

320E L

Hydraulic Excavator



Engine

| | | |
|-------------------------|------------------|--------|
| Engine Model | Cat® C6.6 ACERT™ | |
| Net Power – SAE J1349 | 114 kW | 153 hp |
| Gross Power – SAE J1995 | 122 kW | 164 hp |

Drive

| | | |
|----------------------|----------|------------|
| Maximum Travel Speed | 5.6 km/h | 3.5 mph |
| Maximum Drawbar Pull | 205 kN | 46,086 lbf |

Weight

| | | |
|----------------|-----------|-----------|
| Minimum Weight | 21 500 kg | 47,400 lb |
| Maximum Weight | 24 730 kg | 54,450 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 320E will continue that trend-setting standard.

The 320E meets today's U.S. EPA Tier 4 Interim 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 320E and the E Series family of excavators.

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Engine

Reduced emissions, economical and reliable performance

Cat® C6.6 ACERT™ Engine

The Cat C6.6 ACERT engine delivers more horsepower using significantly less fuel than the previous series engine.

Emissions Solution

Equipped to meet U.S. EPA Tier 4 Interim emission standards, the 320E's C6.6 ACERT engine features an aftertreatment regeneration solution that requires no operator intervention. The regeneration process automatically starts once the filtering system reaches a certain level – with no interruption to machine performance or the work process.

Biodiesel-Ready Fuel System

The C6.6 ACERT engine is equipped with an electronic-controlled high-pressure fuel system that includes an electric priming pump and three-layer fuel hoses to allow the use of biodiesel (meeting ASTM 6751 or EN 14214) up to B20 (biodiesel 20% mixture).

Cooling System

The cooling system features an air-to-air aftercooler and A/C condenser that tilt up and swing out of the way for easy servicing; the viscous fan automatically adjusts to ambient temperatures to help reduce fuel consumption and noise.

Speed and Power Control

The 320E 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

The seat range includes air suspension, heated, options. 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 (1) can be adjusted to meet individual preferences, improving operator comfort and productivity during the course of a day. With the touch of a button, one-touch idle reduces engine speed to help save fuel; touch it again or move the joystick and the machine returns to normal operating level.

Monitor

The 320E is equipped with a 7" LCD (Liquid Crystal Display) monitor (2) 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.

Power Supply

Two 12-volt power supply sockets are located near key storage areas for charging electronic devices.

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 and Auxiliary Valves

The 320E uses a high-pressure hydraulic system to tackle the toughest of work in short order. A highly efficient and simple back-to-back main control valve improves fuel consumption and allows for greater tool versatility.

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 enhanced boom lowering speed for greater controllability.

Heavy Lift

The 320E features a heavy lift mode, which increases machine system pressure to improve lift over the front of the machine – a nice benefit in challenging situations. The system's pressure increase combined with a reduction in engine speed and heavier counterweight option give operators better control when lifting robust objects like concrete pipe and road construction barriers.

Structures & Undercarriage

Built to work in rugged environments



Frame

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

Undercarriage

Fixed gauge long undercarriage systems are available to support various work applications. Heavy-duty track rollers, precision-forged carrier rollers, press-fit pin master joints, and enhanced track shoe bolts improve durability and reduce the risk of machine downtime and the need and cost to replace components. Also, a segmented two-piece guiding guard is now offered to help maintain track alignment and improve performance in multiple applications.

Counterweights

Three counterweight options are available: 3.55 mt (3.9 ton), 4.6 mt (5.1 ton) for super long reach, and 5.4 mt (5.9 ton) for heavy counterweight configuration. 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 320E 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 three basic boom options: HD, ES, and SLR. Sticks match the boom descriptions and applications below:

- **HD = Heavy Duty** – This type of 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.
- **ES = Extreme Service** – This type of boom is best used for demolition or extreme applications where stress loads on the boom are increased. It should be used for demanding, harsh applications like 100% rock and extensive hammer use.
- **SLR = Super Long Reach** – This front offers reaches to over 51 feet. It is well suited for ditch cleaning applications.

Work Tools

Dig, hammer, rip, and cut with confidence



An extensive range of Cat Work Tools for the 320E includes buckets, compactors, contractors' grapples, trash grapples, scrap and demolition shears, pulverizers, hammers and thumbs. 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 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 320E 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.

Caterpillar offers standard bucket categories for excavators. Each category is based on intended bucket durability when used in recommended application and material. Buckets are available as pin-on or can be used with a quick coupler.

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. Red area on bucket image illustrates additional protection against wear as compared to a GD bucket.

Specialty Buckets

In addition to the standard four bucket categories, specialty bucket styles are available for the 320E, each with a different purpose:

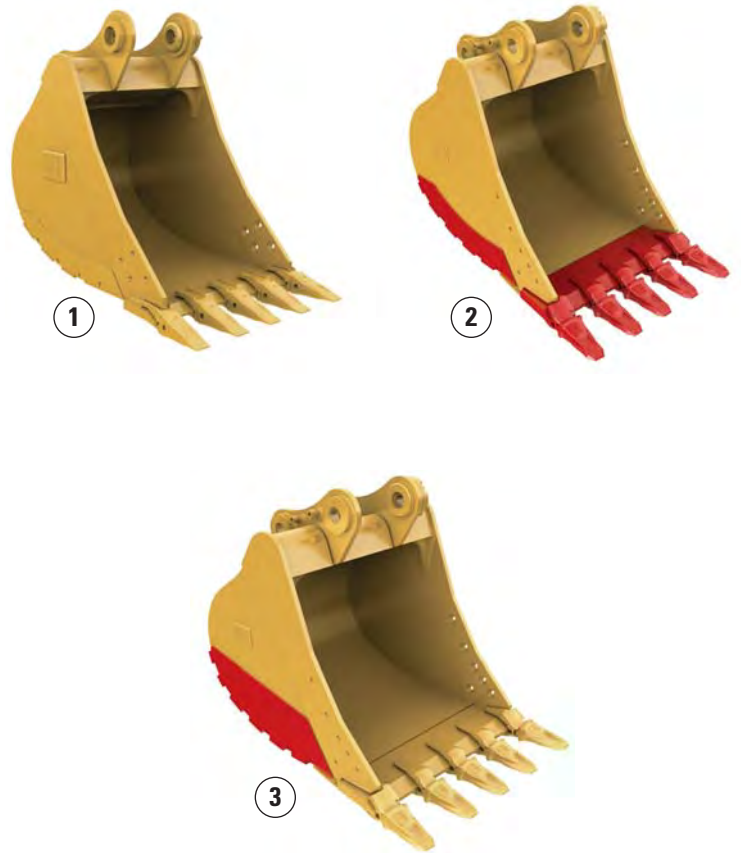
- **Ditch Cleaning** buckets for cleaning ditches, slope grading, and other finish work.
- **Center-Lock Pin Grabber Performance** buckets for maximum digging performance while keeping the versatility and convenience of a coupler.
- **Wide Tip** buckets for low impact material where leaving a smoother floor and minimal spillage are necessary.

Hydraulic Kits

Caterpillar offers field-installed hydraulic kits that are uniquely designed to integrate Cat Work Tool attachments with Cat Excavators. Hoses and tubes are pre-made, pre-shaped, and pre-painted to make installation quick and easy.

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



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 optional system is deeply integrated into the machine monitoring system and 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 (2 and 3) 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 and a one-piece hood (1) 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 pump (2), radiator (3), and air cleaner compartments provide ample access to major components and regular service items like fuel and oil filters. The fresh air filter is located on the side of the cab to make it easy to reach and replace as needed. A tilt-up ATAAC and swing-out A/C condenser make cleaning cores a much easier task to perform.

