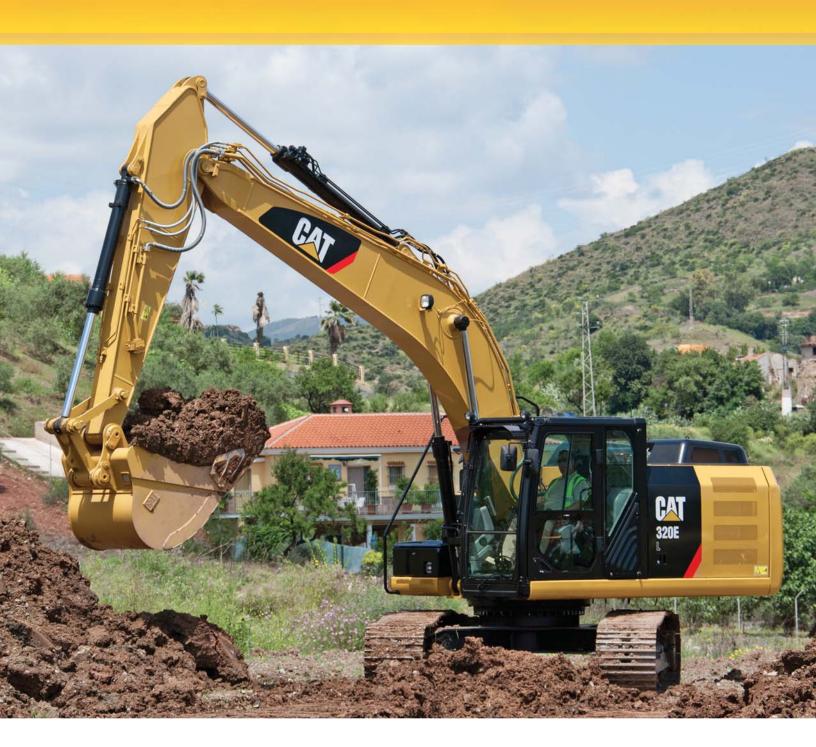
320E L/LN Hydraulic Excavator

CAT



Engine	
Engine Model	Cat [®] C6.6 ACERT™
Net Power – ISO 9249 (metric)	107 kW (145 hp)
Drive	
Maximum Travel Speed	5.6 km/h
Maximum Drawbar Pull	205 kN

Weights	
320E L:	
Minimum Weight	21 700 kg
Maximum Weight	23 500 kg
320E LN:	
Minimum Weight	22 100 kg
Maximum Weight	23 640 kg

Introduction

The 320E meets today's European Union 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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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.

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 Stage IIIB emission standards, the 320E's C6.6 ACERT engine features wall and thru flow filters that perform through the machine work cycle without operator intervention.

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

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 (lifting pump) and three-layer fuel hoses to allow the use of biodiesels up to B20 (biodiesel fuel 20% mixture meeting ASTM 6751 or EN 14214).

Cooling System

The cooling system features an air-toair aftercooler and A/C condenser that tilt up and swing out of the way for easy servicing; the 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.

Two different power modes are offered: high power and economy. 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 and heating 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 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 applications.

Monitor

The 320E 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 at the same time.

Power Supply

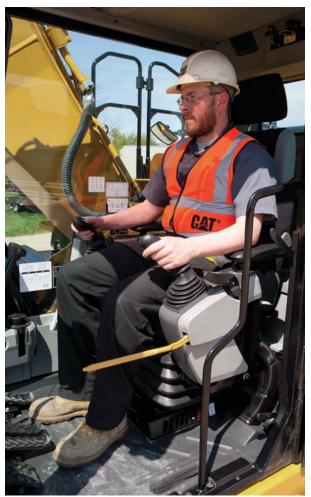
Two 12-volt power supply sockets are located near key storage areas for charging electronic devices.

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



Main Control Valve and Auxiliary Valves

The 320E 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; it also allows for greater tool versatility.

Swing Priority Circuit

The swing priority circuit on the 320E 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.

SmartBoom™

SmartBoom reduces stress and vibrations transmitted to the machine and provides a more comfortable environment. It is particularly well suited for certain applications:

- Rock scraping. SmartBoom simplifies the task and allows the operator to concentrate on stick and bucket while the boom freely goes up and down without using pump flow.
- Hammer work. The front parts
 automatically follow the hammer while
 penetrating the rock. Blank shots or
 excessive force on the hammer are
 avoided, resulting in longer life for the
 hammer and the machine.

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 optimized boom lowering speed for higher controllability.

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 and long narrow undercarriage systems are available to support various work applications.

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 (L), 4.1 mt (LN) and 4.6 mt (SLR). All feature an integrated rearview camera housing and integrated links to enable easy removal 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. 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: Reach, SLR, and VA. Sticks match the boom descriptions and applications below:

- Reach 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. The 320E LN is equipped with a Heavy Duty Reach boom.
- SLR = Super Long Reach —
 This configuration offers reaches
 to over 15 m. It is well suited for ditch cleaning applications. Available on the 320E L only.

• VA = Variable Angle — This configuration offers superb flexibility and versatility in the working envelope. Boom position can be adjusted from 90° when fully retracted to 180° and fully extended. With full extension, the working range gives maximum dig depth, reach, and working height. Equally, when retracted, it can work closer to its tracks, increase lifting capacity, and work in confined areas.

Work Tools

Dig, hammer, rip, and cut with confidence

An extensive range of Cat Work Tools for the 320E 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.

CW Quick Couplers

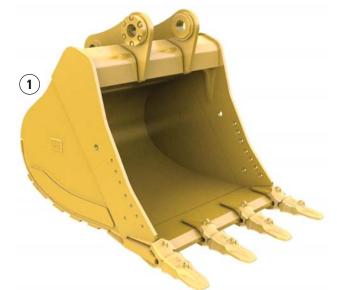
Quick couplers allow one person to change work tools in seconds for maximum performance and flexibility on a job site. One machine can move rapidly from task to task, and a fleet of similarly equipped machines can share a common work tool inventory. The dedicated CW Series quick coupler enables a quick tool exchange while maintaining top machine performance. A lifting hook is added for maximum lift capacity.

