

# 320D2 L

Hydraulic Excavator



## Engine

Engine Model	Cat® C7.1	
Engine Power (ISO 14396)	112 kW	150 hp
Net Power (SAE J1349)	109 kW	146 hp

## Weights

Minimum Operating Weight	21 600 kg	47,600 lb
Maximum Operating Weight	22 300 kg	49,200 lb

## 320D2 L Differentiating Features

### Engine and Hydraulics

*A powerful Cat C7.1 engine meets U.S. EPA Tier 3, EU Stage IIIA equivalent emission standards combined with mechanical governed fuel system which is well suited for local fuels in your regions. The 320D2 L maintains the same extraordinary performance.*

### Structures

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

### Operator Station

*The spacious cab features excellent visibility and easy-to-access switches. The monitor features a full-color graphical display that is user intuitive and highly visual. Overall, the new cab provides you with a comfortable working environment for maximum production and efficiency.*

### Reduced Service and Maintenance Cost

*Routine service and maintenance can be completed quickly and easily to help you reduce ownership costs. Convenient access points, extended service intervals, and advanced filtration help keep downtime to a minimum.*

### Contents

Operator Station.....	4
Engine .....	6
Hydraulics .....	7
Undercarriage and Structures .....	8
Front Linkage .....	9
Cat Connect Technology.....	10
Service and Maintenance .....	11
Work Tools.....	12
Complete Customer Support.....	14
Safety .....	15
Specifications.....	16
Standard Equipment.....	31
Optional Equipment.....	32
Notes.....	33







**The 320D2 L carries long time proven features and is configured for heavy construction, to improve your job site efficiency through low owning and operating costs, excellent performance, and high versatility. It will deliver great fuel savings and productivity in truck loading, trenching and lifting.**



# Operator Station

Enhance your comfort, operation, and visibility.  
The 320D2 L allows you to focus on your job.

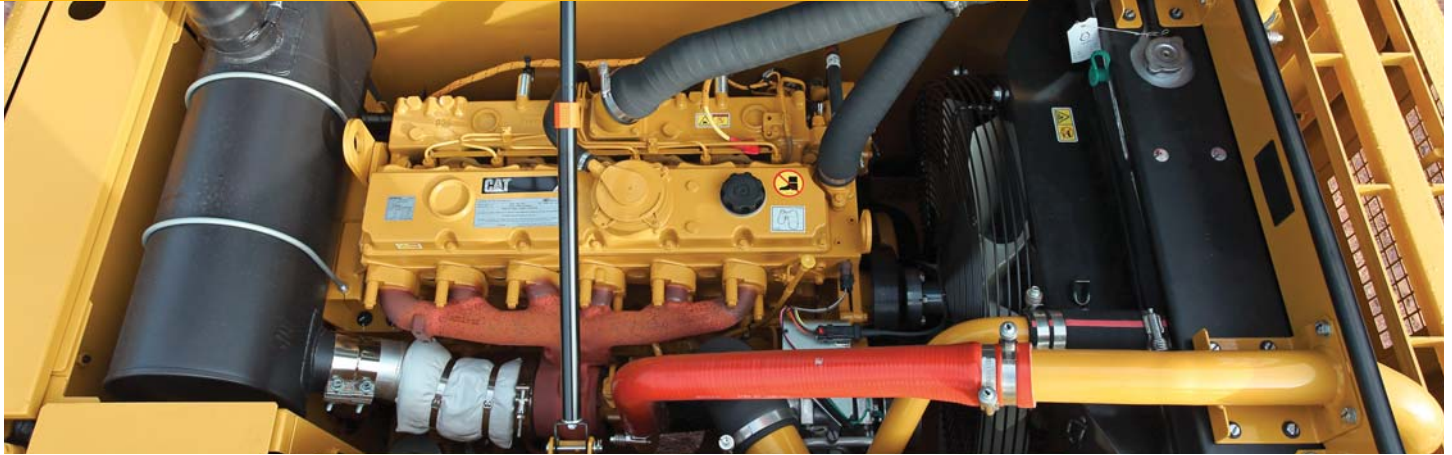






# Engine

A powerful engine with excellent reliability and low fuel consumption delivering more while boosting your bottom line.



The Cat C7.1 engine has been designed to meet Tier 3, Stage IIIA equivalent emission standards with mechanical governed fuel system. The engine is powerful, strong, and durable to meet all of your application needs. An ECO-mode feature helps reduce fuel consumption by up to 15 percent for fuel-conscious customers. The C7.1 engines incorporate proven, robust components and precision manufacturing you can count on for reliable and efficient operation. This engine is less sensitive to low quality fuel and also delivers better fuel consumption.

## Air Cleaner and Air Precleaner

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. Air precleaner reduces the amount of dust and debris that enter the air intake system which can help maximize engine performance by extending air filter life.

## Filtration System

The C7.1 engine features an improved filtration system to ensure good reliability to fuel injection system components. Intervals have been extended and the number of filters reduced to maximize your profit potential.

## Variable Speed Fan

Variable speed fan controlled by ECM reduces fuel consumption and noise.

