324E L

Hydraulic Excavator

Engine		
Engine Model	Cat® C7.1 ACERT™	
Net Power – ISO 14396 (metric)	151 kW	205 hp
Net Power – ISO 14396 (imperial)	151 kW	202 hp

Drive		
Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	227 kN	51,032 lbf
Weight		
Minimum Weight	25 127 kg	55,396 lb
Maximum Weight	26 307 kg	57,997 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 324E L will continue that trend-setting standard.

The 324E 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 324E L and the E Series family of excavators.

Contents

Engine

Reduced emissions, economical and reliable performance

Cat C7.1 ACERT Engine

The Cat C7.1 ACERT engine delivers more horsepower using less fuel than the previous series engine.

Emissions Solution

The C7.1 ACERT engine is equipped 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. Driven by customer input, Caterpillar's aftertreatment regeneration solution ensures the machine works as normal with no operator intervention needed.

The machine comes with two modes of regeneration: automatic and manual.

In automatic mode, the machine starts the regeneration process once the filtering system reaches a certain level and conditions are optimal. The system will not interrupt the work process and can regenerate during machine operation.

Manual mode enables the operator to override the automatic mode. With a touch of a button inside the cab, this mode allows the operator to move the machine from flammable or heat-restricted areas before initiating the regeneration process.

Biodiesel-Ready Fuel System

The C7.1 ACERT engine is equipped with an electronic-controlled high-pressure fuel system that includes an electric priming pump and three-layer fuel hoses to have 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.

Cooling System

The cooling system features side-by-side radiators, an air-to-air aftercooler and A/C condenser positioned for easy servicing; the viscous fan automatically adjusts to ambient temperatures to help reduce fuel consumption and noise.

Speed and Power Control

The E Series features speed control to maintain a constant speed – regardless of load – to improve fuel economy. Three different power modes are offered: high power, standard power, and economy power. The operator can easily change between modes through the monitor or console switch 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. The heavy lift mode increases machine system pressure to improve lift – a nice benefit in certain situations. Heavy lift mode also reduces engine speed and pump flow in order to improve controllability.

Monitor

The 324E 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. Up to two different camera images can be displayed on the screen.

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 specific 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

Hydraulic Horsepower

Hydraulic horsepower is the actual machine power available to do work through implements and work tools. It's much more than just the engine power under the hood – it's a core strength that differentiates Cat machines from other brands.

Main Control Valve and Auxiliary Valves

The 324E L uses a high-pressure system to tackle the toughest of work in short order. The machine features a highly efficient and simple back-to-back main control valve to improve fuel consumption and reliability. Also, shortened spool lengths and a built-in drift reduction valve have been added for greater controllability.

Swing Priority Circuit

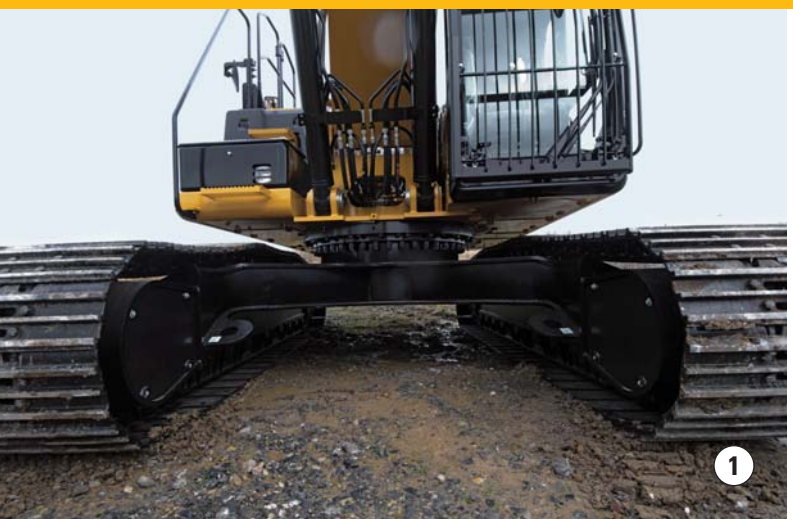
The swing priority circuit on the 324E L uses an electric valve that's operated by the machine's Electronic Control Module (ECM). Compared to using a hydraulic valve, an electric valve allows for more finely tuned control, which is critical during material loading.

Electric Boom Regeneration Valve

This valve minimizes pump flow when the boom lowers down, 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 (1) includes reinforced mountings to support the Roll-Over Protective Structure (ROPS) cab; the lower frame is reinforced to increase component durability.

Undercarriage

Fixed gauge long undercarriage systems are available to support various work applications.

Standard track rollers, precision-forged carrier rollers, press-fit pin master joints (2), and enhanced track shoe bolts improve durability and reduce the risk of machine downtime and the need and cost to replace components.

Optional two-piece track guiding guard or full length guard is now offered to help maintain track alignment and improve performance in multiple applications.

Counterweights

The standard counterweight (3) weighs 4.0 mt (4.4 t). Integrated links enable easy removal of the counterweight for maintenance or shipping.

Front Linkage

Made for high stress and long service life

Booms and Sticks

The 324E L is offered with a range of booms and sticks (see list below). 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 durable captured flag design. Boom durability is improved with a number of plate thickness changes. 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 are two basic boom options: HD and ME. Sticks match the boom descriptions and applications below:

HD = Heavy Duty – This boom is designed to balance reach, digging force, and bucket capacity. It covers the vast majority of applications such as digging, loading, trenching, and working with hydraulic tools.

ME = Mass Excavation – Mass is best used for quarry, high-volume loading, and other demanding applications. Mass fronts provide higher digging forces due to the geometry of the boom and stick relationship. Bucket linkage and cylinders are also built for greater durability.

Work Tools

Dig, hammer, rip, and cut with confidence

An extensive range of Cat Work Tools for the 324E L includes buckets, compactors, grapples, multi-processors, scrap and demolition shears, rippers, crushers, pulverizers, hammers, and shears. 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 324E 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.

Four Durability Categories Suitable for Any Situation

Caterpillar offers four standard bucket categories for excavators. Each category is based on intended bucket durability when used in recommended application and material. Each bucket durability is available as pin-on or can be used with a Quick Coupler. Red areas on bucket images illustrate additional protection against wear as it increases across each category.

General Duty (GD)

GD buckets are for digging in low-impact, low-abrasion material such as dirt, loam, and mixed compositions of dirt and fine gravel.

Heavy Duty (HD)

The most popular bucket style, HD buckets are a good starting point when digging conditions are not well known like a wide range of impact and abrasion conditions that include mixed dirt, clay, and rock.

Severe Duty (SD)

SD buckets are for higher abrasion conditions such as well shot granite and caliche.