The CW quick coupler can pick up any work tool and is equipped with a wedge-style locking system that fits the quick coupler tight to the tool hinges. Due to the tapered wedge design, there won't be any play during its entire life. Also, it is interchangeable with different machine classes. The CW is highly suitable for harsh applications such as demolition and quarries.

Buckets

Cat buckets are designed as an integral part of the 320E 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.





Durability Categories Suitable for Any Situation

For the 320E excavator, Caterpillar offers three 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.

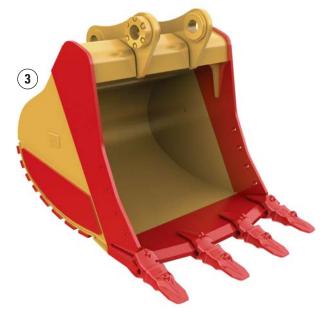
Special Buckets

Special buckets are available for the 320E on request.

Comprehensive Product Support

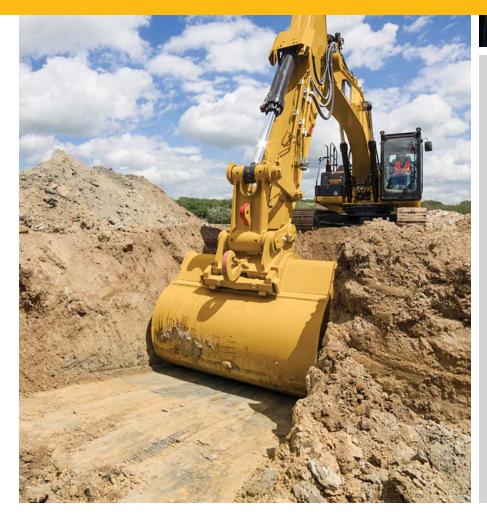
All Cat Work Tools are backed up by a world-wide network of well-stocked parts depots and highly experienced service and support personnel.





Integrated Technologies

Monitor, manage, and enhance job site operations



CAT CONNECT makes smart use of technology and services to improve your job site efficiency. Using the data from technology-equipped machines, you'll get more information and insight into your equipment and operations than ever before.

Cat Connect technologies offers improvements in these key areas:



EQUIPMENT

Equipment Management – increase uptime and reduce operating costs.



Productivity – monitor production and manage job site efficiency.



Safety – enhance job site awareness to keep your people and equipment safe.

LINK Technologies

LINK technologies, like Product Link™, are deeply integrated into your machine and wirelessly communicates key information, including location, hours, fuel usage, idle time and event codes.

Product Link/VisionLink®

Easy access to Product Link data via the online VisionLink user interface can help you see how your machine or fleet is performing. You can use this information to make timely, fact based decisions that can boost job site efficiency and productivity, and lower costs.







GRADE Technologies

Grade technologies combine digital design data and in-cab guidance to help you reach target grade quickly and accurately, with minimal staking and checking. That means you'll be more productive, complete jobs faster, in fewer passes, using less fuel, at a lower cost.

Cat Grade Control Depth and Slope

The factory integrated Cat Grade Control system delivers 2D bucket tip elevation guidance to the cab to help operators create precise planes and slopes with ease. Real-time bucket tip elevation guidance on the easy-to-read standard cab monitor indicates how much to cut or fill. Fast response sensors deliver immediate feedback, while optional integrated joystick buttons help operators make quick adjustments to maintain consistent, quality grades. Built-in alerts can be set to warn the operator if the linkage or bucket approaches a predefined elevation or depth, such as when working in areas with low ceilings, or digging near water lines. Staking and checking is minimized, which reduces ground crews and enhances job site safety.

Works best in simple 2D applications, such as digging basements or grading steep embankments. Easily upgrade to AccuGrade™ when 3D control is required.

Cat AccuGrade

The dealer-installed AccuGrade system provides 3D guidance for making complex cuts and contours, eliminating the need for staking and checking. A dedicated monitor displays a digital design plan with 3D bucket tip positioning and elevation guidance, indicating precisely where to work and how much to cut or fill.

Plug and play capability on the 320E simplifies upgrading. Choose from satellite (GNSS) control for large projects with complex designs or total station (UTS) systems in areas with limited reception.

Serviceability

Fast, easy and safe access built in

Service Doors

Wide service doors 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 compartments provide easy access to major components. The fresh air filter is located on the side of the cab to make it easy to reach and replace as needed.

Maintenance

Tilt-up ATAAC and swing out A/C condenser for easy cleaning.

Other Service Benefits

The water separator with water level sensor has a primary fuel filter element located in the pump compartment near ground level; the electric priming pump (lifting 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. The engine oil filter is located in the pump compartment. The hydraulic valve lush on the engine valve does not need maintenance.









Safety Features to help protect people





ROPS Cab (ISO 12117)

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 inside the cab significantly during machine operation (–5 dB).

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 (ISO 2867)

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

Time Delay Lights

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

High Intensity Discharge (HID) Lights

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

Windows

The 70/30 split windshield 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 monitor is equipped with a buzzer that can warn operators of critical events so they can take any necessary action.

Rearview Camera and Mirrors (ISO 5006)

The standard rearview camera is housed in the counterweight. The image projects through the cab monitor to give the operator a clear view of what is behind the machine. The mirrors and rearview camera are designed the meet the visibility regulations.



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.