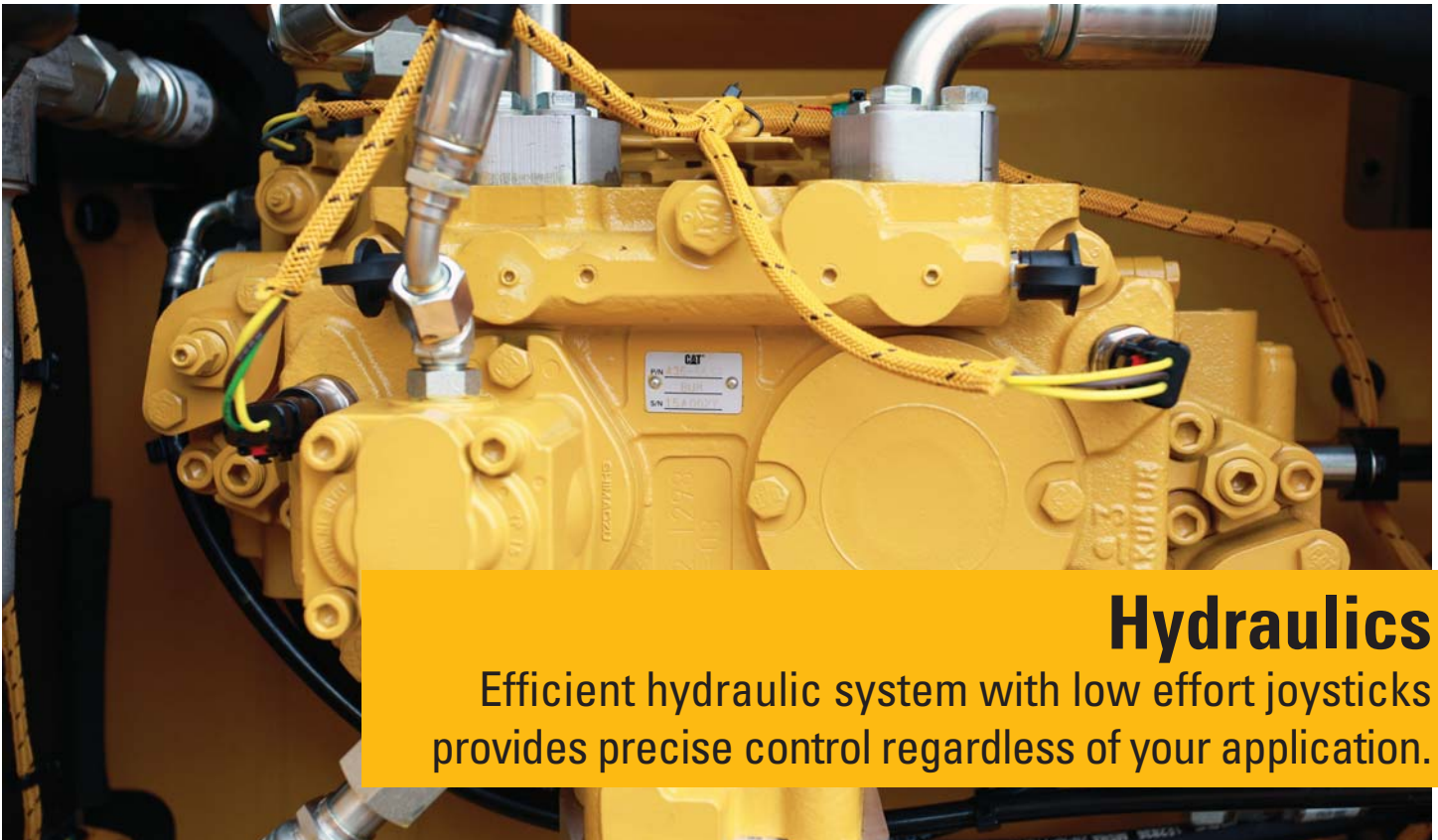


## Electric Priming Pump

Eliminate the need for manual priming of fuel after filter changes. This pump reduces the risk of fuel contamination by preventing unfiltered fuel from being backfilled during filter changes as was possible with a manual hand priming pump.

## Automatic Engine Speed Control

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



# Hydraulics

Efficient hydraulic system with low effort joysticks provides precise control regardless of your application.

## Hydraulic System

Hydraulic system pressure is 35 000 kPa (5,076 psi) with 202 L/min (53.36 gal/min) flow from each of the two hydraulic pumps for increased digging performance and productivity.

## Pilot System

An independent pilot pump enables smooth precise control for the front linkage, swing, and travel operations.

## Component Layout

The 320D2 L 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 to improve 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 operation which increases efficiency, 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 Return Capsule Filter

Capsule filter with a cartridge inside to avoid contamination when accessing the filter and enable changing cleanly without oil spillage. The capable filter with fine mesh size filtering out impurities has a sensor that indicates to the operator if the filter is clogged.



# Undercarriage and Structures

Strong and durable, all you expect from Cat excavators.



## Carbody Design and Track Roller Frames

The 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

The upper frame is designed using inverse "T" shaped beams made out of high-tensile-strength steel providing excellent durability whatever your application. The 320D2 L incorporates a one-piece upper frame table which improves strength and reliability.

Both the boom tower and the main frame are constructed of solid plates and the areas adjacent to the boom foot are reinforced, adding to overall durability.

## Lower Structure

The 320D2 L carbody features a box section "X" structure which is designed with the carbody welded close to the ends of the track roller frame. As a result, overall rigidity is high and resistance to torsional rigidity between the track roller frames and the carbody is also high. The long (L) undercarriage maximizes stability and lift capacity. This long, wide, and sturdy undercarriage offers a very stable work platform.

## Rollers and Idlers

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

## Undercarriage

The 320D2 L uses a grease-lubricated type track link with grease being sealed between the pin and the bushing. These seals deliver longer wear life by preventing dirt and debris from entering into the space between the pin and the bushing. The master link incorporates a split type pin which helps make routine service and maintenance quick and easy.



# Front Linkage

Reliable, durable, and versatile to meet all your application needs.



Cat front linkages are designed for maximum versatility, productivity, and high efficiency whatever the application.

## Heavy Duty Front Linkage

The 5.7 m (18'8") heavy duty (HD) reach boom is reinforced to be used in the severest applications and provide maximum digging capability. They are made of high-tensile-strength steel using a large box-section design with interior baffle plates and an additional bottom guard for long life and durability. The HD reach boom has two stick options available to meet all your application requirements.

The 2.9 m (9'6") heavy duty (HD) stick is the most versatile option and a very good fit for truck loading and trenching applications where you need additional working range.

The 2.5 m (8'2") heavy duty (HD) stick is ideally suited to applications requiring larger bucket sizes. It maximizes digging forces and enables you to get your jobs completed faster.

## SLR Boom Front Linkage

Super Long Reach (SLR) machines come with heavy counterweight to give you enhanced stability. Their booms, sticks, and frames are built to handle the stresses such distant work can bring.