Other Service Enhancements

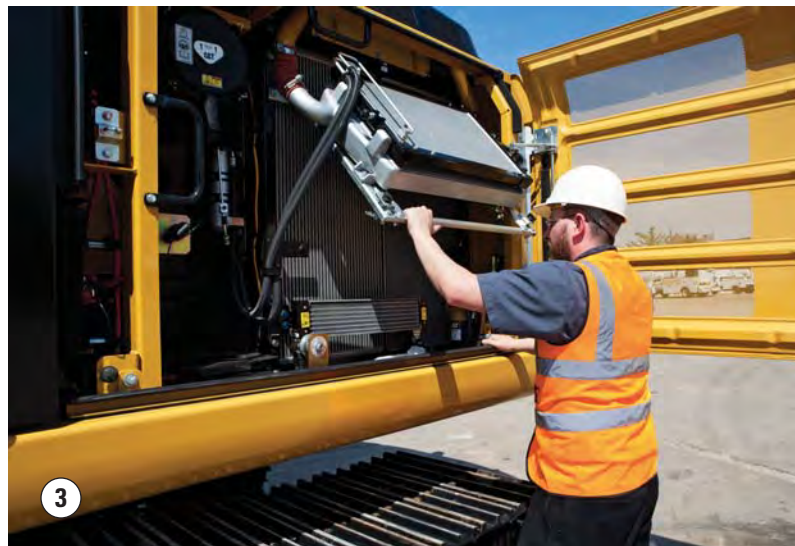
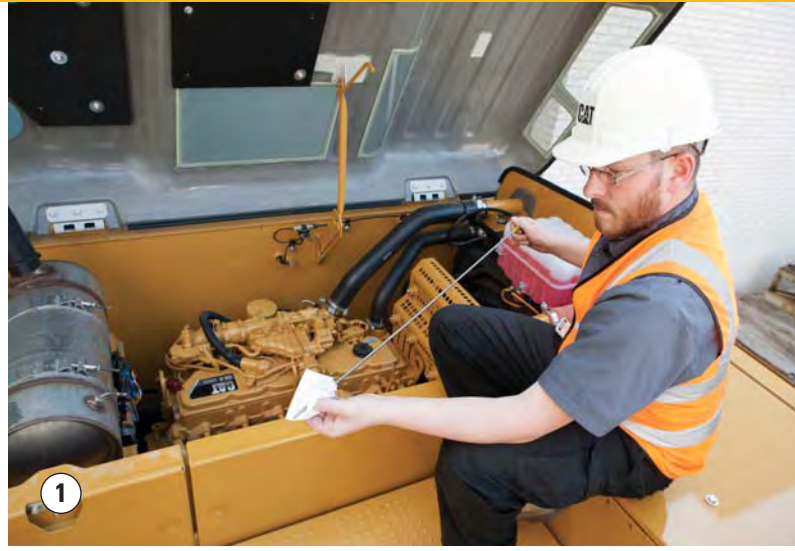
The water separator with water level sensor has a primary fuel filter element located in the pump compartment near ground level.

The electric priming pump is mounted before the primary filter base and is easy to service compared to a traditional hand-priming pump.

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

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

Hydraulic lash adjusters automatically adjust valve opening and closing events to help reduce fuel consumption and engine noise. They also eliminate the need for a valve lash, which reduces maintenance for the customer.



Safety

Features to help protect people



ROPS Cab

The ROPS-certified cab allows a Falling Object Guard Structure (FOGS) to be bolted directly to it.

Sound Proofing

Improved sealing and cab roof lining lower noise levels by 5 dB inside the cab – a significant benefit to operators.

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 (1) on the track frame and storage box along with extended hand (2) and guard rails 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.

Windows

Two windshield options are available: 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.

Monitor Warning System

The machine’s advanced diagnostic system features a buzzer in the monitor to communicate to operators critical events like full filters or low hydraulic fluid levels so they can take immediate action.

Rearview Camera

The standard rearview camera (3) is housed in the counterweight. The image projects through the cab monitor to give the operator a clear view of what is behind the machine.



Complete Customer Care

Service you can count on

Product Support

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

Machine Selection

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

Purchase

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

Customer Support Agreements

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

Operation

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

Replacement

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



Sustainability

Generations ahead in every way

- The C6.6 ACERT engine, along with the Cat Clean Emissions Module (CEM), meets U.S. Tier 4 Interim emission standards.
- The 320E 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.
- Even when operating in high horsepower and high production applications, the 320E performs a similar amount of work as the previous D Series model with significantly reduced fuel consumption.
- The 320E is quieter inside and out, which benefits operators and the surrounding environment.
- An overfill indicator rises when the fuel tank is full to help the operator avoid spilling.
- The QuickEvac™ option ensures fast, easy, and secure changing of engine and hydraulic oil.
- The 320E 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 320E is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.

320E L Hydraulic Excavator Specifications

Engine

| | | |
|-------------------------|------------------|---------------------|
| Engine Model | Cat® C6.6 ACERT™ | |
| Net Power – SAE J1349 | 114 kW | 153 hp |
| Gross Power – SAE J1995 | 122 kW | 164 hp |
| Bore | 105 mm | 4.1 in |
| Stroke | 127 mm | 5.0 in |
| Displacement | 6.6 L | 403 in ³ |

Weights

| | | |
|----------------------------|-----------|-----------|
| Minimum Operating Weight* | 21 500 kg | 47,400 lb |
| Maximum Operating Weight** | 24 730 kg | 54,450 lb |

*HD 5.7 m (18'8") boom, HD 3.9 m (12'10") stick, 3.55 mt (3.9 ton) counterweight, 1.19 m³ (1.56 yd³), 600 mm (24") shoes.

**HD 5.7 m (18'8") boom, ES 2.9 m (9'6") stick, 5.4 mt (5.9 ton) counterweight (heavy counterweight configuration), 1.19 m³ (1.56 yd³), 790 mm (31") shoes.

Hydraulic System

| | | |
|------------------------------------|------------|---------------|
| Main System – Maximum Flow (Total) | 428 L/min | 113.1 gal/min |
| Swing System – Maximum Flow | 214 L/min | 56.5 gal/min |
| Auxiliary Circuit | | |
| Maximum Flow – Primary | 214 L/min | 56.5 gal/min |
| Maximum Flow – Secondary | 214 L/min | 56.5 gal/min |
| Maximum Pressure – Equipment | | |
| Heavy Lift | 38 000 kPa | 5,511 psi |
| Normal | 35 000 kPa | 5,076 psi |
| Maximum Pressure – Travel | 35 000 kPa | 5,076 psi |
| Maximum Pressure – Swing | 25 000 kPa | 3,626 psi |
| Pilot System – Maximum Flow | 24.3 L/min | 6.4 gal/min |
| Pilot System – Maximum Pressure | 3920 kPa | 569 psi |
| Boom Cylinder – Bore | 120 mm | 4.7 in |
| Boom Cylinder – Stroke | 1260 mm | 49.6 in |
| Stick Cylinder – Bore | 140 mm | 5.5 in |
| Stick Cylinder – Stroke | 1504 mm | 59.2 in |
| B1 Bucket Cylinder – Bore | 120 mm | 4.7 in |
| B1 Bucket Cylinder – Stroke | 1104 mm | 43.5 in |

Drive

| | | |
|----------------------|----------|------------|
| Maximum Travel Speed | 5.6 km/h | 3.5 mph |
| Maximum Drawbar Pull | 205 kN | 46,086 lbf |

Swing Mechanism

| | |
|--------------|------------------------|
| Swing Speed | 11.2 rpm |
| Swing Torque | 61.8 kN·m 45,581 lb-ft |

Service Refill Capacities

| | | |
|-----------------------------------|-------|-----------|
| Fuel Tank Capacity | 410 L | 108.3 gal |
| Cooling System | 30 L | 7.9 gal |
| Engine Oil (with filter) | 23 L | 6.1 gal |
| Swing Drive | 8 L | 2.1 gal |
| Final Drive (each) | 8 L | 2.1 gal |
| Hydraulic System (including tank) | 260 L | 68.7 gal |
| Hydraulic Tank | 143 L | 37.8 gal |

Track

| | |
|---------------------------------------|-----------|
| Number of Shoes (each side) | |
| Long Undercarriage | 49 pieces |
| Number of Track Rollers (each side) | |
| Long Undercarriage | 8 pieces |
| Number of Carrier Rollers (each side) | |
| Long Undercarriage | 2 pieces |

Sound Performance

| | |
|------------------------------------|-----------|
| Operator Noise (Closed) – ISO 6396 | 71 dB(A) |
| Spectator Noise – ISO 6395 | 103 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 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 noisy environment.