- The C6.6 ACERT engine, along with the Cat Clean Emissions Module (CEM), meets EU Stage IIIB emission standards.
- Even when operating in high horsepower and high production applications, the 320E performs a similar amount of work while burning up to 12% less fuel than the previous D Series model. This means more efficiency, less resources consumed, and fewer CO₂ emissions.
- The 320E has the flexibility of running on either ultra-low-sulfur diesel (ULSD) fuel with 15 mg/kg of sulfur or less or biodiesel (B20) fuel blended with ULSD.
- A ground-level overfill indicator rises when the hydraulic oil tank is full to help the operator avoid spilling.
- The QuickEvac[™] feature ensures fast, easy, and secure changing of engine and hydraulic oil (320E L only).
- The 320E is built to be rebuilt with major structures and components capable of being remanufactured to reduce waste and replacement costs.
- An engine oil filter is designed so that it eliminates the need for painted metal cans and aluminum top plates. The cartridge-style spin-on housing enables the internal filter to be separated and replaced.
- The 320E is an efficient, productive machine that's designed to conserve our natural resources for generations ahead.







Engine	
Engine	
Engine Model	Cat C6.6 ACERT
Power – ISO 14396	113 kW
Power – ISO 14396 (metric)	154 hp
Power – ISO 14396 (imperial)	152 hp
Net Power – ISO 9249 (metric)	107 kW
Net Power – ISO 9249 (metric)	145 hp
Net Power – ISO 9249 (imperial)	143 hp
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L
Weights	
320E L:	
Minimum Weight	21 700 kg
Maximum Weight	23 500 kg
320E LN:	
Minimum Weight	22 100 kg
Maximum Weight	23 640 kg
Hydraulic System	
Main System – Maximum Flow (Total)	428 L/min
Swing System – Maximum Flow (x2)	214 L/min
Maximum Pressure – Equipment	35 000/38 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	24.3 L/min
Pilot System – Maximum Pressure	3920 kPa
Boom Cylinder – Bore	120 mm
Boom Cylinder – Stroke	1260 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1504 mm
B1 Bucket Cylinder – Bore	120 mm
B1 Bucket Cylinder – Stroke	1104 mm
Drive	
Maximum Travel Speed	5.6 km/h
Maximum Drawbar Pull	205 kN
Swing Mechanism	
Swing Speed	11.2 rpm
Swing Speed	

Service Refill Capacities (320E L)	
Fuel Tank Capacity	410 L
Cooling System	30 L
Engine Oil (with filter)	23 L
Swing Drive	8 L
Final Drive (each)	8 L
Hydraulic System (including tank)	260 L
Hydraulic Tank	159 L

Service Refill Capacities (320E LN)	
Fuel Tank Capacity	310 L
Cooling System	30 L
Engine Oil (with filter)	23 L
Swing Drive (each)	8 L
Final Drive (each)	8 L
Hydraulic System Oil Capacity (including tank)	260 L
Hydraulic Tank Oil	153 L

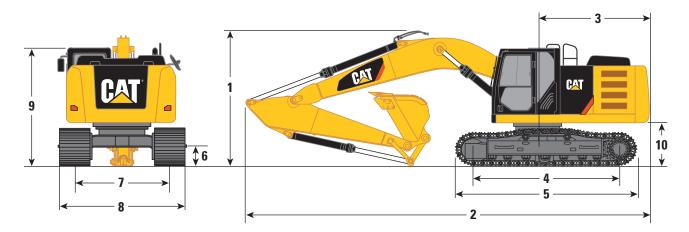
ITACK	
Number of Shoes (each side)	
Long/Long Narrow Undercarriage	49 pieces
Number of Track Rollers (each side)	
Long/Long Narrow Undercarriage	8 pieces
Number of Carrier Rollers (each side)	
Long/Long Narrow Undercarriage	2 pieces

Sound Performance	
ISO 6396	
Operator Sound	71 dB(A)
ISO 6395	
Spectator Sound	103 dB(A)

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

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

320E L Dimensions

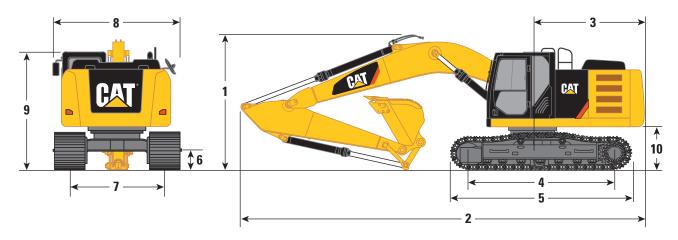


	Reach Boom 5.7 m				VA Boom	
Stick	R2.9B1 HD	R2.5B1 HD	Super Long Reach 6.28 m	R2.9B1 ES	R2.5B1 HD	
1 Shipping Height without Guard Rail*	3130 mm	3050 mm	3210 mm	2970 mm	3020 mm	
Shipping Height with Guard Rail	3240 mm	3240 mm	3240 mm	3240 mm	3240 mm	
Shipping Height with Top Guard, without Guard Rail	3150 mm	3150 mm	3150 mm	3150 mm	3150 mm	
2 Shipping Length	9540 mm	9450 mm	12 750 mm	9780 mm	9820 mm	
3 Tail Swing Radius	2830 mm	2830 mm	2830 mm	2830 mm	2830 mm	
4 Length to Center of Rollers	3650 mm	3650 mm	3650 mm	3650 mm	3650 mm	
5 Track Length	4460 mm	4460 mm	4460 mm	4460 mm	4460 mm	
6 Ground Clearance	450 mm	450 mm	450 mm	450 mm	450 mm	
7 Track Gauge	2380 mm	2380 mm	2380 mm	2380 mm	2380 mm	
8 Transport Width						
600 mm Shoes	2980 mm	2980 mm	2980 mm	2980 mm	2980 mm	
700 mm Shoes	3080 mm	3080 mm	3080 mm	3080 mm	3080 mm	
790 mm Shoes	3170 mm	3170 mm	3170 mm	3170 mm	3170 mm	
9 Cab Height	2960 mm	2960 mm	2960 mm	2960 mm	2960 mm	
Cab Height with Top Guard	3150 mm	3150 mm	3150 mm	3150 mm	3150 mm	
10 Counterweight Clearance**	1020 mm	1020 mm	1020 mm	1020 mm	1020 mm	
Bucket Capacity	1.3 m ³	1.3 m ³	0.28 m³	1.3 m ³	1.3 m ³	
Bucket Tip Radius	1560 mm	1560 mm	1070 mm	1560 mm	1560 mm	

^{*}Including shoe lug height.