- SLR boom (8.85 m/29'0") with SLR stick (6.28 m/20'7")



# Cat Connect Technology

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 offer improvements in these key areas:



EQUIPMENT  
MANAGEMENT

**Equipment Management** – increase uptime and reduce operating costs.



PRODUCTIVITY

**Productivity** – monitor production and manage job site efficiency.



SAFETY

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



# Service and Maintenance

Simplified service and maintenance features save you time and money.

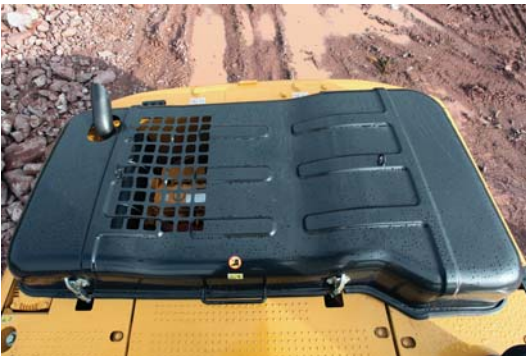


## Ground-Level Service

The design and layout of the 320D2 L was made with the service technician in mind. Most service locations are easily accessible at ground level to allow service and maintenance to get completed quickly and efficiently.

## Air Filter Compartment

The air filters feature a double-element construction for superior cleaning efficiency. When the air filter plugs, a warning is displayed on the cab monitor. Maintenance free batteries are standard along with a battery disconnect switch.



## Pump Compartment

A service door on the right side of the upper structure allows ground-level access to the hydraulic pumps, hydraulic filters, engine oil filter, and fuel filters.

## Radiator Compartment

The left rear service door allows easy access to the engine radiator, hydraulic oil cooler, air-to-air aftercooler, and AC condenser. A reserve tank and drain cock are attached to the radiator for ground level maintenance.



## Greasing Points

A concentrated remote greasing block on the boom allows the greasing of hard-to-reach locations. A remote mounted greasing point on the swing bearing allows ease of service.

## Fan Guard

The engine radiator fan is enclosed by a steel guard that provides maximum protection when carrying out routine service and maintenance.

## Anti-Skid Plate

Anti-skid plating covers the entire upper structure and storage box to prevent slipping during maintenance. Safety is further enhanced with the addition of countersunk bolts to reduce trip hazards.

## Diagnostics and Monitoring

The 320D2 L is equipped with Scheduled Oil Sampling (S-O-S<sup>SM</sup>) ports for the hydraulic system, engine oil, and coolant. Standard hydraulic test ports enable a service technician to quickly and easily fault find in the event of service issue.

# Work Tools

Dig, hammer, rip, and cut with confidence.

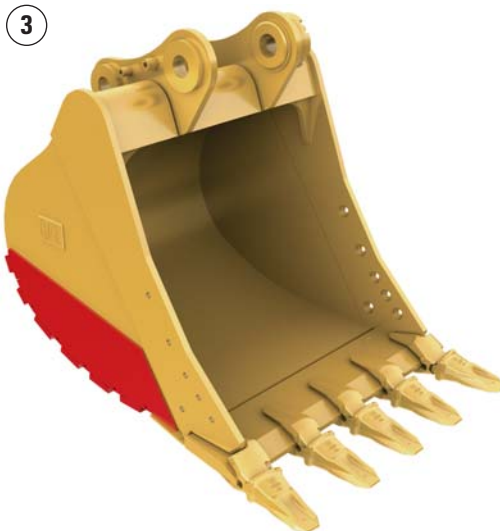
1



2



3



Each Cat work tool is designed to optimize the versatility and performance of your machine. An extensive range of buckets, compactors, grapples, multi-processors, rippers, crushers, pulverizers, hammers, and shears is available for your 320D2 L.

## Cat General Duty Buckets (GD)

These buckets are designed for digging in low-impact, moderately abrasive materials such as dirt, loam, gravel, and clay.

## Heavy Duty Buckets (HD)

HD buckets are a good starting point when application conditions vary. Especially when conditions include mixed dirt, clay, sand, and gravel.

## Severe Duty Buckets (SD)

These buckets are best suited to highly abrasive applications such as shot rock, sand stone, and granite.

- 1) Cat General Duty Buckets (GD)
- 2) Heavy Duty Buckets (HD)
- 3) Severe Duty Buckets (SD)

## 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 Pin Grabber Couplers

The Cat Pin Grabber Coupler is easy to activate, easy to engage, easy to disengage. Operating procedures are simple and easy to learn. It's the easiest way to improve productivity on every job site.

One excavator can share buckets and a variety of attachments with similar size excavators. Managing your assets just got easier.

## B Series Hammers

B Series hammers have outstanding field-proven reliability and durability for tough applications. It has optimized tool length and design and high grade steel and heat treatment provides high output.

## E Series Hammers

E Series hammers bring together customer expectations of performance, quality, and serviceability along with Caterpillar manufacturing and logistics experience.

E Series hammers are quiet, and noise suppression is valuable in urban and restricted work areas.



### **Pin-on Rippers, Rip and Load Package**

Constructed from high-strength steels and built to last, Cat rippers endure in the toughest conditions. The box-section structure is reinforced for maximum rigidity, transmitting the full machine power to the material being ripped. Rippers feature a replaceable wear tip, and most models also come equipped with a replaceable shank protector.

### **Grapples**

Cat grapples replace the bucket on Cat excavators, converting them to the ideal machine for handling loose material, sorting trash, and demolition site cleanup. An array of styles and sizes are available to match excavators to the task at hand.

### **Multi-Processors**

Multi-processors do the work of many types of demolition tools by use of interchangeable jaw sets. Changing jaws allows a single unit to crush, pulverize, and perform a variety of specialized cutting tasks such as cutting steel rebar and tanks.

### **Shear**

Cat shears are designed for Cat machines – taking full advantage of the hydraulic flows and pressures to enhance productivity without compromising safety or causing premature wear of the shear and carrier.

### **Pulverizer**

The excavator mounted mechanical pulverizer is a cost-effective tool for recycling demolished concrete debris. The bucket cylinder on the excavator powers the mechanical pulverizer. This eliminates the need for a dedicated cylinder and associated hydraulics and additional installation cost.