Extreme Duty (XD)

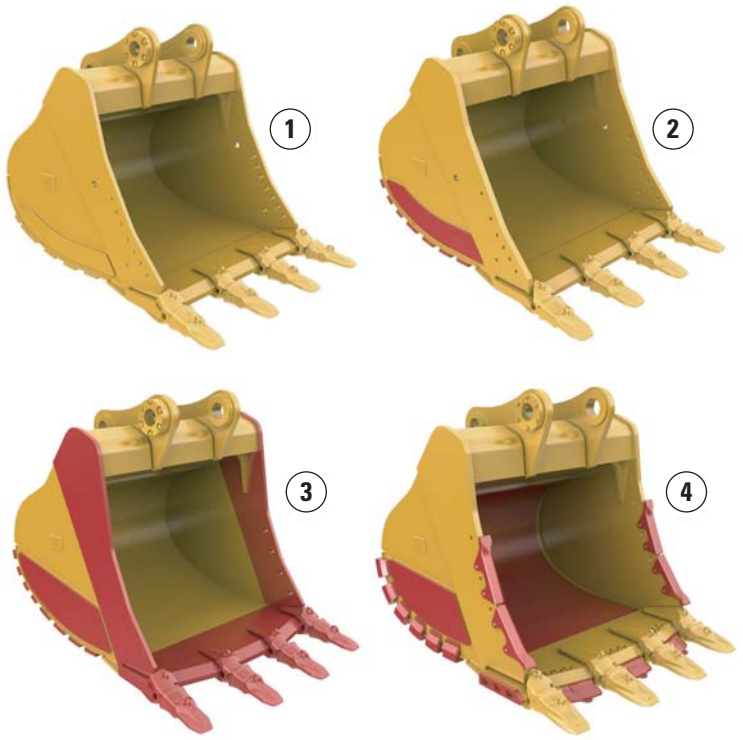
XD buckets are the new standard for high-abrasion conditions, including high quartzite granite.

Special Buckets

Special buckets are available for the 324E L on request.

Comprehensive Product Support

All Cat Work Tools are backed up by a world-wide network of well-stocked parts depots and highly experienced service and support personnel.



1) General Duty 2) Heavy Duty 3) Severe Duty 4) Extreme Duty

Integrated Technologies

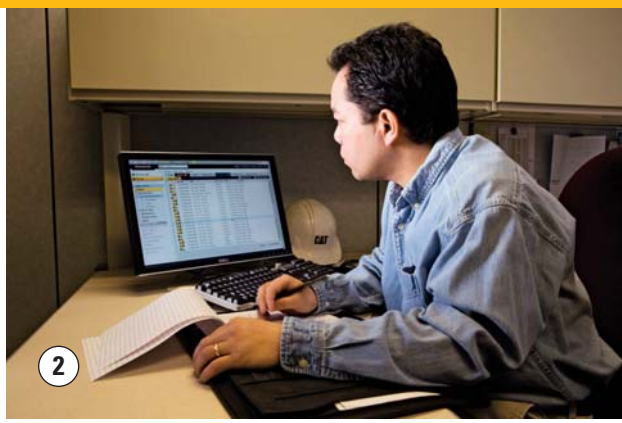
Solutions that make work easier and more efficient

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 (1) and a one-piece hood provide easy access to the engine and cooling compartments. Both doors and hood feature enhanced hardware and a new screen design to help minimize debris entry.

Compartments

The radiator, pump, and air cleaner (2) compartments provide easy access to major components. The fresh air filter (3) is located on the side of the cab to make it easy to reach and replace as needed.

Other Services

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 mounted on 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 and oil filter are 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

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

Improved sealing and cab roof lining lower noise levels inside the cab significantly 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 Cab and Boom Lights

After the engine start key has been turned to the "OFF" position, lights will be illuminated 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

Cab lights 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 standard rearview camera is housed in the counterweight (3). 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 C7.1 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 324E L performs a similar amount of work while burning up to 7% less fuel than the previous D Series model. This means more efficiency, less resources consumed, and fewer CO_2 emissions.
- The 324E 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.
- A ground-level overfill indicator rises when the tank is full to help the operator avoid spilling.
- The QuickEvac™ as standard ensures fast, easy, and secure changing of engine and hydraulic oil.
- The 324E L is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- An eco-friendly 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.
- The 324E L is an efficient, productive machine.

Engine

Engine Model	Cat C7.1 ACERT	
Net Power – ISO 14396 (metric)	151 kW	205 hp
Net Power – ISO 14396 (imperial)	151 kW	202 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in^3

Weights

Minimum Weight*	25 127 kg	55,396 lb
Maximum Weight**	26 307 kg	57,997 lb

*Long Undercarriage, 5.9 m (19'4") reach boom, R2.5CB1 (8'2") stick, 4.0 mt (4.4 t) counterweight, 1.33 m^3 (1.74 yd^3) bucket, 600 mm (24") DG shoes.

**Long Undercarriage 5.3 m (17'5") mass boom, M2.5DB (8'2") stick, 4.0 mt (4.4 t) counterweight, 1.87 m^3 (2.45 yd^3) bucket, 790 mm (31") TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	462 L/min	122 gal/min
Swing System – Maximum Flow	231 L/min	61 gal/min
Maximum Pressure – Equipment Heavy Lift	38 000 kPa	5,512 psi
Maximum Pressure – Equipment Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	24 497 kPa	3,553 psi
Pilot System – Maximum Flow	23.1 L/min	1,410 in^3/min
Pilot System – Maximum Pressure	3920 kPa	569 psi
Boom Cylinder – Bore	135 mm	5 in
Boom Cylinder – Stroke	1305 mm	51 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1660 mm	65 in
CB1 Bucket Cylinder – Bore	130 mm	5 in
CB1 Bucket Cylinder – Stroke	1156 mm	46 in
DB Bucket Cylinder – Bore	150 mm	6 in
DB Bucket Cylinder – Stroke	1151 mm	45 in

Drive

Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	227 kN	51,032 lbf

Swing Mechanism

Swing Speed	9.2 rpm	
Swing Torque	73.4 kN·m	54,137 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	520 L	137.37 gal
Cooling System	44 L	11.62 gal
Engine Oil (with filter)	22.5 L	5.94 gal
Swing Drive (each)	10 L	2.64 gal
Final Drive (each)	6 L	1.59 gal
Hydraulic System (including tank)	280 L	75.29 gal
Hydraulic Tank	155 L	40.95 gal

Track

Number of Shoes (each side)	
Long Undercarriage	51
Number of Track Rollers (each side)	
Long Undercarriage	8
Number of Carrier Rollers (each side)	
Long Undercarriage	2

Sound Performance

ISO 6396	
Operator Noise (Closed) (ROPS Cab)	71 dB(A)
Operator Noise (Open) (ROPS Cab)	76 dB(A)
ISO 6395	
Spectator Noise	104 dB(A)

- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6396, 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 2000/14/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.

