

320D/320D L

Hydraulic Excavators
with C6.6 Engine



Engine

Engine Model	Cat® C6.6 ACERT™
Gross Power – SAE J1995	111 kW
Net Power – SAE J1349/ISO 9249	103 kW

Weights

Minimum Operating Weight	20 970 kg
Maximum Operating Weight	22 620 kg

320D/320D L Features

Engine and Hydraulics

A powerful Cat C6.6 engine combined with a highly efficient hydraulics system provide excellent machine performance with low fuel consumption.

Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life in the toughest applications.

Operator Station

The spacious cab has excellent visibility and easy-to-access switches. The monitor features a full-color graphical display that is user intuitive and highly visual with built-in pre-start machine checks. Overall, the new cab provides a comfortable working environment for efficient day-long operation.

Service and Maintenance

This machine has been designed so that routine service and maintenance can be completed quickly and easily to help reduce ownership costs. Convenient access points with extended intervals and advanced filtration keeps downtime to a minimum.

Complete Customer Support

Your Cat® dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment.

Cat® 320D Total Solutions

Caterpillar and its extensive dealer network offer a wide variety of solutions designed to meet the unique needs of your business.

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The D Series incorporates many innovations for improved performance and versatility.

Engine

Clean, quiet operation and superior power with ACERT™ Technology

Cat C6.6

The 320D is equipped with a Cat C6.6 ACERT™ engine that is powerful, strong, and durable to meet all of your application needs. An ECO mode feature helps to reduce fuel consumption by up to 15% for fuel conscious customers. ACERT engines incorporate proven, robust components you can count on for reliable and efficient day-long operation.

Automatic Engine Speed Control

Automatic engine speed control is activated during no-load or light-load conditions and reduces engine speed to minimize fuel consumption.

Air Cleaner

The radial seal air filter features a double-layered filter core for more efficient filtration and is located in a compartment behind the cab. A warning is displayed on the monitor when dust accumulates above a preset level.

Filtration System

The C6.6 engine features an improved filtration system to ensure fuel injection system reliability.

Low Sound, Low Vibration

The Cat C6.6 improves operator comfort by reducing sound and vibration.



Hydraulics

High efficiency and performance with low effort and precise control



Hydraulic System

Hydraulic system pressure is 35 000 kPa with 205 L/min flow from each of the two hydraulic pumps. This pressure increases digging performance and productivity.

Pilot System

The pilot pump is independent from the main pumps and controls the front linkage, swing, and travel operations.

Component Layout

The 320D hydraulic system and component locations have been designed to provide a high level of system efficiency. The main pumps, control valves, and hydraulic tank are located close together to allow for shorter tubes and lines between components, which reduce friction loss and pressure drops.

Hydraulic Cross Sensing System

The hydraulic cross sensing system utilizes each of two hydraulic pumps to 100 percent of engine power under all operating conditions. This improves productivity with faster implement speeds and quicker, stronger pivot turns.

Auxiliary Hydraulic Valve

Control circuits are available as attachments, which improves versatility. They allow operation of high- and medium-pressure tools such as shears, grapples, hammers, pulverizers, multi-processors, and vibratory plate compactors.

Boom and Stick Regeneration Circuit

Boom and stick regeneration circuits save energy during boom-down and stick-in operations. This increases efficiency and reduces cycle times and pressure loss for higher productivity, lower operating costs, and increased fuel efficiency.

Hydraulic Cylinder Snubbers

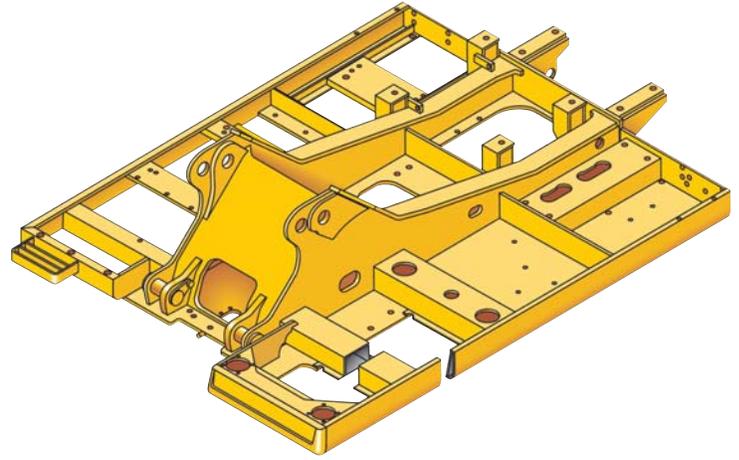
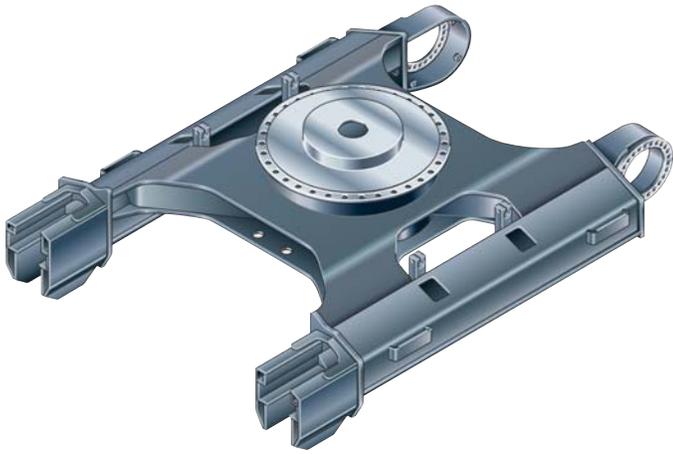
Snubbers are located at the rod end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.