### **Vibratory Plate Compactor**

Compactors enhance the versatility of your excavator and makes compacting faster, more efficient, and cost-effective. Cat compactors are the superior choice for any job site's compaction tasks.

### **Crusher**

The hydraulic concrete crusher has taken modern demolition technology a step further. It is well suited for concrete demolition in residential areas. The hydraulic concrete crusher combines several concrete demolition operations in one piece of equipment:

- breaking out concrete from fixed structures
- pulverizing concrete
- cutting reinforcement rods and small steel profiles



# Complete Customer Support

Cat dealer services offer a wide range of personalized solutions.



## Product Support

Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine downtime. You can also save money with our line of remanufactured components.

## Machine Selection

Your Cat dealers can provide specific recommendations with detailed comparisons of the Cat machines you are considering before you buy. This ensures you get the right size machine and appropriate work tools to meet all of your application needs.

## Maintenance Services

Repair option programs guarantee the cost of repairs up front. Condition monitoring services and 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 which can be tailored to meet your specific needs. These plans can cover the entire machine – including attachments – to help protect your investment.

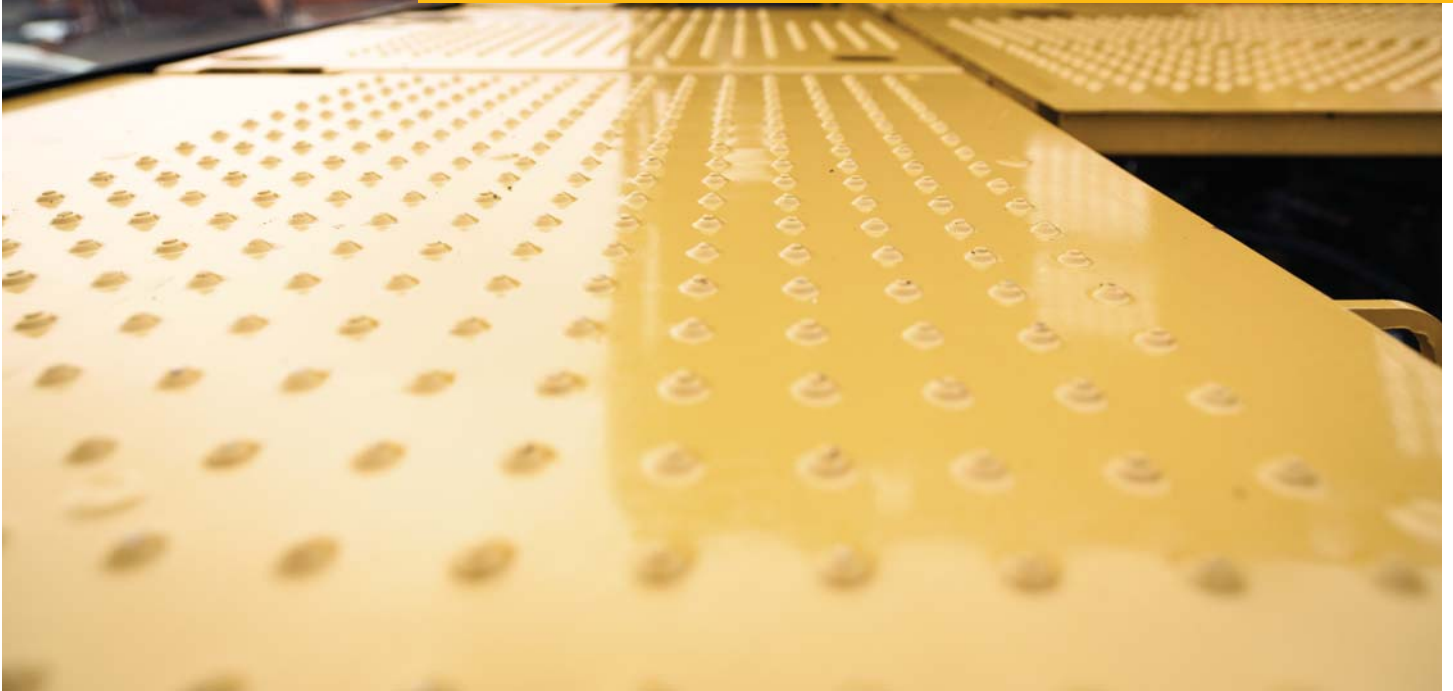
## Replacement

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



# Safety

Make you safer.



Anti-skid plating with countersunk bolts reduces the potential for slippage and trip hazards, providing a **safe platform** for all routine service and maintenance needs.

The standard **hydraulic lockout lever** isolates all hydraulic and travel functions in the lowered position. It is specifically designed to not allow the operator to leave the cab without first lowering it.

**Three circuit breakers** protect critical electrical components to increase machine uptime.

A **battery disconnect switch** helps to deter theft by isolating the battery and enhances safety when servicing the machine.

A full length **firewall** separates the engine from the hydraulic pump and offers protection in the event of an incident.

Ground level **shut-off switch** stops all fuel to the engine when activated and shuts down the machine.

# 320D2 L Hydraulic Excavator Specifications

## Engine

Engine Model	Cat C7.1	
Engine Power – ISO 14396	112 kW	150 hp
Net Power – SAE J1349	109 kW	146 hp
Engine RPM	1,800 rpm	
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in <sup>3</sup>

- The 320D2 L meets Tier 3, Stage IIIA equivalent emission standards.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- The altitude capability (without aid) of 320D2 L is up to 4000 m (13,120 ft) with natural power de-rate above sea level.

## Weights

Long Undercarriage		
Minimum Operating Weight*	21 600 kg	47,600 lb
Maximum Operating Weight**	22 300 kg	49,200 lb

\*R5.7 m (18'8") HD Reach boom, R2.5 m (8'2") B1 HD Reach stick, HD 1.2 m<sup>3</sup> (1.57 yd<sup>3</sup>) bucket and 600 mm (24") triple grouser shoes.