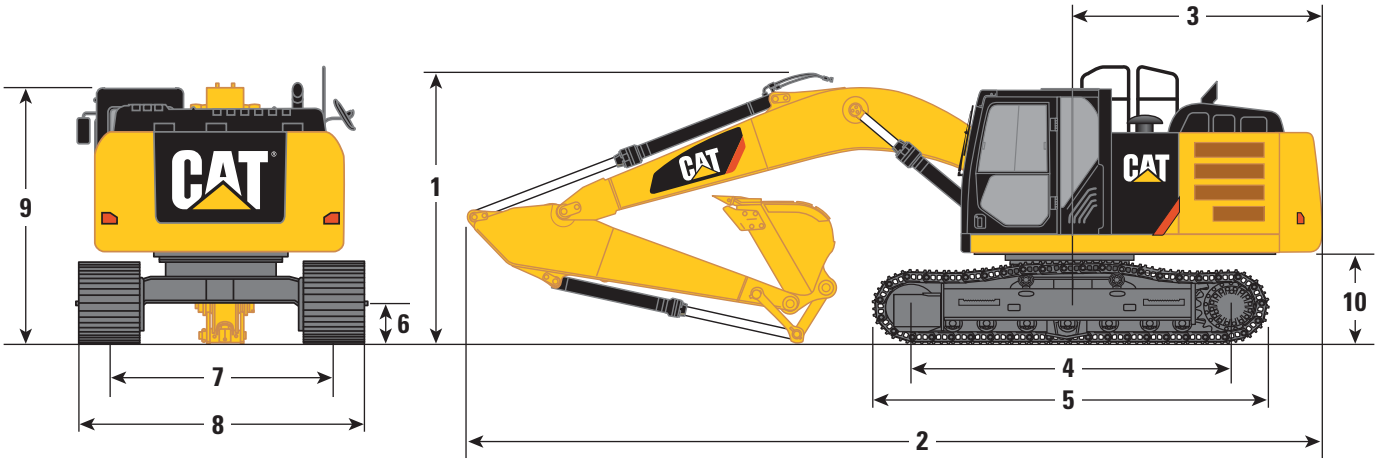
Standards

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

324E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



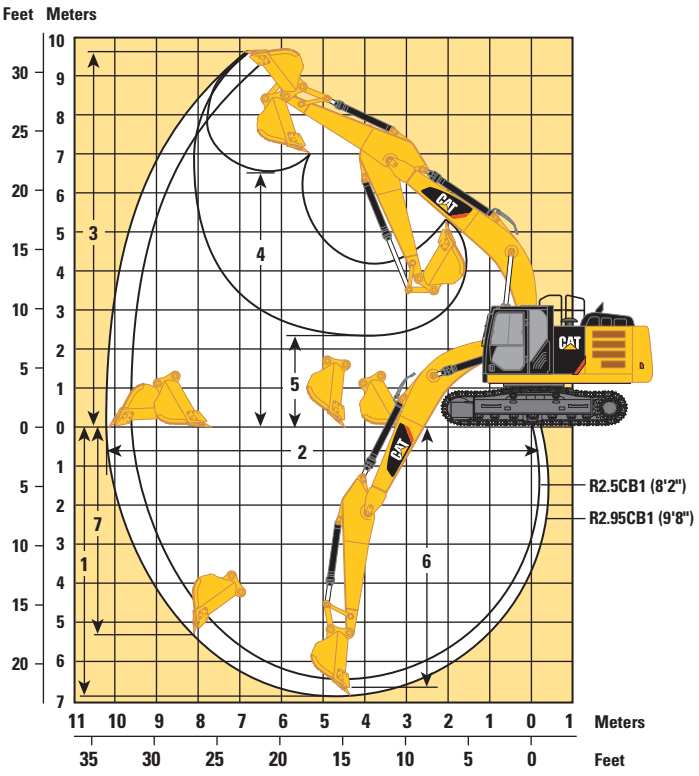
		HD Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	Stick	**R2.95CB1 (9'8")**	**R2.5CB1 (8'2")**	**M2.5DB (8'2")**
1	Shipping Height*	3220 mm (10'7")	3410 mm (11'2")	3500 mm (11'6")
	Shipping Height with Guard Rail (without fronts)	3283 mm (10'9")	3283 mm (10'9")	3283 mm (10'9")
	Shipping Height with Top Guard (without fronts)	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
2	Shipping Length	10 063 mm (33'0")	10 100 mm (33'2")	9480 mm (31'1")
3	Tail Swing Radius	2947 mm (9'8")	2947 mm (9'8")	2947 mm (9'8")
4	Length to Center of Rollers			
	Long Undercarriage	3830 mm (12'7")	3830 mm (12'7")	3830 mm (12'7")
5	Track Length			
	Long Undercarriage	4640 mm (15'3")	4640 mm (15'3")	4640 mm (15'3")
6	Ground Clearance			
	Long Undercarriage	440 mm (1'5")	440 mm (1'5")	440 mm (1'5")
7	Track Gauge			
	Long Undercarriage	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
8	Transport Width			
	Long Undercarriage – 600 mm (24") Shoes	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
	Long Undercarriage – 700 mm (28") Shoes	3290 mm (10'10")	3290 mm (10'10")	3290 mm (10'10")
	Long Undercarriage – 790 mm (31") Shoes	3380 mm (11'1")	3380 mm (11'1")	3380 mm (11'1")
9	Cab Height	2996 mm (9'10")	2996 mm (9'10")	2996 mm (9'10")
	Cab Height with Top Guard	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
10	Counterweight Clearance**	1088 mm (3'7")	1088 mm (3'7")	1088 mm (3'7")

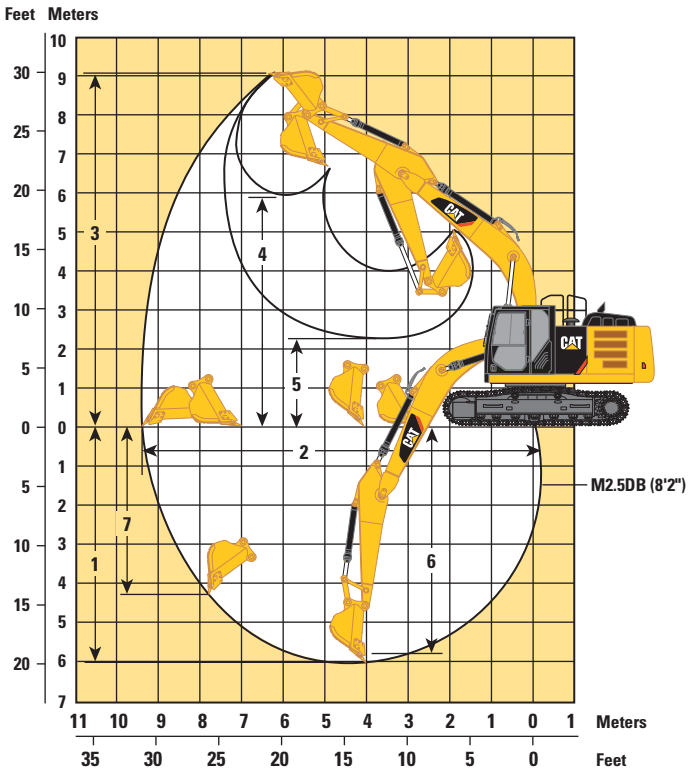
*Including shoe lug height.

**Without shoe lug height.

Working Ranges

All dimensions are approximate.





