318E L

Hydraulic Excavator

Engine		
Engine Model	Cat® C4.4 ACERT™	
Net Power – ISO 14396 (metric)	89 kW	121 hp
Net Power – ISO 14396 (imperial)	89 kW	119 hp

Drive		
Maximum Travel Speed	3.9 km/h	2.4 mph
Maximum Drawbar Pull	206.9 kN	46,513 lbf

Weights		
Minimum Operating Weight	18 600 kg	41,006 lb
Maximum Operating Weight	19 200 kg	42,329 lb

If you are looking for a productive, fuel-efficient, easy-to-operate-and-transport 18-ton machine, you will find it in the all-new 318E L.

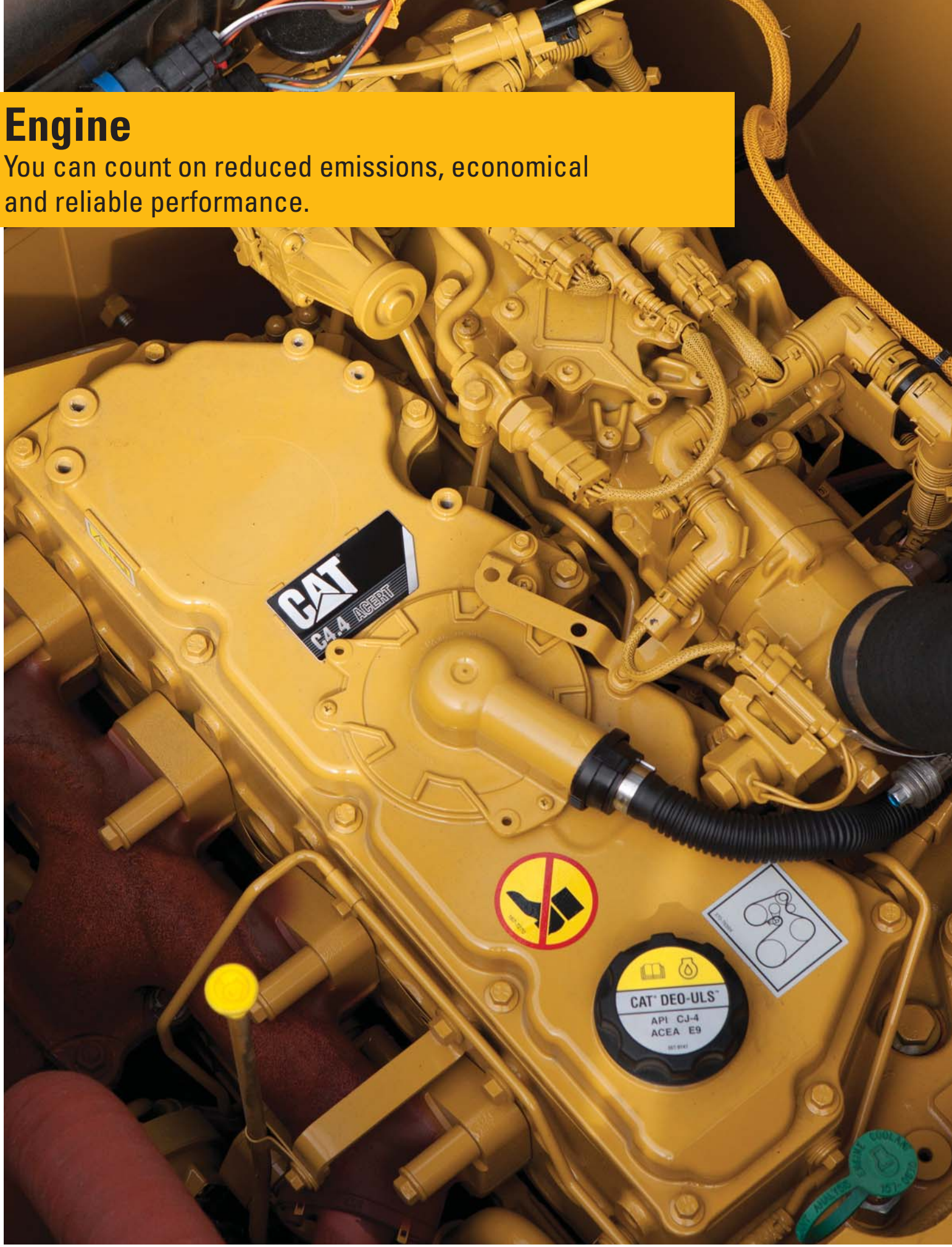
Built to meet U.S. Environmental Protection Agency (EPA) Tier 4 Interim emission standards, European Union Stage IIIB emission standards, and Japan MLIT Step 4 emission standards, the 318E L makes an excellent choice for people who need a well-balanced utility machine that delivers power and fuel economy in an easy-to-transport package. In fact, this new model comes equipped with several new features and benefits that will delight both owners and operators.

Contents

Since its introduction in the 1990s, the 300 Series family of excavators has become the industry standard for production and performance. The all-new E Series and the 318E L continue that trend-setting standard.

Engine

You can count on reduced emissions, economical and reliable performance.



The Cat C4.4 ACERT engine is built to meet your demanding needs all day every day.

There is no interruption to your job process as our new regeneration system works automatically with no operator intervention required.

Power Mode

The 318E L features two power modes: High power mode is when you need maximum production; economy mode is when you need to balance performance with fuel economy.

Two additional fuel-saving features are on demand engine power and engine idle shutdown. On demand engine power keeps engine speed low during light loading and automatically adjusts speed up when it senses a heavier load; engine idle shutdown automatically shuts the engine off when it's been idling for more than a specified amount of time that you set, which can save significant amounts of fuel, reduce your emissions and even reduce your accumulated service hours, which will extend service intervals and improve re-sale value.

Biodiesel-Ready Fuel System

You have added flexibility with the C4.4 ACERT engine because it's equipped to run on B20 biodiesel fuel. Just fill it up and go.

Hydraulics

You can move dirt, rock, and debris with speed, precision, and efficiency.

Hydraulic System

One of the biggest contributors to your productivity and fuel savings is a well-designed hydraulic system, and this is where Cat excavators stand apart. The 318E L is loaded with several unique features that will put more power to the ground with less money out of your pocket.

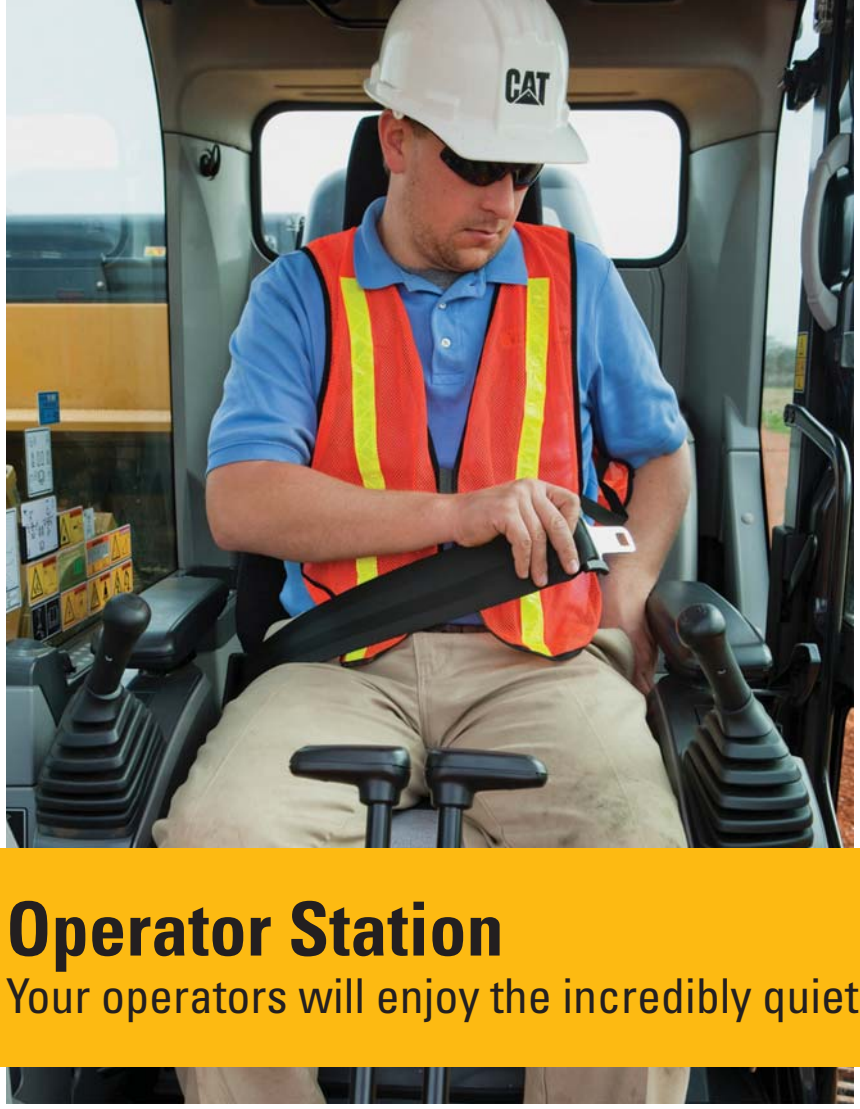
Pumps and Valves

The main control valve is built to work with any tool, allowing you to take on multiple tasks with one machine. The main pumps are located side by side and are driven directly by the engine for the highest level of efficiency to reduce your fuel costs.

