316E L

Hydraulic Excavator

Engine		
Engine Model	Cat® C4.4 ACERT™	
Engine Power – ISO 14396	89 kW	119 hp

Drive		
Maximum Travel Speed	5.2 km/h	3.2 mph
Maximum Drawbar Pull	156.2 kN	35,115 lbf

Weights		
Minimum Operating Weight	17 200 kg	37,920 lb
Maximum Operating Weight	17 800 kg	39,242 lb

Introduction

Since its introduction in the 1990s, the 300 Series family of excavators has become the industry standard in general, quarry, and heavy construction applications. The all-new E Series and the 316E L will continue that trend-setting standard.

The 316E L meets U.S. Environmental Protection Agency (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards. It is also built with several new fuel-saving and comfort-enabling features and benefits that will delight owners and operators.

If you are looking for more productivity and comfort less fuel consumption and emissions, and easier and more sensible serviceability, you will find it in the all-new 316E L and the E Series family of excavators.

Contents

Engine

Reduced emissions, economical and reliable performance

Cat C4.4 ACERT Engine

The Cat C4.4 ACERT engine delivers performance using significantly less fuel than the previous series engine.

Emissions Solution

Equipped to meet U.S. (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards, the 316E L's C4.4 ACERT engine features a wall and thru flow filter that performs through the whole work cycle of the engine ensuring that it works efficiently and invisibly.

Biodiesel-Ready Fuel System

The C4.4 ACERT engine is equipped with an electronic-controlled high-pressure fuel system that includes an electric priming pump and three-layer fuel hoses to allow the use of biodiesel up to B20 (biodiesel fuel 20% mixture meeting ASTM 6751 or EN 14214).

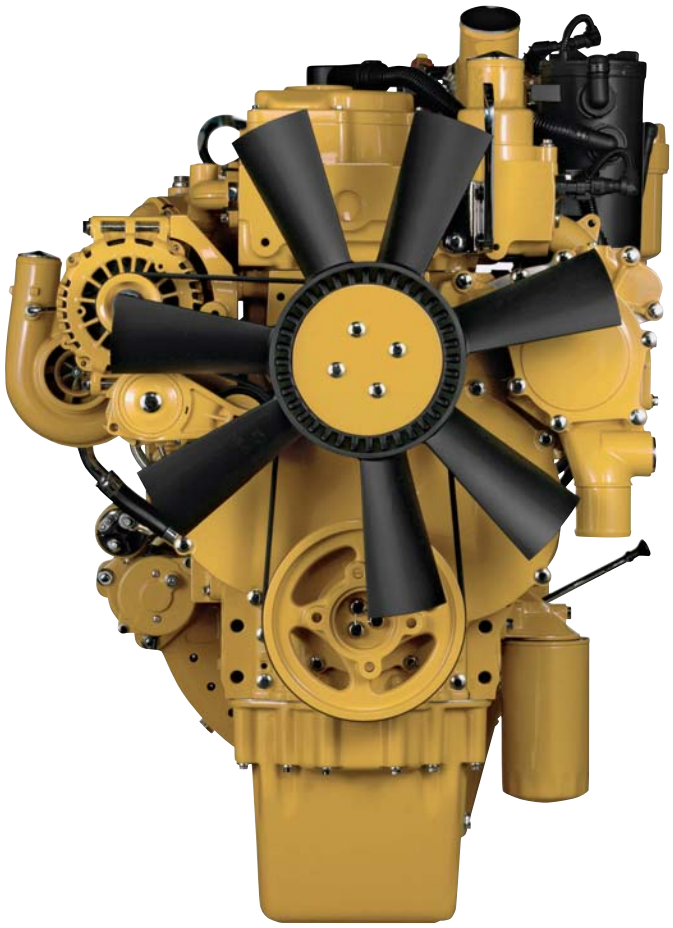
All nonroad U.S. (EPA) Tier 4 Interim and EU Stage IIIB diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) fuels containing 15 mg/kg sulfur or less. Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are also required. For further fluid specifications and guidelines, visit: *http://www.cat.com/cda/files/214956/7/SEBU6251-13-secured.pdf*

Cooling System

The cooling system features an easy to open air to air after cooler and swing out A/C condenser for easy cleaning.

Speed and Power Control

The 316E L features speed control to maximize performance while minimizing fuel consumption. Two different power modes are offered: high power mode when you need maximum production and economy mode when you need performance with lowest fuel consumption. The operator can easily change between modes through the console switch panel to meet the needs for the job at hand – all to help manage and conserve fuel.



Operator Station

Comfort and convenience to keep people productive

Seats

Seats are air suspension, heated and air cooled. All seats include a reclining back, upper and lower seat slide adjustments and height and tilt angle adjustments to meet operator needs for comfort and productivity.

Controls

The right and left joystick consoles can be adjusted to meet individual preferences, improving operator comfort and productivity during the course of a day. With the touch of a button, one-touch idle reduces engine speed to help save fuel; touch it again or move the joystick and the machine returns to normal operating level.

Monitor

The 316E L is equipped with a 7" LCD (Liquid Crystal Display) monitor that's 40% bigger than the previous model's with higher resolution for better visibility. In addition to an improved keypad and added functionality, it's programmable to provide information in a choice of 42 languages to support today's diverse workforce.

An "Engine Shutdown Setting" accessible through the monitor allows owners and operators to specify how long the machine should idle before shutting down the engine, which can save significant amounts of fuel.

The image of the rearview camera is displayed directly on the monitor.

MP3-Ready Radio and Power Supply

The standard radio is equipped with a new auxiliary audio port for MP3 players. Two 12 volt power supply sockets are located near key storage areas for charging.

Storage

Storage spaces are located in the front, rear, and side consoles. A dedicated space near the auxiliary power supply holds MP3 players and cell phones. The drink holder accommodates large mugs with handles, and a shelf behind the seat stores large lunch or toolboxes.

Automatic Climate Control

The climate control system features five air outlets with positive filtered ventilation, which makes working in the heat and cold much more pleasant.

Hydraulics

Power to move more dirt, rock, and debris with speed and precision

Main Control Valve and Auxiliary Valves

The 316E L uses a high-pressure system to tackle the toughest of work in short order. The machine features a highly efficient main control valve to improve fuel consumption; it also allows for greater tool versatility.

Swing Priority Circuit

Like the 315D, the E swing priority circuit uses a hydraulic valve to control swing priority.

Electric Boom Regeneration System

Like D Series the 316E L regenerates the flow of oil from the head-end of the boom cylinder to the rod-end of the boom cylinder during a boom down operation to save energy, which helps improve fuel efficiency. It is optimized for any dial speed setting being used by the operator, which results in less pressure loss for higher controllability, more productivity, and lower operating costs.

Structures & Undercarriage

Built to work in rugged environments

Frame

The upper frame includes reinforced mountings to support the Roll-Over Protective Structure (ROPS) cab; the lower frame is reinforced to increase component durability.

Undercarriage

Long undercarriage supports various work applications. The track rollers of the 316E L are a double solid-pin type design to improve reliability compared to the single solid-pin-type design.