^{**}Without shoe lug height.

320E LN Dimensions

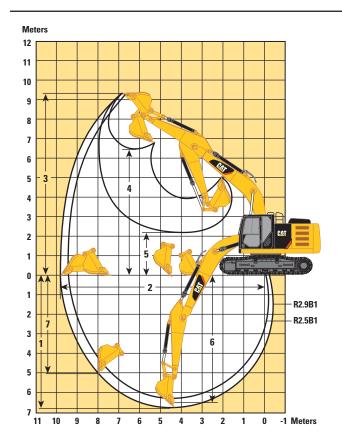


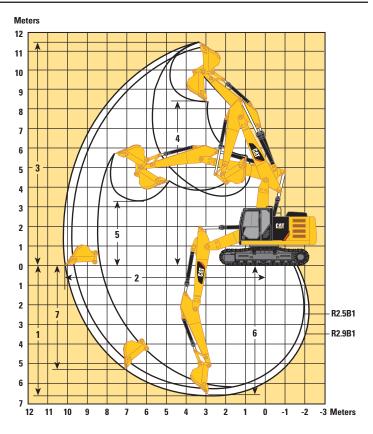
		Reach Boom HD 5.7 m		
Stick	R2.5B1 ES	R1.9CB2 HD	R2.5B1 ES	
1 Shipping Height without Guard Rail*	3080 mm	3050 mm	3020 mm	
Shipping Height with Guard Rail	3240 mm	3240 mm	3240 mm	
Shipping Height with Top Guard, without Guard Rail	3150 mm	3150 mm	3150 mm	
2 Shipping Length	9570 mm	9460 mm	9820 mm	
3 Tail Swing Radius	2830 mm	2830 mm	2830 mm	
4 Length to Center of Rollers	3650 mm	3650 mm	3650 mm	
5 Track Length	4460 mm	4460 mm	4460 mm	
6 Ground Clearance	450 mm	450 mm	450 mm	
7 Track Gauge	2000 mm	2000 mm	2000 mm	
8 Transport Width				
500 mm Shoes	2540 mm	2540 mm	2540 mm	
9 Cab Height	2960 mm	2960 mm	2960 mm	
Cab Height with Top Guard	3150 mm	3150 mm	3150 mm	
10 Counterweight Clearance**	1020 mm	1020 mm	1020 mm	
Bucket Capacity	1.3 m ³	1.3 m³	1.3 m ³	
Bucket Tip Radius	1560 mm	1620 mm	1560 mm	

^{*}Including shoe lug height.

^{**}Without shoe lug height.

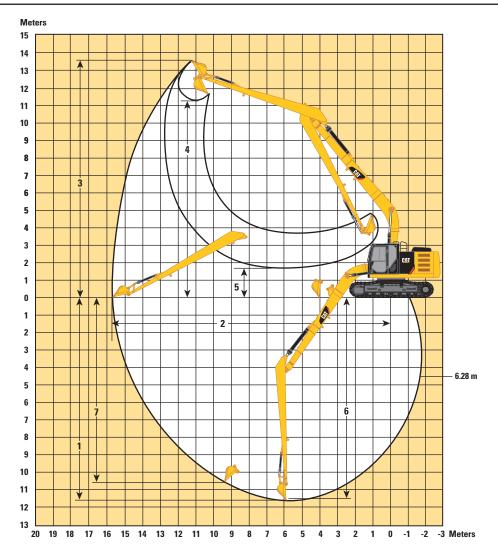
320E L Working Ranges





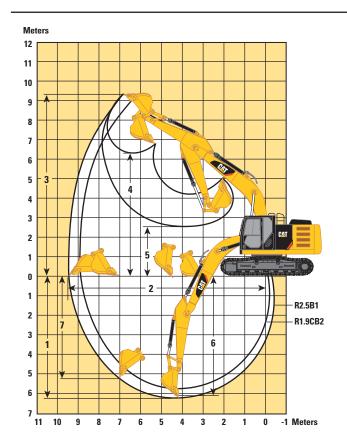
		Reach Boom 5.7 m		VA Boom	
Stick	R2.9B1 HD	R2.5B1 HD	R2.9B1 ES	R2.5B1 HD	
Maximum Slope	35°/70%	35°/70%	35°/70%	35°/70%	
1 Maximum Digging Depth	6720 mm	6290 mm	6680 mm	6270 mm	
2 Maximum Reach at Ground Level	9860 mm	9450 mm	10 200 mm	9800 mm	
3 Maximum Cutting Height	9370 mm	9240 mm	11 520 mm	11 180 mm	
4 Maximum Loading Height	6490 mm	6300 mm	8410 mm	8070 mm	
5 Minimum Loading Height	2170 mm	2600 mm	3270 mm	3670 mm	
6 Maximum Depth Cut for 2440 mm Level Bottom	6550 mm	6100 mm	6580 mm	6170 mm	
7 Maximum Vertical Wall Digging Depth	5060 mm	5210 mm	5290 mm	4890 mm	
Bucket Capacity	1.19 m ³	1.3 m ³	1.3 m ³	1.3 m ³	
Bucket Tip Radius	1570 mm	1560 mm	1560 mm	1560 mm	

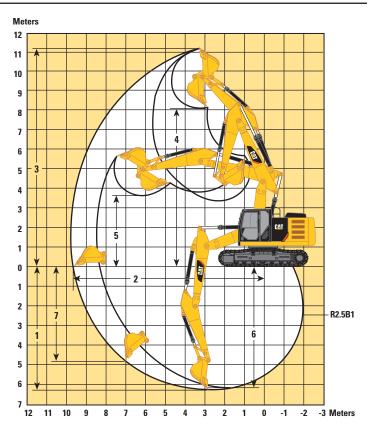
320E L Working Ranges



	Super Long Reach Boom 8.85 m
	Super Long Reach Stick 6.28 m
Maximum Slope	35°/70%
1 Maximum Digging Depth	11 690 mm
2 Maximum Reach at Ground Level	15 720 mm
3 Maximum Cutting Height	13 590 mm
4 Maximum Loading Height	11 290 mm
5 Minimum Loading Height	1740 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	11 590 mm
7 Maximum Vertical Wall Digging Depth	10 670 mm
Bucket Capacity	0.28 m^3
Bucket Tip Radius	1070 mm