		HD Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	Stick	**R2.95CB1 (9'8")**	**R2.5CB1 (8'2")**	**M2.5DB (8'2")**
1	Maximum Digging Depth	6810 mm (22'4")	6360 mm (20'10")	6000 mm (19'8")
2	Maximum Reach at Ground Level	10 110 mm (33'2")	9690 mm (31'9")	9200 mm (30'2")
3	Maximum Cutting Height	9690 mm (31'9")	9490 mm (31'2")	9060 mm (29'9")
4	Maximum Loading Height	7450 mm (24'5")	6440 mm (21'2")	5890 mm (19'4")
5	Minimum Loading Height	2410 mm (7'11")	2860 mm (9'5")	2280 mm (7'6")
6	Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6640 mm (21'9")	6160 mm (20'3")	5810 mm (19'1")
7	Maximum Vertical Wall Digging Depth	5300 mm (17'5")	4870 mm (16'0")	4250 mm (13'11")

324E L Hydraulic Excavator Specifications

Operating Weight and Ground Pressure

	790 mm (31") Triple Grouser Shoes				700 mm (28") Triple Grouser Shoes				600 mm (24") Double Grouser Shoes			
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Long Undercarriage												
HD Reach Boom – 5.9 m (19'4")												
R2.95CB1 HD (9'8")	25 887	57,071	42.0	6.08	25 627	56,498	46.9	6.80	25 187	55,528	53.7	7.79
R2.5CB1 HD (8'2")	25 827	56,939	41.9	6.07	25 567	56,366	46.8	6.78	25 127	55,395	53.6	7.78
Mass Boom – 5.3 m (17'5")												
M2.5DB (8'2")	26 307	57,997	42.6	6.18	26 047	57,424	47.6	6.91	25 607	56,454	54.6	7.92

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Undercarriage	14 300 kg (31,530 lb)
Counterweight	
4.0 mt (4.4 t)	4020 kg (8,860 lb)
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 5.9 m (19'4")	1740 kg (3,840 lb)
Mass Boom – 5.3 m (17'5")	1850 kg (4,080 lb)
Stick (includes lines, pins and bucket cylinder)	
R2.95CB1 HD (9'8")	840 kg (1,850 lb)
R2.5CB1 HD (8'2")	780 kg (1,720 lb)
M2.5DB (8'2")	970 kg (2,140 lb)
Track Shoe (Long/per two tracks)	
600 mm (24") Double Grouser	3220 kg (7,100 lb)
700 mm (28") Triple Grouser	3680 kg (8,120 lb)
790 mm (31") Triple Grouser	3940 kg (8,680 lb)
Buckets	
CB1 1200HD – 1.33 m^3 (1.74 yd^3)	1047 kg (2,309 lb)
CB1 1350HD – 1.54 m^3 (2.01 yd^3)	1096 kg (2,416 lb)
DB 1500GD – 1.87 m^3 (2.45 yd^3)	1227 kg (2,705 lb)
A 1145DC – 0.6 m^3 (0.78 yd^3)	288.9 kg (637 lb)

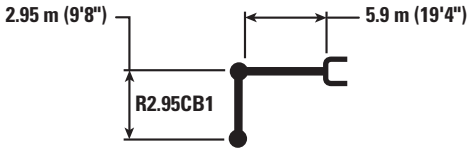
All weights are rounded up to nearest 10 kg and lb except for quick coupler and buckets. Kg and lb were rounded up separately so some of the kg and lb do not match.
Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.

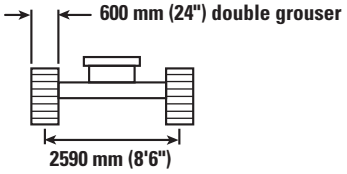
Bucket and Stick Forces

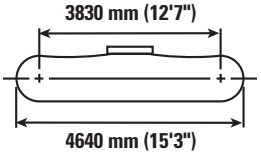
	Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	CB-Family Bucket		DB-Family Bucket
Stick	**R2.95CB1 (9'8")**	**R2.5CB1 (8'2")**	**M2.5DB (8'2")**
General Duty			
Bucket Digging Force (ISO)	167 kN (37,500 lbf)	167 kN (37,500 lbf)	212 kN (47,700 lbf)
Stick Digging Force (ISO)	121 kN (27,200 lbf)	141 kN (31,700 lbf)	138 kN (31,000 lbf)
Heavy Duty			
Bucket Digging Force (ISO)	166 kN (37,318 lbf)	166 kN (37,318 lbf)	210 kN (47,200 lbf)
Stick Digging Force (ISO)	121 kN (27,200 lbf)	141 kN (27,200 lbf)	137 kN (30,800 lbf)
Severe Duty			
Bucket Digging Force (ISO)	166 kN (37,318 lbf)	166 kN (37,318 lbf)	–
Stick Digging Force (ISO)	121 kN (27,201 lbf)	141 kN (31,698 lbf)	–
Ditch Cleaning			
Bucket Digging Force (ISO)	–	–	–
Stick Digging Force (ISO)	–	–	–

324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**					*7100 ***14,650**	7100 ***14,650**			*5900 ***13,100**	*5900 ***13,100**	6430 **250**
6000 mm **240 in**	kg **lb**					*7200 ***15,750**	7050 **15,100**	*5650	4850	*5600 ***12,350**	4850 **10,800**	7510 **300**
4500 mm **180 in**	kg **lb**			*9350 ***20,200**	*9350 ***20,200**	*8000 ***17,400**	6800 **14,600**	7150 **15,350**	4800 **10,250**	*5600 ***12,300**	4150 **9,150**	8180 **330**
3000 mm **120 in**	kg **lb**			*12 000 ***25,750**	9900 **21,300**	*9200 ***19,950**	6450 **13,900**	7000 **15,000**	4650 **9,950**	5700 **12,550**	3800 **8,350**	8540 **340**
1500 mm **60 in**	kg **lb**			*14 250 ***30,750**	9250 **19,900**	9550 **20,500**	6150 **13,200**	6800 **14,650**	4450 **9,600**	5550 **12,200**	3650 **8,050**	8610 **340**
0 mm **0 in**	kg **lb**			14 850 **31,800**	8900 **19,100**	9300 **19,950**	5900 **12,750**	6650 **14,350**	4350 **9,350**	5650 **12,450**	3700 **8,150**	8420 **340**
–1500 mm **–60 in**	kg **lb**	*11 050 ***25,100**	*11 050 ***25,100**	14 750 **31,550**	8800 **18,900**	9200 **19,750**	5800 **12,500**	6600 **14,250**	4300 **9,250**	6100 **13,500**	4000 **8,800**	7940 **320**
–3000 mm **–120 in**	kg **lb**	*18 100 ***41,150**	17 750 **37,900**	*14 150 ***30,550**	8850 **19,100**	9200 **19,850**	5850 **12,600**			7200 **16,000**	4700 **10,350**	7110 **280**
–4500 mm **–180 in**	kg **lb**	*15 700 ***33,650**	*15 700 ***33,650**	*11 550 ***24,650**	9100 **19,650**					*8600 ***18,900**	6400 **14,350**	5790 **230**

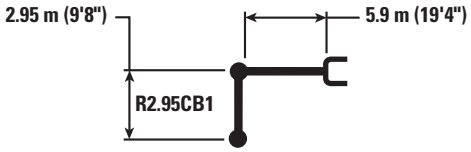
* **ISO 10567**

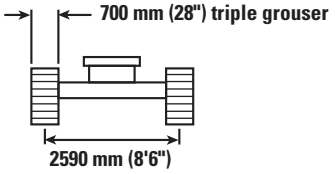
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

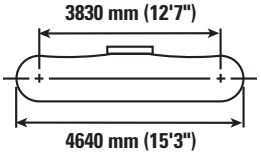
Lift capacity stays with ±5% for all available track shoes.