A segmented two-piece guiding guard is now offered to help maintain track alignment and improve performance in multiple applications.

Counterweight

Built with an integrated rearview camera housing, the counterweight comes with integrated links to enable easy removal for maintenance or shipping.

Front Linkage

Made for high stress and long service life

Booms and Sticks

The 316E L comes standard with a 5.10 m (16'9") Reach Boom. Stick options include R2.25m (7'4"), R2.6m (8'6"), R2.9m (9'6") and a Cat Grade Control R2.6m (8'6"). Each is built with internal baffle plates for added durability, and each undergoes ultrasound inspection to ensure weld quality and reliability.

Large box-section structures with thick, multi-plate fabrications, castings, and forgings are used in high-stress areas such as the boom nose, boom foot, boom cylinder, and stick foot to improve durability.

The boom nose pin retention method is a bolted captured flag design. Also, the front linkage pins' inner bearing surfaces are welded, and a self-lubricated bearing is used to extend service intervals and increase uptime.

Selections

There is one basic boom option.

- The **Reach Boom** covers all the utility applications this size of machine was designed to take on such as digging dirt, moving rock, and doing the nearly endless amount of tasks you can do with Cat hydraulic work tools.

Work Tools

Dig, hammer, rip, and cut with confidence

An extensive range of Cat Work Tools for the 316E L includes buckets, compactors, grapples, multi-processors, scrap and demolition shears, rippers, crushers, pulverizers and hammers. Each is designed to optimize the versatility and performance of your machine.

Quick Couplers

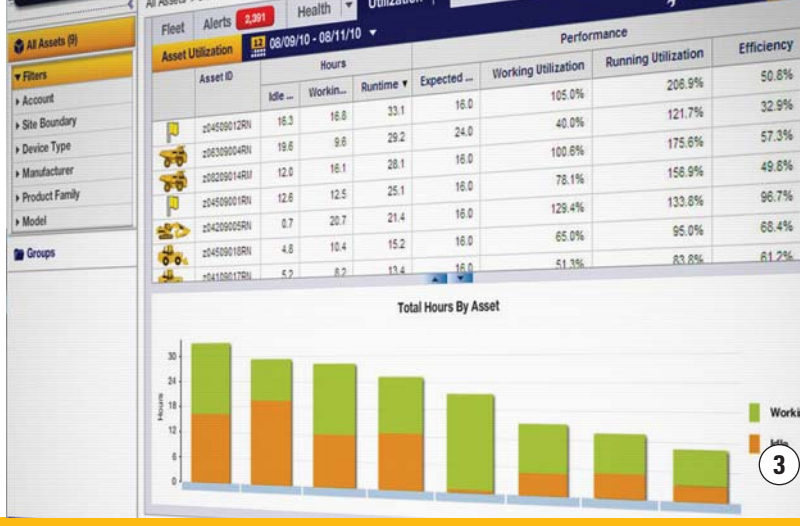
Quick couplers allow one person to change work tools in seconds for maximum performance and flexibility on a job site. One machine can move rapidly from task to task, and a fleet of similarly equipped machines can share a common work tool inventory.

Cat Center-Lock™ Pin Grabber Coupler

Center-Lock is the pin grabber style of coupler featuring a patented locking system. A highly visible lock clearly shows the operator when the coupler is engaged or disengaged from the bucket or work tool.

Buckets

Cat buckets are designed as an integral part of the 316E L system and feature new geometry for better performance. The leading edge has been pushed forward, resulting in more efficient filling and better operator control for greatly improved productivity. Wear coverage in the corners and side cutter and sidebar protector coverage are improved. All benefits are captured in a new bucket line with a new bucket naming convention.



Integrated Technologies

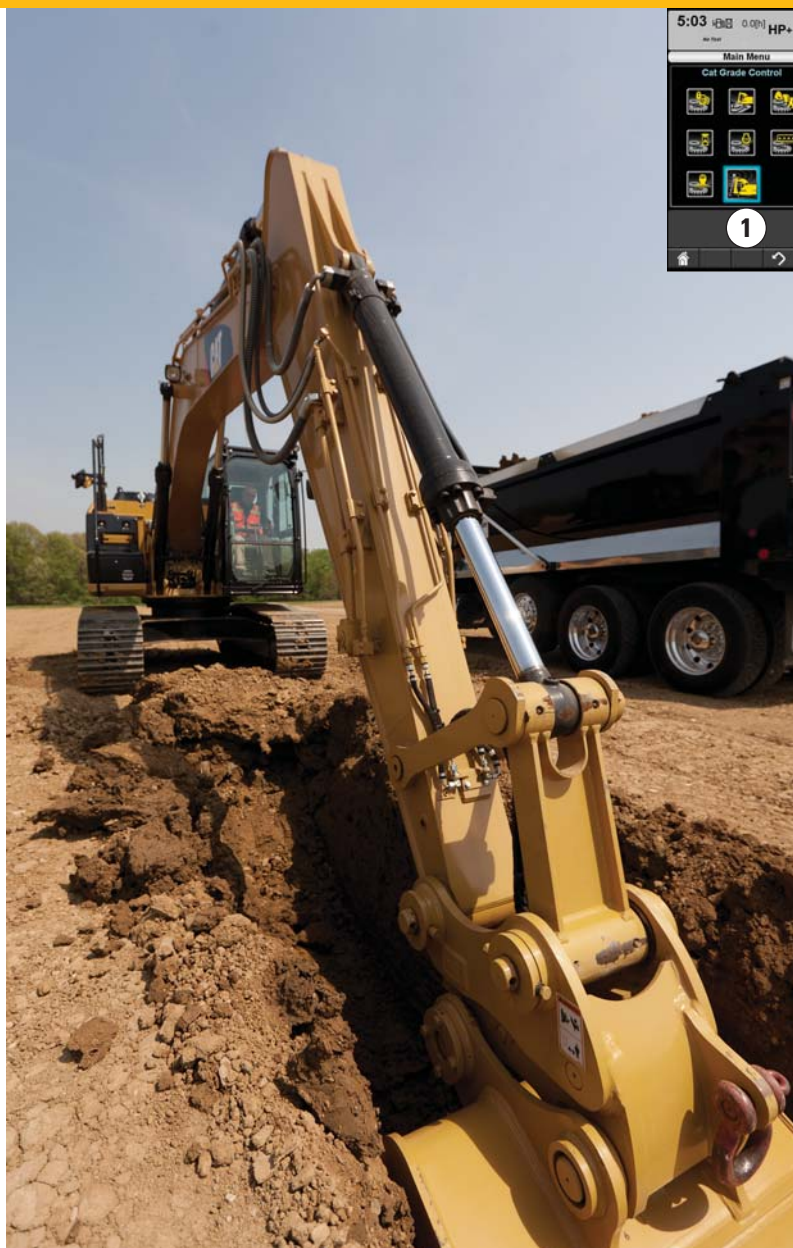
Solutions that make work easier and more efficient