320E LN Working Ranges





		Reach Boom HD 5.7 m				
Stick	R2.5B1 ES	R1.9CB2 HD	R2.5B1 ES			
Maximum Slope	35°/70%	35°/70%	35°/70%			
1 Maximum Digging Depth	6290 mm	5760 mm	6270 mm			
2 Maximum Reach at Ground Level	9450 mm	8950 mm	9800 mm			
3 Maximum Cutting Height	9240 mm	8940 mm	11 180 mm			
4 Maximum Loading Height	6300 mm	5930 mm	8070 mm			
5 Minimum Loading Height	2600 mm	3150 mm	3670 mm			
6 Maximum Depth Cut for 2440 mm Level Bottom	6100 mm	5520 mm	6170 mm			
7 Maximum Vertical Wall Digging Depth	5210 mm	4360 mm	4890 mm			
Bucket Capacity	1.3 m ³	1.3 m ³	1.3 m ³			
Bucket Tip Radius	1557 mm	1622 mm	1557 mm			

320E L Operating Weight and Ground Pressure*

	790 mm Triple Grouser Shoes		700 Triple Grou		600 mm Triple Grouser Shoes	
	kg	kPa	kg	kPa	kg	kPa
Reach Boom – 5.7 m						
R2.9B1 HD	22 200	35.1	21 900	39.1	21 600	44.9
R2.5B1 HD	22 100	34.9	21 800	38.8	21 400	44.5
VA Boom						
R2.9 ES	23 600	37.2	23 300	41.5	23 000	47.8
R2.5 HD	23 200	36.6	22 900	40.8	22 600	46.9
Super Long Reach Boom – 8.85 m						
6.28 m (SLR)	23 500	37.1	23 200	41.3	22 800	47.4

^{*}Actual weights will depend on final machine configuration.

320E L Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	11 900
Long Undercarriage	7850
Counterweight	
3.55 mt	3550
4.60 mt (Super Long Reach counterweight)	4600
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 5.7 m	1670
VA Boom	2580
Super Long Reach – 8.85 m	2400
Stick (includes lines, pins and bucket cylinder)	
R2.9B1 HD	680
R2.5B1 HD	670
6.28 m (SLR)	1240
Track Shoe (Long/per two tracks)	
600 mm Triple Grouser	2700
700 mm Triple Grouser	3070
790 mm Triple Grouser	3360

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

320E LN Operating Weight and Ground Pressure*

	600 n Triple Grous	
	kg	kPa
HD Reach Boom – 5.7 m		
R2.5B1 ES	22 460	66.7
R1.9CB2 HD	22 480	66.7
VA Boom		
R2.5B1 ES	23 640	69.8

^{*}Actual weights will depend on final machine configuration.

320E LN Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	11 450
Long Narrow Undercarriage with 500 mm Triple Grouser	6880
Counterweight	
4.1 mt	4100
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 5.7 m	1430
VA Boom	2310
Stick (includes lines, pins and bucket cylinder)	
R2.5B1 ES	750
R1.9CB2 HD	750
Track Shoe (Long/per two tracks)	
500 mm Triple Grouser	2440

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

320E L/320E LN Bucket and Stick Forces

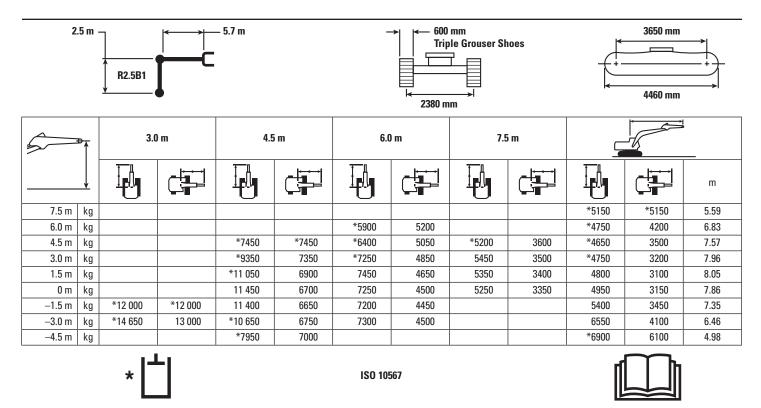
					Reach Boor 5.7 m	n					
		without CW			for CW-40			for CW-40S			
Stick	R2.9B1	R2.5B1 ¹	R1.9CB2 ²	R2.9B1	R2.5B1 ¹	R1.9CB2 ²	R2.9B1	R2.5B1 ¹	R1.9CB2 ²		
	kN	kN	kN	kN	kN	kN	kN	kN	kN		
General Duty											
Bucket Digging Force (ISO)	140.5	140.5	178.9	127.7	127.7	162.87	127.7	127.7	-		
Stick Digging Force (ISO)	106.7	118.2	147.9	103.2	114.0	140.6	103.2	114.0	-		
General Duty Capacity											
Bucket Digging Force (ISO)	139.4	139.4	174.1	-	-	_	-	-	-		
Stick Digging Force (ISO)	106.2	117.7	145.5	-	-	_	-	-	-		
Heavy Duty											
Bucket Digging Force (ISO)	150.4	140.2	178.7	127.4	127.4	_	127.4	127.4	171.78		
Stick Digging Force (ISO)	106.4	118.1	147.8	103.1	113.8	_	103.1	113.8	144.78		
Heavy Duty Power											
Bucket Digging Force (ISO)	-	_	194.9	_	_	_	_	-	-		
Stick Digging Force (ISO)	_	_	149.7	_	_	_	_	-	_		
Severe Duty											
Bucket Digging Force (ISO)	_	_	178.5	_	_	-	_	_	_		
Stick Digging Force (ISO)	-	-	147.7	-	_	-	_	-	-		