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

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**					*7100 ***14,650**	*7100 ***14,650**			*5900 ***13,100**	*5900 ***13,100**	6430 **250**
6000 mm **240 in**	kg **lb**					*7200 ***15,750**	7150 **15,350**	*5650	4950	*5600 ***12,350**	4900 **10,950**	7510 **300**
4500 mm **180 in**	kg **lb**			*9350 ***20,200**	*9350 ***20,200**	*8000 ***17,400**	6900 **14,850**	7250 **15,600**	4850 **10,450**	*5600 ***12,300**	4200 **9,300**	8180 **330**
3000 mm **120 in**	kg **lb**			*12 000 ***25,750**	10 050 **21,650**	*9200 ***19,950**	6550 **14,150**	7100 **15,250**	4700 **10,150**	5800 ***12,750**	3850 **8,500**	8540 **340**
1500 mm **60 in**	kg **lb**			*14 250 ***30,750**	9400 **20,200**	9700 **20,850**	6250 **13,450**	6900 **14,900**	4550 **9,800**	5650 **12,400**	3700 **8,200**	8610 **340**
0 mm **0 in**	kg **lb**			15 100 **32,350**	9050 **19,450**	9450 **20,300**	6000 **12,950**	6800 **14,600**	4450 **9,550**	5750 **12,650**	3800 **8,300**	8420 **340**
–1500 mm **–60 in**	kg **lb**	*11 050 ***25,100**	*11 050 ***25,100**	15 000 **32,100**	8950 **19,250**	9350 **20,100**	5900 **12,750**	6750 **14,500**	4400 **9,450**	6250 **13,750**	4050 **8,950**	7940 **320**
–3000 mm **–120 in**	kg **lb**	*18 100 ***41,150**	18 050 **38,550**	*14 150 ***30,550**	9000 **19,400**	9400 **20,150**	5950 **12,800**			7350 **16,250**	4750 **10,550**	7110 **280**
–4500 mm **–180 in**	kg **lb**	*15 700 ***33,650**	*15 700 ***33,650**	*11 550 ***24,650**	9250 **19,950**					*8600 ***18,900**	6500 **14,600**	5790 **230**

* **ISO 10567**

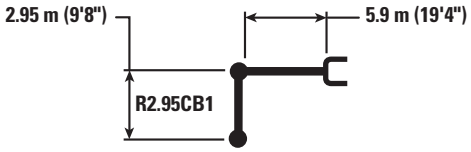
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

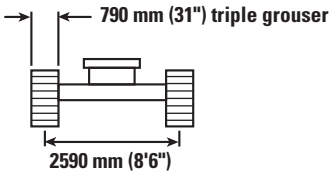
Lift capacity stays with ±5% for all available track shoes.

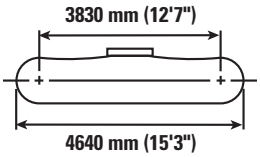
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**					*7100 ***14,650**	*7100 ***14,650**			*5900 ***13,100**	*5900 ***13,100**	6430 **250**
6000 mm **240 in**	kg **lb**					*7200 ***15,750**	*7200 **15,450**	*5650	5000	*5600 ***12,350**	4950 **11,050**	7510 **300**
4500 mm **180 in**	kg **lb**			*9350 ***20,200**	*9350 ***20,200**	*8000 ***17,400**	6950 **14,950**	7350 **15,750**	4900 **10,550**	*5600 ***12,300**	4250 **9,400**	8180 **330**
3000 mm **120 in**	kg **lb**			*12 000 ***25,750**	10 150 **21,850**	*9200 ***19,950**	6600 **14,250**	7150 **15,400**	4750 **10,250**	*5800 ***12,750**	3900 **8,600**	8540 **340**
1500 mm **60 in**	kg **lb**			*14 250 ***30,750**	9450 **20,400**	9800 **21,050**	6300 **13,550**	7000 **15,050**	4600 **9,900**	5700 **12,550**	3750 **8,250**	8610 **340**
0 mm **0 in**	kg **lb**			15 250 **32,650**	9150 **19,650**	9550 **20,500**	6100 **13,100**	6850 **14,750**	4500 **9,650**	5800 **12,800**	3800 **8,400**	8420 **340**
–1500 mm **–60 in**	kg **lb**	*11 050 ***25,100**	*11 050 ***25,100**	15 150 **32,400**	9050 **19,450**	9450 **20,300**	6000 **12,850**	6800 **14,650**	4450 **9,550**	6300 **13,850**	4100 **9,050**	7940 **320**
–3000 mm **–120 in**	kg **lb**	*18 100 ***41,150**	*18 100 **38,900**	*14 150 ***30,550**	9100 **19,600**	9500 **20,400**	6000 **12,950**			7400 **16,400**	4800 **10,650**	7110 **280**
–4500 mm **–180 in**	kg **lb**	*15 700 ***33,650**	*15 700 ***33,650**	*11 550 ***24,650**	9350 **20,150**					*8600 ***18,900**	6550 **14,750**	5790 **230**

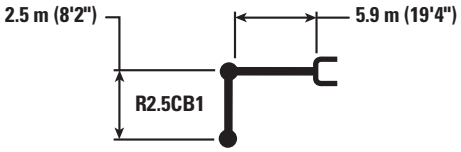
* **ISO 10567**

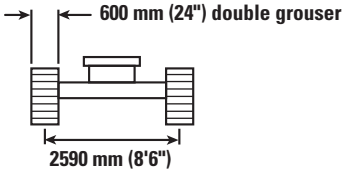
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

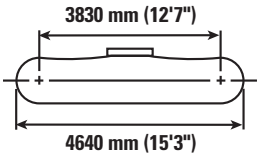
Lift capacity stays with ±5% for all available track shoes.