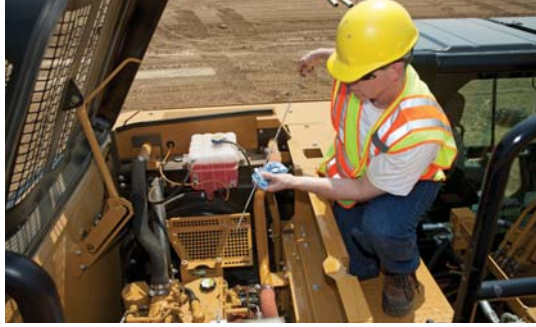
Cat Grade Control Depth and Slope

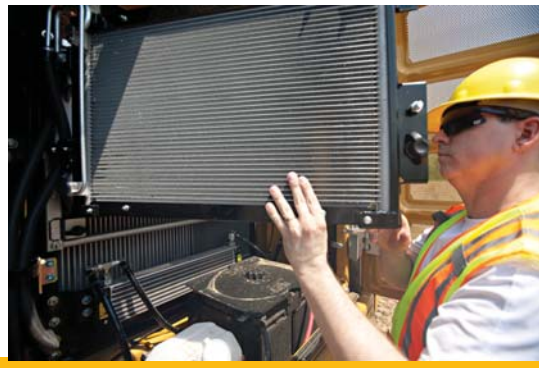
This optional system combines traditional machine control and guidance with standard factory-installed and calibrated components, making the system ready to go to work the moment it leaves the factory. The system utilizes internal front linkage sensors – well protected from the harsh working environment – to give operators real-time bucket tip position information through the cab monitor (1), which minimizes the need and cost for traditional grade checking and improves job site safety. It also helps the operator complete jobs in fewer cycles, which means less fuel use. Cat dealers can upgrade the system to full three-dimensional control by adding proven Cat AccuGrade™ positioning technologies, including GPS and Universal Total Station (UTS).

Cat Product Link™

This deeply integrated machine monitoring system (2 and 3) is designed to help customers improve their overall fleet management effectiveness. Events and diagnostic codes as well as hours, fuel consumption, idle time, machine location, and other detailed information are transmitted to a secure web based application called VisionLink™, which uses powerful tools to communicate to users and dealers.







Serviceability

Fast, easy and safe access built in

Service Doors

Wide service doors feature sturdier hinges and latches and a new screen design to help prevent debris entry; a one piece hood provides easier access to the engine and cooling compartments.

Compartments

The radiator, pump, and air cleaner compartments provide easy access to major components. The fresh air filter is located on the side of the cab to make it easy to reach and replace as needed.

Other Service Benefits

The water separator with water level sensor has a primary fuel filter element located in the pump compartment near ground level; the electric priming pump is individually mounted before the primary filter base and is easy to service compared to a traditional hand-priming pump.

The fuel tank features a remote drain cock located in the pump compartment to make it easy to remove water and sediment during maintenance.

The engine oil check gauge is situated in front of the engine compartment for easy access, and a uniquely designed drain cock helps prevent spills.

Safety

Features to help protect people

ROPS Cab

The ROPS-certified cab is built to accommodate a Falling Object Guard Structure (FOGS), which is important in waste and demolition applications.

Sound Proofing

Sealing and cab roof lining significantly lower noise levels inside the cab during machine operation.

Anti-Skid Plates

The surface of the upper structure and the top of the storage box area are covered with anti-skid plates to help prevent service personnel and operators from slipping during maintenance.

Steps, Hand and Guard Rails

Steps on the track frame and storage box along with extended hand and guard rails (2) to the upper deck enable operators to securely work on the machine.

Time Delay Lights

With light switch ON, after the engine start key has been turned to the "OFF" position, cab and boom lights will illuminate to enhance visibility. The time delay can vary from 0 to 90 seconds, which can be set through the monitor.

High Intensity Discharge (HID) Lights

Halogen lights are standard, but they can be upgraded to HID for greater visibility.

Visibility – Windows

The 70/30 split configuration features an upper window equipped with handles on the top and both sides so the operator can slide it to store in the ceiling. The lower window is removable and can be stored on the left wall of the cab shell.

The large skylight provides great overhead visibility, excellent natural lighting, and good ventilation. The skylight can be opened completely to become an emergency exit.

Wiper System

The upper and lower windshield wipers maximize visibility in poor weather conditions and do not obstruct visibility when not in use.

Monitor Warning System

The monitor is equipped with a buzzer that can warn operators of critical events so they can take any necessary action.

Rearview Camera

The rearview camera is housed in the counterweight. The image projects through the cab monitor to give the operator a clear view of what is behind the machine.

Complete Customer Care

Service you can count on

Product Support

Cat dealers utilize a worldwide parts network to maximize your machines' uptime. Plus they can help you save money with Cat remanufactured components.

Machine Selection

What are the job requirements and machine attachments? What production is needed? Your Cat dealer can provide recommendations to help you make the right machine choices.

Purchase

Consider financing options and day-to-day operating costs. Look at dealer services that can be included in the machine's cost to yield lower owning and operating costs over time.

Customer Support Agreements

Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet your specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

Operation

Improving operating techniques can boost your profits. Your Cat dealer has videos, literature, and other ideas to help you increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

Replacement

Repair, rebuild, or replace? Your Cat dealer can help you evaluate the cost involved so you can make the best choice for your business.

Sustainability

Generations ahead in every way

- The C4.4 ACERT engine, along with the Cat Clean Emissions Module (CEM), meets U.S. Environmental Protection Agency (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards.
- Even when operating in high horsepower and high production applications, the 316E L performs a similar amount of work while burning up to 8% less fuel than the previous D Series model. This means more efficiency, less resources consumed, and fewer CO_2 emissions.
- The 316E L has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 mg/kg of sulfur or less or biodiesel (biodiesel fuel 20% mixture meeting ASTM 6751 or EN 14214) fuel blended with ULSD.
- A platform – level overfill indicator for fuel tank rises when the tank is full to help the operator avoid spilling.
- The QuickEvac™ standard ensures fast, easy, and secure changing of engine and hydraulic oil.
- The 316E L is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- An engine oil filter is designed so that it eliminates the need for painted metal cans and aluminum top plates. The cartridge-style spin-on housing enables the internal filter to be separated and replaced.
- The 316E L is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

316E L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C4.4 ACERT	
Engine Power – ISO 14396	89 kW	119 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in^3

Weights

Minimum Operating Weight*	17 200 kg	37,920 lb
Maximum Operating Weight**	17 800 kg	39,242 lb

*Long Undercarriage, 5.1 m (16'9") reach boom, R2.25m (7'5") stick, 2.8 mt (3.09 t) counterweight, 0.76 m^3 (0.994 yd^3) bucket, 500 mm (20") TG shoes.