Hydraulic Activation Control Lever

For added safety, this lever must be in the operate position to activate all machine hydraulic control functions.

Climate Control

Positive filtered ventilation with a pressurized cab is standard. Fresh air or recirculated air can be selected with a switch on the left console.



Structures

Designed to handle the most rugged operating conditions while providing long life and value

Carbody Design and Track Roller Frames

X-shaped box-section carbody provides excellent resistance to torsional bending. Robot-welded track roller frames are press-formed pentagonal units to deliver exceptional strength and service life.

Main Frame

Rugged main frame is designed for maximum durability and efficient use of materials.

Undercarriage

Durable Cat undercarriage absorbs stresses and provides excellent stability.

Rollers and Idlers

Sealed and lubricated track rollers, carrier rollers, and idlers provide excellent service life to keep the machine in the field longer.

Standard Undercarriage

The standard undercarriage is well suited for applications that require frequent repositioning of the machine, have restricted working space, or uneven, rocky terrain.

Long Undercarriage

The long undercarriage maximizes stability and lift capacity. This long, wide, and sturdy undercarriage offers a very stable work platform.

Operator Station

Designed for comfortable, simple, and easy operation to allow the operator to focus on production



Operator Station

The ergonomically designed operator station is spacious, quiet, and comfortable, assuring high productivity during a long work day. All switches are located on the right-hand console for convenient access.

Monitor

The monitor is a full color 400×234 pixels Liquid Crystal Display (LCD) graphic display. The monitor angle can be adjusted to minimize sun glare and has the capability of displaying information in 27 languages.

Joystick Control

Pilot-operated joystick controls are designed to match the operator's natural wrist and arm position for maximum comfort and minimum fatigue.

Seat

The standard suspension seat provides a variety of adjustments to suit the operator's size and weight, including fore/aft, height, and weight. Wide adjustable armrests and a retractable seat belt are also included.

Console

The consoles feature a simple, functional design to reduce operator fatigue, ease switch operation, and provide excellent visibility. Both consoles have attached armrests with height adjustments.

Cab Exterior

The cab shell features thick steel tubing along the bottom perimeter of the cab, improving resistance to fatigue and vibration.

Cab Mounts

The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort.

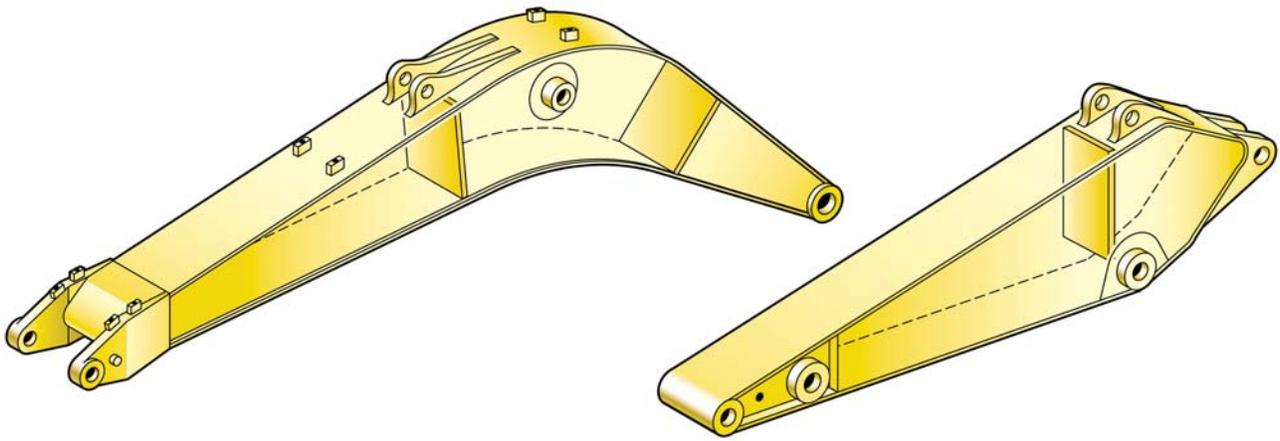
Windows

To maximize visibility, all glass is affixed directly to the cab, eliminating window frames. The upper front windshield opens, closes, and stores on the roof above the operator with a one-touch action release system.

Wipers

Pillar-mounted wipers increase the operator's viewing area and offer continuous and intermittent modes.





Booms and Sticks

Designed-in flexibility to help bring higher production and efficiency to all jobs

Booms, Sticks and Attachments

Cat front linkages are designed for maximum flexibility, productivity, and high efficiency for several applications.