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

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**									*7900 ***17,450**	7250 **16,500**	5860 **230**
6000 mm **240 in**	kg **lb**					*7800 ***17,050**	6950 **14,900**			*7600 ***16,800**	5350 **11,900**	7040 **280**
4500 mm **180 in**	kg **lb**			*10 250 ***22,050**	*10 250 ***22,050**	*8550 ***18,550**	6700 **14,450**	7100 **15,250**	4750 **10,200**	6750 **14,900**	4500 **9,950**	7750 **310**
3000 mm **120 in**	kg **lb**			*12 800 ***27,550**	9700 **20,950**	*9650 ***20,950**	6400 **13,800**	6950 **14,950**	4600 **9,900**	6150 **13,550**	4100 **9,000**	8130 **320**
1500 mm **60 in**	kg **lb**			*14 850 ***32,000**	9150 **19,650**	9500 **20,450**	6100 **13,150**	6800 **14,650**	4500 **9,600**	5950 **13,100**	3950 **8,650**	8210 **330**
0 mm **0 in**	kg **lb**			14 850 **31,750**	8900 **19,100**	9300 **20,000**	5900 **12,750**	6700 **14,400**	4400 **9,400**	6100 **13,450**	4000 **8,850**	8000 **320**
–1500 mm **–60 in**	kg **lb**	*11 400 ***26,000**	*11 400 ***26,000**	14 800 **31,700**	8850 **19,050**	9250 **19,850**	5850 **12,600**			6700 **14,750**	4350 **9,650**	7500 **300**
–3000 mm **–120 in**	kg **lb**	*18 250 ***39,550**	18 000 **38,450**	*13 550 ***29,300**	9000 **19,300**	9300 **20,050**	5950 **12,800**			8100 **18,000**	5250 **11,650**	6610 **260**
–4500 mm **–180 in**	kg **lb**			*10 300 ***21,700**	9300 **20,050**					*8750 ***19,150**	7650 **17,350**	5150 **200**

* **ISO 10567**

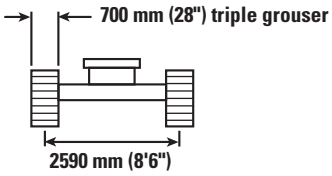
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

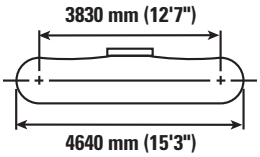
Lift capacity stays with ±5% for all available track shoes.

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

324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket





		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**									*7900 ***17,450**	7350 **16,700**	5860 **230**
6000 mm **240 in**	kg **lb**					*7800 ***17,050**	7050 **15,150**			*7600 ***16,800**	5400 **12,100**	7040 **280**
4500 mm **180 in**	kg **lb**			*10 250 ***22,050**	*10 250 ***22,050**	*8550 ***18,550**	6800 **14,700**	7200 **15,500**	4800 **10,350**	6850 **15,150**	4550 **10,100**	7750 **310**
3000 mm **120 in**	kg **lb**			*12 800 ***27,550**	9850 **21,250**	*9650 ***20,950**	6500 **14,000**	7100 **15,200**	4700 **10,100**	6250 **13,800**	4150 **9,150**	8130 **320**
1500 mm **60 in**	kg **lb**			*14 850 ***32,000**	9300 **20,000**	9650 **20,800**	6200 **13,350**	6900 **14,900**	4550 **9,800**	6050 **13,350**	4000 **8,800**	8210 **330**
0 mm **0 in**	kg **lb**			15 100 **32,300**	9050 **19,450**	9450 **20,300**	6000 **12,950**	6800 **14,650**	4450 **9,600**	6200 **13,700**	4100 **9,000**	8000 **320**
–1500 mm **–60 in**	kg **lb**	*11 400 ***26,000**	*11 400 ***26,000**	*15 050 **32,250**	9000 **19,350**	9400 **20,200**	5950 **12,850**			6800 **15,000**	4450 **9,800**	7500 **300**
–3000 mm **–120 in**	kg **lb**	*18 250 ***39,550**	*18 250 **39,050**	*13 550 ***29,300**	9150 **19,650**	9500 **20,400**	6050 **13,050**			8250 **18,300**	5350 **11,800**	6610 **260**
–4500 mm **–180 in**	kg **lb**			*10 300 ***21,700**	9450 **20,400**					*8750 ***19,150**	7800 **17,650**	5150 **200**

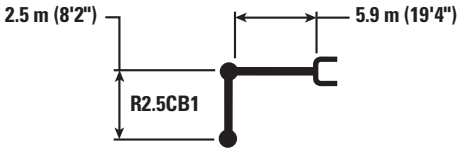
* **ISO 10567**

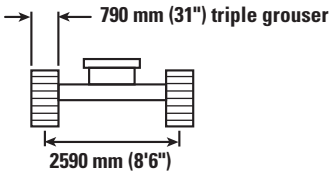
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

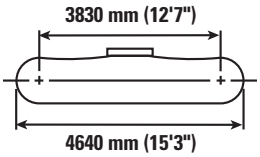
Lift capacity stays with ±5% for all available track shoes.

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

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**									*7900 ***17,450**	7400 **16,850**	5860 **230**
6000 mm **240 in**	kg **lb**					*7800 ***17,050**	7100 **15,250**			*7600 ***16,800**	5450 **12,200**	7040 **280**
4500 mm **180 in**	kg **lb**			*10 250 ***22,050**	*10 250 ***22,050**	*8550 ***18,550**	6900 **14,800**	7300 **15,650**	4850 **10,450**	6900 **15,300**	4600 **10,200**	7750 **310**
3000 mm **120 in**	kg **lb**			*12 800 ***27,550**	9950 **21,450**	*9650 ***20,950**	6550 **14,150**	7150 **15,350**	4750 **10,200**	6300 **13,900**	4200 **9,250**	8130 **320**
1500 mm **60 in**	kg **lb**			*14 850 ***32,000**	9350 **20,200**	9750 **21,000**	6250 **13,500**	7000 **15,050**	4600 **9,900**	6150 **13,500**	4050 **8,900**	8210 **330**
0 mm **0 in**	kg **lb**			15 250 **32,650**	9150 **19,650**	9550 **20,550**	6100 **13,100**	6900 **14,800**	4500 **9,700**	6300 **13,800**	4150 **9,100**	8000 **320**
–1500 mm **–60 in**	kg **lb**	*11 400 ***26,000**	*11 400 ***26,000**	*15 050 **32,550**	9100 **19,550**	9500 **20,400**	6050 **12,950**			6900 **15,150**	4500 **9,900**	7500 **300**
–3000 mm **–120 in**	kg **lb**	*18 250 ***39,550**	*18 250 **39,450**	*13 550 ***29,300**	9200 **19,850**	9550 **20,600**	6100 **13,150**			8300 **18,500**	5400 **11,950**	6610 **260**
–4500 mm **–180 in**	kg **lb**			*10 300 ***21,700**	9550 **20,600**					*8750 ***19,150**	7850 **17,800**	5150 **200**

* **ISO 10567**

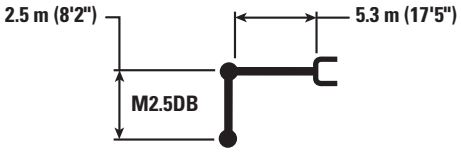
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

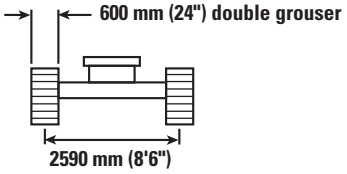
Lift capacity stays with ±5% for all available track shoes.