\*\*R5.7 m (18'8") HD Reach boom, R2.9 m (9'6") B1 HD Reach stick, HD 1.2 m<sup>3</sup> (1.57 yd<sup>3</sup>) bucket and 790 mm (31") triple grouser shoes.

## Track

Number of Shoes Each Side	49 pieces	
Number of Track Rollers Each Side	8 pieces	
Number of Carrier Rollers Each Side	2 pieces	

## Swing Mechanism

Swing Speed	10.9 rpm	
Swing Torque	61.8 kN·m	45,581 lbf·ft

## Drive

Maximum Travel Speed – High	5.4 km/h	3.4 mph
Maximum Drawbar Pull	205 kN	46,086 lb

## Engine rpm

Operation	1,700 rpm	
Travel	1,800 rpm	

## Hydraulic System

Main System – Maximum Flow (Total)	404 L/min	106.7 gal/min
Maximum Pressure – Equipment	35 MPa	5,076 psi
Maximum Pressure – Travel	35 MPa	5,076 psi
Maximum Pressure – Swing	25 MPa	3,626 psi
Pilot System – Maximum Flow (Total)	32.4 L/min	8.6 gal/min
Pilot System – Maximum Pressure	3900 kPa	566 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
Bucket Cylinder – Bore	120 mm	4.7 in
Bucket Cylinder – Stroke	1104 mm	43.5 in

## Service Refill Capacities

Fuel Tank Capacity	410 L	108.3 gal
Cooling System	25 L	6.6 gal
Engine Oil	22 L	5.8 gal
Swing Drive	8 L	2.1 gal
Final Drive	8 L	2.1 gal
Hydraulic System (including tank)	260 L	68.7 gal
Hydraulic Tank	138 L	36.5 gal

## Sound Performance

ISO 6395 (external)	102 dB(A)
ISO 6396 (inside cab)	72 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 a noisy environment.

## Standards

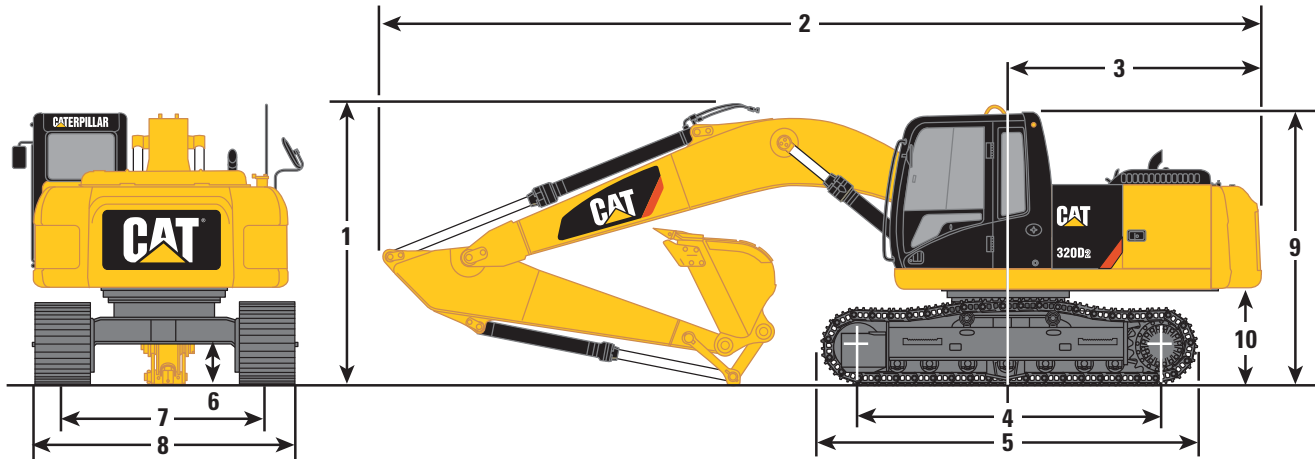
Brakes	SAE J1026/APR90
Cab/FOGS	SAE J1356 FEB88 ISO 10262



# 320D2 L Hydraulic Excavator Specifications

## Dimensions

All dimensions are approximate.



Boom Options	HD Reach Boom 5.7 m (18'8")				Super Long Reach 8.85 m (29'0")	
	HD R2.9 m (9'6") B1		HD R2.5 m (8'2") B1		Super Long Reach 6.28 m (20'7")	
Stick Options						
Bucket Tip Radius	1560 mm	5'1"	1560 mm	5'1"	1230 mm	4'0"
<b>1</b> Shipping Height*	3030 mm	9'11"	3050 mm	10'0"	3050 mm	10'0"
<b>2</b> Shipping Length	9460 mm	31'0"	9460 mm	31'0"	12 680 mm	41'7"
<b>3</b> Tail Swing Radius	2750 mm	9'0"	2750 mm	9'0"	2750 mm	9'0"
<b>4</b> Length to Center of Rollers – Long Undercarriage	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
<b>5</b> Track Length – Long Undercarriage	4460 mm	14'8"	4460 mm	14'8"	4460 mm	14'8"
<b>6</b> Ground Clearance**	450 mm	1'6"	450 mm	1'6"	450 mm	1'6"
<b>7</b> Track Gauge – Long Undercarriage	2380 mm	7'10"	2380 mm	7'10"	2380 mm	7'10"
<b>8</b> Transport Width – Long Undercarriage						
600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
790 mm (31") Shoes	3170 mm	10'5"	3170 mm	10'5"	3170 mm	10'5"
<b>9</b> Cab Height**	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
<b>10</b> Counterweight Clearance**	1020 mm	3'4"	1020 mm	3'4"	1020 mm	3'4"