Heavy-Duty Reach Boom

The heavy-duty reach boom features an optimum design that maximizes digging envelopes with two stick choices; it also incorporates a large cross section and internal baffle plates for long life and durability.

R2.5B1 and R2.9B1 sticks are also heavy duty and are made of high-tensile-strength steel using a large box-section design with interior baffle plates and an additional bottom guard.

Super Long Reach Front

This super long reach front option provides up to 15.2 m of reach and is designed for light-duty applications requiring an extra-large working envelope.



Work Tools

An extensive selection to optimize machine performance

An extensive range of attachments includes buckets, quick couplers, hydraulic hammers, multi-processors, shears, grapples, and rippers. Each is designed to optimize machine versatility and performance. Cat buckets and Cat Ground Engaging Tools (GET) are designed and matched to the machine to ensure optimal performance and fuel consumption. They are built to Caterpillar specifications to guarantee quality and durability.

General Duty (GD) Buckets

GD buckets have been designed for machines digging in low-impact, moderately abrasive materials such as dirt, loam, gravel, and clay.

Heavy-Duty (HD) Buckets

HD buckets are used for a wide range of moderately abrasive applications such as mixed dirt, clay, and rock. HD buckets have the best loading and dumping characteristics and will empty easier in cohesive material. These feature a more robust construction than GD buckets.

Severe Duty (SD) Buckets

SD are best suited to highly abrasive applications such as shot rock and granite.

Tool Control System

The optional tool control system maximizes work tool productivity by configuring hydraulic flow, pressure, and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used.

Service and Maintenance

Simplified service and maintenance features to save you time and money

Ground Level Service

The design and layout of the 320D was made with the service technician in mind. Many service locations are easily accessible at ground level, allowing service and maintenance to get completed quickly and efficiently.

Air Filter Compartment

The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

Pump Compartment

A service door on the right side of the upper structure allows ground-level access to the pump, pilot filter, and water separator with primary fuel filter.

Radiator Compartment

The left rear service door allows easy access to the engine radiator, oil cooler, air-to-air aftercooler fuel filters, and fuel cooler. A reserve tank and drain cock are attached to the radiator for simplified maintenance.

Capsule Filter

The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean.

Greasing Points

A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations on the front.

Fan Guard

The engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of an accident.

Anti-Skid Plate

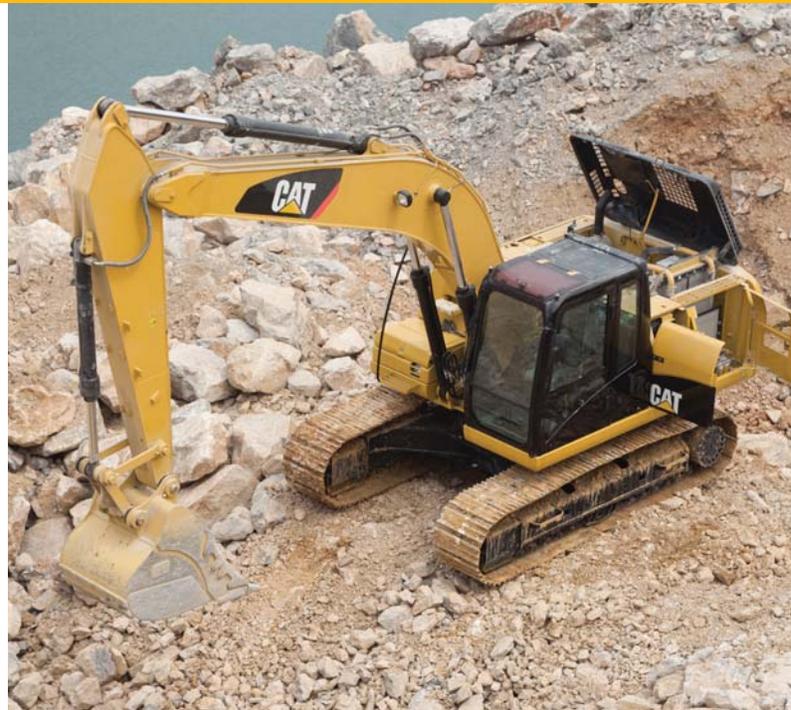
Anti-skid plate covers top of storage box and upper structure to prevent slipping during maintenance.

Diagnostics and Monitoring

The 320D is equipped with S·O·SSM sampling ports and hydraulic test ports for the hydraulic system, engine oil, and coolant. A test connection for the Cat Electronic Technician (Cat ET) service tool is located behind the cab.

Extended Service Interval

320D service and maintenance intervals have been extended to reduce machine service time and increase machine availability.





Complete Customer Support

Cat dealer services to help you operate longer with lower costs

Product Support

You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. Save money with remanufactured components.

Machine Selection

Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments, and operating hours? What production is needed? Your Cat dealer can provide recommendations.

Maintenance Services

Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as scheduled oil sampling, coolant sampling, and technical analysis help you avoid unscheduled repairs.