		VA Boom		320E L Super Long Reach Boom 8.85 m
	without CW	for CW-40	for CW-40S	A1-Family Bucket
Stick	R2.5B1	R2.5B1	R2.5B1	Super Long Reach 6.28 m
	kN	kN	kN	kN
General Duty				
Bucket Digging Force (ISO)	140.5	127.7	127.7	45.5
Stick Digging Force (ISO)	118.2	114.0	114.0	35.4
General Duty Capacity				
Bucket Digging Force (ISO)	139.4	=	-	=
Stick Digging Force (ISO)	117.7	_	-	=
Heavy Duty				
Bucket Digging Force (ISO)	140.2	127.4	127.4	_
Stick Digging Force (ISO)	118.1	113.8	113.8	_

¹B1-Family Bucket

²CB2-Family Bucket

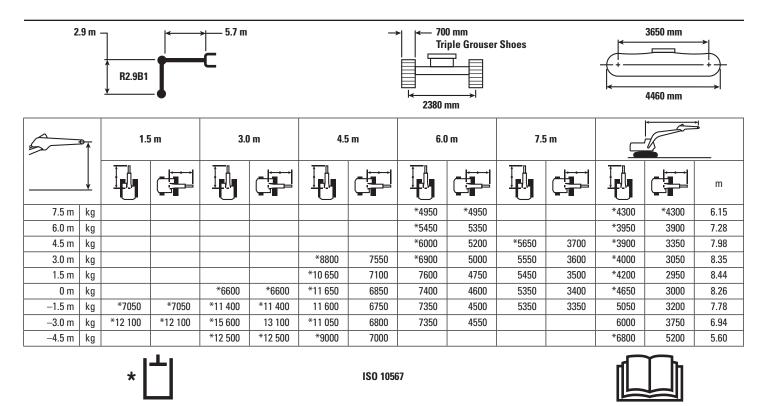
320E L Reach Boom Lift Capacities - Counterweight: 3.55 mt - without Bucket



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

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

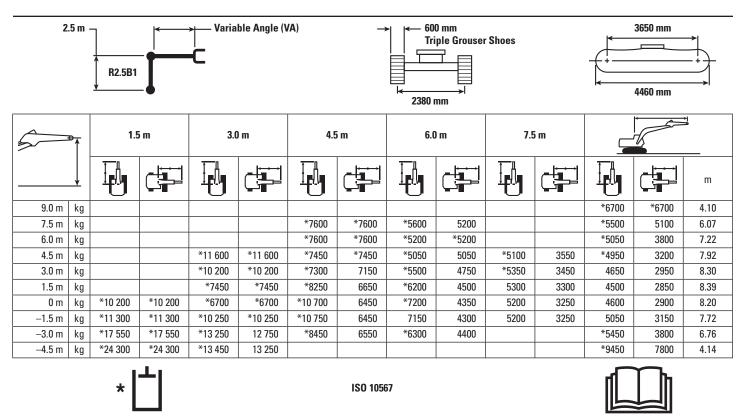
320E L Reach Boom Lift Capacities – Counterweight: 3.55 mt – without Bucket



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

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

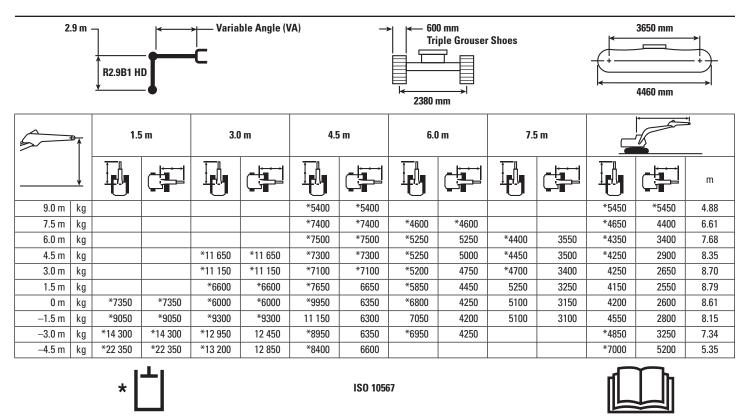
320E L Variable Angle Boom Lift Capacities – Counterweight: 3.55 mt – without Bucket



^{*}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. VA-cylinder is flexible. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with $\pm 5\%$ for all available track shoes.

320E L Variable Angle Boom Lift Capacities – Counterweight: 3.55 mt – without Bucket



^{*}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. VA-cylinder is flexible. 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.

320E L Super Long Reach Boom Lift Capacities — Counterweight: 4.6 mt — without Bucket