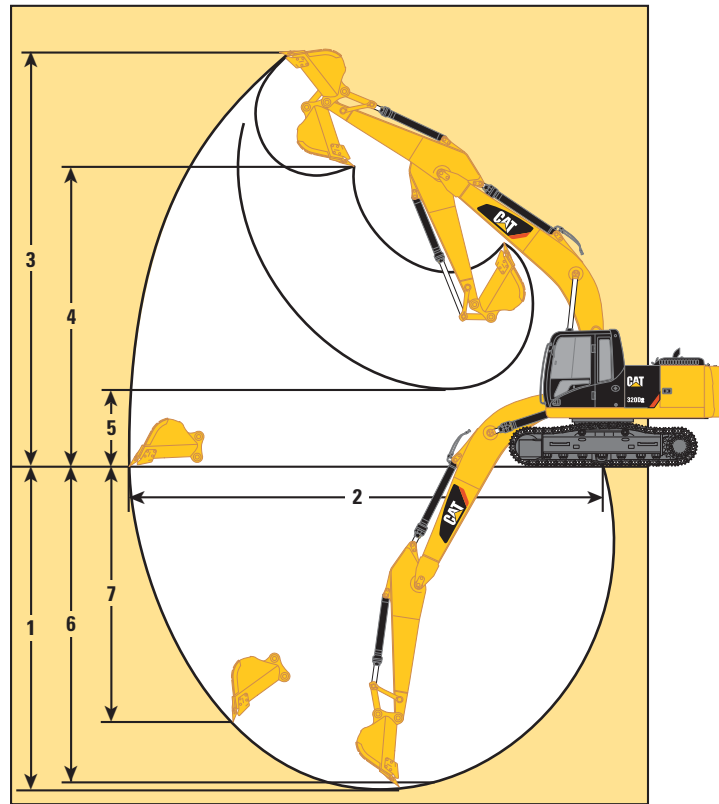
\*Including shoe lug height.

\*\*Without shoe lug height.

# 320D2 L Hydraulic Excavator Specifications

## Working Ranges

All dimensions are approximate.



Boom Options	HD Reach Boom 5.7 m (18'8")				Super Long Reach 8.85 m (29'0")	
	HD R2.9 m (9'6") B1		HD R2.5 m (8'2") B1		Super Long Reach 6.28 m (20'7")	
Stick Options						
Bucket Tip Radius	1560 mm	5'1"	1560 mm	5'1"	1230 mm	4'0"
<b>1</b> Maximum Digging Depth	6720 mm	22'1"	6300 mm	20'8"	11 880 mm	39'0"
<b>2</b> Maximum Reach at Ground Line	9890 mm	32'5"	9470 mm	31'1"	15 730 mm	51'7"
<b>3</b> Maximum Cutting Height	9490 mm	31'2"	9250 mm	30'4"	13 310 mm	43'8"
<b>4</b> Maximum Loading Height	6490 mm	21'4"	6290 mm	20'8"	11 010 mm	36'1"
<b>5</b> Minimum Loading Height	2170 mm	7'1"	2590 mm	8'6"	1970 mm	6'6"
<b>6</b> Maximum Depth Cut for 2240 mm (8 ft) Level Bottom	6380 mm	20'11"	5960 mm	19'7"	11 780 mm	38'8"
<b>7</b> Maximum Vertical Wall Digging Depth	5690 mm	18'8"	5290 mm	17'4"	10 560 mm	34'8"
Bucket Digging Force (SAE)	125 kN	28,100 lbf	125 kN	28,100 lbf	54 kN	12,100 lbf
Bucket Digging Force (ISO)	140 kN	31,500 lbf	140 kN	31,500 lbf	60 kN	13,500 lbf
Stick Digging Force (SAE)	104 kN	23,300 lbf	114 kN	25,700 lbf	48 kN	10,800 lbf
Stick Digging Force (ISO)	107 kN	24,000 lbf	118 kN	26,600 lbf	49 kN	11,000 lbf



# 320D2 L Hydraulic Excavator Specifications

## Operating Weight and Ground Pressure

	600 mm (24") Triple Grouser Shoes				790 mm (31") Triple Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi
<b>Long Undercarriage</b>								
HD Reach Boom – 5.7 m (18'8")								
HD R2.9 m (9'6") Stick, HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) Bucket	21 600	47,600	44.9	6.5	22 300	49,200	35.2	5.1
HD R2.5 m (8'2") Stick, HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) Bucket	21 600	47,600	44.9	6.5	22 200	49,000	35.0	5.1
SLR Boom – 8.85 m (29'0")								
SLR 6.28 m (20'7") Stick, GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) Bucket	21 400	47,200	44.5	6.4	22 000	48,500	34.7	5.0

## Major Component Weights

Base Machine (including boom cylinders, pins, fluids, operator)	6640 kg	14,640 lb
Undercarriage		
Long Undercarriage	4490 kg	9,900 lb
Counterweight	3700 kg	8,160 lb
Boom (including lines, pins and stick cylinder)		
HD Reach Boom – 5.7 m (18'8")	2020 kg	4,450 lb
SLR Boom – 8.85 m (29'0")	2190 kg	4,830 lb
Stick (including lines, pins, bucket cylinder and bucket linkage)		
HD R2.9 m (9'6") B1 Stick	1110 kg	2,450 lb
HD R2.5 m (8'2") B1 Stick	1080 kg	2,380 lb
SLR 6.28 m (20'7") Stick	1260 kg	2,780 lb
Track Shoe (Long/per two track)		
600 mm (24") Triple Grouser Shoes	2700 kg	5,950 lb
790 mm (31") Triple Grouser Shoes	3330 kg	7,340 lb
GD 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> ) Bucket with Sidecutter and Tip	760 kg	1,680 lb
HD 1.0 m <sup>3</sup> (1.3 yd <sup>3</sup> ) Bucket with Sidecutter and Tip	970 kg	2,140 lb
GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) Bucket with Tip	400 kg	880 lb
HD 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) Bucket with Sidecutter and Tip	1000 kg	2,210 lb

**Note:** Kg and lb were rounded up separately so some of the kg and lb do not match.

ISO 6016 Operating Weight Criteria: Base Machine with fronts, bucket, full fuel tank (and fluids), 75 kg (165 lb) operator. This standard excludes optional attachments.