**Long Undercarriage, 5.1 m (16'9") reach boom, R2.9m (9'6") stick, 2.8 mt (3.09 t) counterweight, 0.76 m^3 (0.994 yd^3) bucket, 700 mm (28") TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	2 × 150 L/min	2 × 40 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	22 600 kPa	3,278 psi
Pilot System – Maximum Flow	25.8 L/min	1,574 in^3/min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1193 mm	47 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1331 mm	52 in
Bucket Cylinder – Bore	110 mm	4 in
Bucket Cylinder – Stroke	1039 mm	41 in

Drive

Maximum Travel Speed	5.2 km/h	3.2 mph
Maximum Drawbar Pull	156.2 kN	35,115 lbf

Swing Mechanism

Swing Speed	9.3 rpm	
Swing Torque	44.7 kN·m	32,969 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	290 L	76.61 gal
Cooling System	24 L	6.34 gal
Engine Oil (with filter)	13.5 L	3.57 gal
Swing Drive (each)	2.4 L	0.63 gal
Final Drive (each)	5 L	1.32 gal
Hydraulic System (including tank)	190 L	50.19 gal
Hydraulic Tank	106 L	28.00 gal

Track

Number of Shoes (each side)	44 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Sound Performance

ISO 6396	
Operator Sound	71 dB(A)
ISO 6395	
Spectator Sound	101 dB(A)

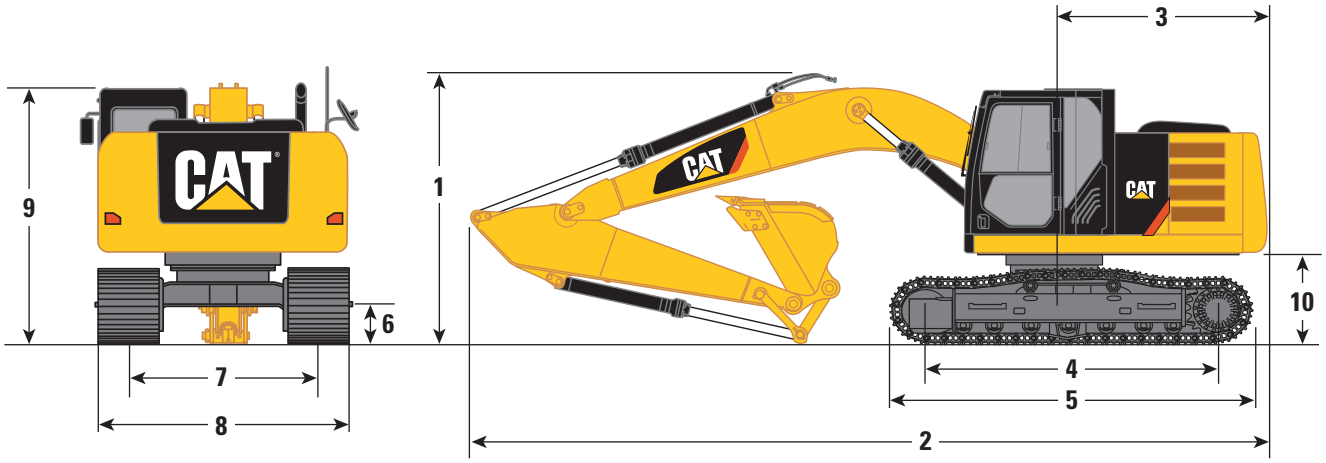
- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6394:1998, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2004/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in a noisy environment.

Standards

Brakes	ISO 10265 2008
ROPS Cab	ISO 12117-2
Cab/OPG	ISO 10262 1998

Dimensions

All dimensions are approximate.



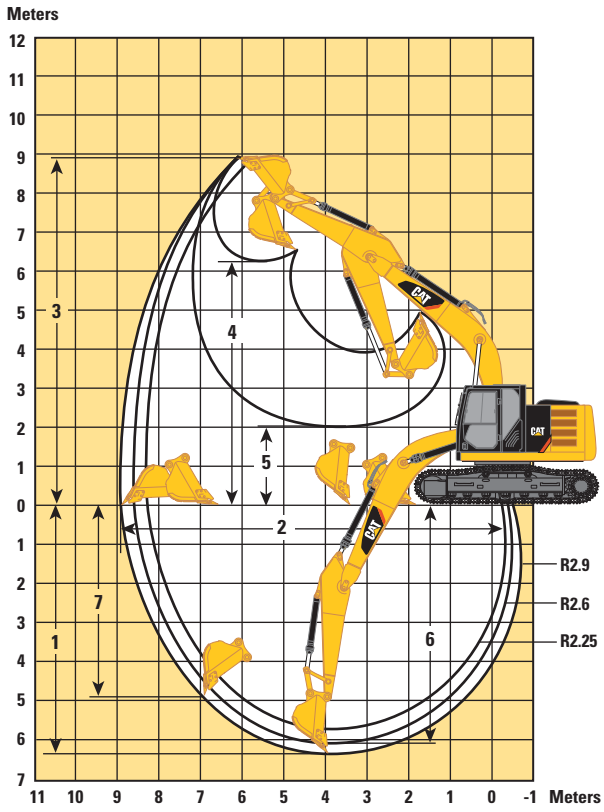
		Reach Boom 5.1 m (16'9")		
	Stick	**R2.9 (9'6")**	**R2.6 (8'6")**	**R2.25 (7'4")**
1	Shipping Height*	3090 mm (10'2")	3090 mm (10'2")	3090 mm (10'2")
	Shipping Height at Boom Top	3080 mm (10'1")	3020 mm (9'11")	2920 mm (9'7")
	Shipping Height with Guard Rail	3090 mm (10'2")	3090 mm (10'2")	3090 mm (10'2")
	Shipping Height with Top Guard	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
2	Shipping Length	8580 mm (28'2")	8570 mm (28'1")	8550 mm (28'1")
3	Tail Swing Radius	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")
4	Length to Center of Rollers	3170 mm (10'5")	3170 mm (10'5")	3170 mm (10'5")
5	Track Length	3970 mm (13'0")	3970 mm (13'0")	3970 mm (13'0")
6	Ground Clearance	440 mm (1'5")	440 mm (1'5")	440 mm (1'5")
7	Track Gauge	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
8	Transport Width			
	500 mm (20") Shoes	2520 mm (8'3")	2520 mm (8'3")	2520 mm (8'3")
	600 mm (24") Shoes	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
	700 mm (28") Shoes	2690 mm (8'10")	2690 mm (8'10")	2690 mm (8'10")
9	Cab Height	2890 mm (9'6")	2890 mm (9'6")	2890 mm (9'6")
	Cab Height with Top Guard	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
10	Counterweight Clearance**	1010 mm (3'4")	1010 mm (3'4")	1010 mm (3'4")
Bucket Capacity (General Duty)		0.76 m^3 (0.994 yd^3)	0.76 m^3 (0.994 yd^3)	0.76 m^3 (0.994 yd^3)
Bucket Tip Radius		1380 mm (4'6")	1380 mm (4'6")	1380 mm (4'6")

*Including shoe lug height.

**Without shoe lug height.

Working Ranges

All dimensions are approximate.