6.28 m		8.85 m Super Long Reach Triple Grouser Shoes 2380 mm								3650 mm 4460 mm			
5	1.	5 m	3.0	3.0 m 4.5 m		6.0) m	7.5	i m	5		↑	
			T ₁										m
12.0 m kg	3										*1250	*1250	10.35
10.5 m kg	3										*1200	*1200	11.66
9.0 m kg											*1150	*1150	12.66
7.5 m kg	3										*1100	*1100	13.41
6.0 m kg											*1100	*1100	13.97
4.5 m kg	_										*1100	*1100	14.34
3.0 m kg			*4700	*4700	*5950	*5950	*4350	*4350	*3550	*3550	*1150	*1150	14.55
1.5 m kg	1				*6750	6700	*5150	4650	*4000	3450	*1200	1150	14.60
0 m kg	3		*2000	*2000	*4650	*4650	*5750	4150	*4450	3150	*1250	1150	14.49
−1.5 m kg	*2050	*2050	*2700	*2700	*4650	*4650	*6100	3850	*4700	2900	*1350	1150	14.23
−3.0 m kg	*2850	*2850	*3500	*3500	*5200	*5200	*6250	3750	4850	2800	*1500	1200	13.79
-4.5 m kg	*3650	*3650	*4400	*4400	*6050	5600	*6250	3700	4800	2700	*1700	1300	13.17
−6.0 m kg	*4550	*4550	*5400	*5400	*7200	5700	*6000	3750	*4750	2750	*2000	1450	12.34
−7.5 m kg	*5500	*5500	*6550	*6550	*7100	5900	*5500	3850	*4450	2800	*2500	1700	11.24
−9.0 m kg	3		*7950	*7950	*5950	*5950	*4700	4050	*3800	2950	*2600	2100	9.80
	9.	0 m	10.	5 m	12.	0 m	13.5 m		13.5 m		*		
											m		
12.0 m kg	3								*1250	*1250	10.35		
10.5 m kg	3		*2150	*2150					*1200	*1200	11.66		
9.0 m kg	3		*2150	*2150	*2000	*2000			*1150	*1150	12.66		
7.5 m kg			*2200	*2200	*2150	2000			*1100	*1100	13.41		
6.0 m kg	_		*2350	*2350	*2250	1950	*1850	1500	*1100	*1100	13.97		
4.5 m kg	*2750	*2750	*2500	2400	*2350	1850	*2250	1450	*1100	*1100	14.34		
3.0 m kg		2900	*2700	2250	*2500	1750	*2300	1400	*1150	*1150	14.55		
1.5 m kg		2650	*2900	2100	*2600	1650	2300	1350	*1200	1150	14.60		
0 m kg		2450	*3100	1950	2700	1600	2250	1300	*1250	1150	14.49		
−1.5 m kg	*3850	2300	3150	1850	2600	1500	2200	1250	*1350	1150	14.23		
−3.0 m kg		2200	3050	1750	2550	1450	2150	1250	*1500	1200	13.79		
–4.5 m kg	_	2150	3050	1750	2550	1450			*1700	1300	13.17		
−6.0 m kg		2150	3050	1750	2550	1450			*2000	1450	12.34		
–7.5 m kg		2200	*2950	1800					*2500	1700	11.24		
−9.0 m kg	3050	2350							*2600	2100	9.80		
	*					ISO 1056	57				ſĹ		

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

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

320E L Work Tool Offering Guide*

Boom Type	Re	ach	VA E	Boom				
Stick Size	R2.9B1 HD	R2.5B1 HD	R2.9B1 ES	R2.5B1 HD				
Hydraulic Hammer	H115Es H120Es H130Es	H115Es H120Es H130Es	H115Es H120Es H130Es	H115Es H120Es H130Es				
Multi-Processor	MP15**	MP15	MP15**^	MP15				
Crusher	P315**	P315	P315**	P315				
Pulverizer	P215	P215	P215	P215				
Demolition and Sorting Grapple	G315B**	G315B G320B***#	G315B**	G315B G320B***#				
Mobile Scrap and Demolition Shear	S320B** S325B##	S320B S325B##	S320B*** S325B##	S320B** S325B##				
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110	CVP110				
Contractors' Grapple	G120B-G130B	G120B-G130B	G120B-G130B	G120B-G130B				
Trash Grapple								
Thumbs								
Orange Peel Grapples	T	These work tools are available for the 320E L. Consult your Cat dealer for proper match.						
Rakes		Consuit your Cat dea	alei ioi piopei maten	•				
Dedicated Quick Coupler								

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

#Over the front only.

##Boom mount.

^{**}Pin-on or CW coupler.

^{***}Pin-on only.

[^]PP jaws pin-on only.

320E LN Work Tool Offering Guide*

Boom Type	Reac	Reach HD				
Stick Size	R2.5B1 ES	R1.9CB2 HD	R2.5B1 ES			
Hydraulic Hammer	H115Es H120Es H130Es	H120Es H130Es H140Ds**#	H115Es H120Es H130Es**#			
Multi-Processor	MP15 CC Jaw** MP15 CR Jaw** MP15 PP Jaw**# MP15 PS Jaw** MP15 S Jaw**	MP15 CC Jaw** MP15 CR Jaw** MP15 PP Jaw** MP15 PS Jaw** MP15 S Jaw**	MP15 CC Jaw*** MP15 CR Jaw*** MP15 S Jaw***			
Crusher	P315##	P315**	P315***			
Pulverizer	P215	P215	P215**			
Demolition and Sorting Grapple	G315B**					
Mobile Scrap and Demolition Shear	S320B**# S325B^	S320B** S325B^	S325B^			
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110			
Contractors' Grapple	G120B-G130B	G120B-G130B	G120B-G130B			
Trash Grapple						
Thumbs						
Orange Peel Grapples	These work tools are available for the 320E LN.					
Rakes	Consul	t your Cat dealer for proper	match.			
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 with CW coupler.

^{##}Over the front only with the CL coupler.

[^]Boom mount.