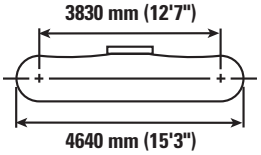
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

324E L Hydraulic Excavator Specifications

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm **300 in**	kg **lb**									*7900 ***17,650**	*7900 ***17,650**	5010 **200**
6000 mm **240 in**	kg **lb**					*8250 ***18,150**	6800 **14,600**			*7200 ***15,900**	6200 **13,850**	6350 **250**
4500 mm **180 in**	kg **lb**			*9850 ***21,300**	*9850 ***21,300**	*8650 ***18,850**	6650 **14,300**			*7050 ***15,550**	5000 **11,100**	7140 **280**
3000 mm **120 in**	kg **lb**			*12 200 ***26,350**	9900 **21,250**	*9650 ***20,900**	6400 **13,700**	6850	4500	6800 **15,050**	4500 **9,850**	7540 **300**
1500 mm **60 in**	kg **lb**			*14 400 ***31,050**	9250 **19,900**	9500 **20,450**	6100 **13,100**	6750 **14,500**	4400 **9,450**	6600 **14,450**	4300 **9,450**	7630 **300**
0 mm **0 in**	kg **lb**			14 900 **31,950**	8900 **19,150**	9300 **19,950**	5900 **12,650**			6800 **14,950**	4400 **9,650**	7410 **300**
–1500 mm **–60 in**	kg **lb**	*17 150 ***39,050**	*17 150 **37,700**	14 800 **31,750**	8850 **19,000**	9250 **19,850**	5850 **12,550**			7600 **16,750**	4900 **10,750**	6860 **270**
–3000 mm **–120 in**	kg **lb**	*18 350 ***39,700**	17 950 **38,400**	*13 200 ***28,400**	9000 **19,300**					*9550 ***21,050**	6150 **13,700**	5870 **230**

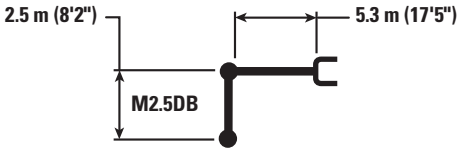
* **ISO 10567**

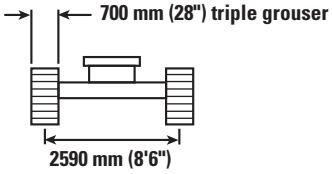
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

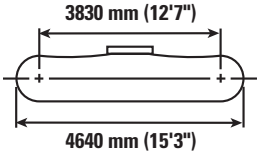
Lift capacity stays with ±5% for all available track shoes.

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

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm **in**
7500 mm **300 in**	kg **lb**									*7900 ***17,650**	*7900 ***17,650**	5010 **200**
6000 mm **240 in**	kg **lb**					*8250 ***18,150**	6900 **14,800**			*7200 ***15,900**	6250 **14,050**	6350 **250**
4500 mm **180 in**	kg **lb**			*9850 ***21,300**	*9850 ***21,300**	*8650 ***18,850**	6750 **14,550**			*7050 ***15,550**	5100 **11,300**	7140 **280**
3000 mm **120 in**	kg **lb**			*12 200 ***26,350**	10 050 **21,600**	*9650 ***20,900**	6500 **13,950**	7000	4600	6950 **15,300**	4550 **10,050**	7540 **300**
1500 mm **60 in**	kg **lb**			*14 400 ***31,050**	9400 **20,200**	9650 **20,800**	6200 **13,300**	6850 **14,750**	4500 **9,600**	6700 **14,750**	4350 **9,600**	7630 **300**
0 mm **0 in**	kg **lb**			15 150 **32,450**	9050 **19,500**	9450 **20,300**	6000 **12,900**			6900 **15,200**	4500 **9,850**	7410 **300**
–1500 mm **–60 in**	kg **lb**	*17 150 ***39,050**	*17 150 **38,300**	*15 000 **32,300**	9000 **19,300**	9400 **20,150**	5950 **12,800**			7700 **17,050**	4950 **10,950**	6860 **270**
–3000 mm **–120 in**	kg **lb**	*18 350 ***39,700**	18 250 **39,050**	*13 200 ***28,400**	9150 **19,650**					*9550 ***21,050**	6250 **13,900**	5870 **230**

* **ISO 10567**

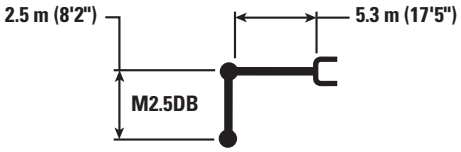
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from 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.

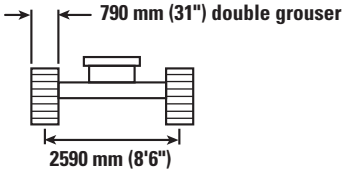
Lift capacity stays with ±5% for all available track shoes.

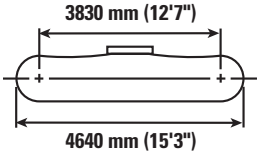
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

324E L Hydraulic Excavator Specifications

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm **300 in**	kg **lb**									*7900 ***17,650**	*7900 ***17,650**	5010 **200**
6000 mm **240 in**	kg **lb**					*8250 ***18,150**	7000 **14,950**			*7200 ***15,900**	6350 **14,200**	6350 **250**
4500 mm **180 in**	kg **lb**			*9850 ***21,300**	*9850 ***21,300**	*8650 ***18,850**	6850 **14,650**			*7050 ***15,550**	5150 **11,400**	7140 **280**
3000 mm **120 in**	kg **lb**			*12 200 ***26,350**	10 100 **21,800**	*9650 ***20,900**	6550 **14,050**	7050	4650	7000 **15,450**	4600 **10,150**	7540 **300**
1500 mm **60 in**	kg **lb**			*14 400 ***31,050**	9500 **20,400**	9750 **21,000**	6250 **13,450**	6950 **14,900**	4500 **9,700**	6750 **14,900**	4400 **9,700**	7630 **300**
0 mm **0 in**	kg **lb**			15 300 **32,800**	9150 **19,650**	9550 **20,500**	6050 **13,000**			6950 **15,350**	4550 **9,950**	7410 **300**
–1500 mm **–60 in**	kg **lb**	*17 150 ***39,050**	*17 150 **38,700**	*15 000 ***32,550**	9100 **19,500**	9500 **20,400**	6000 **12,900**			7800 **17,200**	5000 **11,050**	6860 **270**
–3000 mm **–120 in**	kg **lb**	*18 350 ***39,700**	*18 350 **39,400**	*13 200 ***28,400**	9200 **19,850**					*9550 ***21,050**	6300 **14,050**	5870 **230**

* **ISO 10567**

*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet 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 with ±5% for all available track shoes.