Boom Regeneration

Electric boom regeneration results in less pressure loss, higher controllability, more productivity, and lower operating costs for you; it works by reusing the flow of oil that travels from the head of the boom cylinder to the rod end of the boom cylinder during your operator's everyday "boom down" operation.

During boom regeneration, engine speed is controlled to be low in order to save extra oil flow from going to the boom cylinders, which saves energy.



Seats

Three seat options help give your operators all the comfort they need for a long day of work. Air suspension, heated, and air-cooled seats are available. All seats include a reclining back, upper and lower seat slide adjustments, and height and tilt angle adjustments.

Operator Station

Your operators will enjoy the incredibly quiet and comfortable cab.

Controls

Your operators can adjust the right and left joysticks for individual preferences, helping the operator become more comfortable, more productive, and more alert.

Monitor

Your operators can keep safely focused on the job at hand with a high-resolution LCD monitor that is programmable in 42 languages to support today's diverse workforce. It also projects the image from the rearview camera, further enhancing your job site safety and productivity. The image of the rearview camera is displayed directly on the monitor. Up to two different camera images can be displayed on the screen.

Power Supply and Auxiliary Audio Port

To keep your operators happy, comfortable and connected, two 12-volt power supply sockets are located near key storage areas for charging electronic devices such as an MP3 player and cell phone.

Storage

Your operators can store their gear in storage spaces located in the front, rear, and side consoles. A dedicated space near the auxiliary power supply will hold an MP3 player and cell phone. The drink holder accommodates large mugs and a shelf behind the seat stores large lunch or toolboxes.

Automatic Climate Control

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

Structures & Undercarriage

You can take on a variety of tough tasks with this built-to-last machine.

Frame

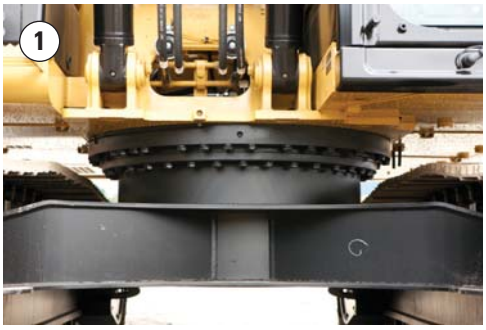
You can expect excellent quality, reliability, and durability with the 318E L's reinforced lower and upper frames (1). Both are built to handle a hard day's work over and over again.

Undercarriage

Long undercarriage (2) supports any type of work you can do with an 18-ton machine. The track rollers are a double solid-pin-type design to improve reliability; an optional two-piece guiding guard helps maintain track alignment.

Counterweight

Whether you're on flat ground hogging dirt or on a slope surgically placing rip rap over drainage pipe, the 3.4 mt (3.8 t) counterweight (3) provides plenty of weight out back to keep you balanced and productive. With integrated links, you can also easily – and safely – remove the counterweight for maintenance or shipping.



Work Tools

You can dig, hammer, rip, and cut with confidence.

You can extend the versatility and performance of your machine with the full lineup of Cat work tools. Each tool equips your machine to perform many different tasks found at a variety of job sites.

Couplers: Quick Tool Changes

Imagine the productivity you'll achieve with a quick coupler. Combine a robust coupler with a common work tool inventory that can be shared between same size machines, and you'll get performance and flexibility on every job.

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.

Work Tools: Cut, Crush, Pulverize, and Load

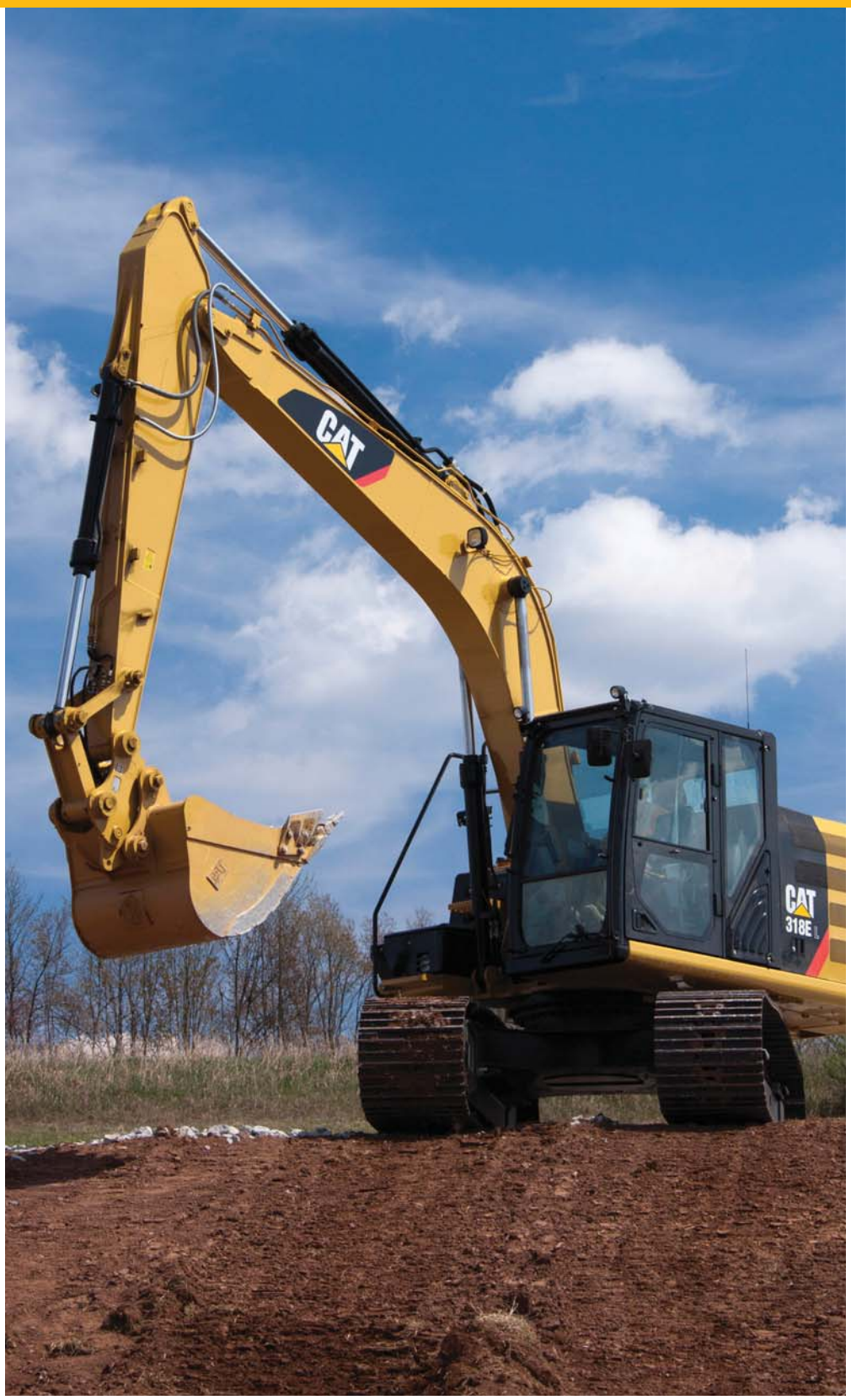
No matter your specialty, Caterpillar provides tools that are perfectly matched to get the most out of your Cat machine – quickly and efficiently.

Buckets: Dig, Move, Load

Cat buckets are designed to fill efficiently so you notice a fast, smooth cycle which means high productivity each time you dig. Wear characteristics of General Duty, Heavy Duty and Severe Duty buckets give you solid performance in a wide variety of material abrasions. Ditch cleaning and other specialty buckets are available when needed.

Front Linkage

You'll experience a long service life even in the harshest of conditions.



Your uptime and service intervals are increased with high quality, durable, and reliable booms, sticks, and linkage pins. Each boom and stick is built with internal baffle plates for additional durability, and each undergoes ultrasound inspection to ensure the expected Cat durability and reliability for any tough application you might take on.

Booms and Sticks

The 318E L is offered with a reach boom and four stick configurations: R3.1 m (10'2"), R2.9 m (9'2"), R2.6 m (8'6"), and R2.25 m (7'5").

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.

Integrated Technologies

You can make your team's work much easier and more efficient.

