 lb)	56 kN (12,600 lb)
Bucket Digging Force (SAE)	84 kN (18,800 lb)	84 kN (18,800 lb)

\* – Measurements shown are for machines equipped with the 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>) bucket

\*\* – Measurements shown are for machines equipped with the 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>) bucket

## Operating Weights

Caterpillar designed and built track-type undercarriage.

### 314C CR

Track width		Operating Weight (medium stick)		Operating Weight (long stick)	
standard	500 mm (20") triple grouser	13 500 kg	(29,800 lb)	13 600 kg	(29,900 lb)
	<b>2500 mm (8'2") Blade:</b> add	800 kg	(1780 lb)	800 kg	(1780 lb)
optional	600 mm (24") triple grouser	13 800 kg	(30,400 lb)	13 800 kg	(30,400 lb)
	<b>2600 mm (8'6") Blade:</b> add	810 kg	(1790 lb)	810 kg	(1790 lb)
	700 mm (28") triple grouser	14 000 kg	(30,900 lb)	14 000 kg	(31,000 lb)
	<b>2700 mm (8'10") Blade:</b> add	820 kg	(1810 lb)	820 kg	(1810 lb)
	500 mm (20") segmented rubber track	13 600 kg	(30,000 lb)	13 600 kg	(30,000 lb)
	<b>2500 mm (8'2") Blade:</b> add	800 kg	(1780 lb)	800 kg	(1780 lb)

### 314C LCR

Track width		Operating Weight (medium stick)		Operating Weight (long stick)	
standard	500 mm (20") triple grouser	13 700 kg	(30,200 lb)	13 700 kg	(30,200 lb)
	<b>2500 mm (8'2") Blade:</b> add	800 kg	(1780 lb)	800 kg	(1780 lb)
optional	600 mm (24") triple grouser	13 900 kg	(30,700 lb)	14 000 kg	(30,800 lb)
	<b>2600 mm (8'6") Blade:</b> add	810 kg	(1790 lb)	810 kg	(1790 lb)
	700 mm (28") triple grouser	14 200 kg	(31,300 lb)	14 200 kg	(31,300 lb)
	<b>2700 mm (8'10") Blade:</b> add	820 kg	(1810 lb)	820 kg	(1810 lb)

## Buckets

Buckets have tapered sides, angled corner teeth, dual radius curvature, horizontal wear strips, and holes for optional side cutters.

Width		Capacity		Recommended Maximum Material Density			
				Medium Stick		Long Stick	
mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg/m <sup>3</sup>	lbs/yd <sup>3</sup>	kg/m <sup>3</sup>	lbs/yd <sup>3</sup>
610	24	0.30	0.39	1800	3000	1800	3000
760	30	0.40	0.53	1800	3000	1800	3000
910	36	0.52	0.68	1800	3000	1500	2500
1070	42	0.63	0.82	1500	2500	1200	2000
1220	48	0.74	0.97	1200	2000	1000	1700

## Undercarriage

Caterpillar designed and built track-type undercarriage.

	Track width	Ground Pressure	
		314C CR	314C LCR
Standard	500 mm (20") triple grouser	44 kPa (6.4 psi)	41 kPa (5.9 psi)
Optional	600 mm (24") triple grouser	37 kPa (5.4 psi)	35 kPa (5.0 psi)
	700 mm (28") triple grouser	32 kPa (4.7 psi)	30 kPa (4.4 psi)
	500 mm (20") segmented rubber track	44 kPa (6.4 psi)	— (—)



# Reach Boom Lift Capacities



Load Point  
Height



Load at  
Maximum Reach



Load Radius  
Over Front















Load Radius  
Over Side

**STICK** – 2500 mm (8'2")  
**BUCKET** – 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>)/36"

**UNDERCARRIAGE** – Standard  
**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")  
**BLADE** – Up (or Without Blade)