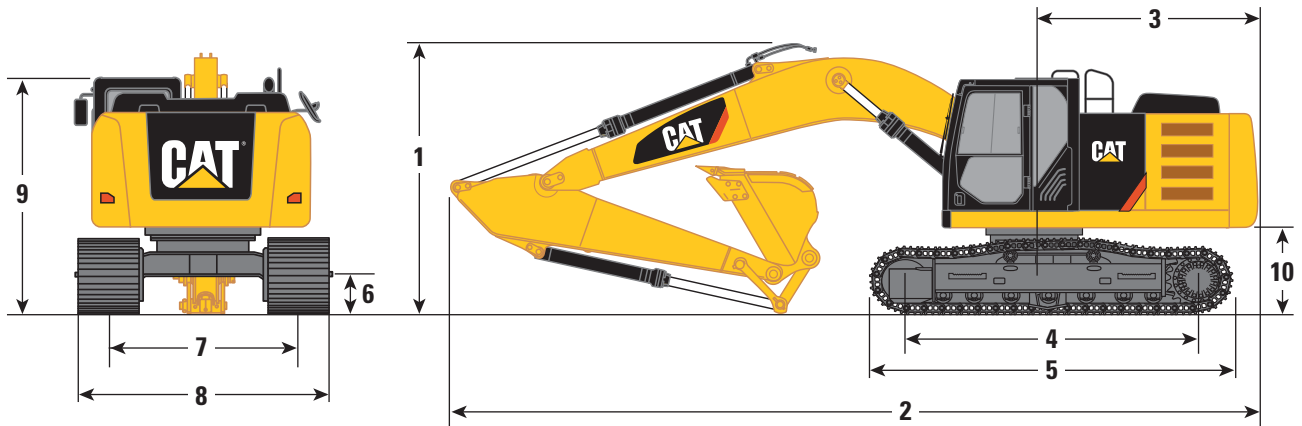
Standards

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

320E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



| Stick | Heavy Duty and Extreme Service Booms 5.7 m (18'8") | | Super Long Reach Boom 8.85 m (29'0") |
|--------------------------------------|---|-------------------|---|
| | 3.9B1 (12'10")* | 2.9B1 (9'6")** | Super Long Reach 6.28 m (20'6")*** |
| | mm (ft) | mm (ft) | mm (ft) |
| 1 Shipping Height† | 3740 (12'3") | 3130 (10'4") | 3180 (10'4") |
| Shipping Height with Guard Rail | 3240 (10'8") | 3240 (10'8") | 3240 (10'8") |
| Shipping Height with Top Guard | 3150 (10'3") | 3150 (10'3") | 3150 (10'3") |
| 2 Shipping Length | 9340 (30'8") | 9540 (31'4") | 14 070 (46'2") |
| 3 Tail Swing Radius | 2830 (9'3") | 2830 (9'3") | 2830 (9'3") |
| 4 Length to Center of Rollers | 3650 (12'0") | 3650 (12'0") | 3650 (12'0") |
| 5 Track Length | 4460 (14'6") | 4460 (14'6") | 4460 (14'6") |
| 6 Ground Clearance | 450 (1'6") | 450 (1'6") | 450 (1'6") |
| 7 Track Gauge | 2380 (7'10") | 2380 (7'10") | 2380 (7'10") |
| 8 Transport Width | | | |
| 600 mm (24") Shoes | 2980 (9'9") | 2980 (9'9") | 2980 (9'9") |
| 790 mm (31") Shoes | 3170 (10'5") | 3170 (10'5") | 3170 (10'5") |
| 9 Cab Height | 2960 (9'9") | 2960 (9'9") | 2960 (9'9") |
| Cab Height with Top Guard | 3150 (10'3") | 3150 (10'3") | 3150 (10'3") |
| 10 Counterweight Clearance†† | 1020 (3'4") | 1020 (3'4") | 1020 (3'4") |

*Cat 900 mm (36"), 0.81 m³ (1.06 yd³) GD bucket with 1557 mm (5'1") tip radius.

**Cat 1200 mm (48"), 1.19 m³ (1.56 yd³) HD bucket with 1571 mm (5'2") tip radius.

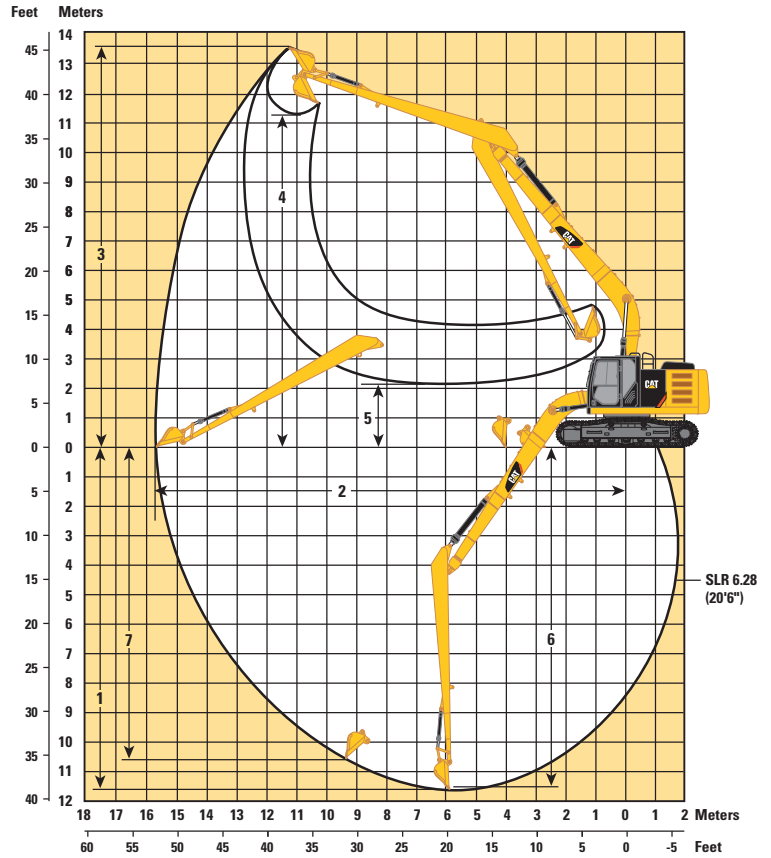
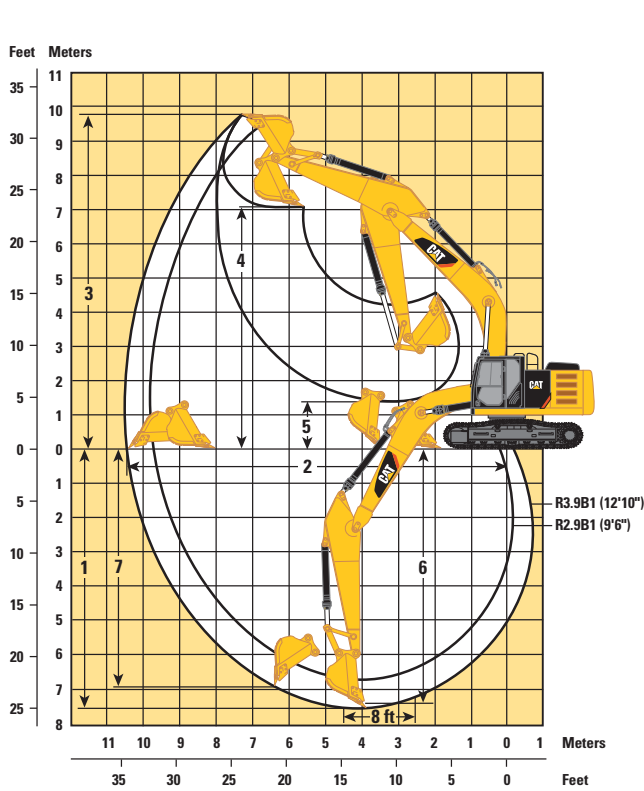
***Cat 1100 mm (44"), 0.61 m³ (0.8 yd³) ditch cleaning bucket with 1092 mm (3'7") tip radius.

†Including shoe lug height without guard rail.

††Without shoe lug height.

Working Ranges

All dimensions are approximate.



Heavy Duty and Extreme Service Booms 5.7 m (18'8")

Super Long Reach Boom 8.85 m (29'0")

| Stick | 3.9B1 (12'10")* | 2.9B1 (9'6")** | Super Long Reach 6.28 m (20'6")*** |
|---|--------------------|-------------------|---------------------------------------|
| | mm (ft) | mm (ft) | mm (ft) |
| 1 Maximum Digging Depth | 7580 (24'10") | 6720 (22'1") | 11 690 (38'4") |
| 2 Maximum Reach at Ground Level | 10 680 (35'0") | 9860 (30'9") | 15 720 (51'6") |
| 3 Maximum Cutting Height | 9890 (32'4") | 9370 (30'7") | 13 590 (44'6") |
| 4 Maximum Loading Height | 7030 (23'0") | 6490 (21'4") | 11 290 (37'0") |
| 5 Minimum Loading Height | 1310 (4'4") | 2170 (7'1") | 2090 (6'9") |
| 6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom | 7440 (24'4") | 6550 (21'6") | 11 590 (38'0") |
| 7 Maximum Vertical Wall Digging Depth | 6910 (22'7") | 5060 (16'7") | 10 670 (35'0") |

*Cat 900 mm (36"), 0.81 m³ (1.06 yd³) GD bucket with 1557 mm (5'1") tip radius.