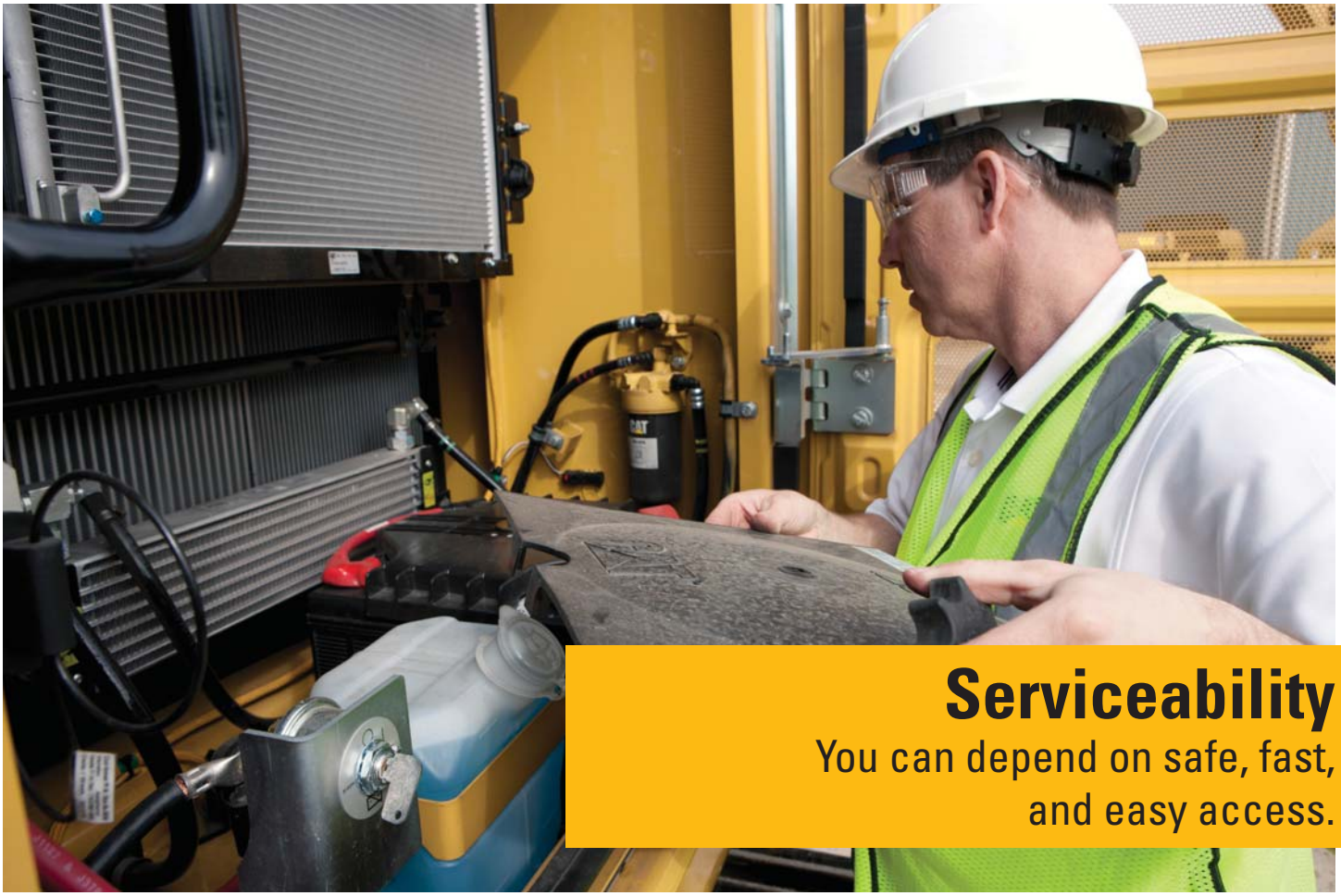
Cat Grade Control Depth and Slope

Cat Grade Control Depth and Slope is a standalone factory offering that allows your operator to reference a site elevation and input simple elevation and slope targets into the display to give them real-time bucket tip position through the cab monitor. This allows them to cut or fill to the target elevation the first time, which minimizes the need and cost for traditional grade checking. It also enhances job site safety and helps your team complete jobs quicker with fewer cycles, which means you'll save money on fuel.

For enhanced site features and more complex designs, Cat Grade Control Depth and Slope can be upgraded with Cat AccuGrade™ components like GPS and Universal Total Station (UTS). These positioning technologies interface with site infrastructure to allow your operators to know exactly where the bucket tip is in regards to an engineer's digital design, which saves your operators benching time and improves their productivity and accuracy.

Cat Product Link

You can monitor and improve your fleet management with Cat Product Link™. The integrated system reports events, diagnostic codes, hours, fuel consumption, location, and other pieces of detailed machine information to the secured web-based application called VisionLink™. The powerful tools within VisionLink™ communicate with you and your authorized Cat dealer to allow them to help you avoid downtime and better maintain your fleet.



Serviceability

You can depend on safe, fast, and easy access.

Ground-Level Compartments

Your service technicians have ground-level access to the radiator, pump, and air cleaner compartments through wide service doors, making it easy for them to reach, check, and replace fluids and filters.

Cooling System

The cooling package features an improved oil cooler and engine radiator design mounted side by side and the air-to-air aftercooler and A/C condenser mounted in front. The radiator uses an aluminum square wave fin to prevent clogging, and the air-to-air aftercooler swings up and A/C condenser swings out and out of the way to make cleaning cores easy – a major service convenience.

Other Service Benefits

- The fuel tank's remote drain cock makes it easy and simple to remove water and sediment during routine maintenance.
- Risk of overfilling the fuel tank is significantly reduced with an integrated fuel level indicator.

Safety

Several built-in features will help protect your people.

Roll-Over Protective Structure (ROPS) Cab

The ROPS cab provides your operator with enhanced protection in the event of a roll-over; it's also built to accommodate a Falling Object Guard Structure (FOGS), which is important in waste and demolition applications.

Sound Proofing

Roof lining and sealing make your operator's sound experience inside the cab comparable to any of today's top pickup trucks.

Anti-Skid Plates

Your operator and service technicians' slipping hazards are reduced with anti-skid plates on the surface of the upper structure and the top of the storage box area.

Steps, Hand and Guard Rails

Your service technicians can work securely on the machine with extended hand and guard rails to the upper deck and steps on the track frame and storage box.

Time Delay Lights

The cab and boom lights can be programmed to stay on for up to 90 seconds after the engine has been turned off to help your operators safely exit the machine.

High Intensity Discharge (HID) Lights

You can upgrade to HID lights (1) for greater visibility in low-light conditions.

Windows

You can easily store both the upper and lower windows in the cab (2). Your overhead visibility and lighting are enhanced with a large skylight that can double as an emergency exit.

Rearview Camera (ISO 9006)

Your operator has a clear view behind the machine through the monitor with the rearview camera, which is integrated in the counterweight for enhanced protection (3).

Complete Customer Care

Your Cat dealer will support you like no other.

Product Support

You can maximize your machines' uptime with the Cat worldwide dealer network. You can also decrease your repair costs by utilizing Cat remanufactured components while contributing to sustainable development.

Machine Selection

What are the job requirements and machine attachments? What production do you need? Your Cat dealer can provide recommendations to help you make the right machine configuration.

Purchase

You can ensure lower owning and operating costs by utilizing unique Cat dealer services and financing options.