# 320D2 L Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	HD Reach Boom – 5.7 m (18'8")			
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		HD R2.5 m (8'2") B1		HD R2.9 m (9'6") B1	
									600 mm (24") Track Shoes	790 mm (31") Track Shoes	600 mm (24") Track Shoes	790 mm (31") Track Shoes
<b>Without Quick Coupler</b>												
Cat General Duty (GD) – EAME	B	600	24	0.46	0.61	551	1,213	100	●	●	●	●
	B	750	30	0.64	0.84	622	1,370	100	●	●	●	●
	B	900	36	0.81	1.06	668	1,473	100	●	●	●	●
	B	1200	48	1.19	1.56	803	1,770	100	⊙	⊙	⊖	⊙
	B	1300	51	1.30	1.71	835	1,840	100	⊖	⊙	⊖	⊖
	B	1400	55	1.43	1.87	870	1,918	100	⊖	⊖	○	○
Cat General Duty (GDC)	B	600	24	0.55	0.72	619	1,363	100	●	●	●	●
	B	750	30	0.75	0.98	710	1,566	100	●	●	●	●
	B	900	36	0.95	1.24	787	1,735	100	●	●	●	●
	B	1050	42	1.16	1.52	848	1,870	100	⊙	⊙	⊖	⊙
	B	1200	48	1.38	1.80	926	2,041	100	⊖	⊖	○	○
	B	1350	54	1.59	2.08	1004	2,213	100	○	○	◇	○
Cat General Duty – CCL	B	1150	46	0.90	1.18	719	1,585	100	●	●	●	●
	B	1250	50	1.00	1.31	751	1,656	100	●	●	●	●
	B	1150	46	0.90	1.18	762	1,680	100	●	●	●	●
	B	1250	50	1.00	1.31	797	1,756	100	●	●	⊙	●
	B	1400	56	1.14	1.49	863	1,902	100	⊙	⊙	⊖	⊙
Heavy Duty (HD)	B	600	24	0.46	0.61	649	1,431	100	●	●	●	●
	B	750	30	0.64	0.84	748	1,649	100	●	●	●	●
	B	900	36	0.81	1.06	826	1,821	100	●	●	●	●
	B	1050	42	1.00	1.31	880	1,940	100	●	●	⊙	⊙
	B	1200	48	1.19	1.56	907	1,999	100	⊙	⊙	⊖	⊖
	B	1200	48	1.19	1.56	918	2,024	100	⊙	⊙	⊖	⊖
	B	1200	48	1.19	1.56	972	2,141	100	⊖	⊙	⊖	⊖
	B	1300	52	1.30	1.71	962	2,120	100	⊖	⊖	○	⊖
	B	1350	54	1.38	1.81	1054	2,322	100	○	⊖	○	○
	B	1350	54	1.40	1.83	1012	2,230	100	○	⊖	○	○
Severe Duty (SD)	B	600	24	0.46	0.61	694	1,530	90	●	●	●	●
	B	750	30	0.64	0.84	802	1,768	90	●	●	●	●
	B	900	36	0.81	1.06	889	1,959	90	●	●	●	●
	B	1050	42	1.00	1.31	964	2,125	90	●	●	⊙	●
	B	1200	48	1.19	1.56	1053	2,320	90	⊙	⊙	⊖	⊖
	B	1200	48	1.19	1.56	1001	2,207	90	⊙	⊙	⊖	⊙
Maximum load pin-on (payload + bucket)								kg	2990	3090	2755	2850
								lb	6,590	6,810	6,072	6,281

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 Cat General Duty tips.

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)

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.



# 320D2 L Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	HD Reach Boom – 5.7 m (18'8")			
		mm	in	m³	yd³	kg	lb		HD R2.5 m (8'2") B1		HD R2.9 m (9'6") B1	
									600 mm (24") Track Shoes	790 mm (31") Track Shoes	600 mm (24") Track Shoes	790 mm (31") Track Shoes
<b>With Pin Grabber Coupler</b>												
Cat General Duty (GD) – EAME	B	600	24	0.46	0.61	551	1,213	100	●	●	●	●
	B	750	30	0.64	0.84	622	1,370	100	●	●	●	●
	B	900	36	0.81	1.06	668	1,473	100	●	●	●	●
	B	1200	48	1.19	1.56	803	1,770	100	⊖	⊖	○	○
	B	1300	51	1.30	1.71	835	1,840	100	○	○	○	○
	B	1400	55	1.43	1.87	870	1,918	100	○	○	◇	◇
Cat General Duty (GDC)	B	600	24	0.55	0.72	619	1,363	100	●	●	●	●
	B	750	30	0.75	0.98	710	1,566	100	●	●	●	●
	B	900	36	0.95	1.24	787	1,735	100	⊙	⊙	⊖	⊙
	B	1050	42	1.16	1.52	848	1,870	100	⊖	⊖	○	○
	B	1200	48	1.38	1.80	926	2,041	100	○	○	◇	◇
	B	1350	54	1.59	2.08	1004	2,213	100	◇	◇	X	◇
Heavy Duty (HD)	B	600	24	0.46	0.61	649	1,431	100	●	●	●	●
	B	750	30	0.64	0.84	748	1,649	100	●	●	●	●
	B	900	36	0.81	1.06	826	1,821	100	●	●	⊙	⊙
	B	1050	42	1.00	1.31	880	1,940	100	⊖	⊙	⊖	⊖
	B	1200	48	1.19	1.56	907	1,999	100	○	⊖	○	○
	B	1200	48	1.19	1.56	918	2,024	100	○	⊖	○	○
	B	1200	48	1.19	1.56	972	2,141	100	○	⊖	○	○
	B	1300	52	1.30	1.71	962	2,120	100	○	○	◇	◇
	B	1350	54	1.38	1.81	1054	2,322	100	◇	○	◇	◇
	B	1350	54	1.40	1.83	1012	2,230	100	◇	○	◇	◇
Severe Duty (SD)	B	600	24	0.46	0.61	694	1,530	90	●	●	●	●
	B	750	30	0.64	0.84	802	1,768	90	●	●	●	●
	B	900	36	0.81	1.06	889	1,959	90	●	●	⊙	●
	B	1050	42	1.00	1.31	964	2,125	90	⊙	⊙	⊖	⊖
	B	1200	48	1.19	1.56	1053	2,320	90	○	⊖	○	○
	B	1200	48	1.19	1.56	1001	2,207	90	⊖	⊖	○	○
Maximum load with coupler (payload + bucket)								kg	2580	2680	2345	2440
								lb	5,687	5,907	5,169	5,378

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 Cat General Duty tips.