Customer Support Agreements

Cat dealers offer a variety of product support agreements and work with customers to develop a plan the best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Replacement

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

Cat[®] 320D Total Solutions

More than a piece of equipment – your livelihood

The Cat 320D excavator provides all the elements to give you the lowest cost to own and operate. At the end of the day, it all comes down to how much work you got done and how much did it cost you. Caterpillar and the 320D offer you the tools to help lower your owning and operating costs.

Better Fuel Efficiency

Less fuel consumed per ton of earth/material moved is the measurement that matters most. Using the machine's economy mode can result in as much as an additional 15% less fuel consumption.

More Performance

Finish the job faster with high hydraulic horsepower.

More Useful Information

The monitor gives you vital operating and performance information all in a simple, easy-to-navigate format.

Better Serviceability

The 320D sets itself apart from similar-size machines with many service points accessible at ground level.

Extended Maintenance Intervals

The 320D provides extended maintenance intervals that provide less cost over the life of the machine.

More Solutions

Caterpillar and its dealer network have the ability to match a solution best suited to your needs. Your Cat dealer helps you operate longer with lower costs and will assist you with a plan that can cover everything from machine configuration to eventual replacement.



320D/320D L Specifications

Engine

Engine Model	Cat® C6.6 ACERT™
Gross Power – SAE J1995	111 kW
Net Power – SAE J1349/ ISO 9249	103 kW
Bore	105 mm
Stroke	127 mm
Displacement	6.6 L

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine derating needed up to 3000 m.

Weights

Operating Weight – Std. Undercarriage	20 970 kg
• Reach Boom (HD), R2.5 Stick (HD), 600 mm Track Shoes and 1.0 m ³ Bucket	
Operating Weight – Long Undercarriage	21 920 kg
• Reach Boom (HD), R2.9 Stick (HD), 700 mm Track Shoes and 1.0 m ³ Bucket	
Operating Weight – SLR Long Undercarriage	22 620 kg
• 700 mm Track Shoes and 0.60 m ³ (DC) Bucket	

Service Refill Capacities

Fuel Tank Capacity	410 L
Cooling System	29 L
Engine Oil	22 L
Swing Drive	8 L
Final Drive (each)	8 L
Hydraulic System (including tank)	260 L
Hydraulic Tank	120 L

Swing Mechanism

Swing Speed	11.5 rpm
Swing Torque	62 kN·m

Drive

Maximum Drawbar Pull	206 kN
Maximum Travel Speed	5.6 km/L

Hydraulic System

Main Implement System – Maximum Flow (2x)	205 L/min
Maximum Pressure – Equipment	35 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	32.4 L/min
Pilot System – Maximum Pressure	3900 kPa
Boom Cylinder – Bore	120 mm
Boom Cylinder – Stroke	1260 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1504 mm
B1 Family Bucket Cylinder – Bore	120 mm
B1 Family Bucket Cylinder – Stroke	1104 mm

Sound Performance

Performance

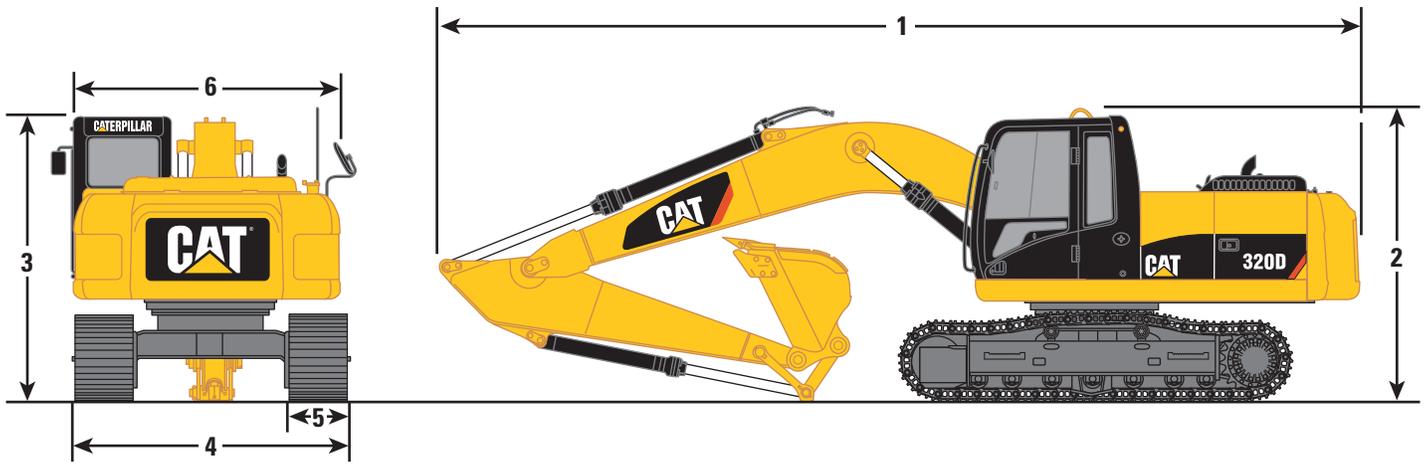
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	ISO 10265 2008
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Dimensions

All dimensions are approximate.