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

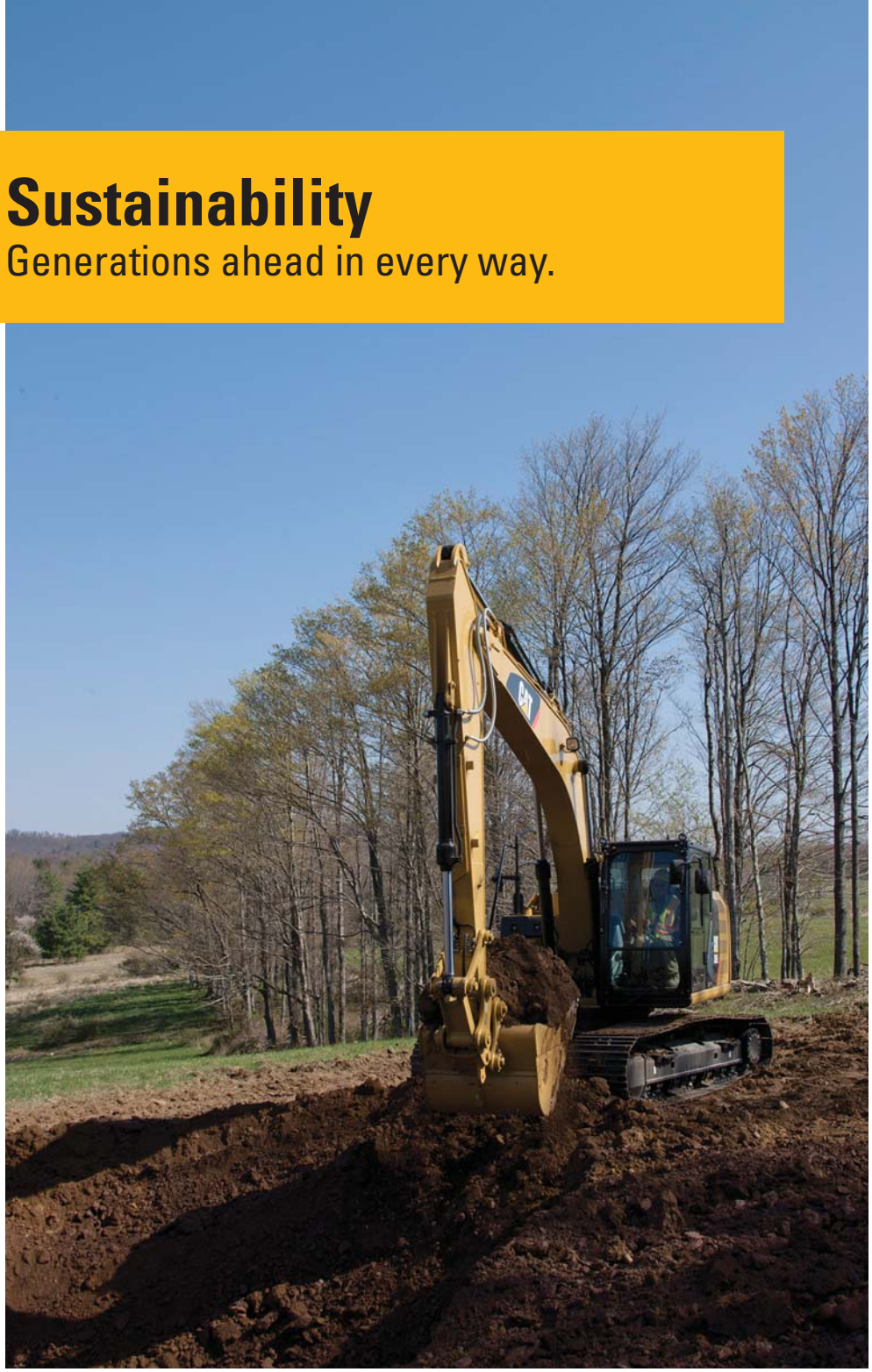
You can boost your profits by improving your operators' techniques. Your Cat dealer has videos, literature, and other ideas to help increase productivity. Caterpillar also offers simulators and certified operator training to help maximize the return on your investment.

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 318E L is an efficient, productive machine that's designed to conserve your financial resources for generations ahead.
- The C4.4 ACERT engine, along with the Cat Clean Emission 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.
- The 318E L has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 ppm of sulfur or less or biodiesel (B20) fuel blended with ULSD that meets ASTM 6751 or EN 14214 standards.
- An overfill indicator rises when the fuel tank is full to help your service technicians avoid spilling.
- You can ensure fast, easy, and secure changing of engine and hydraulic oil with the QuickEvac™ option.
- A unique engine oil filter 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 used internal element can be incinerated to help reduce waste.

Engine

Engine Model	Cat C4.4 ACERT	
Net Power – ISO 9249 (metric)	85 kW	115 hp
Net Power – ISO 9249 (imperial)	85 kW	113 hp
Power – ISO 14396 (metric)	89 kW	121 hp
Power – ISO 14396 (imperial)	89 kW	119 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	1.16 gal

Weights

Minimum Operating Weight*	18 600 kg	41,006 lb
Maximum Operating Weight**	19 200 kg	42,329 lb

*5.1 m (16'9") reach boom, 2.6 m (8'6") stick, 3.4 mt (3.8 t) counterweight, GD 0.91 m^3 (1.19 yd^3), 1200 mm (48") wide bucket with 1200 mm (48") tip radius, and 500 mm (20") shoes.

**5.1 m (16'9") reach boom, 3.1 m (10'2") stick, 3.4 mt (3.8 t) counterweight, GD 0.91 m^3 (1.19 yd^3), 1200 mm (48") wide bucket with 1200 mm (48") tip radius, and 700 mm (28") shoes.

Hydraulic System

Main System – Maximum Flow (Total)	2 × 150 L/min	2 × 40 gal/min
Maximum Pressure – Equipment (Boom Up)	35 000 kPa	5,076 psi
Maximum Pressure – Equipment (Other)	32 000 kPa	4,641 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	23 000 kPa	3,336 psi
Pilot System – Maximum Flow	26.1 L/min	1,593 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	130 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	3.9 km/h	2.4 mph
Maximum Drawbar Pull	206.9 kN	46,513 lbf

Swing Mechanism

Swing Speed	8.85 rpm	
Swing Torque	50.7 kN·m	37,394 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	8 L	2.11 gal
Final Drive (each)	8 L	2.11 gal
Hydraulic System (including tank)	121 L	31.96 gal
Hydraulic Tank	106 L	28.00 gal

Track

Number of Shoes (each side)	45 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Sound

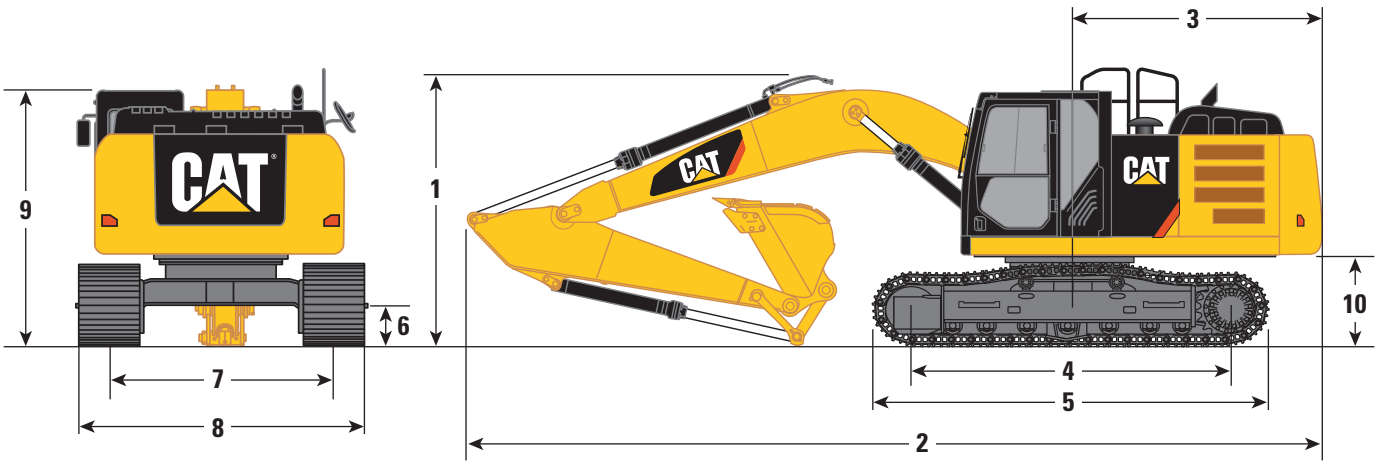
Operator – ISO 6396	71 dB(A)
Spectator – ISO 6396	101 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at the time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

318E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



		Reach Boom 5.1 m (16'9")			
	Stick	**R3.1 m (10'2")**	**R2.9 m (9'2")**	**R2.6 m (8'6")**	**R2.25 m (7'5")**
1	Shipping Height*	3390 mm (11'1")	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
	Shipping Height at Boom Top	3390 mm (11'1")	3090 mm (10'2")	3040 mm (10'0")	2930 mm (9'7")
	Shipping Height with Guard Rail	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
	Shipping Height with Top Guard	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
2	Shipping Length	8580 mm (28'2")	8590 mm (28'2")	8570 mm (28'1")	8560 mm (28'1")
3	Tail Swing Radius	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")
4	Length to Center of Rollers	3265 mm (10'9")	3265 mm (10'9")	3265 mm (10'9")	3265 mm (10'9")
5	Track Length	4075 mm (13'4")	4075 mm (13'4")	4075 mm (13'4")	4075 mm (13'4")
6	Ground Clearance	440 mm (1'5")	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")	1990 mm (6'6")
8	Transport Width				
	500 mm (20") Shoes	2520 mm (8'3")	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")	2590 mm (8'6")
	700 mm (28") Shoes	2690 mm (8'10")	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")	2890 mm (9'6")
	Cab Height with Top Guard	3100 mm (10'2")	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")	1010 mm (3'4")