		Reach Boom 5.1 m (16'9")		
	Stick	**R2.9 (9'6")**	**R2.6 (8'6")**	**R2.25 (7'4")**
1	Maximum Digging Depth	6390 mm (21'0")	6090 mm (20'0")	5740 mm (18'11")
2	Maximum Reach at Ground Level	8990 mm (29'6")	8780 mm (28'10")	8460 mm (27'9")
3	Maximum Cutting Height	8880 mm (29'2")	8920 mm (29'3")	8740 mm (28'8")
4	Maximum Loading Height	6270 mm (20'7")	6280 mm (20'7")	6110 mm (20'1")
5	Minimum Loading Height	2000 mm (6'7")	2300 mm (7'7")	2650 mm (8'8")
6	Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6160 mm (20'3")	5870 mm (19'3")	5500 mm (18'1")
7	Maximum Vertical Wall Digging Depth	4910 mm (16'1")	4930 mm (16'2")	4490 mm (14'9")

Operating Weight and Ground Pressure

	700 mm (28") Triple Grouser Shoes				600 mm (24") Triple Grouser Shoes				500 mm(20") Triple Grouser Shoes			
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Reach Boom – 5.10 m (16'9")												
R2.9 (9'6")	17 800	39,242	36	5.22	17 600	38,801	42	6.09	17 300	38,140	49	7.11
R2.6 (8'6")	17 700	39,022	36	5.22	17 500	38,581	41	5.95	17 300	38,140	49	7.11
R2.25 (7'4")	17 700	39,022	36	5.22	17 500	38,581	41	5.95	17 200	37,920	49	7.11

All weights are rounded up to nearest 100 kg and lb including General Duty 0.76 m^3 (0.994 yd^3) bucket (610 kg [1,344.8 lb]). Kg and lb were rounded up separately so some of the kg and lb do not match.

Actual weight will depend on final machine configuration.

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	5720 kg	12,610 lb
Long Undercarriage	3770 kg	8,310 lb
Counterweight – 2.8 mt (3.09 t)	2800 kg	6,170 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 5.10 m (16'9")	1320 kg	2,910 lb
Stick (includes lines, pins, bucket cylinder, and bucket linkage)		
R2.9 (9'6")	910 kg	2,010 lb
R2.6 (8'6")	840 kg	1,850 lb
R2.25 (7'4")	810 kg	1,790 lb
Track Shoe (Long/per two tracks)		
500 mm (20") Triple Grouser	2190 kg	4,830 lb
600 mm (24") Triple Grouser	2420 kg	5,340 lb
700 mm (28") Triple Grouser	2650 kg	5,840 lb

All weights are round up to nearest 10 kg and lb except for quick coupler and buckets. Kg and lb were rounded up separately so some of the kg and lb do not match.

Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.

Actual weight will depend on final machine configuration.

Bucket and Stick Forces

	Reach Boom 5.10 m (16'9")					
Stick	**R2.9 (9'6")**		**R2.6 (8'6")**		**R2.25 (7'4")**	
General Duty						
Bucket Digging Force (ISO)	111 kN	25,000 lb	111 kN	25,000 lb	111 kN	25,000 lb
Stick Digging Force (ISO)	75 kN	16,900 lb	80 kN	18,000 lb	88 kN	19,800 lb

Reach Boom Lift Capacities

 Load Point Height  Load at Maximum Reach  Load Radius Over Front  Load Radius Over Side

Boom – 5.10 m (16'9") **Counterweight** – 2.8 mt (3.09 t) **Bucket** – None

Stick – R2.25 (7'4") **Shoes** – 500 mm (20") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*3950	*3950	4.23
6.0 m **20.0 ft**	kg **lb**					***9,600**	***9,600**			*3400 ***7,500**	*3400 ***7,500**	5.79 **18.75**
4.5 m **15.0 ft**	kg **lb**					*5000 ***10,850**	*5000 ***10,850**	*4600 ***10,000**	3250 **6,950**	*3250 ***7,200**	2750 **6,050**	6.67 **21.77**
3.0 m **10.0 ft**	kg **lb**					*6250 ***13,450**	4700 **10,150**	5000 **10,750**	3100 **6,700**	*3350 ***7,300**	2400 **5,250**	7.12 **23.34**
1.5 m **5.0 ft**	kg **lb**					*7450 ***16,100**	4400 **9,500**	4850 **10,450**	3000 **6,400**	*3550 ***7,850**	2300 **5,000**	7.24 **23.76**
Ground Line	kg **lb**			*5600 ***12,950**	*5600 ***12,950**	7300 **15,700**	4250 **9,100**	4750 **10,200**	2900 **6,200**	3800 **8,350**	2350 **5,100**	7.04 **23.10**
–1.5 m **– 5.0 ft**	kg **lb**	*6100 ***13,600**	*6100 ***13,600**	*10 800 ***24,600**	7700 **16,550**	7250 **15,550**	4200 **9,000**	4700 **10,150**	2850 **6,150**	4250 **9,350**	2600 **5,700**	6.49 **21.25**
–3.0 m **–10.0 ft**	kg **lb**			*10 150 ***21,900**	7850 **16,900**	*7150 ***15,300**	4250 **9,200**			5450 **12,200**	3300 **7,300**	5.48 **17.83**

Boom – 5.10 m (16'9") **Counterweight** – 2.8 mt (3.09 t) **Bucket** – None

Stick – R2.6 (8'6") **Shoes** – 500 mm (20") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**					***7,500**	***7,500**					*3250 ***7,300**	*3250 ***7,300**	4.76 **15.09**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	3300 ***6,450**			*2850 ***6,350**	*2850 ***6,350**	6.18 **20.05**
4.5 m **15.0 ft**	kg **lb**					*4600 ***10,000**	*4600 ***10,000**	*4300 ***9,400**	3300 **7,000**			*2750 ***6,100**	2550 **5,600**	7.01 **22.89**
3.0 m **10.0 ft**	kg **lb**			*8850 ***18,850**	8750 ***18,850**	*5900 ***12,650**	4800 **10,300**	*4800 ***10,450**	3150 **6,750**			*2800 ***6,200**	2250 **4,950**	7.44 **24.39**
1.5 m **5.0 ft**	kg **lb**					*7200 ***15,550**	4450 **9,600**	4900 **10,500**	3000 **6,400**	*3400	2150	*3000 ***6,600**	2150 **4,700**	7.56 **24.80**
Ground Line	kg **lb**			*6250 ***14,400**	*6250 ***14,400**	7300 **15,700**	4250 **9,100**	4750 **10,200**	2900 **6,200**			*3400 ***7,450**	2200 **4,750**	7.36 **24.16**
–1.5 m **– 5.0 ft**	kg **lb**	*5750 ***12,800**	*5750 ***12,800**	*10 150 ***23,100**	7650 **16,400**	7250 **15,500**	4150 **8,950**	4700 **10,100**	2850 **6,100**			3900 **8,650**	2400 **5,250**	6.84 **22.40**
–3.0 m **–10.0 ft**	kg **lb**	*9950 ***22,400**	*9950 ***22,400**	*10 750 ***23,200**	7800 **16,700**	7300 **15,650**	4200 **9,050**					4900 **10,850**	2950 **6,550**	5.89 **19.19**
–4.5 m **–15.0 ft**	kg **lb**			*7750 ***16,300**	*7750 ***16,300**							*5400 ***11,900**	4850 **11,100**	4.23 **13.51**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays within ± 5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