**Cat 1200 mm (48"), 1.19 m³ (1.56 yd³) HD bucket with 1571 mm (5'2") tip radius.

***Cat 1100 mm (44"), 0.61 m³ (0.8 yd³) ditch cleaning bucket with 1092 mm (3'7") tip radius.

320E L Hydraulic Excavator Specifications

Major Component Weights

| | kg | lb |
|---|--------|--------|
| Base Machine (with boom cylinder, without counterweight, front linkage and track) | 11 300 | 24,920 |
| Long Undercarriage | 7850 | 17,300 |
| Counterweight | | |
| 3.55 mt (3.9 ton) Standard | 3550 | 7,830 |
| 4.6 mt (5.1 ton) Super Long Reach | 4600 | 10,140 |
| 5.4 mt (5.9 ton) Heavy | 5400 | 11,910 |
| Boom (includes lines, pins and stick cylinder) | | |
| Boom HD – 5.7 m (18'8") | 1720 | 3,790 |
| Boom ES – 5.7 m (18'8") | 2010 | 4,430 |
| Boom HD for CGC – 5.7 m (18'8") | 1730 | 3,810 |
| Boom ES for CGC – 5.7 m (18'8") | 2020 | 4,450 |
| Super Long Reach – 8.85 m (29'0") | 2400 | 5,290 |
| Stick (includes lines, pins and bucket cylinder) | | |
| 3.9B1 (12'10") HD | 930 | 2,060 |
| 2.9B1 (9'6") HD | 680 | 1,510 |
| 2.9B1 (9'6") ES | 840 | 1,850 |
| 2.9B1 (9'6") HD for CGC | 690 | 1,530 |
| 2.9B1 (9'6") ES for CGC | 850 | 1,870 |
| Super Long Reach | 1240 | 2,740 |
| Track Shoe (Long/per two tracks) | | |
| 600 mm (24") Triple Grouser | 2700 | 5,940 |
| 790 mm (31") Triple Grouser | 3360 | 7,410 |
| 790 mm (31") Triple Grouser HD | 3800 | 8,370 |
| Quick Coupler | | |
| Center-Lock 252 | 420 | 920 |
| Buckets | | |
| B1 900 mm (36") GD 347-6707 SAE 0.8 m ³ (1.06 yd ³) | 650 | 1,420 |
| B1 1200 mm (48") HD 347-6731 SAE 1.19 m ³ (1.56 yd ³) | 930 | 2,050 |

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.

Operating Weight and Ground Pressure

| | 320E L | | | |
|--|--------------------------------------|-------------|--------------------------------------|-------------|
| | 790 mm (31") Triple Grouser Shoes | | 600 mm (24") Triple Grouser Shoes | |
| | kg (lb) | kPa (psi) | kg (lb) | kPa (psi) |
| Boom HD – 5.7 m (18'8") | | | | |
| 3.9B1 (12'10") HD | 22 200 (48,940) | 35.0 (5.08) | 21 500 (47,400) | 44.7 (6.48) |
| 2.9B1 (9'6") HD | 22 200 (48,940) | 35.1 (5.10) | 21 600 (47,620) | 44.9 (6.51) |
| 2.9B1 (9'6") ES | 22 400 (49,380) | 35.4 (5.13) | 21 700 (47,840) | 45.2 (6.56) |
| 2.9B1 (9'6") ES with Heavy Counterweight | 24 700 (54,450) | 38.9 (5.64) | | |
| Boom ES – 5.7 m (18'8") | | | | |
| 3.9B1 (12'10") HD | 22 500 (49,600) | 35.5 (5.15) | 21 800 (48,060) | 45.4 (6.58) |
| 2.9B1 (9'6") HD | 22 600 (49,820) | 35.7 (5.18) | 21 900 (48,280) | 45.6 (6.61) |
| 2.9B1 (9'6") ES | 22 700 (50,040) | 35.9 (5.21) | 22 100 (48,720) | 45.9 (6.66) |
| Super Long Reach Boom – 8.85 m (29'0") | | | | |
| 6.28 m (20'6") SLR | 23 500 (51,810) | 37.1 (5.38) | 22 800 (50,270) | 47.4 (6.87) |

Bucket and Stick Forces

| Stick | Heavy Duty and Extreme Service Booms 5.7 m (18'8") | | Super Long Reach Boom 8.85 m (29'0") |
|----------------------------|---|-----------------|---|
| | 3.9B1 (12'10") | 2.9B1 (9'6") | Super Long Reach 6.28 m (20'6") |
| B1 – Family Bucket | kN (lbf) | kN (lbf) | kN (lbf) |
| General Duty | | | |
| Bucket Digging Force (ISO) | 140.5 (31,600) | 140.5 (31,600) | 45.5 (10,200) |
| Stick Digging Force (ISO) | 89.7 (20,200) | 106.7 (24,000) | 35.4 (8,000) |
| Bucket Digging Force (SAE) | 125.9 (28,300) | 125.9 (28,300) | 51.2 (11,500) |
| Stick Digging Force (SAE) | 87.8 (19,700) | 103.9 (23,400) | 35.8 (8,000) |
| Heavy Duty | | | |
| Bucket Digging Force (ISO) | 140.2 (31,500) | 150.4 (33,800) | |
| Stick Digging Force (ISO) | 89.6 (20,100) | 106.4 (23,900) | |
| Bucket Digging Force (SAE) | 124.4 (28,000) | 133.5 (30,000) | |
| Stick Digging Force (SAE) | 87.6 (19,700) | 103.2 (23,200) | |
| Severe Duty | | | |
| Bucket Digging Force (ISO) | 140.2 (31,500) | 150.4 (33,800) | |
| Stick Digging Force (ISO) | 89.6 (20,100) | 106.4 (23,900) | |
| Bucket Digging Force (SAE) | 124.4 (28,000) | 133.5 (30,000) | |
| Stick Digging Force (SAE) | 87.6 (19,700) | 103.2 (23,200) | |

320E L Hydraulic Excavator Specifications

HD Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.7 m (18'8")

















Counterweight – 3.55 mt (3.9 t)

Bucket – None

Stick – 3.9B1 (12'10")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

|  | 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 | | 9.0 m/30.0 ft | |  | | m ft | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|-----------------|---------------|
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
| 7.5 m 25.0 ft | kg lb | | | | | | | | | | | | | *3000 *6,600 | *3000 *6,600 | 7.32 23.69 |
| 6.0 m 20.0 ft | kg lb | | | | | | | | *4550 *9,600 | 3800 8,150 | | | | *2800 *6,150 | *2800 *6,150 | 8.29 27.05 |
| 4.5 m 15.0 ft | kg lb | | | | | | | | *4800 *10,550 | 3750 8,000 | | | | *2750 *6,050 | *2750 *6,050 | 8.91 29.17 |
| 3.0 m 10.0 ft | kg lb | | | | *7150 *15,450 | *7150 *15,450 | *5950 *12,850 | 5050 10,900 | *5300 *11,550 | 3600 7,750 | *3850 *7,150 | 2700 5,750 | | *2800 *6,150 | 2550 5,650 | 9.25 30.31 |
| 1.5 m 5.0 ft | kg lb | | | *9800 *23,300 | *9800 *23,300 | *9300 *20,050 | 7250 15,600 | *7000 *15,150 | 4800 10,300 | 5450 11,750 | 3450 7,400 | 4150 *8,500 | 2600 5,600 | *2950 *6,450 | 2450 5,400 | 9.33 30.60 |
| Ground Line | kg lb | | | *8050 *18,450 | *8050 *18,450 | *10 850 *23,400 | 6800 14,650 | 7400 15,950 | 4550 9,750 | 5300 11,400 | 3300 7,150 | 4100 *7,250 | 2550 5,500 | *3200 *7,050 | 2500 5,450 | 9.16 30.05 |
| -1.5 m -5.0 ft | kg lb | *6050 *13,500 | *6050 *13,500 | *10 400 *23,550 | *10 400 *23,550 | *11 500 24,700 | 6600 14,200 | 7250 15,600 | 4400 9,450 | 5250 11,250 | 3250 6,950 | | | *3650 *8,000 | 2650 5,800 | 8.73 28.61 |
| -3.0 m -10.0 ft | kg lb | *9400 *21,050 | *9400 *21,050 | *14 400 *32,750 | 12 700 27,200 | *11 350 *24,550 | 6550 14,150 | 7200 15,500 | 4350 9,400 | 5250 11,250 | 3250 6,950 | | | *4450 *9,850 | 3000 6,600 | 8.00 26.15 |
| -4.5 m -15.0 ft | kg lb | *13 650 *30,750 | *13 650 *30,750 | *14 750 *31,700 | 12 950 27,750 | *10 250 *22,000 | 6700 14,400 | 7300 15,750 | 4450 9,600 | | | | | 6050 *13,450 | 3750 8,350 | 6.86 22.30 |
| -6.0 m | kg | | | | | *7250 | 7000 | | | | | | | *6400 | 6200 | 4.91 |