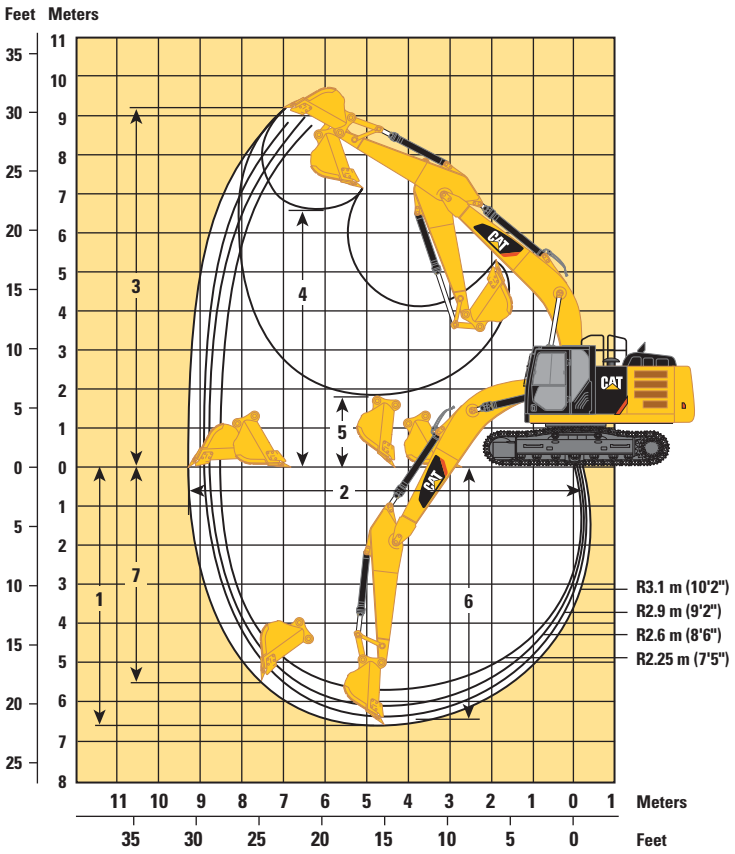
*Including shoe lug height.

**Without shoe lug height.

Reach boom dimensions were calculated with 1200 mm (48") width, GD 0.91 m^3 (1.19 yd^3) with 1380 mm (4'5") tip radius bucket.

Working Ranges

All dimensions are approximate.



	Reach Boom 5.1 m (16'9")			
Stick	**R3.1 m (10'2")**	**R2.9 m (9'2")**	**R2.6 m (8'6")**	**R2.25 m (7'5")**
1 Maximum Digging Depth	6590 mm (21'7")	6390 mm (21'0")	6090 mm (20'0")	5740 mm (18'11")
2 Maximum Reach at Ground Level	9260 mm (30'5")	8990 mm (29'6")	8780 mm (28'10)	8460 mm (27'9")
3 Maximum Cutting Height	9220 mm (30'3")	8880 mm (29'2")	8930 mm (29'4")	8750 mm (28'8")
4 Maximum Loading Height	6570 mm (21'7")	6280 mm (20'7")	6280 mm (20'7")	6120 mm (20'1")
5 Minimum Loading Height	1810 mm (5'11")	2010 mm (6'7")	2310 mm (7'7")	2660 mm (8'9")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6400 mm (21'0")	6150 mm (20'2")	5860 mm (19'3")	5490 mm (18'0")
7 Maximum Vertical Wall Digging Depth	5390 mm (17'8")	4900 mm (16'1")	4920 mm (16'2")	4480 mm (14'8")

Reach boom dimensions were calculated with 1200 mm (48") width, GD 0.91 m^3 (1.19 yd^3) with 1380 mm (4'5") tip radius bucket.

318E L Hydraulic Excavator Specifications

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	5900 kg	12,860 lb
Long Undercarriage	3930 kg	8,670 lb
Counterweight	3400 kg	7,500 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 5.1 m (16'9")	1500 kg	3,310 lb
Reach Boom for CGC – 5.1 m (16'9")	1500 kg	3,310 lb
Stick (includes lines, pins and bucket cylinder)		
R3.1 m (10'2")	1000 kg	2,210 lb
R2.6 m (8'6") for CGC	910 kg	2,010 lb
R2.9 m (9'2")	970 kg	2,140 lb
R2.6 m (8'6")	910 kg	2,010 lb
R2.25 m (7'5")	880 kg	1,940 lb
Track Shoe (Long/per one track)		
500 mm (20") Triple Grouser	2240 kg	4,940 lb
600 mm (24") Triple Grouser	2480 kg	5,470 lb
700 mm (28") Triple Grouser	2710 kg	5,980 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.

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 – 5.1 m (16'9")												
R3.1 m (10'2")	19 200	42,330	38	5.51	19 000	41,890	44	6.38	18 700	41,230	52	7.54
R2.9 m (9'2")	19 200	42,330	38	5.51	18 900	41,670	44	6.24	18 700	41,230	52	7.54
R2.6 m (8'6")	19 100	42,110	38	5.51	18 900	41,670	43	6.24	18 600	41,010	52	7.54
R2.25 m (7'5")	19 100	42,110	38	5.51	18 800	41,450	43	6.24	18 600	41,010	51	7.54

All weights are rounded up to nearest 100 kg (220.5 lb).
Reach boom includes GD 0.91 m^3 (1.19 yd^3) bucket (740 kg [1,631.4 lb]).

Bucket and Stick Forces

Stick	Reach Boom 5.1 m (16'9")							
	R3.1 m (10'2")		R2.9 m (9'2")		R2.6 m (8'6")		R2.25 m (7'5")	
Without CW								
General Duty								
Bucket Digging Force (ISO)	123 kN	27,700 lb	123 kN	27,700 lb	123 kN	27,700 lb	123 kN	27,700 lb
Stick Digging Force (ISO)	77 kN	17,200 lb	80 kN	18,100 lb	86 kN	19,200 lb	94 kN	21,200 lb

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.

318E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.1 m (16'9")
Stick – R3.1 m (10'2")
Counterweight – 3.4 mt (3.8 t)
Shoes – 700 mm (28") triple grouser with step
Bucket – None

		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**											*2700 ***6,000**	*2700 ***6,000**	5.50 **17.60**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,850**	*3600 ***7,850**			*2400 ***5,300**	*2400 ***5,300**	6.76 **21.98**
4.5 m **15.0 ft**	kg **lb**							*3800 ***8,300**	3750 **8,050**	*2400	*2400	*2350 ***5,100**	*2350 ***5,100**	7.52 **24.59**
3.0 m **10.0 ft**	kg **lb**			*7350 ***15,650**	*7350 ***15,650**	*5200 ***11,200**	*5200 ***11,200**	*4350 ***9,450**	3600 **7,700**	*3750 ***7,450**	2550 **5,400**	*2350 ***5,200**	2300 **5,050**	7.93 **25.99**
1.5 m **5.0 ft**	kg **lb**			*8100 ***19,450**	*8100 ***19,450**	*6600 ***14,200**	5050 **10,900**	*5050 ***10,900**	3400 **7,250**	4100 **8,750**	2450 **5,250**	*2500 ***5,500**	2200 **4,800**	8.03 **26.36**
Ground Line	kg **lb**			*7200 ***16,550**	*7200 ***16,550**	*7550 ***16,350**	4800 **10,250**	5550 **11,850**	3250 **6,950**	4000 **8,600**	2350 **5,050**	*2800 ***6,100**	2200 **4,850**	7.85 **25.76**
–1.5 m **–5.0 ft**	kg **lb**	*5450 ***12,150**	*5450 ***12,150**	*10 050 ***22,850**	8500 **18,250**	*7900 ***17,100**	4650 **10,000**	5450 **11,700**	3150 **6,750**			*3300 ***7,300**	2400 **5,300**	7.36 **24.12**
–3.0 m **–10.0 ft**	kg **lb**	*9050 ***20,350**	*9050 ***20,350**	*11 100 ***23,950**	8600 **18,450**	*7500 ***16,200**	4650 **10,000**	*5450 ***11,650**	3150 **6,800**			*4400 ***9,850**	2850 **6,350**	6.49 **21.17**
–4.5 m **–15.0 ft**	kg **lb**			*8800 ***18,700**	*8800 ***18,700**	*5950 ***12,500**	4850 **10,400**					*5050 ***11,100**	4150 **9,400**	5.03 **16.22**

Boom – 5.1 m (16'9")
Stick – R2.9 m (9'2")
Counterweight – 3.4 mt (3.8 t)
Shoes – 700 mm (28") triple grouser with step
Bucket – None

		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**											*2900 ***6,450**	*2900 ***6,450**	5.09 **16.24**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,300**	*3600 ***7,300**			*2600 ***5,750**	*2600 ***5,750**	6.44 **20.91**
4.5 m **15.0 ft**	kg **lb**							*4000 ***8,700**	3750 **8,000**			*2550 ***5,600**	*2550 ***5,600**	7.24 **23.64**
3.0 m **10.0 ft**	kg **lb**			*7900 ***16,800**	*7900 ***16,800**	*5450 ***11,750**	*5450 ***11,750**	*4500 ***9,800**	3550 **7,650**	*3250 ***6,050**	2550 **5,400**	*2600 ***5,750**	2450 **5,350**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7650 ***18,250**	*7650 ***18,250**	*6800 ***14,650**	5050 **10,850**	*5150 ***11,150**	3400 **7,250**	*4050 ***7,800**	2450 **5,250**	*2800 ***6,200**	2300 **5,100**	7.77 **25.48**
Ground Line	kg **lb**			*7600 ***17,450**	*7600 ***17,450**	*7700 ***16,600**	4800 **10,300**	5550 **11,900**	3250 **6,950**	*3700	2400	*3200 ***7,000**	2350 **5,150**	7.58 **24.86**
–1.5 m **–5.0 ft**	kg **lb**	*6150 ***13,750**	*6150 ***13,750**	*10 900 ***24,750**	8550 **18,300**	*7900 ***17,150**	4650 **10,050**	5450 **11,750**	3150 **6,800**			*3900 ***8,650**	2550 **5,650**	7.07 **23.15**
–3.0 m **–10.0 ft**	kg **lb**	*10 050 ***22,500**	*10 050 ***22,500**	*10 850 ***23,450**	8650 **18,550**	*7450 ***16,000**	4700 **10,100**	*5300 ***11,350**	3200 **6,900**			*5100 ***11,300**	3100 **6,900**	6.15 **20.06**
–4.5 m **–15.0 ft**	kg **lb**			*8300 ***17,650**	*8300 ***17,650**	*5550	4900					*5400 ***11,850**	4800 **10,850**	4.59 **14.72**

*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.