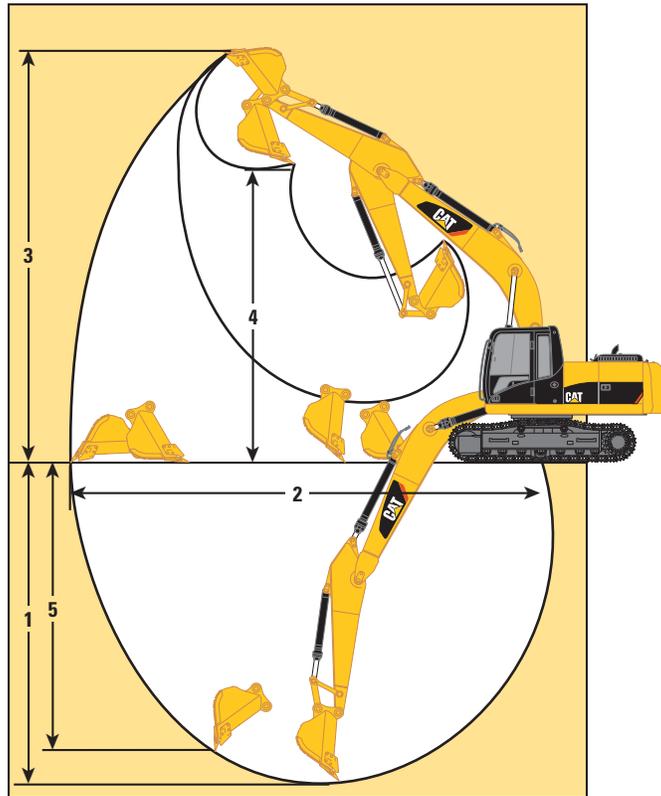
Boom Options

	320D Reach Boom (HD)	320D L Reach Boom (HD)
Stick	R2.5 (HD)	R2.9 (HD)
Bucket	1.0 m ³	1.0 m ³
Shoe	600 mm	700 mm
Undercarriage	STD	LC
Approximate Weight	20 970 kg	21 920 kg
1 Overall Length	9460 mm	9460 mm
2 Overall Height	3050 mm	3050 mm
3 Height of Cab	2950 mm	2950 mm
4 Overall Width	2800 mm	2900 mm
5 Track Shoe Width	600 mm	700 mm
6 Width of Upper Structure	2740 mm	2740 mm

320D/320D L Specifications

Working Ranges

All dimensions are approximate.



Boom Options

Reach Boom

Reach Boom

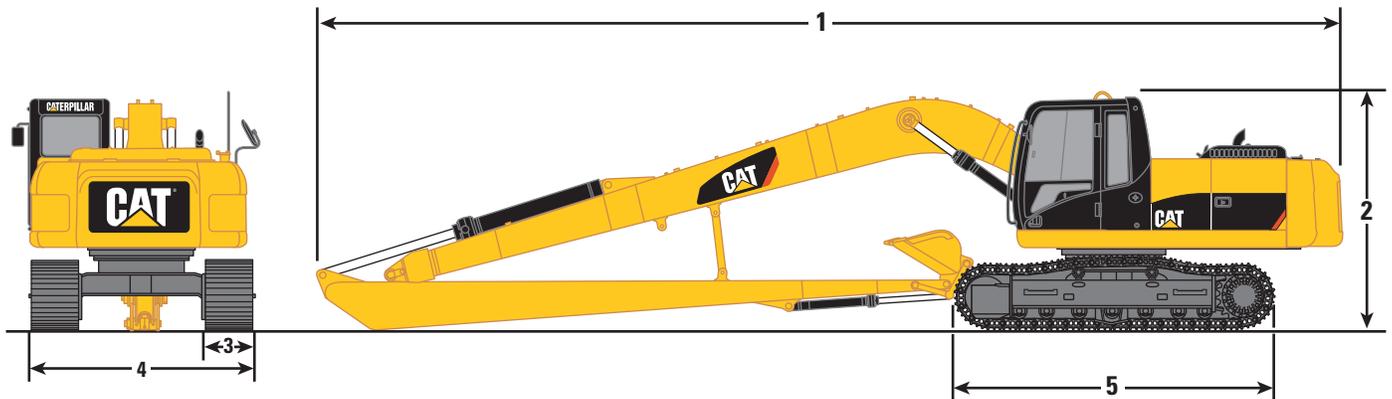
Stick

Bucket

	5.7 m (HD)	5.7 m (HD)
	2.9 m (HD)	2.5 m (HD)
	1.0 m ³	1.0 m ³
1 Maximum Digging Depth	6720 mm	6300 mm
2 Maximum Reach at Ground Level	10 020 mm	9630 mm
3 Maximum Cutting Height	9490 mm	9290 mm
4 Maximum Loading Height	6490 mm	6290 mm
5 Maximum Digging (Vertical Wall)	6060 mm	5650 mm

Dimensions

All dimensions are approximate.