		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
7.5 m 25.0 ft	kg lb									*1550 *3500	*1550 *3500	5.15 16.32
6.0 m 20.0 ft	kg lb					*3250 *7150	*3250 *7150			*1350 *2900	*1350 *2900	6.71 21.78
4.5 m 15.0 ft	kg lb					*3550 *7700	3400 7300	2950 6350	2050 4300	*1250 *2750	*1250 *2750	7.56 24.69
3.0 m 10.0 ft	kg lb			*5950 *12,750	*5950 *12,750	*4200 *9050	3200 6900	2900 6200	1950 4200	*1250 *2750	1200 2600	7.96 26.10
1.5 m 5.0 ft	kg lb			*7850 *16,850	5500 11,850	4450 9500	2950 6350	2800 5950	1850 4000	*1350 *2950	1150 2450	8.01 26.29
Ground Line	kg lb			*6600 *15,300	5150 11,000	4250 9050	2750 5900	2700 5750	1800 3800	*1550 *3350	1200 2600	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4450 *9900	*4450 *9900	*7300 *15,850	5050 10,850	4150 8850	2700 5750	2650 5700	1750 3700	*1850 *4100	1400 3050	7.02 22.98
-3.0 m -10.0 ft	kg lb	*7800 *17,550	*7800 *17,550	*5650 *12,100	5150 11,100	*3900 *8300	2700 5850			*1800 *3850	*1800 *3850	5.77 18.74

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

**STICK** – 2500 mm (8'2")  
**BUCKET** – 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>)/36"

**UNDERCARRIAGE** – Standard  
**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")  
**BLADE** – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
7.5 m 25.0 ft	kg lb									*1550 *3500	*1550 *3500	5.15 16.32
6.0 m 20.0 ft	kg lb					*3250 *7150	*3250 *7150			*1350 *2900	*1350 *2900	6.71 21.78
4.5 m 15.0 ft	kg lb					*3550 *7700	*3550 *7700	*3200 *6900	2400 5150	*1250 *2750	*1250 *2750	7.56 24.69
3.0 m 10.0 ft	kg lb			*5950 *12,750	*5950 *12,750	*4200 *9050	3800 8150	*3400 *7350	2350 5050	*1250 *2750	*1250 *2750	7.96 26.10
1.5 m 5.0 ft	kg lb			*7850 *16,850	6700 14,350	*4900 *10,600	3550 7600	*3650 *7900	2250 4800	*1350 *2950	*1350 *2950	8.01 26.29
Ground Line	kg lb			*6600 *15,300	6300 13,500	*5200 *11,300	3350 7150	*3750 *8100	2150 4600	*1550 *3350	1450 3200	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4450 *9900	*4450 *9900	*7300 *15,850	6250 13,350	*4950 *10,650	3250 7000	*3450 *7350	2100 4550	*1850 *4100	1700 3750	7.02 22.98
-3.0 m -10.0 ft	kg lb	*7800 *17,550	*7800 *17,550	*5650 *12,100	*5650 *12,100	*3900 *8300	3300 7050			*1800 *3850	*1800 *3850	5.77 18.74

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

# Reach Boom Lift Capacities



Load Point  
Height



Load at  
Maximum Reach



Load Radius  
Over Front



Load Radius  
Over Side

**STICK** – 3000 mm (9'10")

**BUCKET** – 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>)/30"

**UNDERCARRIAGE** – Standard

**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")

**BLADE** – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
7.5 m 25.0 ft	kg lb					*1800 *3700	*1800 *3700					*1400 *3100	*1400 *3100	5.89 18.82
6.0 m 20.0 ft	kg lb					*2850 *6300	*2850 *6300	*2300 *4650	2150 4550			*1200 *2650	*1200 *2650	7.25 23.58
4.5 m 15.0 ft	kg lb					*3150 *6900	*3150 *6900	*2950 *6400	2100 4450			*1150 *2550	*1150 *2550	8.03 26.26
3.0 m 10.0 ft	kg lb			*5000 *10,500	*5000 *10,500	*3850 *8300	3300 7050	2950 6300	2000 4300	*1800 *4000	1300 2850	*1200 *2600	1050 2350	8.41 27.57
1.5 m 5.0 ft	kg lb			*7300 *15,650	5700 12,250	4500 9650	3000 6450	2800 6050	1900 4050	1950 4100	1250 2650	*1250 *2750	1050 2250	8.46 27.75
Ground Line	kg lb			*7550 *17,550	5200 11,100	4250 9100	2800 5950	2700 5800	1800 3800	1900 4150	1200 2650	*1400 *3100	1050 2300	8.18 26.83
-1.5 m -5.0 ft	kg lb	*4050 *9050	*4050 *9050	*7750 *16,700	5050 10,750	4100 8850	2650 5700	2650 5650	1700 3650			*1700 *3750	1200 2650	7.53 24.68
-3.0 m -10.0 ft	kg lb	*6700 *15,100	*6700 *15,100	*6350 *13,650	5050 10,850	4100 8800	2650 5700	2650 5700	1750 3700			*1950 *4250	1600 3600	6.40 20.85
-4.5 m -15.0 ft	kg lb			*3800 *7850	*3800 *7850	*2350 *4550	*2350 *4550					*2000 *4300	*2000 *4300	4.76 15.31