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 – 5.1 m (16'9") **Counterweight** – 3.4 mt (3.8 t) **Bucket** – None

Stick – R2.6 m (8'6") **Shoes** – 700 mm (28") triple grouser with step

		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**					***7,500**	***7,500**					*3250 ***7,250**	*3250 ***7,250**	4.76 **15.12**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	*3500 ***6,450**			*2850 ***6,300**	*2850 ***6,300**	6.19 **20.06**
4.5 m **15.0 ft**	kg **lb**					*4550 ***9,850**	*4550 ***9,850**	*4200 ***9,200**	3700 **7,950**			*2750 ***6,050**	*2750 ***6,050**	7.01 **22.90**
3.0 m **10.0 ft**	kg **lb**			*8750 ***18,550**	*8750 ***18,550**	*5800 ***12,450**	5400 **11,650**	*4750 ***10,250**	3550 **7,650**			*2800 ***6,150**	2550 **5,600**	7.44 **24.40**
1.5 m **5.0 ft**	kg **lb**					*7050 ***15,250**	5050 **10,850**	*5350 ***11,550**	3400 **7,300**	*3400	2450	*3000 ***6,550**	2450 **5,350**	7.56 **24.80**
Ground Line	kg **lb**			*6750 ***15,550**	*6750 ***15,550**	*7850 ***16,950**	4800 **10,300**	5550 **11,950**	3250 **7,000**			*3350 ***7,400**	2450 **5,400**	7.36 **24.16**
–1.5 m **–5.0 ft**	kg **lb**	*6200 ***13,800**	*6200 ***13,800**	*10 950 ***24,950**	8650 **18,550**	*7950 ***17,200**	4700 **10,150**	5500 **11,800**	3200 **6,900**			*4100 ***9,100**	2700 **5,950**	6.84 **22.39**
–3.0 m **–10.0 ft**	kg **lb**	*10 750 ***24,150**	*10 750 ***24,150**	*10 500 ***22,650**	8800 **18,850**	*7250 ***15,650**	4750 **10,250**					*5250 ***11,500**	3350 **7,450**	5.88 **19.18**
–4.5 m **–15.0 ft**	kg **lb**			*7500 ***15,850**	*7500 ***15,850**							*5250 ***11,550**	*5250 ***11,550**	4.22 **13.48**

Boom – 5.1 m (16'9") **Counterweight** – 3.4 mt (3.8 t) **Bucket** – None

Stick – R2.25 m (7'5") **Shoes** – 700 mm (28") triple grouser with step

		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**											*3950	*3950	4.24
6.0 m **20.0 ft**	kg **lb**					***9,450**	***9,450**					*3400 ***7,450**	*3400 ***7,450**	5.79 **18.77**
4.5 m **15.0 ft**	kg **lb**					*4950 ***10,700**	*4950 ***10,700**	*4500 ***9,800**	3650 **7,850**			*3250 ***7,150**	3100 **6,800**	6.67 **21.78**
3.0 m **10.0 ft**	kg **lb**					*6150 ***13,200**	5350 **11,500**	*4950 ***10,750**	3500 **7,550**			*3300 ***7,250**	2700 **5,950**	7.12 **23.35**
1.5 m **5.0 ft**	kg **lb**					*7350 ***15,800**	5000 **10,700**	*5500 ***11,900**	3350 **7,250**			*3550 ***7,800**	2600 **5,650**	7.24 **23.76**
Ground Line	kg **lb**			*6050 ***14,000**	*6050 ***14,000**	*7950 ***17,200**	4800 **10,300**	5550 **11,950**	3250 **7,000**			*4050 ***8,850**	2650 **5,800**	7.04 **23.10**
–1.5 m **–5.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*11 500 ***24,950**	8700 **18,650**	*7900 ***17,050**	4750 **10,200**	5500 **11,850**	3250 **6,950**			4950 **10,950**	2950 **6,450**	6.49 **21.24**
–3.0 m **–10.0 ft**	kg **lb**			*9900 ***21,400**	8900 **19,050**	*6950 ***14,950**	4800 **10,400**					*5450 ***11,950**	3750 **8,300**	5.47 **17.81**

*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.

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

318E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.1 m (16'9")
Stick – R3.1 m (10'2")

Counterweight – 3.4 mt (3.8 t)
Shoes – 600 mm (24") triple grouser

Bucket – None

		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**											*2700 ***6,000**	*2700 ***6,000**	5.50 **17.60**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,850**	*3600 ***7,850**			*2400 ***5,300**	*2400 ***5,300**	6.76 **21.98**
4.5 m **15.0 ft**	kg **lb**							*3800 ***8,300**	3700 **7,950**	*2400	*2400	*2350 ***5,100**	*2350 ***5,100**	7.52 **24.59**
3.0 m **10.0 ft**	kg **lb**			*7350 ***15,650**	*7350 ***15,650**	*5200 ***11,200**	*5200 ***11,200**	*4350 ***9,450**	3550 **7,600**	*3750 ***7,450**	2500 **5,350**	*2350 ***5,200**	2250 **5,000**	7.93 **25.99**
1.5 m **5.0 ft**	kg **lb**			*8100 ***19,450**	*8100 **19,300**	*6600 ***14,200**	5000 **10,800**	*5050 ***10,900**	3350 **7,200**	4050 **8,650**	2400 **5,150**	*2500 ***5,500**	2150 **4,750**	8.03 **26.36**
Ground Line	kg **lb**			*7200 ***16,550**	*7200 ***16,550**	*7550 ***16,350**	4700 **10,150**	5450 **11,700**	3200 **6,850**	3950 **8,450**	2350 **5,000**	*2800 ***6,100**	2200 **4,800**	7.85 **25.76**
–1.5 m **–5.0 ft**	kg **lb**	*5450 ***12,150**	*5450 ***12,150**	*10 050 ***22,850**	8400 **18,000**	*7900 ***17,100**	4600 **9,850**	5350 **11,550**	3100 **6,650**			*3300 ***7,300**	2350 **5,200**	7.36 **24.12**
–3.0 m **–10.0 ft**	kg **lb**	*9050 ***20,350**	*9050 ***20,350**	*11 100 ***23,950**	8500 **18,200**	*7500 ***16,200**	4600 **9,900**	5400 **11,600**	3100 **6,700**			*4400 ***9,850**	2850 **6,250**	6.49 **21.17**
–4.5 m **–15.0 ft**	kg **lb**			*8800 ***18,700**	8750 ***18,700**	*5950 ***12,500**	4750 **10,300**					*5050 ***11,100**	4100 **9,300**	5.03 **16.22**

Boom – 5.1 m (16'9")
Stick – R2.9 m (9'2")

Counterweight – 3.4 mt (3.8 t)
Shoes – 600 mm (24") triple grouser

Bucket – None

		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**											*2900 ***6,450**	*2900 ***6,450**	5.09 **16.24**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,300**	*3600 ***7,300**			*2600 ***5,750**	*2600 ***5,750**	6.44 **20.91**
4.5 m **15.0 ft**	kg **lb**							*4000 ***8,700**	3700 **7,900**			*2550 ***5,600**	*2550 ***5,600**	7.24 **23.64**
3.0 m **10.0 ft**	kg **lb**			*7900 ***16,800**	*7900 ***16,800**	*5450 ***11,750**	5400 **11,650**	*4500 ***9,800**	3550 **7,600**	*3250 ***6,050**	2500 **5,350**	*2600 ***5,750**	2400 **5,300**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7650 ***18,250**	*7650 ***18,250**	*6800 ***14,650**	5000 **10,750**	*5150 ***11,150**	3350 **7,200**	4050 ***7,800**	2400 **5,200**	*2800 ***6,200**	2300 **5,050**	7.77 **25.48**
Ground Line	kg **lb**			*7600 ***17,450**	*7600 ***17,450**	*7700 ***16,600**	4700 **10,150**	5450 **11,750**	3200 **6,850**	*3700	2350	*3200 ***7,000**	2300 **5,100**	7.58 **24.86**
–1.5 m **–5.0 ft**	kg **lb**	*6150 ***13,750**	*6150 ***13,750**	*10 900 ***24,750**	8400 **18,050**	*7900 ***17,150**	4600 **9,900**	5400 **11,600**	3150 **6,700**			*3900 ***8,650**	2550 **5,550**	7.07 **23.15**
–3.0 m **–10.0 ft**	kg **lb**	*10 050 ***22,500**	*10 050 ***22,500**	*10 850 ***23,450**	8550 **18,350**	*7450 ***16,000**	4650 **10,000**	*5300 ***11,350**	3150 **6,800**			*5100 ***11,300**	3050 **6,800**	6.15 **20.06**
–4.5 m **–15.0 ft**	kg **lb**			*8300 ***17,650**	*8300 ***17,650**	*5550	4850					*5400 ***11,850**	4700 **10,750**	4.59 **14.72**

*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.