320E L Bucket Specifications and Compatibility

			Width	Capacity	Weight	Fill	Reach	Boom	VA E	Boom	Super Long Reach
		Linkage	mm	m³	kg	%	R2.9 HD	R2.5 HD	R2.9 ES	R2.5 HD	6.28 m
Without Quick Coupler	r										
General Duty (GD)		В	600	0.46	549	100%	•	•	•	•	
		В	750	0.64	620	100%	•	•	•	•	
		В	900	0.81	666	100%	•	•	•	•	
		В	1200	1.19	800	100%	•	•	•	•	
		В	1300	1.30	832	100%	•	•	Θ	•	
		В	1400	1.43	867	100%	Θ	•	0	Θ	
Heavy Duty (HD)		В	1050	1.00	879	100%	•	•	•	•	
		В	1200	1.19	906	100%	•	•	Θ	•	
		В	1200	1.19	917	100%	•	•	Θ	•	
		В	1300	1.30	960	100%	Θ	•	Θ	Θ	
Severe Duty (SD)		В	1200	1.19	1000	90%	•	•	•	•	
Ditch Cleaning (DC)	Tiltable	А	1800	0.61	723	N/A					✓
<u> </u>	Rigid	А	1800	0.63	490	N/A					✓
	Rigid	А	2000	0.83	560	N/A					✓
		M	aximum load	pin-on (paylo	ad + bucket)	kg	3115	3355	2895	3150	915
With Quick Coupler (C	W40, CW40s)										
General Duty (GD)		В	600	0.46	502	100%			•	•	
		В	750	0.64	587	100%		•	•	•	
		В	900	0.81	653	100%	•	•	•	•	
		В	1200	1.19	767	100%	•	•	Θ	•	
		В	1300	1.30	798	100%	Θ	•	0	Θ	
		В	1400	1.43	834	100%	0	Θ	0	Θ	
Heavy Duty (HD)		В	600	0.46	584	100%	•	•	•	•	
		В	1200	1.19	873	100%	Θ	•	Θ	Θ	
		В	1300	1.30	927	100%	Θ	Θ	0	Θ	
Severe Duty (SD)		В	1200	1.19	984	90%	•	•	Θ	•	
		Maximu	n load with c	oupler (paylo	ad + bucket)	kg	2863	3103	2643	2898	

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.

Maximum Material Density:

- 2100 kg/m³
- 1800 kg/m³
- → 1500 kg/m³
- 1200 kg/m³

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 LN Bucket Specifications and Compatibility

		Width mm	Capacity m ³	Weight kg	Fill %	Reach Boom (HD)	VA Boom R2.5 ES
	Linkage						
Without Quick Coupler							
General Duty (GD)	В	600	0.46	549	100%	•	•
	В	750	0.64	620	100%	•	•
	В	900	0.81	666	100%	•	•
	В	1200	1.19	800	100%	Θ	Θ
	В	1300	1.30	832	100%	Θ	Θ
	В	1400	1.43	867	100%	0	0
Heavy Duty (HD)	В	1050	1.00	879	100%	•	•
	В	1200	1.19	906	100%	Θ	Θ
	В	1200	1.19	917	100%	Θ	Θ
	В	1300	1.30	960	100%	0	0
Severe Duty (SD)	В	1200	1.19	1000	90%	Θ	Θ
Maximum load pin-on (payload + bucket)				kg	2810	2720	
With Quick Coupler (CW40, CV	V40s)						
General Duty (GD)	В	600	0.46	502	100%	•	•
	В	750	0.64	587	100%	•	•
	В	900	0.81	653	100%	•	•
	В	1200	1.19	767	100%	Θ	Θ
	В	1300	1.30	798	100%	0	0
	В	1400	1.43	834	100%	0	0
Heavy Duty (HD)	В	600	0.46	584	100%	•	•
	В	1200	1.19	873	100%	0	0
	В	1300	1.30	927	100%	0	0
Severe Duty (SD)	В	1200	1.19	984	90%	Θ	0
	Maximu	n load with c	oupler (paylo	ad + bucket)	kg	2558	2468

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.

Maximum Material Density:

- 2100 kg/m³
- 1800 kg/m³
- → 1500 kg/m³
- 1200 kg/m³

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/LN Standard Equipment

Standard Equipment

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

ENGINE

- C6.6 diesel engine
- · Biodiesel capable
- European Union Stage IIIB compliant
- 2300 m altitude capability
- Electric priming pump (lifting pump)
- Automatic engine speed control
- Economy and high power modes
- · Two-speed travel
- Side-by-side cooling system (tilt-up ATAAC, swing-out A/C condenser)
- · Radial seal air filter
- Primary filter with water separator and water separator indicator switch
- Standard battery, -18° C
- Screen fuel filter in fuel lines
- · Primary fuel filter
- · Secondary fuel filter

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
- Quick drains, engine and hydraulic oil (QuickEvac)

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
- 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
- Sunscreen
- · Windshield wiper, lower with washer

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

TECHNOLOGY

- Product Link/VisionLink
- Cat AccuGrade

320E L/LN Optional Equipment

Optional Equipment

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

ENGINE

- Electric refueling pump with auto shut off
- Cold weather battery, -32° C
- Radiator screen

HYDRAULIC SYSTEM

- · Additional circuit
- · Boom and stick lines
- High-pressure line
- Medium-pressure line
- Cat quick coupler line high- and medium-pressure capable
- Electronic Control device, 1/2P, one-way circuit
- Electronic Control device (Common), 1/2P, common circuit

CAB

- Seat, high-back air suspension with heater
- · Seat, high-back mechanical suspension
- · Air pre-filter
- · Left foot switch
- Straight travel pedal
- Rain protector

UNDERCARRIAGE

- 500 mm triple grouser shoes (LN)
- 600 mm triple grouser shoes
- 700 mm triple grouser shoes
- 790 mm triple grouser shoes
- Full length track guiding guard
- Center track guiding guard
- Segmented (2 piece) track guiding guard

FRONT LINKAGE

- · Quick coupler
- Bucket linkage, B1 family with and without lifting eye
- Bucket linkage, CB2 family with lifting eye (LN)
- Reach Boom 5.7 m (320E L)
- -2.9 m Heavy Duty stick
- -2.5 m Heavy Duty stick
- VA Boom (320E L)
- -2.9 m Extreme Service stick
- -2.5 m Heavy Duty stick
- HD Reach Boom 5.7 m (320E LN)
- -2.5 m Extreme Service stick
- -1.9 m Heavy Duty stick
- VA Boom (320E LN)
 - -2.5 m Extreme Service stick
- Super Long Reach Boom and Stick

LIGHTS

- · Working lights, cab mounted with time delay
- HID lights, cab mounted with time delay

SECURITY

- FOGS, bolt-on
- · Travel alarm

TECHNOLOGY

• Cat Grade Control Depth and Slope

COUNTERWEIGHT

- L: 3.55 tons
- LN: 4.1 tons
- SLR: 4.6 tons

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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