Boom – 5.7 m (18'8")















Counterweight – 3.55 mt (3.9 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

|  | 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 | | | | | | | *4950 *4950 | | | | *4300 *9,500 | *4300 *9,500 | 6.15 19.78 |
| 6.0 m 20.0 ft | kg lb | | | | | | | *5450 *12,000 | 5400 11,600 | | | *3950 *8,750 | 3950 *8,750 | 7.28 23.71 |
| 4.5 m 15.0 ft | kg lb | | | | | | | *6000 *13,050 | 5250 11,300 | *5650 12,300 | 3750 8,000 | *3900 *8,550 | 3350 7,450 | 7.98 26.10 |
| 3.0 m 10.0 ft | kg lb | | | | *8750 *18,850 | 7650 16,500 | *6900 *14,950 | 5050 10,850 | 5650 12,100 | 3650 7,800 | *4000 *8,750 | 3050 6,750 | | 8.35 27.38 |
| 1.5 m 5.0 ft | kg lb | | | | *10 600 *22,900 | 7150 15,450 | 7700 16,550 | 4800 10,350 | 5500 11,850 | 3500 7,550 | *4200 *9,250 | 2950 6,500 | | 8.44 27.70 |
| Ground Line | kg lb | | | *6600 *15,150 | *6600 *15,150 | *11 650 *25,200 | 6900 14,850 | 7500 16,100 | 4650 10,000 | 5400 11,650 | 3450 7,400 | *4650 *10,250 | 3000 6,600 | 8.26 27.09 |
| -1.5 m -5.0 ft | kg lb | *7050 *15,750 | *7050 *15,750 | *11 400 *25,850 | *11 400 *25,850 | 11 750 25,150 | 6800 14,650 | 7400 15,950 | 4550 9,800 | 5400 11,600 | 3400 7,350 | 5150 11,300 | 3250 7,150 | 7.78 25.48 |
| -3.0 m -10.0 ft | kg lb | *12 100 *27,100 | *12 100 *27,100 | *15 600 *33,750 | 13 250 28,350 | *11 000 *23,800 | 6850 14,750 | 7450 16,000 | 4600 9,900 | | | 6050 13,450 | 3800 8,450 | 6.94 22.67 |
| -4.5 m -15.0 ft | kg lb | | | *12 450 *26,650 | *12 450 *26,650 | *8950 *19,050 | 7050 15,200 | | | | | *6800 *14,900 | 5250 11,750 | 5.60 18.08 |

*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.

ES Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.7 m (18'8")

Counterweight – 3.55 mt (3.9 t)

Bucket – None

Stick – 2.9B1 (9'6")

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

| 7.5 m 25.0 ft kg lb | 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 | | | | |
|----------------------------------|--------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|---------------|--------------|--------------|--------------|---------|-------|-------|
| | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | m ft | | |
| | | | | | | | | *4900 | *4900 | | | *4200 | *4200 | 6.15 | |
| | | | | | | | | *5300 | *5300 | | | *3900 | 3800 | 7.28 | |
| | | | | | | | | *11,650 | 11,450 | | | *8,600 | 8,500 | 23.71 | |
| | | | | | | | | *5850 | 5150 | *5450 | 3600 | *3850 | 3250 | 7.98 | |
| | | | | | | | | *12,700 | 11,100 | *12,000 | 7,700 | *8,400 | 7,150 | 26.10 | |
| | | | | | | | | *6700 | 4900 | 5500 | 3500 | *3900 | 2950 | 8.35 | |
| | | | | | | | | *14,500 | 10,500 | 11,850 | 7,500 | *8,600 | 6,450 | 27.38 | |
| | | | | | | | | 7550 | 4650 | 5350 | 3350 | *4150 | 2800 | 8.44 | |
| | | | | | | | | *22,250 | 14,950 | 16,200 | 9,950 | *9,150 | 6,200 | 27.70 | |
| | | | | | | | | 6950 | 7300 | 4450 | 5250 | 4600 | 2850 | 8.26 | |
| | | | | | | | | 14,250 | 15,700 | 9,550 | 11,300 | 7,000 | 10,100 | 6,250 | 27.09 |
| | | | | | | | | 6550 | 7200 | 4350 | 5250 | 5000 | 3100 | 7.78 | |
| | | | | | | | | 14,050 | 15,500 | 9,350 | 11,250 | 6,950 | 10,950 | 6,800 | 25.48 |
| | | | | | | | | 6600 | 6600 | 7250 | 4400 | 5900 | 3650 | 6.94 | |
| | | | | | | | | 14,150 | 15,600 | 9,450 | | 13,050 | 8,050 | 22.67 | |
| | | | | | | | | 6800 | | | | *6550 | 5050 | 5.60 | |
| | | | | | | | | 14,700 | | | | *14,350 | 11,350 | 18.08 | |

*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.

320E L Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 8.85 m (29'0")

Counterweight – 4.6 mt (5.1 t)

Bucket – None

Stick – 6.28 m (20'6") Super Long Reach

Shoes – 790 mm (31") triple grouser

| 12.0 m 40.0 ft | 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 | | | |
|-----------------------|--------------|------------------|------------------|------------------|------------------|------------------|------------------|------------------|-----------------|------------------|---------------|-----------------|-----------------|----------------|
| | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | | |
| 12.0 m 40.0 ft | | | | | | | | | | | | *1250 *2,800 | *1250 *2,800 | 10.35 33.31 |
| 10.5 m 35.0 ft | | | | | | | | | | | | *1200 *2,600 | *1200 *2,600 | 11.66 37.83 |
| 9.0 m 30.0 ft | | | | | | | | | | | | *1150 *2,450 | *1150 *2,450 | 12.66 41.25 |
| 7.5 m 25.0 ft | | | | | | | | | | | | *1100 *2,400 | *1100 *2,400 | 13.41 43.83 |
| 6.0 m 20.0 ft | | | | | | | | | | | | *1100 *2,400 | *1100 *2,400 | 13.96 45.71 |
| 4.5 m 15.0 ft | | | | | | | | | | | | *1100 *2,400 | *1100 *2,400 | 14.34 46.99 |
| 3.0 m 10.0 ft | | | *4700 *11,850 | *4700 *11,850 | *5950 *12,700 | *5950 *12,700 | *4350 *9,400 | *4350 *9,400 | *3550 *7,650 | *3550 *7,650 | | *1150 *2,500 | *1150 *2,500 | 14.54 47.71 |
| 1.5 m 5.0 ft | | | | | *6750 *15,750 | 6500 14,000 | *5150 *11,050 | 4500 9,700 | *4000 *8,700 | 3300 7,150 | | *1200 *2,600 | 1100 2,400 | 14.60 47.89 |
| Ground Line | | | *2000 *4,550 | *2000 *4,550 | *4650 *10,700 | *4650 *10,700 | *5750 *12,400 | 4000 8,650 | *4450 *9,550 | 3000 6,500 | | *1250 *2,750 | 1100 2,350 | 14.49 47.54 |
| -1.5 m -5.0 ft | kg lb | *2050 *4,550 | *2050 *4,550 | *2700 *6,050 | *2700 *6,050 | *4650 *10,500 | *4650 *10,500 | *6100 *13,250 | 3750 8,000 | *4700 *10,200 | 2800 6,000 | *1350 *2,950 | 1100 2,400 | 14.22 46.65 |
| -3.0 m -10.0 ft | kg lb | *2850 *6,350 | *2850 *6,350 | *3500 *7,850 | *3500 *7,850 | *5200 *11,750 | *5200 *11,500 | *6250 *13,550 | 3600 7,700 | 4700 10,150 | 2650 5,700 | *1500 *3,300 | 1150 2,500 | 13.79 45.19 |
| -4.5 m -15.0 ft | kg lb | *3650 *8,150 | *3650 *8,150 | *4400 *9,900 | *4400 *9,900 | *6050 *13,700 | 5400 11,550 | *6250 *13,450 | 3550 7,600 | 4650 10,000 | 2600 5,600 | *1700 *3,750 | 1200 2,700 | 13.17 43.10 |
| -6.0 m -20.0 ft | kg lb | *4550 *10,100 | *4550 *10,100 | *5400 *12,150 | *5400 *12,150 | *7200 *16,350 | 5500 11,850 | *6000 *12,900 | 3600 7,700 | 4650 10,050 | 2600 5,650 | *2000 *4,450 | 1350 3,000 | 12.34 40.27 |
| -7.5 m -25.0 ft | kg lb | *5500 *12,250 | *5500 *12,250 | *6550 *14,800 | *6550 *14,800 | *7100 *15,250 | 5700 12,300 | *5500 *11,850 | 3700 7,950 | *4450 *9,500 | 2700 5,800 | *2500 *5,650 | 1600 3,550 | 11.24 36.55 |
| -9.0 m -30.0 ft | kg lb | | | *7950 *16,950 | *7950 *16,950 | *5950 *12,700 | *5950 *12,700 | *4700 *10,050 | 3900 8,400 | *3800 *8,050 | 2850 6,150 | *2600 *5,700 | 2050 4,600 | 9.79 31.60 |

*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.