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 – 5.1 m (16'9") **Counterweight** – 3.4 mt (3.8 t) **Bucket** – None

Stick – R2.6 m (8'6") **Shoes** – 600 mm (24") triple grouser

		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**					***7,500**	***7,500**					*3250 ***7,250**	*3250 ***7,250**	4.76 **15.12**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	*3500 ***6,450**			*2850 ***6,300**	*2850 ***6,300**	6.19 **20.06**
4.5 m **15.0 ft**	kg **lb**					*4550 ***9,850**	*4550 ***9,850**	*4200 ***9,200**	3650 **7,850**			*2750 ***6,050**	*2750 ***6,050**	7.01 **22.90**
3.0 m **10.0 ft**	kg **lb**			*8750 ***18,550**	*8750 ***18,550**	*5800 ***12,450**	5350 **11,500**	*4750 ***10,250**	3500 **7,550**			*2800 ***6,150**	2500 **5,550**	7.44 **24.40**
1.5 m **5.0 ft**	kg **lb**					*7050 ***15,250**	4950 **10,700**	*5350 ***11,550**	3350 **7,200**	*3400	2450	*3000 ***6,550**	2400 **5,250**	7.56 **24.80**
Ground Line	kg **lb**			*6750 ***15,550**	*6750 ***15,550**	*7850 ***16,950**	4750 **10,200**	5500 **11,800**	3200 **6,900**			*3350 ***7,400**	2450 **5,350**	7.36 **24.16**
–1.5 m **–5.0 ft**	kg **lb**	*6200 ***13,800**	*6200 ***13,800**	*10 950 ***24,950**	8550 **18,300**	*7950 ***17,200**	4650 **10,000**	5400 **11,650**	3150 **6,800**			*4100 ***9,100**	2700 **5,900**	6.84 **22.39**
–3.0 m **–10.0 ft**	kg **lb**	*10 750 ***24,150**	*10 750 ***24,150**	*10 500 ***22,650**	8700 **18,650**	*7250 ***15,650**	4700 **10,150**					*5250 ***11,500**	3300 **7,350**	5.88 **19.18**
–4.5 m **–15.0 ft**	kg **lb**			*7500 ***15,850**	*7500 ***15,850**							*5250 ***11,550**	*5250 ***11,550**	4.22 **13.48**

Boom – 5.1 m (16'9") **Counterweight** – 3.4 mt (3.8 t) **Bucket** – None

Stick – R2.25 m (7'5") **Shoes** – 600 mm (24") triple grouser

		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**											*3950	*3950	4.24
6.0 m **20.0 ft**	kg **lb**					***9,450**	***9,450**					*3400 ***7,450**	*3400 ***7,450**	5.79 **18.77**
4.5 m **15.0 ft**	kg **lb**					*4950 ***10,700**	*4950 ***10,700**	*4500 ***9,800**	3600 **7,750**			*3250 ***7,150**	3050 **6,750**	6.67 **21.78**
3.0 m **10.0 ft**	kg **lb**					*6150 ***13,200**	5250 **11,350**	*4950 ***10,750**	3500 **7,500**			*3300 ***7,250**	2700 **5,900**	7.12 **23.35**
1.5 m **5.0 ft**	kg **lb**					*7350 ***15,800**	4900 **10,600**	*5500 ***11,900**	3350 **7,150**			*3550 ***7,800**	2550 **5,600**	7.24 **23.76**
Ground Line	kg **lb**			*6050 ***14,000**	*6050 ***14,000**	*7950 ***17,200**	4700 **10,150**	5500 **11,800**	3200 **6,900**			*4050 ***8,850**	2600 **5,700**	7.04 **23.10**
–1.5 m **–5.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*11 500 ***24,950**	8600 **18,450**	*7900 ***17,050**	4700 **10,050**	5450 **11,700**	3200 **6,850**			4900 **10,800**	2900 **6,350**	6.49 **21.24**
–3.0 m **–10.0 ft**	kg **lb**			*9900 ***21,400**	8750 **18,850**	*6950 ***14,950**	4750 **10,250**					*5450 ***11,950**	3700 **8,200**	5.47 **17.81**

*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.

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

318E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.1 m (16'9")
Stick – R3.1 m (10'2")

Counterweight – 3.4 mt (3.8 t)
Shoes – 500 mm (20") triple grouser

Bucket – None

		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**											*2700 ***6,000**	*2700 ***6,000**	5.50 **17.60**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,850**	*3600 ***7,850**			*2400 ***5,300**	*2400 ***5,300**	6.76 **21.98**
4.5 m **15.0 ft**	kg **lb**							*3800 ***8,300**	3650 **7,850**	*2400	*2400	*2350 ***5,100**	*2350 ***5,100**	7.52 **24.59**
3.0 m **10.0 ft**	kg **lb**			*7350 ***15,650**	*7350 ***15,650**	*5200 ***11,200**	*5200 ***11,200**	*4350 ***9,450**	3500 **7,500**	*3750 ***7,450**	2450 **5,250**	*2350 ***5,200**	2250 **4,950**	7.93 **25.99**
1.5 m **5.0 ft**	kg **lb**			*8100 ***19,450**	*8100 **19,100**	*6600 ***14,200**	4950 **10,650**	*5050 ***10,900**	3300 **7,100**	4000 **8,550**	2400 **5,100**	*2500 ***5,500**	2150 **4,700**	8.03 **26.36**
Ground Line	kg **lb**			*7200 ***16,550**	*7200 ***16,550**	*7550 ***16,350**	4650 **10,050**	5400 **11,600**	3150 **6,750**	3900 **8,350**	2300 **4,950**	*2800 ***6,100**	2150 **4,750**	7.85 **25.76**
–1.5 m **–5.0 ft**	kg **lb**	*5450 ***12,150**	*5450 ***12,150**	*10 050 ***22,850**	8300 **17,800**	*7900 ***17,100**	4550 **9,750**	5300 **11,400**	3050 **6,600**			*3300 ***7,300**	2350 **5,150**	7.36 **24.12**
–3.0 m **–10.0 ft**	kg **lb**	*9050 ***20,350**	*9050 ***20,350**	*11 100 ***23,950**	8400 **18,000**	*7500 ***16,200**	4550 **9,800**	5300 **11,450**	3100 **6,650**			*4400 ***9,850**	2800 **6,200**	6.49 **21.17**
–4.5 m **–15.0 ft**	kg **lb**			*8800 ***18,700**	8700 **18,650**	*5950 ***12,500**	4700 **10,200**					*5050 ***11,100**	4050 **9,200**	5.03 **16.22**

Boom – 5.1 m (16'9")
Stick – R2.9 m (9'2")

Counterweight – 3.4 mt (3.8 t)
Shoes – 500 mm (20") triple grouser

Bucket – None

		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**											*2900 ***6,450**	*2900 ***6,450**	5.09 **16.24**
6.0 m **20.0 ft**	kg **lb**							*3600 ***7,300**	*3600 ***7,300**			*2600 ***5,750**	*2600 ***5,750**	6.44 **20.91**
4.5 m **15.0 ft**	kg **lb**							*4000 ***8,700**	3650 **7,850**			*2550 ***5,600**	*2550 ***5,600**	7.24 **23.64**
3.0 m **10.0 ft**	kg **lb**			*7900 ***16,800**	*7900 ***16,800**	*5450 ***11,750**	5350 **11,500**	*4500 ***9,800**	3500 **7,500**	*3250 ***6,050**	2450 **5,250**	*2600 ***5,750**	2400 **5,250**	7.66 **25.09**
1.5 m **5.0 ft**	kg **lb**			*7650 ***18,250**	*7650 ***18,250**	*6800 ***14,650**	4950 **10,650**	*5150 ***11,150**	3300 **7,100**	4000 ***7,800**	2400 **5,100**	*2800 ***6,200**	2250 **4,950**	7.77 **25.48**
Ground Line	kg **lb**			*7600 ***17,450**	*7600 ***17,450**	*7700 ***16,600**	4650 **10,050**	5400 **11,600**	3150 **6,800**	*3700	2350	*3200 ***7,000**	2300 **5,050**	7.58 **24.86**
–1.5 m **–5.0 ft**	kg **lb**	*6150 ***13,750**	*6150 ***13,750**	*10 900 ***24,750**	8350 **17,850**	*7900 ***17,150**	4550 **9,800**	5300 **11,450**	3100 **6,650**			*3900 ***8,650**	2500 **5,500**	7.07 **23.15**
–3.0 m **–10.0 ft**	kg **lb**	*10 050 ***22,500**	*10 050 ***22,500**	*10 850 ***23,450**	8450 **18,150**	*7450 ***16,000**	4600 **9,850**	*5300 ***11,350**	3100 **6,750**			*5100 ***11,300**	3050 **6,700**	6.15 **20.06**
–4.5 m **–15.0 ft**	kg **lb**			*8300 ***17,650**	*8300 ***17,650**	*5550	4800					*5400 ***11,850**	4650 **10,600**	4.59 **14.72**

*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.