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

Work Tool Offering Guide*

Boom Type	HD Reach Booms		Mass Boom
Stick Size	**HD R2.95**	**HD R2.5**	**M2.5**
Hydraulic Hammer	H120E s H130E s H140E s***	H120E s H130E s H140E s***	H120E s H130E s*** H140E s***
Multi-Processor	MP15 CC Jaw MP15 CR Jaw MP15 PP Jaw MP15 PS Jaw MP15 S Jaw MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw ^^ MP20 PS Jaw MP20 S Jaw MP20 TS Jaw ^^	MP15 CC Jaw MP15 CR Jaw MP15 PP Jaw MP15 PS Jaw MP15 S Jaw MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw MP20 PS Jaw MP20 S Jaw MP20 TS Jaw	 MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw MP20 PS Jaw MP20 S Jaw MP20 TS Jaw
Crusher	P315 P325***	P315 P325***	 P325
Pulverizer	P215 P225	P215 P225	 P225
Demolition and Sorting Grapple	G320B	G320B	G320B G325B
Mobile Scrap and Demolition Shear	S320B S340B##	S320B S340B##	S320B S325B*** S340B##
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Orange Peel Grapple	These work tool are available for the 324E L. Consult your Cat dealer for proper match.		
Thumbs			
Rakes			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

* Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

** Pin-on or CW coupler

*** Pin-on only

Over the front only

Boom mount

^ Over the front only with CW coupler

^^ Over the front only with CL coupler

324E L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Reach Boom (HD)		Mass Boom
		mm	in	m^3	yd^3	kg	lb	%	R2.5 HD (8'2")	R2.95 HD (9'8")	R2.5 (8'2")
Without Quick Coupler										**324E L**	
Ditch Cleaning (DC)	A	1238	49	0.57	0.75	289	637	100			
	A	770	30	0.69	0.90	377	830	100			
General Duty (GD)	CB	600	24	0.63	0.83	724	1,595	100	●	●	
	CB	750	30	0.86	1.13	810	1,785	100	●	●	
	CB	900	36	1.09	1.43	907	1,998	100	●	●	
	CB	1050	42	1.34	1.75	979	2,157	100	●	●	
	CB	1200	48	1.58	2.07	1070	2,358	100	●	◉	
	CB	1350	54	1.83	2.40	1164	2,564	100	◉	⊖	
Heavy Duty (HD)	CB	600	24	0.52	0.68	763	1,681	100	●	●	
	CB	750	30	0.71	0.93	847	1,866	100	●	●	
	CB	900	36	0.91	1.19	935	2,061	100	●	●	
	CB	1050	42	1.12	1.46	1024	2,256	100	●	●	
	CB	1200	48	1.33	1.74	1095	2,413	100	●	●	
	CB	1350	54	1.54	2.02	1188	2,618	100	●	◉	
	DB	1500	60	1.88	2.46	1624	3,579	100			⊖
Severe Duty (SD)	CB	600	24	0.52	0.68	810	1,784	90	●	●	
	CB	750	30	0.71	0.93	902	1,987	90	●	●	
	CB	900	36	0.91	1.19	999	2,202	90	●	●	
	CB	1050	42	1.12	1.46	1097	2,417	90	●	●	
	CB	1200	48	1.33	1.74	1178	2,595	90	●	●	
							Maximum load pin-on (payload + bucket)	kg	4405	4030	4750
								lb	9,709	8,882	10,469
							Maximum Standard Bucket Width	in	54	54	66
With Center-Lock Coupler										**324E L**	
General Duty (GD)	CB	600	24	0.63	0.83	724	1,595	100	●	●	
	CB	750	30	0.86	1.13	810	1,785	100	●	●	
	CB	900	36	1.09	1.43	907	1,998	100	●	●	
	CB	1050	42	1.34	1.75	979	2,157	100	●	◉	
	CB	1200	48	1.58	2.07	1070	2,358	100	◉	⊖	
	CB	1350	54	1.83	2.40	1164	2,564	100	⊖	○	
Heavy Duty (HD)	CB	600	24	0.52	0.68	763	1,681	100	●	●	
	CB	750	30	0.71	0.93	847	1,866	100	●	●	
	CB	900	36	0.91	1.19	935	2,061	100	●	●	
	CB	1050	42	1.12	1.46	1024	2,256	100	●	●	
	CB	1200	48	1.33	1.74	1095	2,413	100	●	◉	
	CB	1350	54	1.54	2.02	1188	2,618	100	◉	⊖	
	DB	1500	60	1.88	2.46	1624	3,579	100			○
Severe Duty (SD)	CB	600	24	0.52	0.68	810	1,784	90	●	●	
	CB	750	30	0.71	0.93	902	1,987	90	●	●	
	CB	900	36	0.91	1.19	999	2,202	90	●	●	
	CB	1050	42	1.12	1.46	1097	2,417	90	●	●	
	CB	1200	48	1.33	1.74	1178	2,595	90	●	◉	
							Maximum load pin-on (payload + bucket)	kg	3900	3525	4192
								lb	8,597	7,770	9,239
							Maximum Standard Bucket Width	in	54	54	66

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 over the side with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

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.

Standard Equipment

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

ENGINE
- C7.1 ACERT diesel engine
- Biodiesel capable
- EU Stage IIIB and U.S. EPA Tier 4 Interim emissions
- 2300 m (7546') altitude capability
- Electric priming pump
- Automatic engine speed control
- Standard, economy and high power modes
- Two-speed travel
- Side-by-side cooling system
- Radial seal air filter
- Air pre-filter
- Primary filter with water separator and water separator indicator switch
- Fuel differential indicator switch in fuel line
- Quick drains, engine and hydraulic oil

HYDRAULIC SYSTEM
- 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
- Capability of installing Cat Bio hydraulic oil

CAB
- Seat, high-back air suspension with heater and ventilator
- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window (left-hand cab door)
- Glass-breaking safety hammer
- Coat hook
- Beverage holder
- Literature holder
- Two 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 and tempered other windows
- Windshield wiper, radial type
- Sunscreen
- MP3-Ready Radio
- Openable roof hatch
- Travel alarm

UNDERCARRIAGE
- Grease Lubricated Track GLT2, resin seal
- Towing eye on base frame
- Heavy-duty bottom guard
- Swivel guard
- HD travel motor guards
- Center track guiding guard

COUNTERWEIGHT
- 4.0 mt (4.4 t)

ELECTRICAL
- 80 amp alternator
- Circuit breaker

LIGHTS
- Boom light with time delay
- Cab lights with time delay
- 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
- Rearview camera

TECHNOLOGY
- Product Link

324E L Optional Equipment

Optional Equipment

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

ENGINE
- Starting kit, cold weather, –32° C (–25.6° F)

HYDRAULIC SYSTEM
- Additional circuit
- Boom and stick lines
- High-pressure line
- Medium-pressure line
- Cat quick coupler line – high- and medium-pressure capable
- Quick coupler tool control system
- Tool 20, Electronic Control device, 1/2P, common circuit
- Boom lowering control device
- Stick lowering control device

UNDERCARRIAGE
- 600 mm (24") double grouser shoes
- 700 mm (28") triple grouser shoes
- 790 mm (31") triple grouser shoes
- Guard, full length
- Segmented (2 piece) track guiding guard

FRONT LINKAGE
- Heavy-duty reach boom 5.9 m (19'4")
  - R2.5CB1 HD (8'2") stick
  - R2.95CB1 HD (9'8") stick
- Bucket linkage, CB1 family with lifting eye
- Mass boom 5.3 m (17'5")
  - M2.5DB (8'2") stick
- Bucket linkage, DB family with lifting eye

LIGHTS
- Halogen lights, cab mounted
- HID lights, cab mounted

SECURITY
- FOGS, bolt-on
- Guard, cab front, mesh
- Cat MSS (anti-theft device)

TECHNOLOGY
- Cat Grade Control Depth and Slope

Notes

Notes

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

AEHQ7064 (09-2013)
(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.