Super Long Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 8.85 m (29'0")

Counterweight – 4.6 mt (5.1 t)

Bucket – None

Stick – 6.28 m (20'6") Super Long Reach

Shoes – 790 mm (31") triple grouser

| 12.0 m 40.0 ft kg lb | 9.0 m/30.0 ft | | 10.5 m/35.0 ft | | 12.0 m/40.0 ft | | 13.5 m/45.0 ft | | m ft | | | |
|-----------------------------------|---------------|--------------|----------------|--------------|----------------|--------------|----------------|--------------|--------------|--------------|--------------|-------|
| | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | kg lb | |
| | | | | | | | | | | *1250 | *1250 | 10.35 |
| | | | | | | | | | | *2,800 | *2,800 | 33.31 |
| 10.5 m 35.0 ft | kg | | | *2150 | *2150 | | | | | *1200 | *1200 | 11.66 |
| | lb | | | *4,700 | *4,700 | | | | | *2,600 | *2,600 | 37.83 |
| 9.0 m 30.0 ft | kg | | | *2150 | *2150 | *2000 | 1950 | | | *1150 | *1150 | 12.66 |
| | lb | | | *4,700 | *4,700 | *3,650 | *3,650 | | | *2,450 | *2,450 | 41.25 |
| 7.5 m 25.0 ft | kg | | | *2200 | *2200 | *2150 | 1950 | | | *1100 | *1100 | 13.41 |
| | lb | | | *4,850 | *4,850 | *4,750 | 4,100 | | | *2,400 | *2,400 | 43.83 |
| 6.0 m 20.0 ft | kg | | | *2350 | *2350 | *2250 | 1900 | *1850 | 1450 | *1100 | *1100 | 13.96 |
| | lb | | | *5,100 | *5,100 | *4,900 | 4,000 | *3,250 | 3,050 | *2,400 | *2,400 | 45.71 |
| 4.5 m 15.0 ft | kg | *2750 | *2750 | *2500 | 2300 | *2350 | 1800 | *2250 | 1400 | *1100 | *1100 | 14.34 |
| | lb | *5,950 | *5,950 | *5,450 | 4,950 | *5,100 | 3,850 | *4,600 | 3,000 | *2,400 | *2,400 | 46.99 |
| 3.0 m 10.0 ft | kg | *3050 | 2800 | *2700 | 2150 | *2500 | 1700 | 2300 | 1350 | *1150 | *1150 | 14.54 |
| | lb | *6,600 | 6,000 | *5,900 | 4,650 | *5,400 | 3,650 | 4,900 | 2,850 | *2,500 | *2,500 | 47.71 |
| 1.5 m 5.0 ft | kg | *3350 | 2550 | *2900 | 2000 | *2600 | 1600 | 2200 | 1300 | *1200 | 1100 | 14.60 |
| | lb | *7,250 | 5,500 | *6,300 | 4,300 | *5,700 | 3,400 | 4,750 | 2,750 | *2,600 | 2,400 | 47.89 |
| Ground Line | kg | *3650 | 2350 | *3100 | 1900 | 2600 | 1500 | 2150 | 1250 | *1250 | 1100 | 14.49 |
| | lb | *7,850 | 5,050 | *6,750 | 4,000 | 5,550 | 3,250 | 4,650 | 2,600 | *2,750 | 2,350 | 47.54 |
| -1.5 m -5.0 ft | kg | 3800 | 2200 | 3050 | 1750 | 2500 | 1450 | 2100 | 1200 | *1350 | 1100 | 14.22 |
| | lb | 8,100 | 4,700 | 6,550 | 3,750 | 5,400 | 3,050 | 4,550 | 2,550 | *2,950 | 2,400 | 46.65 |
| -3.0 m -10.0 ft | kg | 3650 | 2100 | 2950 | 1700 | 2450 | 1400 | 2100 | 1150 | *1500 | 1150 | 13.79 |
| | lb | 7,900 | 4,500 | 6,350 | 3,600 | 5,300 | 2,950 | *3,650 | 2,500 | *3,300 | 2,500 | 45.19 |
| -4.5 m -15.0 ft | kg | 3600 | 2050 | 2950 | 1650 | 2450 | 1400 | | | *1700 | 1200 | 13.17 |
| | lb | 7,750 | 4,350 | 6,300 | 3,550 | 5,250 | 2,950 | | | *3,750 | 2,700 | 43.10 |
| -6.0 m -20.0 ft | kg | 3600 | 2050 | 2950 | 1650 | 2500 | 1400 | | | *2000 | 1350 | 12.34 |
| | lb | 7,800 | 4,400 | 6,350 | 3,550 | *5,150 | 3,050 | | | *4,450 | 3,000 | 40.27 |
| -7.5 m -25.0 ft | kg | *3650 | 2100 | *2950 | 1750 | | | | | *2500 | 1600 | 11.24 |
| | lb | *7,750 | 4,550 | *6,250 | 3,750 | | | | | *5,650 | 3,550 | 36.55 |
| -9.0 m -30.0 ft | kg | *3050 | 2250 | | | | | | | *2600 | 2050 | 9.79 |
| | lb | *6,300 | 4,850 | | | | | | | *5,700 | 4,600 | 31.60 |

*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.

320E L Hydraulic Excavator Specifications

HD Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.7 m (18'8")















Counterweight – 5.4 mt (5.9 t)

Bucket – None

Stick – 2.9B1 (9'6") ES

Shoes – 790 mm (31") triple grouser

Heavy Lift Mode On

|  | | 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 | | | | | | | *4900 | *4900 | | | *4200 *9,350 | *4200 *9,350 | 6.15 19.78 |
| 6.0 m 20.0 ft | kg lb | | | | | | | *5900 *12,950 | *5900 *12,950 | | | *3900 *8,600 | *3900 *8,600 | 7.28 23.71 |
| 4.5 m 15.0 ft | kg lb | | | | | | | *6500 *14,100 | 6350 13,650 | *6100 *12,350 | 4550 9,700 | *3850 *8,400 | *3850 *8,400 | 7.98 26.10 |
| 3.0 m 10.0 ft | kg lb | | | | | *9500 *20,450 | 9250 19,950 | *7450 *16,200 | 6100 13,150 | *6550 *14,200 | 4400 9,500 | *3900 *8,600 | 3750 8,300 | 8.35 27.38 |
| 1.5 m 5.0 ft | kg lb | | | | | *11 500 *24,850 | 8750 18,850 | *8500 *18,400 | 5850 12,650 | 6550 14,100 | 4300 9,250 | *4150 *9,150 | 3650 8,000 | 8.44 27.70 |
| Ground Line | kg lb | | | *6550 *15,000 | *6550 *15,000 | *12 650 *27,350 | 8450 18,200 | 8950 19,200 | 5700 12,250 | 6450 13,900 | 4200 9,050 | *4600 *10,100 | 3700 8,150 | 8.26 27.09 |
| -1.5 m -5.0 ft | kg lb | *7000 *15,600 | *7000 *15,600 | *11 350 *25,700 | *11 350 *25,700 | *12 750 *27,650 | 8400 18,000 | 8850 19,000 | 5600 12,100 | 6450 13,850 | 4200 9,000 | *5400 *11,950 | 4000 8,800 | 7.78 25.48 |
| -3.0 m -10.0 ft | kg lb | *12 000 *26,950 | *12 000 *26,950 | *16 950 *36,700 | 16 250 34,750 | *11 950 *25,850 | 8450 18,150 | *8900 *19,100 | 5650 12,150 | | | *7000 *15,600 | 4700 10,350 | 6.94 22.67 |
| -4.5 m -15.0 ft | kg lb | | | *13 550 *29,000 | *13 550 *29,000 | *9750 *20,700 | 8650 18,600 | | | | | *7350 *16,150 | 6400 14,400 | 5.60 18.08 |

*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.