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

**STICK** – 3000 mm (9'10")

**BUCKET** – 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>)/30"

**UNDERCARRIAGE** – Standard

**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")

**BLADE** – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
7.5 m 25.0 ft	kg lb					*1800 *3700	*1800 *3700					*1400 *3100	*1400 *3100	5.89 18.82
6.0 m 20.0 ft	kg lb					*2850 *6300	*2850 *6300	*2300 *4650	*2300 *4650			*1200 *2650	*1200 *2650	7.25 23.58
4.5 m 15.0 ft	kg lb					*3150 *6900	*3150 *6900	*2950 *6400	2500 5300			*1150 *2550	*1150 *2550	8.03 26.26
3.0 m 10.0 ft	kg lb			*5000 *10,500	*5000 *10,500	*3850 *8300	*3850 *8300	*3200 *6950	2400 5100	*1800 *4000	1600 3450	*1200 *2600	*1200 *2600	8.41 27.57
1.5 m 5.0 ft	kg lb			*7300 *15,650	6900 14,800	*4650 *10,050	3600 7700	*3500 *7600	2300 4850	*2450 *4500	1550 3300	*1250 *2750	*1250 *2750	8.46 27.75
Ground Line	kg lb			*7550 *17,550	6350 13,600	*5150 *11,100	3350 7200	*3700 *8050	2150 4650	*2200 *4800	1500 3300	*1400 *3100	1300 2900	8.18 26.83
-1.5 m -5.0 ft	kg lb	*4050 *9050	*4050 *9050	*7750 *16,700	6200 13,250	*5050 *10,950	3250 6950	*3600 *7700	2100 4500			*1700 *3750	1500 3300	7.53 24.68
-3.0 m -10.0 ft	kg lb	*6700 *15,100	*6700 *15,100	*6350 *13,650	6250 13,350	*4300 *9250	3250 6950	*2850 *5850	2100 4550			*1950 *4250	*1950 *4250	6.40 20.85
-4.5 m -15.0 ft	kg lb			*3800 *7850	*3800 *7850	*2350 *4550	*2350 *4550					*2000 *4300	*2000 *4300	4.76 15.31

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

# Reach Boom Lift Capacities



Load Point  
Height



Load at  
Maximum Reach



Load Radius  
Over Front















Load Radius  
Over Side

**STICK** – 2500 mm (8'2")  
**BUCKET** – 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>)/36"

**UNDERCARRIAGE** – Long  
**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")  
**BLADE** – Up (or Without Blade)

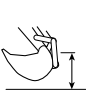











		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
7.5 m 25.0 ft	kg lb									*1550 *3450	*1550 *3450	5.15 16.32
6.0 m 20.0 ft	kg lb					*3250 *7100	*3250 *7100			*1300 *2900	*1300 *2900	6.71 21.78
4.5 m 15.0 ft	kg lb					*3550 *7700	3450 7350	*3150 *6850	2050 4350	*1250 *2700	*1250 *2700	7.56 24.69
3.0 m 10.0 ft	kg lb			*5950 *12,750	*5950 *12,750	*4200 *9050	3250 6950	3300 7100	2000 4250	*1250 *2750	1200 2600	7.96 26.10
1.5 m 5.0 ft	kg lb			*7800 *16,850	5550 11,950	*4900 *10,550	3000 6400	3200 6850	1900 4000	*1350 *2950	1150 2450	8.01 26.29
Ground Line	kg lb			*6600 *15,300	5200 11,100	4900 10,550	2800 6000	3100 6650	1800 3850	*1500 *3300	1200 2600	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4400 *9900	*4400 *9900	*7300 *15,800	5100 10,950	4800 10,350	2700 5800	3050 6550	1750 3750	*1850 *4050	1400 3050	7.02 22.98
-3.0 m -10.0 ft	kg lb	*7800 *17,550	*7800 *17,550	*5600 *12,050	5250 11,200	*3900 *8250	2750 5900			*1750 *3800	*1750 *3800	5.77 18.74