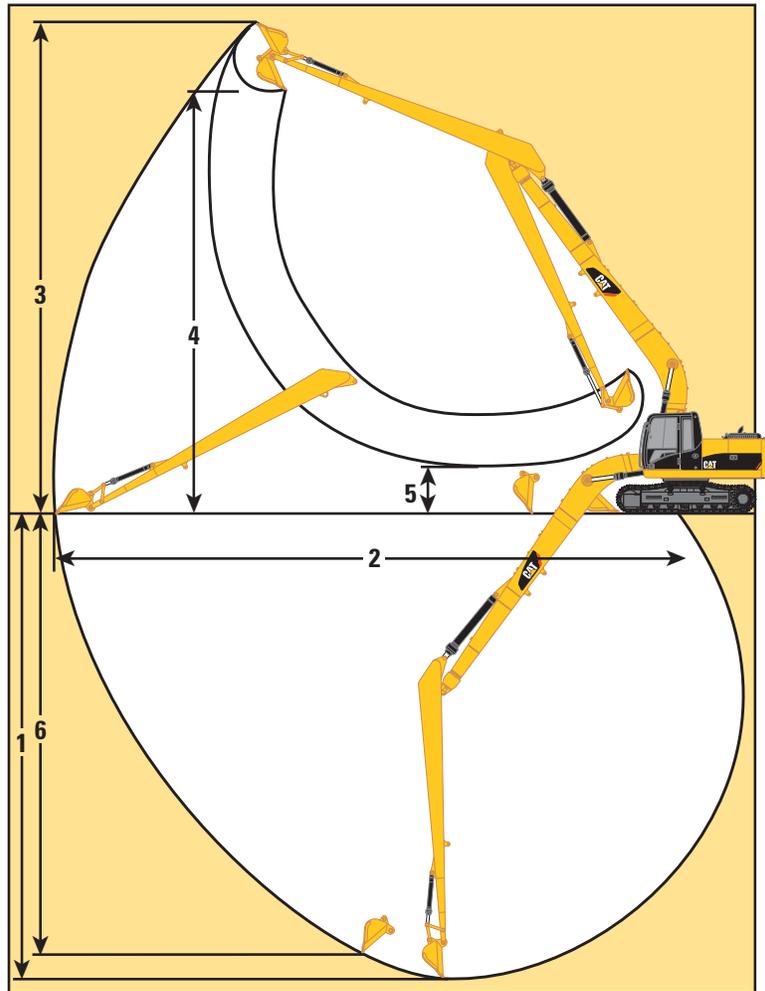
Boom Options

	320D L Super Long Reach Boom
Stick	6.28 m
Bucket	0.60 m³
Shoe	700 mm TG
Approximate Weight	22 620 kg
1 Overall Length	12 680 mm
2 Overall Height	3190 mm
3 Track Shoe Width	700 mm
4 Overall Width	3080 mm
5 Length of Track	4455 mm

320D/320D L Specifications

Working Ranges

All dimensions are approximate.



Super Long Reach Working Ranges

Boom Options	Super Long Reach Boom	
Stick Options	8.85 m	
Bucket Options	6.28 m	
	Excavation	Ditch Cleaning
	0.45 m ³	0.60 m ³
1 Maximum Digging Depth	11 880 mm	11 750 mm
2 Maximum Reach at Ground Level	15 720 mm	15 590 mm
3 Maximum Cutting Height	13 290 mm	13 230 mm
4 Maximum Loading Height	11 010 mm	11 140 mm
5 Minimum Loading Height	1970 mm	2090 mm
6 Maximum Vertical Wall Digging Depth	10 700 mm	11 310 mm
Bucket Digging Force (ISO)	60 kN	60 kN
Stick Digging Force (ISO)	46 kN	46 kN

Major Component Weights

Base machine with counterweight (without front linkage)	
Standard Undercarriage with 600 mm triple grouser shoes	16 660 kg
Long Undercarriage with 700 mm triple grouser shoes	17 550 kg
Upper Structure without counterweight	6230 kg
Counterweight	3710 kg
Boom	
Two Boom Cylinders (each)	175 kg
Boom 5.7 m Heavy Duty Reach (includes lines, pins, and stick cylinder)	2020 kg
Stick Cylinder	280 kg
Stick	
Stick R2.9B1 Heavy Duty (includes lines, pins, bucket cylinder and linkage)	1120 kg
Stick R2.5B1 Heavy Duty (includes lines, pins, bucket cylinder and linkage)	1090 kg
Bucket Cylinder	160 kg
Bucket Linkage	140 kg

320D/320D L Specifications

Bucket Specifications and Compatibility

						320D		320D L	
	Linkage	Width	Capacity	Weight	Fill	Reach Boom		Reach Boom	
		mm	m ³	kg	%	R2.5B	R2.9B	R2.5B	R2.9B
Without Quick Coupler									
Heavy Duty (HD)	B	1050	1.00	879	100%	⊙	⊖	●	●
	B	1200	1.19	917	100%	⊖	○	⊙	⊙
	B	1350	1.38	1011	100%	○	◇	⊖	⊖
	CB	1500	1.76	1229	100%				
Maximum load pin-on (payload + bucket)					kg	2785	2565	3230	2995
With Center Lock Coupler									
Heavy Duty (HD)	B	1050	1.00	879	100%	⊖	○	⊙	⊖
	B	1200	1.19	917	100%	○	◇	⊖	○
	B	1350	1.38	1011	100%	◇	X	○	◇
	CB	1500	1.76	1229	100%				
Maximum load with coupler (payload + bucket)					kg	2375	2155	2820	2585

Maximum Material Density:

- 2100 kg/m³
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³
- ◇ 900 kg/m³
- 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.