Work Tool Offering Guide*

| | |
|-----------------------------------|---------------------------------|
| Boom | 5.7 m (18'8") |
| Stick | 2.9 m (9'6") |
| Hydraulic Hammer | H115Es H120Es H130Es |
| Multi-Processor | MP15** |
| Pulverizer | P215 |
| Mobile Scrap and Demolition Shear | S320B** S325B*** S340B*** |
| Compactor (Vibratory Plate) | CVP110 |
| Contractors' Grapple | G120B-G130B |
| Trash Grapple | |
| Thumbs | |
| Rakes | |
| Center-Lock Pin Grabber Coupler | |
| Dedicated Quick Coupler | |

These work tools are available for the 320E.
Consult your Cat dealer for proper match.

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

**Pin-on only.

***Boom-mount.

320E L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

| Without Quick Coupler | | | | | | | | | 320E L | | | 320E L | |
|--|---------|-------|-----|----------------|-----------------|--------|-------|------|-----------------|---------------|---------------|-----------------|---------------|
| | Linkage | Width | | Capacity | | Weight | | Fill | Boom (HD) | | | Boom (ES) | |
| | | mm | in | m ³ | yd ³ | kg | lb | % | 3.9 HD (12'10") | 2.9 HD (9'6") | 2.9 ES (9'6") | 3.9 HD (12'10") | 2.9 ES (9'6") |
| General Duty (GDC) | B | 600 | 24 | 0.55 | 0.72 | 618 | 1,363 | 100% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.75 | 0.98 | 710 | 1,566 | 100% | ● | ● | ● | ● | ● |
| | B | 900 | 36 | 0.95 | 1.24 | 786 | 1,733 | 100% | ⊙ | ● | ● | ⊖ | ● |
| | B | 1050 | 42 | 1.16 | 1.52 | 847 | 1,867 | 100% | ○ | ⊙ | ⊙ | ○ | ⊙ |
| | B | 1200 | 48 | 1.38 | 1.80 | 925 | 2,038 | 100% | ◇ | ⊖ | ⊖ | ◇ | ○ |
| | B | 1350 | 54 | 1.59 | 2.08 | 1002 | 2,209 | 100% | X | ○** | ○ | X | ○ |
| Heavy Duty (HD) | B | 600 | 24 | 0.46 | 0.61 | 649 | 1,430 | 100% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.64 | 0.84 | 747 | 1,647 | 100% | ● | ● | ● | ● | ● |
| | B | 900 | 36 | 0.81 | 1.06 | 825 | 1,818 | 100% | ● | ● | ● | ⊙ | ● |
| | B | 1050 | 42 | 1.00 | 1.31 | 879 | 1,937 | 100% | ⊖ | ● | ● | ⊖ | ⊙ |
| | B | 1200 | 48 | 1.19 | 1.56 | 970 | 2,138 | 100% | ○ | ⊙ | ⊖ | ○ | ⊖ |
| | B | 1350 | 54* | 1.38 | 1.81 | 1051 | 2,316 | 100% | X | ⊖** | ○ | X | ○ |
| Severe Duty (SD) | B | 600 | 24 | 0.46 | 0.61 | 693 | 1,527 | 90% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.64 | 0.84 | 801 | 1,765 | 90% | ● | ● | ● | ● | ● |
| | B | 900 | 36 | 0.81 | 1.06 | 887 | 1,955 | 90% | ● | ● | ● | ● | ● |
| | B | 1050 | 42 | 1.00 | 1.31 | 962 | 2,121 | 90% | ⊖ | ● | ● | ⊖ | ● |
| | B | 1200 | 48 | 1.19 | 1.56 | 1051 | 2,316 | 90% | ○ | ⊙ | ⊙ | ○ | ⊖ |
| Super Long Reach | SLR | 813 | 32 | 0.46 | 0.60 | 341 | 751 | 100% | | | | | |
| | SLR | 1143 | 45 | 0.61 | 0.80 | 289 | 637 | 100% | | | | | |
| Maximum load pin-on (payload + bucket) | | | | | | | | kg | 2480 | 3070 | 2950 | 2410 | 2870 |
| | | | | | | | | lb | 5,466 | 6,766 | 6,502 | 5,312 | 6,325 |

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not recommended

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.

*This bucket might reduce boom structure life.

**For light dirt loading applications only. Consult your dealer to understand your application before using this bucket in combination with this stick.

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.

Bucket Specifications and Compatibility

| Without Quick Coupler | | | | | | | | | 320E L** | 320E L |
|--|---------|-------|-----|----------------|-----------------|--------|-------|------|------------------|-------------------|
| | Linkage | Width | | Capacity | | Weight | | Fill | Boom (HD) | SLR |
| | | mm | in | m ³ | yd ³ | kg | lb | % | 2.9 ES (9'6") | 6.28 m (20'6") |
| General Duty (GDC) | B | 600 | 24 | 0.55 | 0.72 | 618 | 1,363 | 100% | ● | |
| | B | 750 | 30 | 0.75 | 0.98 | 710 | 1,566 | 100% | ● | |
| | B | 900 | 36 | 0.95 | 1.24 | 786 | 1,733 | 100% | ● | |
| | B | 1050 | 42 | 1.16 | 1.52 | 847 | 1,867 | 100% | ● | |
| | B | 1200 | 48 | 1.38 | 1.80 | 925 | 2,038 | 100% | ● | |
| | B | 1350 | 54 | 1.59 | 2.08 | 1002 | 2,209 | 100% | ⊙ | |
| Heavy Duty (HD) | B | 600 | 24 | 0.46 | 0.61 | 649 | 1,430 | 100% | ● | |
| | B | 750 | 30 | 0.64 | 0.84 | 747 | 1,647 | 100% | ● | |
| | B | 900 | 36 | 0.81 | 1.06 | 825 | 1,818 | 100% | ● | |
| | B | 1050 | 42 | 1.00 | 1.31 | 879 | 1,937 | 100% | ● | |
| | B | 1200 | 48 | 1.19 | 1.56 | 970 | 2,138 | 100% | ● | |
| | B | 1350 | 54* | 1.38 | 1.81 | 1051 | 2,316 | 100% | ● | |
| Severe Duty (SD) | B | 600 | 24 | 0.46 | 0.61 | 693 | 1,527 | 90% | ● | |
| | B | 750 | 30 | 0.64 | 0.84 | 801 | 1,765 | 90% | ● | |
| | B | 900 | 36 | 0.81 | 1.06 | 887 | 1,955 | 90% | ● | |
| | B | 1050 | 42 | 1.00 | 1.31 | 962 | 2,121 | 90% | ● | |
| | B | 1200 | 48 | 1.19 | 1.56 | 1051 | 2,316 | 90% | ● | |
| Super Long Reach | SLR | 813 | 32 | 0.46 | 0.60 | 341 | 751 | 100% | | ○ |
| | SLR | 1143 | 45 | 0.61 | 0.80 | 289 | 637 | 100% | | ◇ |
| Maximum load pin-on (payload + bucket) | | | | | | | | kg | 3820 | 915 |
| | | | | | | | | lb | 8,419 | 2,017 |

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)

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.

*This bucket might reduce boom structure life.

**Heavy counterweight configuration with 5.4 mt (5.9 ton) counterweight.

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.