316E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.10 m (16'9")
Stick – R2.9 (9'6")
Counterweight – 2.8 mt (3.09 t)
Shoes – 500 mm (20") triple grouser
Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**											*2950 ***6,500**	*2950 ***6,500**	5.08 **16.21**
6.0 m **20.0 ft**	kg **lb**							*3650 ***7,350**	3350 **7,150**			*2650 ***5,800**	*2650 ***5,800**	6.43 **20.89**
4.5 m **15.0 ft**	kg **lb**							*4050 ***8,850**	3300 **7,050**			*2550 ***5,650**	2400 **5,350**	7.23 **23.63**
3.0 m **10.0 ft**	kg **lb**			*8000 ***17,000**	*8000 ***17,000**	*5500 ***11,900**	4800 **10,400**	*4600 ***10,000**	3150 **6,750**	*3300 ***6,050**	2200 **4,750**	*2650 ***5,800**	2150 **4,700**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7100 ***17,000**	*7100 ***17,000**	*6900 ***14,900**	4450 **9,600**	4850 **10,450**	3000 **6,400**	3500 **7,500**	2150 **4,600**	*2850 ***6,250**	2050 **4,450**	7.77 **25.48**
Ground Line	kg **lb**			*7050 ***16,150**	*7050 ***16,150**	7300 **15,650**	4200 **9,050**	4750 **10,150**	2850 **6,100**	3450	2100	*3200 ***7,050**	2050 **4,500**	7.58 **24.87**
–1.5 m **– 5.0 ft**	kg **lb**	*5700 ***12,750**	*5700 ***12,750**	*10 100 ***22,900**	7550 **16,150**	7200 **15,400**	4100 **8,850**	4650 **10,000**	2800 **6,000**			3700 **8,150**	2250 **4,950**	7.07 **23.16**
–3.0 m **–10.0 ft**	kg **lb**	*9300 ***20,850**	*9300 ***20,850**	*11 100 ***23,950**	7650 **16,400**	7200 **15,450**	4150 **8,900**	4700 **10,100**	2800 **6,050**			4550 **10,050**	2750 **6,050**	6.16 **20.07**
–4.5 m **–15.0 ft**	kg **lb**			*8550 ***18,150**	7950 **17,050**	*5700	4350					*5550 ***12,150**	4200 **9,550**	4.60 **14.75**

Boom – 5.10 m (16'9")
Stick – R2.25 (7'4")
Counterweight – 2.8 mt (3.09 t)
Shoes – 600 mm (24") triple grouser
Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*3950	*3950	4.23
6.0 m **20.0 ft**	kg **lb**					***9,600**	***9,600**			*3400 ***7,500**	*3400 ***7,500**	5.79 **18.75**
4.5 m **15.0 ft**	kg **lb**					*5000 ***10,850**	*5000 ***10,850**	*4600 ***10,000**	3300 **7,000**	*3250 ***7,200**	2750 **6,100**	6.67 **21.77**
3.0 m **10.0 ft**	kg **lb**					*6250 ***13,450**	4750 **10,300**	*5050 **10,900**	3150 **6,750**	*3350 ***7,300**	2450 **5,350**	7.12 **23.34**
1.5 m **5.0 ft**	kg **lb**					*7450 ***16,100**	4450 **9,600**	4900 **10,550**	3000 **6,500**	*3550 ***7,850**	2300 **5,050**	7.24 **23.76**
Ground Line	kg **lb**			*5600 ***12,950**	*5600 ***12,950**	7400 **15,850**	4300 **9,200**	4800 **10,350**	2900 **6,250**	3850 **8,450**	2350 **5,150**	7.04 **23.10**
–1.5 m **– 5.0 ft**	kg **lb**	*6100 ***13,600**	*6100 ***13,600**	*10 800 ***24,600**	7800 **16,750**	7350 **15,750**	4250 **9,150**	4800 **10,300**	2900 **6,200**	4300 **9,450**	2600 **5,750**	6.49 **21.25**
–3.0 m **–10.0 ft**	kg **lb**			*10 150 ***21,900**	7950 **17,100**	*7150 ***15,300**	4300 **9,300**			5550 ***12,250**	3350 **7,400**	5.48 **17.83**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays within ± 5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.10 m (16'9")
Stick – R2.6 (8'6")
Counterweight – 2.8 mt (3.09 t)
Shoes – 600 mm (24") triple grouser
Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**					 ***7,500**	 ***7,500**					*3250 ***7,300**	*3250 ***7,300**	4.76 **15.09**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	3350 ***6,450**			*2850 ***6,350**	*2850 ***6,350**	6.18 **20.05**
4.5 m **15.0 ft**	kg **lb**					*4600 ***10,000**	*4600 ***10,000**	*4300 ***9,400**	3300 **7,100**			*2750 ***6,100**	2550 **5,700**	7.01 **22.89**
3.0 m **10.0 ft**	kg **lb**			*8850 ***18,850**	*8850 ***18,850**	*5900 ***12,650**	4850 **10,400**	*4800 ***10,450**	3200 **6,850**			*2800 ***6,200**	2300 **5,000**	7.44 **24.39**
1.5 m **5.0 ft**	kg **lb**					*7200 ***15,550**	4500 **9,700**	4950 **10,600**	3050 **6,500**	*3400	2200	*3000 ***6,600**	2150 **4,750**	7.56 **24.80**
Ground Line	kg **lb**			*6250 ***14,400**	*6250 ***14,400**	7400 **15,900**	4300 **9,250**	4800 **10,350**	2900 **6,250**			*3400 ***7,450**	2200 **4,850**	7.36 **24.16**
–1.5 m **– 5.0 ft**	kg **lb**	*5750 ***12,800**	*5750 ***12,800**	*10 150 ***23,100**	7750 **16,600**	7350 **15,700**	4200 **9,100**	4750 **10,250**	2850 **6,150**			3950 **8,750**	2400 **5,350**	6.84 **22.40**
–3.0 m **–10.0 ft**	kg **lb**	*9950 ***22,400**	*9950 ***22,400**	*10 750 ***23,200**	7850 **16,900**	7400 **15,850**	4250 **9,200**					4950 **11,000**	3000 **6,650**	5.89 **19.19**
–4.5 m **–15.0 ft**	kg **lb**			*7750 ***16,300**	*7750 ***16,300**							*5400 ***11,900**	4900 **11,200**	4.23 **13.51**