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

**STICK** – 2500 mm (8'2")  
**BUCKET** – 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>)/36"

**UNDERCARRIAGE** – Long  
**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")  
**BLADE** – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
7.5 m 25.0 ft	kg lb									*1550 *3450	*1550 *3450	5.15 16.32
6.0 m 20.0 ft	kg lb					*3250 *7100	*3250 *7100			*1300 *2900	*1300 *2900	6.71 21.78
4.5 m 15.0 ft	kg lb					*3550 *7700	*3550 *7700	*3150 *6850	2450 5200	*1250 *2700	*1250 *2700	7.56 24.69
3.0 m 10.0 ft	kg lb			*5950 *12,750	*5950 *12,750	*4200 *9050	3800 8200	*3400 *7350	2350 5050	*1250 *2750	*1250 *2750	7.96 26.10
1.5 m 5.0 ft	kg lb			*7800 *16,850	6750 14,450	*4900 *10,550	3550 7650	*3650 *7900	2250 4850	*1350 *2950	*1350 *2950	8.01 26.29
Ground Line	kg lb			*6600 *15,300	6350 13,600	*5200 *11,250	3350 7200	*3750 *8050	2200 4650	*1500 *3300	1450 3200	7.71 25.31
-1.5 m -5.0 ft	kg lb	*4400 *9900	*4400 *9900	*7300 *15,800	6300 13,450	*4950 *10,650	3300 7050	*3450 *7350	2150 4550	*1850 *4050	1700 3750	7.02 22.98
-3.0 m -10.0 ft	kg lb	*7800 *17,550	*7800 *17,550	*5600 *12,050	*5600 *12,050	*3900 *8250	3300 7100			*1750 *3800	*1750 *3800	5.77 18.74

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# Reach Boom Lift Capacities



Load Point  
Height



Load at  
Maximum Reach



Load Radius  
Over Front



Load Radius  
Over Side

**STICK** – 3000 mm (9'10")

**BUCKET** – 0.41 m<sup>3</sup> (0.53 yd<sup>3</sup>)/30"

**UNDERCARRIAGE** – Long

**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")

**BLADE** – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
7.5 m 25.0 ft	kg lb					*1800 *3700	*1800 *3700					*1350 *3000	*1350 *3000	5.89 18.82
6.0 m 20.0 ft	kg lb					*2850 *6200	*2850 *6200	*2300 *4600	2150 4550			*1200 *2600	*1200 *2600	7.25 23.58
4.5 m 15.0 ft	kg lb					*3150 *6800	*3150 *6800	*2900 *6300	2100 4450			*1150 *2450	*1150 *2450	8.03 26.26
3.0 m 10.0 ft	kg lb			*4950 *10,500	*4950 *10,500	*3800 *8250	3300 7050	*3150 *6850	2000 4300	*1800 *3900	1300 2800	*1150 *2500	1050 2300	8.41 27.57
1.5 m 5.0 ft	kg lb			*7250 *15,600	5750 12,350	*4600 *9950	3000 6500	3200 6900	1900 4050	2200 *4450	1250 2650	*1250 *2700	1000 2200	8.46 27.75
Ground Line	kg lb			*7550 *17,450	5200 11,200	4950 10,550	2800 6000	3100 6650	1800 3800	2150 4700	1200 2650	*1400 *3050	1050 2300	8.18 26.83
-1.5 m -5.0 ft	kg lb	*4000 *9000	*4000 *9000	*7700 *16,650	5050 10,850	4800 10,250	2700 5750	3050 6500	1700 3650			*1700 *3700	1200 2650	7.53 24.68
-3.0 m -10.0 ft	kg lb	*6700 *15,000	*6700 *15,000	*6350 *13,600	5100 10,950	*4300 *9150	2650 5700	*2800 *5800	1750 3700			*1950 *4200	1600 3600	6.40 20.85
-4.5 m -15.0 ft	kg lb			*3750 *7800	*3750 *7800	*2300 *4500	*2300 *4500					*2000 *4200	*2000 *4200	4.76 15.31

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**STICK** – 3000 mm (9'10")