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.

320D Work Tool Offering Guide*

Boom Type	Reach Boom – 5.7 m	
Stick Size	R2.9B1	R2.5B1
Hydraulic Hammer	H115Es H120Es H130Es**	H115Es H120Es H130Es
Multi-Processor	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PS Jaw** MP15 with S Jaw**	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PP Jaw** MP15 with PS Jaw** MP15 with S Jaw**
Pulverizer	P215**	P215
Mobile Scrap and Demolition Shear	S320B** S325B Boom Mount	S320B** S325B Boom Mount
Compactor (Vibratory Plate)	CVP110	CVP110
Contractors' Grapple	G120B-G125B	G120B-G125B
Orange Peel Grapples		
Rippers		
Center-Lock Pin Grabber Quick Coupler		
CW Dedicated Quick Coupler		

These work tools are available for the 320D.
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.

320D L Work Tool Offering Guide*

Boom Type	Reach Boom – 5.7 m	
Stick Size	R2.9B1	R2.5B1
Hydraulic Hammer	H115Es H120Es H130Es	H115Es H120Es H130Es
Multi-Processor	MP15 with CC Jaw** MP15 with CR Jaw** MP15 with PP Jaw** MP15 with PS Jaw** MP15 with S Jaw	MP15 with CC Jaw MP15 with CR Jaw MP15 with PP Jaw** MP15 with PS Jaw MP15 with S Jaw
Pulverizer	P215	P215
Mobile Scrap and Demolition Shear	S320B** S325B Boom Mount	S320B S325B Boom Mount
Compactor (Vibratory Plate)	CVP110	CVP110
Contractors' Grapple	G120B-G125B	G120B-G125B
Orange Peel Grapples		
Rippers		
Center-Lock Pin Grabber Quick Coupler		
CW Dedicated Quick Coupler		

These work tools are available for the 320D L.
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.

320D/320D L Specifications

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

Boom – Reach (HD)

Bucket – None

Undercarriage – Standard

Stick – R2.5B1 (HD)

Shoes – 600 mm triple grouser

Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg											*4850	*4850	5.59
6.0 m	kg							*5400	4550			*4450	3600	6.83
4.5 m	kg					*6800	*6800	*5850	4400	4550	3050	*4350	3000	7.57
3.0 m	kg					*8550	6250	6250	4150	4450	2950	4050	2650	7.96
1.5 m	kg					9250	5750	6000	3900	4300	2850	3900	2550	8.05
Ground Line	kg					9000	5500	5800	3750	4250	2750	4000	2600	7.86
-1.5 m	kg			*11 650	10 450	8950	5500	5750	3700			4350	2850	7.35
-3.0 m	kg			*13 250	10 650	9050	5600	5850	3750			5300	3450	6.46
-4.5 m	kg					*7150	5850					*6200	5150	4.98

Boom – Reach (HD)

Bucket – None

Undercarriage – Long

Stick – R2.9B1 (HD)

Shoes – 700 mm triple grouser

Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg							*4600	*4600			*4000	*4000	6.15
6.0 m	kg							*5000	*5000			*3700	*3700	7.28
4.5 m	kg							*5500	5000	*5150	3500	*3650	3100	7.98
3.0 m	kg					*8000	7250	*6300	4750	5350	3400	*3700	2850	8.35
1.5 m	kg					*9700	6700	*7100	4500	5200	3250	*3950	2700	8.44
Ground Line	kg			*6350	*6350	*10 600	6400	7100	4300	5100	3150	*4350	2750	8.26
-1.5 m	kg	*6800	*6800	*11 050	*11 050	*10 700	6300	7000	4200	5100	3100	4850	3000	7.78
-3.0 m	kg	*11 700	*11 700	*14 150	12 350	*10 000	6350	7050	4250			5700	3500	6.94
-4.5 m	kg			*11 250	*11 250	*8100	6600					*6100	4900	5.60

*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.