320E L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

| With Center Lock Coupler | | | | | | | | | 320E L | | | 320E L | |
|--|---------|-------|-----|----------------|-----------------|--------|-------|------|----------------------|------------------|------------------|----------------------|------------------|
| | Linkage | Width | | Capacity | | Weight | | Fill | Boom (HD) | | | Boom (ES) | |
| | | mm | in | m ³ | yd ³ | kg | lb | % | 3.9 HD (12'10")** | 2.9 HD (9'6") | 2.9 ES (9'6") | 3.9 HD (12'10")** | 2.9 ES (9'6") |
| General Duty (GDC) | B | 600 | 24 | 0.55 | 0.72 | 618 | 1,363 | 100% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.75 | 0.98 | 710 | 1,566 | 100% | ⊙ | ● | ● | ⊙ | ● |
| | B | 900 | 36 | 0.95 | 1.24 | 786 | 1,733 | 100% | ○ | ⊙ | ⊙ | ○ | ⊙ |
| | B | 1050 | 42 | 1.16 | 1.52 | 847 | 1,867 | 100% | ◇ | ⊖ | ⊖ | ◇ | ○ |
| | B | 1200 | 48 | 1.38 | 1.80 | 925 | 2,038 | 100% | X | ○ | ○ | X | ◇ |
| | B | 1350 | 54 | 1.59 | 2.08 | 1002 | 2,209 | 100% | X | ◇ | ◇ | X | ◇ |
| Heavy Duty (HD) | B | 600 | 24 | 0.46 | 0.61 | 649 | 1,430 | 100% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.64 | 0.84 | 747 | 1,647 | 100% | ● | ● | ● | ⊙ | ● |
| | B | 900 | 36 | 0.81 | 1.06 | 825 | 1,818 | 100% | ⊖ | ● | ● | ⊖ | ● |
| | B | 1050 | 42 | 1.00 | 1.31 | 879 | 1,937 | 100% | ○ | ⊙ | ⊖ | ◇ | ⊖ |
| | B | 1200 | 48 | 1.19 | 1.56 | 970 | 2,138 | 100% | ◇ | ○ | ○ | ◇ | ○ |
| | B | 1350 | 54* | 1.38 | 1.81 | 1051 | 2,316 | 100% | X | ○ | ◇ | X | ◇ |
| Severe Duty (SD) | B | 600 | 24 | 0.46 | 0.61 | 693 | 1,527 | 90% | ● | ● | ● | ● | ● |
| | B | 750 | 30 | 0.64 | 0.84 | 801 | 1,765 | 90% | ● | ● | ● | ● | ● |
| | B | 900 | 36 | 0.81 | 1.06 | 887 | 1,955 | 90% | ⊖ | ● | ● | ⊖ | ● |
| | B | 1050 | 42 | 1.00 | 1.31 | 962 | 2,121 | 90% | ○ | ⊙ | ⊙ | ○ | ⊖ |
| | B | 1200 | 48 | 1.19 | 1.56 | 1051 | 2,316 | 90% | ◇ | ⊖ | ○ | ◇ | ○ |
| | B | 1200 | 48 | 1.19 | 1.56 | 1000 | 2,204 | 90% | ◇ | ⊖ | ⊖ | ◇ | ○ |
| Maximum load with coupler (payload + bucket) | | | | | | | | kg | 2070 | 2660 | 2540 | 2000 | 2460 |
| | | | | | | | | lb | 4,563 | 5,863 | 5,599 | 4,409 | 5,422 |

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not recommended

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.

*This bucket might reduce boom structure life.

**Auxiliary hydraulic lines available from Cat Work Tools.

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.

Bucket Specifications and Compatibility

| With Center Lock Coupler | | | | | | | | | 320E L** | 320E L |
|--|---------|-------|-----|----------------|-----------------|--------|-------|------|------------------|-------------------|
| | Linkage | Width | | Capacity | | Weight | | Fill | Boom (HD) | SLR |
| | | mm | in | m ³ | yd ³ | kg | lb | % | 2.9 ES (9'6") | 6.28 m (20'6") |
| General Duty (GDC) | B | 600 | 24 | 0.55 | 0.72 | 618 | 1,363 | 100% | ● | |
| | B | 750 | 30 | 0.75 | 0.98 | 710 | 1,566 | 100% | ● | |
| | B | 900 | 36 | 0.95 | 1.24 | 786 | 1,733 | 100% | ● | |
| | B | 1050 | 42 | 1.16 | 1.52 | 847 | 1,867 | 100% | ● | |
| | B | 1200 | 48 | 1.38 | 1.80 | 925 | 2,038 | 100% | ⊙ | |
| | B | 1350 | 54 | 1.59 | 2.08 | 1002 | 2,209 | 100% | ⊖ | |
| Heavy Duty (HD) | B | 600 | 24 | 0.46 | 0.61 | 649 | 1,430 | 100% | ● | |
| | B | 750 | 30 | 0.64 | 0.84 | 747 | 1,647 | 100% | ● | |
| | B | 900 | 36 | 0.81 | 1.06 | 825 | 1,818 | 100% | ● | |
| | B | 1050 | 42 | 1.00 | 1.31 | 879 | 1,937 | 100% | ● | |
| | B | 1200 | 48 | 1.19 | 1.56 | 970 | 2,138 | 100% | ● | |
| | B | 1350 | 54* | 1.38 | 1.81 | 1051 | 2,316 | 100% | ⊖ | |
| Severe Duty (SD) | B | 600 | 24 | 0.46 | 0.61 | 693 | 1,527 | 90% | ● | |
| | B | 750 | 30 | 0.64 | 0.84 | 801 | 1,765 | 90% | ● | |
| | B | 900 | 36 | 0.81 | 1.06 | 887 | 1,955 | 90% | ● | |
| | B | 1050 | 42 | 1.00 | 1.31 | 962 | 2,121 | 90% | ● | |
| | B | 1200 | 48 | 1.19 | 1.56 | 1051 | 2,316 | 90% | ● | |
| | B | 1200 | 48 | 1.19 | 1.56 | 1000 | 2,204 | 90% | ● | |
| Maximum load with coupler (payload + bucket) | | | | | | | | kg | 3410 | |
| | | | | | | | | lb | 7,516 | |

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.

*This bucket might reduce boom structure life.

**Heavy counterweight configuration with 5.4 mt (5.9 ton) counterweight.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)

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.

320E L Standard Equipment

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

ENGINE

- C6.6 diesel engine
- Biodiesel capable
- EPA Tier 4 Interim
- 2300 m (7,500 ft) altitude capability
- Electric priming pump
- Automatic engine speed control
- Economy, standard and high power modes
- Two-speed travel
- Side-by-side cooling system (tilt-up ATAAC, swing-out A/C condenser)
- Radial seal air filter
- Primary filter with water separator and water separator indicator switch
- Starting kit, cold weather, -18° C (0° F)
- Screen fuel filter in fuel lines
- Primary fuel filter
- Secondary fuel filter
- Quick drains, engine and hydraulic oil (QuickEvac)

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 boom lowering control device and stick lowering check valve
- Capability of installing Cat Bio hydraulic oil
- Fine swing control

CAB

- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window (left-hand cab door)
- Glass-breaking safety hammer
- Removable lower windshield with in cab storage bracket
- Coat hook
- Beverage holder
- Literature holder
- AM/FM radio
- Radio with MP3 auxiliary audio port
- Two 12V stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with warning, filter/fluid change, and working hour information
- Adjustable armrest
- Height adjustable joystick consoles
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- Capability of installing two additional pedals
- Two power outlets, 10 amp (total)
- Laminated glass front upper window and tempered other windows

UNDERCARRIAGE

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

ELECTRICAL

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

LIGHTS

- Boom light 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
- Travel alarm

TECHNOLOGY

- Product Link

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

ENGINE

Starting kit, cold weather, -32° C (-26° F)
Jump start receptacle
Radiator screen
Block heater (jacket water heater)

HYDRAULIC SYSTEM

Control pattern quick-changer, two way
Additional circuit
Boom and stick lines
High-pressure line
Medium-pressure line
Cat quick coupler line –
high-pressure capable
Electronic Control device,
1/2P, one-way circuit
Electronic Control device (Common),
1/2P, common circuit
Electronic Control device, 1P,
two-way circuit
Boom lowering and stick lowering
control device

CAB

Cab hatch emergency exit
Seat, high-back air suspension with heater
Seat, high-back mechanical suspension
Sunscreen
Windshield wiper, upper and lower
with washer
Air pre-filter
Left foot switch
Left pedal
Straight travel pedal

UNDERCARRIAGE

600 mm (24") triple grouser shoes
790 mm (31") triple grouser shoes
Guard, full length for long FG undercarriage
Guard, heavy-duty bottom
Center track guiding guard
Segmented (2 piece) track guiding guard
HD track roller

COUNTERWEIGHT

3.55 mt (3.9 t) with lifting eye
4.6 mt (5.1 t) with lifting eye
5.4 mt (5.9 t) with lifting eye

FRONT LINKAGE

Quick coupler
Bucket linkage, B1 family with lifting eye
5.7 m (18'8") heavy duty and
extreme service booms
8.85 m (29'0") SLR boom
2.9 m (9'6") stick
3.9 m (12'10") stick
6.28 m (20'6") SLR stick

LIGHTS

Working lights, cab mounted with time delay
HID lights, cab mounted with time delay
Halogen boom lights

SECURITY

FOGS, bolt-on
Side rubber bumper
Guard, vandalism
Cat MSS (anti-theft device)

TECHNOLOGY

Cat Grade Control Depth and Slope

320E L Hydraulic Excavator

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

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