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**UNDERCARRIAGE** – Long

**SHOES** – 600 mm (24") triple grouser

**BOOM** – 4650 mm (15'3")

**BLADE** – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
7.5 m 25.0 ft	kg lb					*1800 *3700	*1800 *3700					*1350 *3000	*1350 *3000	5.89 18.82
6.0 m 20.0 ft	kg lb					*2850 *6200	*2850 *6200	*2300 *4600	*2300 *4600			*1200 *2600	*1200 *2600	7.25 23.58
4.5 m 15.0 ft	kg lb					*3150 *6800	*3150 *6800	*2900 *6300	2500 5300			*1150 *2450	*1150 *2450	8.03 26.26
3.0 m 10.0 ft	kg lb			*4950 *10,500	*4950 *10,500	*3800 *8250	*3800 *8250	*3150 *6850	2400 5100	*1800 *3900	1600 3450	*1150 *2500	*1150 *2500	8.41 27.57
1.5 m 5.0 ft	kg lb			*7250 *15,600	6950 14,900	*4600 *9950	3600 7750	*3500 *7550	2250 4850	*2450 *4450	1550 3250	*1250 *2700	*1250 *2700	8.46 27.75
Ground Line	kg lb			*7550 *17,450	6400 13,650	*5100 *11,050	3350 7250	*3700 *7950	2150 4600	2150 4750	1500 3250	*1400 *3050	1300 2850	8.18 26.83
-1.5 m -5.0 ft	kg lb	*4000 *9000	*4000 *9000	*7700 *16,650	6200 13,300	*5050 *10,900	3250 6950	*3550 *7650	2100 4500			*1700 *3700	1500 3300	7.53 24.68
-3.0 m -10.0 ft	kg lb	*6700 *15,000	*6700 *15,000	*6350 *13,600	6250 13,450	*4300 *9150	3250 6950	*2800 *5800	2100 4550			*1950 *4200	*1950 *4200	6.40 20.85
-4.5 m -15.0 ft	kg lb			*3750 *7800	*3750 *7800	*2300 *4500	*2300 *4500					*2000 *4200	*2000 *4200	4.76 15.31

\* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.



## Standard Equipment

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

Alternator, 50 amp

Automatic swing parking brake

Auxiliary hydraulic valve

Batteries

Boom drift reduction valve

Cab:

- Air conditioner with defroster
- AM/FM radio
- Ashtray
- Beverage holder
- Coat hook
- Floor mat
- Horn
- Instrument panel and gauges
- Joysticks, pilot-operated
- KAB TIP seat with adjustable armrest, without head rest
- Lighting, interior
- Literature compartment
- Neutral lever (lockout) for all controls
- Openable front windshield
- Openable skylight
- Pillar mounted windshield wiper and washer
- Rear window emergency exit
- Seat belt
- Travel control pedals with hand levers
- Utility space for magazines

Counterweight

Door and caps lock with one-key security system

Hydraulic oil cooler

Mirrors (frame right and cab left)

Power Train:

- Cat 3064 T Diesel engine
- 24-volt electric starting
- One touch low idle
- Cooling system
- Water separator
- Two speed auto-shift travel
- Straight line travel
- Muffler

Reverse swing damping valve

Stick drift reduction valve

Tow eyes

Undercarriage:

- Hydraulic track adjusters
- Track-type undercarriage with grease lubricated seals
- Idler end track guiding guards
- 500 mm (20") triple grouser shoes with additional holes for mounting rubber street pads

Working light, chassis mounted

## Optional Equipment

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

Auxiliary hydraulic lines for sticks and boom

Blade, 2500 mm (8'2"), for use with 500 mm (20") steel or segment rubber track

Blade, 2600 mm (8'6"), for use with 600 mm (24") track

Blade, 2700 mm (8'10"), for use with 700 mm (28") track

Buckets

Bucket linkage

Cab mounted working lights

Cold weather start

Coolant, extended life -50° C (-58° F)

Front windshield guard

Hand control pattern changer

Hydraulic arrangements, auxiliary:

- single-function capability
- double-function capability
- combined single and double function capability

Power supply 12V-5A (cigar lighter type)

Right-side boom lights

Sidecutters

Stick and boom combinations:

- 4.65 m (15'3") boom with left side light
- 3.0 m (9'10") stick
- 2.5 m (8'2") stick

Track:

- 600 mm (24") triple grouser
- 700 mm (28") triple grouser
- 500 mm (20") segment rubber track (for 314C CR only)

Travel alarm (mandatory in certain countries)

Vandalism guard

# 314C CR Hydraulic Excavator

AEHQ5470 (3-02)

Replaces AEHQ5389

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Featured machines in photos may include additional equipment.  
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