Boom – 5.10 m (16'9")
Stick – R2.9 (9'6")
Counterweight – 2.8 mt (3.09 t)
Shoes – 600 mm (24") triple grouser
Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**											*2950 ***6,500**	*2950 ***6,500**	5.08 **16.21**
6.0 m **20.0 ft**	kg **lb**							*3650 ***7,350**	3400 **7,250**			*2650 ***5,800**	*2650 ***5,800**	6.43 **20.89**
4.5 m **15.0 ft**	kg **lb**							*4050 ***8,850**	3350 **7,150**			*2550 ***5,650**	2450 **5,400**	7.23 **23.63**
3.0 m **10.0 ft**	kg **lb**			*8000 ***17,000**	*8000 ***17,000**	*5500 ***11,900**	4900 **10,500**	*4600 ***10,000**	3200 **6,850**	*3300 ***6,050**	2250 **4,800**	*2650 ***5,800**	2150 **4,800**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7100 ***17,000**	*7100 ***17,000**	*6900 ***14,900**	4500 **9,700**	4950 **10,600**	3000 **6,500**	3550 **7,600**	2200 **4,650**	*2850 ***6,250**	2050 **4,550**	7.77 **25.48**
Ground Line	kg **lb**			*7050 ***16,150**	*7050 ***16,150**	7400 **15,850**	4250 **9,150**	4800 **10,300**	2900 **6,200**	3500	2100	*3200 ***7,050**	2100 **4,600**	7.58 **24.87**
–1.5 m **– 5.0 ft**	kg **lb**	*5700 ***12,750**	*5700 ***12,750**	*10 100 ***22,900**	7650 **16,350**	7250 **15,600**	4150 **8,950**	4700 **10,150**	2800 **6,050**			3750 **8,250**	2300 **5,000**	7.07 **23.16**
–3.0 m **–10.0 ft**	kg **lb**	*9300 ***20,850**	*9300 ***20,850**	*11 100 ***23,950**	7750 **16,600**	7300 **15,650**	4200 **9,000**	4750 **10,250**	2850 **6,150**			4600 **10,200**	2750 **6,100**	6.16 **20.07**
–4.5 m **–15.0 ft**	kg **lb**			*8550 ***18,150**	8000 **17,250**	*5700	4400					*5550 ***12,150**	4250 **9,650**	4.60 **14.75**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays within ± 5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

316E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.10 m (16'9")
Stick – R2.25 (7'4")

Counterweight – 2.8 mt (3.09 t)
Shoes – 700 mm (28") triple grouser with step

Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*3950	*3950	4.23
6.0 m **20.0 ft**	kg **lb**					***9,600**	***9,600**			*3400 ***7,500**	*3400 ***7,500**	5.79 **18.75**
4.5 m **15.0 ft**	kg **lb**					*5000 ***10,850**	*5000 ***10,850**	*4600 ***10,000**	3300 **7,100**	*3250 ***7,200**	2800 **6,200**	6.67 **21.77**
3.0 m **10.0 ft**	kg **lb**					*6250 ***13,450**	4850 **10,400**	*5050 ***10,950**	3200 **6,850**	*3350 ***7,300**	2450 **5,400**	7.12 **23.34**
1.5 m **5.0 ft**	kg **lb**					*7450 ***16,100**	4500 **9,750**	5000 **10,700**	3050 **6,550**	*3550 ***7,850**	2350 **5,150**	7.24 **23.76**
Ground Line	kg **lb**			*5600 ***12,950**	*5600 ***12,950**	7500 **16,100**	4350 **9,350**	4900 **10,500**	2950 **6,350**	3900 **8,550**	2400 **5,250**	7.04 **23.10**
–1.5 m **– 5.0 ft**	kg **lb**	*6100 ***13,600**	*6100 ***13,600**	*10 800 ***24,600**	7900 **16,950**	7450 **16,000**	4300 **9,250**	4850 **10,450**	2950 **6,300**	4350 **9,600**	2650 **5,850**	6.49 **21.25**
–3.0 m **–10.0 ft**	kg **lb**			*10 150 ***21,900**	8050 **17,300**	*7150 ***15,300**	4400 **9,400**			*5550 ***12,250**	3400 **7,500**	5.48 **17.83**

Boom – 5.10 m (16'9")
Stick – R2.6 (8'6")

Counterweight – 2.8 mt (3.09 t)
Shoes – 700 mm (28") triple grouser with step

Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**					***7,500**	***7,500**					*3250 ***7,300**	*3250 ***7,300**	4.76 **15.09**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	3400 ***6,450**			*2850 ***6,350**	*2850 ***6,350**	6.18 **20.05**
4.5 m **15.0 ft**	kg **lb**					*4600 ***10,000**	*4600 ***10,000**	*4300 ***9,400**	3350 **7,200**			*2750 ***6,100**	2600 **5,750**	7.01 **22.89**
3.0 m **10.0 ft**	kg **lb**			*8850 ***18,850**	*8850 ***18,850**	*5900 ***12,650**	4900 **10,550**	*4800 ***10,450**	3200 **6,900**			*2800 ***6,200**	2300 **5,100**	7.44 **24.39**
1.5 m **5.0 ft**	kg **lb**					*7200 ***15,550**	4550 **9,800**	5000 **10,750**	3050 **6,600**	*3400	2250	*3000 ***6,600**	2200 **4,800**	7.56 **24.80**
Ground Line	kg **lb**			*6250 ***14,400**	*6250 ***14,400**	7500 **16,100**	4350 **9,350**	4900 **10,500**	2950 **6,350**			*3400 ***7,450**	2250 **4,900**	7.36 **24.16**
–1.5 m **– 5.0 ft**	kg **lb**	*5750 ***12,800**	*5750 ***12,800**	*10 150 ***23,100**	7850 **16,850**	7450 **15,950**	4300 **9,200**	4800 **10,350**	2900 **6,250**			4050 **8,850**	2450 **5,400**	6.84 **22.40**
–3.0 m **–10.0 ft**	kg **lb**	*9950 ***22,400**	*9950 ***22,400**	*10 750 ***23,200**	8000 **17,100**	*7450 ***16,000**	4350 **9,300**					5000 **11,150**	3050 **6,750**	5.89 **19.19**
–4.5 m **–15.0 ft**	kg **lb**			*7750 ***16,300**	*7750 ***16,300**							*5400 ***11,900**	4950 **11,350**	4.23 **13.51**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays within ± 5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.10 m (16'9")
Stick – R2.9 (9'6")