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 – 5.1 m (16'9")
Stick – R2.6 m (8'6")
Counterweight – 3.4 mt (3.8 t)
Shoes – 500 mm (20") triple grouser
Bucket – None

		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**					***7,500**	***7,500**					*3250 ***7,250**	*3250 ***7,250**	4.76 **15.12**
6.0 m **20.0 ft**	kg **lb**							*3500 ***6,450**	*3500 ***6,450**			*2850 ***6,300**	*2850 ***6,300**	6.19 **20.06**
4.5 m **15.0 ft**	kg **lb**					*4550 ***9,850**	*4550 ***9,850**	*4200 ***9,200**	3650 **7,800**			*2750 ***6,050**	*2750 ***6,050**	7.01 **22.90**
3.0 m **10.0 ft**	kg **lb**			*8750 ***18,550**	*8750 ***18,550**	*5800 ***12,450**	5300 **11,400**	*4750 ***10,250**	3500 **7,450**			*2800 ***6,150**	2500 **5,500**	7.44 **24.40**
1.5 m **5.0 ft**	kg **lb**					*7050 ***15,250**	4900 **10,600**	*5350 ***11,550**	3300 **7,100**	*3400	2400	*3000 ***6,550**	2350 **5,200**	7.56 **24.80**
Ground Line	kg **lb**			*6750 ***15,550**	*6750 ***15,550**	*7850 ***16,950**	4700 **10,050**	5400 **11,650**	3200 **6,850**			*3350 ***7,400**	2400 **5,300**	7.36 **24.16**
–1.5 m **–5.0 ft**	kg **lb**	*6200 ***13,800**	*6200 ***13,800**	*10 950 ***24,950**	8450 **18,100**	*7950 ***17,200**	4600 **9,900**	5350 **11,500**	3150 **6,700**			*4100 ***9,100**	2650 **5,800**	6.84 **22.39**
–3.0 m **–10.0 ft**	kg **lb**	*10 750 ***24,150**	*10 750 ***24,150**	*10 500 ***22,650**	8600 **18,400**	*7250 ***15,650**	4650 **10,000**					*5250 ***11,500**	3250 **7,250**	5.88 **19.18**
–4.5 m **–15.0 ft**	kg **lb**			*7500 ***15,850**	*7500 ***15,850**							*5250 ***11,550**	*5250 ***11,550**	4.22 **13.48**

Boom – 5.1 m (16'9")
Stick – R2.25 m (7'5")
Counterweight – 3.4 mt (3.8 t)
Shoes – 500 mm (20") triple grouser
Bucket – None

		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**											*3950	*3950	4.24
6.0 m **20.0 ft**	kg **lb**					***9,450**	***9,450**					*3400 ***7,450**	*3400 ***7,450**	5.79 **18.77**
4.5 m **15.0 ft**	kg **lb**					*4950 ***10,700**	*4950 ***10,700**	*4500 ***9,800**	3600 **7,700**			*3250 ***7,150**	3000 **6,650**	6.67 **21.78**
3.0 m **10.0 ft**	kg **lb**					*6150 ***13,200**	5200 **11,250**	*4950 ***10,750**	3450 **7,400**			*3300 ***7,250**	2650 **5,850**	7.12 **23.35**
1.5 m **5.0 ft**	kg **lb**					*7350 ***15,800**	4850 **10,500**	*5500 **11,900**	3300 **7,050**			*3550 ***7,800**	2500 **5,550**	7.24 **23.76**
Ground Line	kg **lb**			*6050 ***14,000**	*6050 ***14,000**	*7950 ***17,200**	4650 **10,050**	5400 **11,650**	3200 **6,850**			*4050 ***8,850**	2550 **5,650**	7.04 **23.10**
–1.5 m **–5.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*11 500 ***24,950**	8500 **18,250**	*7900 ***17,050**	4600 **9,950**	5400 **11,600**	3150 **6,800**			4850 **10,650**	2850 **6,300**	6.49 **21.24**
–3.0 m **–10.0 ft**	kg **lb**			*9900 ***21,400**	8650 **18,600**	*6950 ***14,950**	4700 **10,150**					*5450 ***11,950**	3650 **8,100**	5.47 **17.81**

*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.

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

318E L Hydraulic Excavator Specifications

318E L Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Boom			
	mm	in	m^3	yd^3	kg	lb	%	R2.25 m (7'5")	R2.6 m (8'6")	R2.9 m (9'2")	R3.1 m (10'2")
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	1,049	100%	●	●	●	●
	900	36	0.62	0.81	537	1,184	100%	●	●	●	◉
	1050	42	0.76	1.00	590	1,301	100%	●	◉	◉	⊖
	1200	48	0.91	1.19	645	1,422	100%	◉	⊖	○	○
						Maximum load pin-on (payload + bucket)	kg	2210	2025	1915	1755
							lb	4,871	4,463	4,221	3,868

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 3.1 m (10'2") 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.

318E L Work Tool Offering Guide*

Boom Type	Reach			
Stick Size	**R3.1 (10'2")**	**R2.9 (9'2")**	**R2.6 (8'6")**	**R2.25 (7'5")**
Hydraulic Hammer	H115Es H120Es **	H115Es H120Es H130Es ***	H115Es H120Es H130Es ***	H115Es H120Es H130Es ##
Multi-Processor		MP15 S Jaw *** ****	MP15 CC Jaw *** MP15 CR Jaw *** MP15 S Jaw ***	MP15 CC Jaw ** # MP15 CR Jaw ** # MP15 PP Jaw *** **** MP15 PS Jaw *** MP15 S Jaw ** #
Crusher			P315 ***	P315 ** #
Pulverizer		P215 ***	P215 ***	P215 ##
Demolition and Sorting Grapple			G315B *** ****	G315B ** #
Mobile Scrap and Demolition Shear	S325B ###	S325B ###	S325B ###	S320B *** S325B ###
Compactor (Vibratory Plate)	CVP75	CVP75	CVP75	CVP75
Contractors' Grapple	G115B	G115B	G115B	G115B
Trash Grapple	These work tools are available for the 318E L. Consult your Cat dealer for proper match.			
Thumbs				
Orange Peel Grapples				
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.

##Over the front only with the CL coupler.

###Boom Mount

318E L Standard Equipment

Standard Equipment

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

ENGINE

- Quick drains, engine and hydraulic oil
- C4.4 diesel engine
- Biodiesel capable
- 2300 m (7546') altitude capability
- Electric priming pump
- Automatic engine speed control
- Economy and high power modes
- Two-speed travel
- Side-by-side cooling system
- Radial seal air filter
- Primary filter with water separator and water separator indicator
- Secondary filter
- Screen filter in fuel line
- Standard battery –18° C (0.4° F)

HYDRAULIC SYSTEM

- Regeneration circuit for boom and stick
- Reverse swing damping 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

- Seat, high-back air suspension with heater and cooling
- Pressurized operator station with positive filtration
- 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
- Two stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with indicators, 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 (76.2 mm [3"])
- Cab mirror
- Windshield wiper, with lower and washer
- Level sensor

UNDERCARRIAGE

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

COUNTERWEIGHT

- 3.4 mt (3.8 t)

ELECTRICAL

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

LIGHTS

- Halogen boom lights (left side)
- 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 roof hatch for emergency exit
- Guard rail 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 lines
  - High Pressure lines
  - Medium Pressure lines
- Cat quick coupler line – high-pressure capable
- Cat Bio hydraulic oil
- Boom lowering and stick lowering control valves

CAB
- Left pedal
- Ashtray

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

FRONT LINKAGE
- 5.1 m (16'9") reach boom
  - 3.1 m (10'2") stick
  - 2.9 m (9'2") stick
  - 2.6 m (8'6") stick
  - 2.25 m (7'5") stick
- Quick Coupler

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

SECURITY
- FOGS, bolt-on
- Guard, vandalism

TECHNOLOGY
- Cat Grade Control Depth and Slope
- Product Link

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

AEHQ7079 (08-2013)
(ANZ)

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