320D L SLR Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

Boom – Reach
Stick – 6.28 m

Bucket – None
Shoes – 700 mm triple grouser

Undercarriage – Super Long Reach
Heavy Lift – Off

Load Point Height	kg	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		m			
		Front	Side	Front	Side	Front	Side	Front	Side	Front	Side												
12.0 m	kg																			*1300	*1300	10.35	
10.5 m	kg																				*1200	*1200	11.66
9.0 m	kg															*2000	1950				*1150	*1150	12.66
7.5 m	kg													*2150	*2150	*2150	1950				*1100	*1100	13.41
6.0 m	kg													*2300	*2300	*2250	1900	*1850	1500		*1100	*1100	13.96
4.5 m	kg											*2700	*2700	*2500	2300	*2350	1800	*2250	1450		*1150	*1150	14.34
3.0 m	kg			*4700	*4700	*5800	*5800	*4300	*4300	*3500	*3500	*3000	2800	*2700	2200	*2500	1750	2300	1400		*1150	*1150	14.54
1.5 m	kg					*6750	6500	*5150	4500	*4000	3350	*3350	2600	*2950	2050	*2650	1650	2250	1350		*1200	1150	14.60
Ground Line	kg			*2050	*2050	*4700	*4700	*5800	4050	*4450	3050	*3650	2400	*3150	1900	2600	1550	2200	1250		*1300	1100	14.49
-1.5 m	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3800	*4800	2850	3800	2250	3050	1800	2550	1500	2150	1250		*1400	1150	14.22
-3.0 m	kg	*2850	*2850	*3550	*3550	*5200	*5200	*6450	3650	4750	2750	3700	2150	3000	1750	2500	1450	2100	1200		*1500	1200	13.79
-4.5 m	kg	*3700	*3700	*4450	*4450	*6100	5500	*6450	3650	4700	2700	3650	2100	2950	1700	2500	1400				*1700	1250	13.17
-6.0 m	kg	*4550	*4550	*5450	*5450	*7250	5600	*6300	3650	4700	2700	3650	2100	2950	1700	2500	1450				*2000	1400	12.34
-7.5 m	kg	*5500	*5500	*6600	*6600	*7600	5800	*5850	3800	*4700	2750	3700	2150	3050	1800						*2550	1650	11.24
-9.0 m	kg			*8000	*8000	*6550	6100	*5150	3950	*4150	2900	*3300	2300								*2900	2100	9.79
-10.5 m	kg							*3900	*3900	*3000	*3000										*2800	*2800	7.80

*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.

320D/320D L Standard Equipment

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

UPPER STRUCTURE

Electrical

- Alternator, 80 Amp
- Light, storage box mounted (one)
- Signaling/Warning horn
- Starter Motor 8 kW

ENGINE

- C6.6 with ACERT™ Technology
- 3000 m altitude capability with no deration
- 4 fuel filtrations (4 micron)
- Glow plug
- Automatic engine speed control with one touch low idle
- High ambient cooling package
- Radial seal air filter
- Water separator in fuel line with 4 micron fuel filter with water level indicator
- Waved fin radiator with space for cleaning
- Auxiliary hydraulic valve (one)

- Automatic swing parking brake
- Batteries (2 × 900 cca)
- Boom drift reducing valve
- Boom lowering device for back-up
- Capability of stackable valves for main valve (maximum three valves)
- Capability of auxiliary circuit (auxiliary pump and valves)
- Capability of boom and stick lowering control device
- Cat data link with capability of E.T.
- Cat one key security system
- Counterweight
- Door locks and cap locks

- Fixed type condenser core for air conditioning
- Mirrors, rearview (frame-right, cab-left)
- Product Link – 321
- Regeneration circuit for boom and stick
- Reverse swing damping valve
- Secondary engine shutoff switch
- Steel wall between engine and pump compartment
- Stick drift reducing valve
- Straight travel hydraulic circuit
- Two speed travel
- Undercarriage
 - Idler and center section track guiding
 - Towing eye on base frame

OPERATOR STATION

- Cab
 - Adjustable armrest
 - Antenna and Harness (without radio speakers)
 - Ashtray and lighter
 - Beverage holder
 - Bi-Level air conditioner (automatic) with defroster
 - Capability of installing two additional pedals
 - Coat hook
 - Front windshield glass split 70/30
 - Interior lighting
 - Control lever joysticks
 - Laminated front windshield and tempered other windows
 - Literature holder

- Mounting for two stereo speakers (two locations)
 - Neutral lever (lock out) for all controls
 - Openable front windshield with assist device
 - Openable metal roof hatch
 - Pillar mounted upper windshield wiper and washer
 - Positive filtered ventilation
 - Pressurized cab (Positive filtered ventilation)
 - Radio mounting (DIN size)
 - Rear window, emergency exit
 - Removable lower windshield with in-cab storage bracket
 - Seat suspension, four way adjustable low back with integrated, adjustable console
 - Seat belt, retractable (two inch width)
 - Sliding upper door window
 - Start Switch Panel
 - Travel control pedals with removable hand levers
 - Utility space for magazine
 - Washable floor mat
- ## Monitor
- Economy mode
 - Full time clock
 - Language display – Full color and graphical display
 - Machine condition, error code and tool mode setting
 - Start-up level check for hydraulic oil, engine oil and coolant
 - Warning information, filter/fluid change information and working hour

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

FRONT LINKAGE

- Bucket linkage, B1-family
- Heavy-duty 5.7 m reach boom
(with left side light)
- Heavy-duty R2.9B1 stick for heavy-duty reach boom
- Heavy-duty R2.5B1 stick for heavy-duty reach boom
- Super long reach arrangement
(only for 320D L)

TRACKS

- 600 mm triple grouser shoes
- 700 mm triple grouser shoes

HYDRAULICS

- Lift mode

ENGINE

- Jump start receptacle
- Starting kit, cold weather,
additional 2 × batteries

OPERATOR STATION

- Converter (2 sockets, max 10A)
- Cab light

320D/320D L Hydraulic Excavators with C6.6 Engine

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

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

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