Counterweight – 2.8 mt (3.09 t)
Shoes – 700 mm (28") triple grouser with step

Bucket – None

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m **ft**
7.5 m **25.0 ft**	kg **lb**											*2950 ***6,500**	*2950 ***6,500**	5.08 **16.21**
6.0 m **20.0 ft**	kg **lb**							*3650 ***7,350**	3450 **7,350**			*2650 ***5,800**	*2650 ***5,800**	6.43 **20.89**
4.5 m **15.0 ft**	kg **lb**							*4050 ***8,850**	3350 **7,250**			*2550 ***5,650**	2500 **5,450**	7.23 **23.63**
3.0 m **10.0 ft**	kg **lb**			*8000 ***17,000**	*8000 ***17,000**	*5500 ***11,900**	4950 **10,600**	*4600 ***10,000**	3200 **6,900**	*3300 ***6,050**	2300 **4,850**	*2650 ***5,800**	2200 **4,850**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7100 ***17,000**	*7100 ***17,000**	*6900 ***14,900**	4550 **9,850**	5000 **10,750**	3050 **6,550**	3600 **7,700**	2200 **4,750**	*2850 ***6,250**	2100 **4,600**	7.77 **25.48**
Ground Line	kg **lb**			*7050 ***16,150**	*7050 ***16,150**	7500 **16,050**	4300 **9,300**	4850 **10,450**	2950 **6,300**	3500	2150	*3200 ***7,050**	2100 **4,650**	7.58 **24.87**
–1.5 m **– 5.0 ft**	kg **lb**	*5700 ***12,750**	*5700 ***12,750**	*10 100 ***22,900**	7750 **16,600**	7350 **15,800**	4200 **9,100**	4800 **10,300**	2850 **6,150**			3800 **8,400**	2300 **5,100**	7.07 **23.16**
–3.0 m **–10.0 ft**	kg **lb**	*9300 ***20,850**	*9300 ***20,850**	*11 100 ***23,950**	7850 **16 800**	7400 **15,900**	4250 **9,150**	4800 **10,350**	2900 **6,250**			4650 **10,300**	2800 **6,200**	6.16 **20.07**
–4.5 m **–15.0 ft**	kg **lb**			*8550 ***18,150**	8100 **17,450**	*5700	4450					*5550 ***12,150**	4300 **9,800**	4.60 **14.75**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays within ± 5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

316E L Work Tool Offering Guide*

Boom Type	Reach Boom		
Stick Size	**R2.9 (9'6")**	**R2.6 (8'6")**	**R2.25 (7'4")**
Hydraulic Hammer	H110Es H115Es H120Es	H110Es H115Es H120Es	H110Es H115Es H120Es
Multi-Processor			MP15 CC Jaw *** **** MP15 CR Jaw *** **** MP15 PS Jaw *** **** MP15 S Jaw ***
Crusher			P315 *** ****
Pulverizer			P215 ** #
Demolition and Sorting Grapple	G310B **	G310B	G310B G315B *** ****
Mobile Scrap and Demolition Shear	S325 ##	S325 ##	S325 ##
Compactor (Vibratory Plate)	CVP75	CVP75	CVP75
Contractors' Grapple	G115B	G115B	G115B
Orange Peel Grapple	These work tools are available for the 316E L. Consult your Cat dealer for proper match.		
Trash Grapple			
Thumbs			
Rakes			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

*Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

**Pin-on or CW coupler.

***Pin-on only.

****Over the front only.

#Over the front only with CW coupler.

##Boom Mount.

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Boom		
	mm	in	m^3	yd^3	kg	lb	%	R2.9	R2.6	R2.25
With Centerlock Quick Coupler										
General Duty (GD)	500	20	0.30	0.39	403	888	100%	●	●	●
	600	24	0.35	0.46	433	954	100%	●	●	●
	750	30	0.49	0.64	476	1049	100%	●	●	●
	900	36	0.62	0.81	537	1184	100%	◉	●	●
	1050	42	0.76	1.00	590	1301	100%	⊖	⊖	◉
	1200	48	0.91	1.19	645	1422	100%	○	○	⊖
						Maximum load pin-on (payload + bucket)	kg	1705	1815	1950
							lb	3,758	4,000	4,298

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Densities with 3.0 m (9'10") thumb stick do not consider thumb weight.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

316E L Standard Equipment

Standard Equipment

Standard equipment may vary. Consult your Cat dealer for details.

ENGINE

- C4.4 ACERT diesel engine
- Biodiesel capable
- Meets European Union Stage IIIB and U.S. Tier 4 Interim emission standards
- 2300 m altitude capability
- Electric priming pump
- Automatic engine speed control
- Economy and high power modes
- Two-speed travel
- Side-by-side cooling system (tilt-up ATAAC, swing-out A/C condenser)
- Radial seal air filter
- Primary filter with water separator and water separator indicator
- Standard battery, –18° C (–0.4° F)
- Screen filter in fuel line
- Secondary fuel filter

HYDRAULIC SYSTEM

- Quick drains, engine and hydraulic oil (QuickEvac)
- Regeneration circuit for boom and stick
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Capability of installing HP stackable valve and medium and QC valve
- Capability of installing additional auxiliary pump and circuit

CAB

- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window (left-hand cab door)
- Glass-breaking safety hammer
- Removable lower windshield with in cab storage bracket
- Coat hook
- Beverage holder
- Literature holder
- AM/FM Radio with MP3 auxiliary audio port
- Two 12V stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with warning, filter/fluid change, and working hour information
- Adjustable armrest
- Height adjustable joystick consoles
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- Two power outlets, 10 amp (total)
- Laminated glass front window, 70/30 split (tempered glass for bottom front window)
- Sunscreen
- Seatbelt (76 mm [3"])
- Windshield wiper, lower with washer
- Seat, high-back air suspension heated and cooled
- Cab mirror
- Level sensor

FRONT LINKAGE

- Bucket linkage, with lifting eye

UNDERCARRIAGE

- Grease Lubricated Track GLT2, resin seal
- Towing eye on base frame
- Swivel guard

COUNTERWEIGHT

- 2.8 mt (3.09 t)

ELECTRICAL

- 80 amp alternator
- Circuit breaker
- Capability to electrically connect a beacon

LIGHTS

- Halogen boom lights (left and right)
- Time delay function for boom light and cab light
- Exterior lights integrated into storage box

SECURITY

- Cat one key security system
- Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- Secondary engine shutoff switch
- Openable skylight for emergency exit
- Guardrail and handrail
- Rearview camera
- Travel alarm

Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

ENGINE
- Cold weather battery, –25° C (–13° F)
- Air pre-filter

HYDRAULIC SYSTEM
- Auxiliary hydraulics
- Boom and stick High Pressure lines
- Boom and stick Medium Pressure lines
- Cat Bio hydraulic oil
- Boom lowering and stick lowering check valves
- Cat quick coupler line – high pressure capable

CAB
- Rain protector

UNDERCARRIAGE
- 500 mm (20") triple grouser shoes
- 600 mm (24") triple grouser shoes
- 700 mm (28") triple grouser shoes
- Full-length track guiding guard
- Center track guiding guard
- Segmented (2 piece) track guiding guard

FRONT LINKAGE
- Quick coupler
- Reach Boom (5.1 m [16'9"])
  - R2.6m CGC
  - 2.9 m (9'6") stick
  - 2.6 m (8'6") stick
  - 2.25 m (7'4") stick

LIGHTS
- Working lights, cab mounted with time delay
- HID lights, cab mounted with time delay
- Halogen boom lights (right side)

SECURITY
- FOGS, bolt-on
- Vandalism guard
- Guard, cab, front, mesh
- Side steel bumper

TECHNOLOGY
- Product Link
- Cat Grade Control

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.