### 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

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.

# 320D2 L Hydraulic Excavator Specifications

## Work Tool Offering Guide\*

Boom Type	HD Reach	
	HD R2.5 m (8'2")	HD R2.9 m (9'6")
Stick Size	Long	
Undercarriage	Long	
Hydraulic Hammer	<b>B20</b> H115E s H120E s H130E s	<b>B20</b> H115E s H120E s H130E s
Multi-Processor	MP318 CC Jaw^^ MP318 D Jaw MP318 P Jaw^^ MP318 S Jaw MP318 U Jaw^^	MP318 CC Jaw** MP318 D Jaw** MP318 P Jaw^ MP318 S Jaw^^ MP318 U Jaw^
Pulverizer	P215	P215
Crusher	P315^^	P315**
Demolition and Sorting Grapple	G315B-D/R^^ G315B-D/R fixed CAN	G315B-D/R** G315B-D/R fixed CAN
Scrap and Demolition Shear	S320B^^ S325B##	S320B*** S325B##
Compactor (Vibratory Plate)	CVP110	CVP110
Contractors' Grapple	G120B – G130B	G120B – G130B
Orange Peel Grapple		
Clamshell Grapple		
Rippers		
Pin Grabber Coupler	Cat PG	
Dedicated Quick Coupler	CW-40 CW-40s	

These work tools are available for the 320D2 L.  
Consult your Cat dealer for proper match.

\* Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

\*\* Pin-on or CW

\*\*\* Pin-on only

## Boom Mount

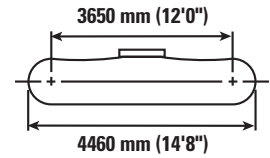
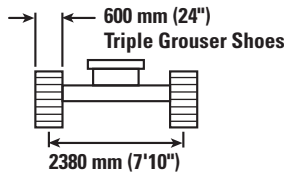
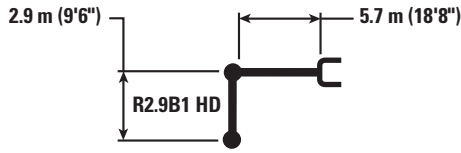
^ Work over the front only with CW (Pin-on and CW)













^^ Work over the front only with Cat PG (Pin-on, CW and Cat PG)

**Note:** Demolition and Sorting Grapple: D-Demolition shells, R-Recycling shells  
fixed CAN – fixed hinge plates for CW quick coupler usage

# 320D2 L Hydraulic Excavator Specifications

## HD Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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							*4500	*4500			*3850 *8,600	*3850 *8,600	6.15 20.00
6.0 m 20.0 ft	kg lb							*4800 *10,550	*4800 *10,550			*3600 *7,900	*3600 *7,900	7.29 24.20
4.5 m 15.0 ft	kg lb							*5300 *11,500	4900 10,600	*4950 *10,850	3400 7,300	*3500 *7,700	3050 6,750	7.99 26.70
3.0 m 10.0 ft	kg lb					*7750 *16,650	7150 15,400	*6050 *13,150	4650 10,000	5250 11,300	3300 7,100	*3600 *7,900	2800 6,100	8.36 27.50
1.5 m 5.0 ft	kg lb					*9350 *20,150	6600 14,200	*6900 *14,900	4400 9,450	5100 11,000	3200 6,850	*3800 *8,350	2650 5,850	8.45 28.30
0.0 m 0.0 ft	kg lb			*6200 *14,200	*6200 *14,200	*10 250 *22,150	6250 13,500	6950 14,950	4200 9,050	5000 10,750	3100 6,650	*4200 *9,300	2700 5,950	8.26 27.50
-1.5 m -5.0 ft	kg lb	*6600 *14,750	*6600 *14,750	*10 700 *24,300	*10 700 *24,300	*10 350 *22,350	6200 13,300	6850 14,750	4100 8,850	5000 10,700	3050 6,550	4750 10,450	2900 6,400	7.78 25.80
-3.0 m -10.0 ft	kg lb	*11 350 *25,500	*11 350 *25,500	*13 700 *29,600	12 150 26,000	*9650 *20,850	6250 13,400	6900 14,850	4150 8,950			5600 12,450	3450 7,600	6.95 23.30
-4.5 m -15.0 ft	kg lb			*10 850 *23,250	*10 850 *23,250	*7800 *16,600	6450 13,950					*5900 *12,900	4800 10,750	5.60 18.30



ISO 10567



\*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.

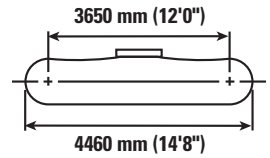
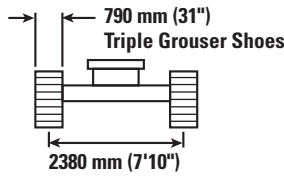
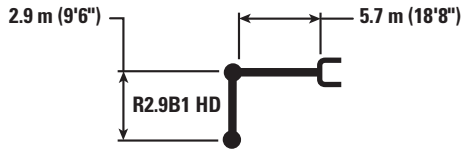
Lift capacity stays with ±5% for all available track shoes.













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



# 320D2 L Hydraulic Excavator Specifications

## HD Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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							*4500	*4500			*3850 *8,600	*3850 *8,600	6.15 20.00
6.0 m 20.0 ft	kg lb							*4800 *10,550	*4800 *10,550			*3600 *7,900	*3600 *7,900	7.29 24.20
4.5 m 15.0 ft	kg lb							*5300 *11,500	5050 10,850	*4950 *10,850	3500 7,550	*3500 *7,700	3150 6,950	7.99 26.70
3.0 m 10.0 ft	kg lb					*7750 *16,650	7350 15,800	*6050 *13,150	4800 10,300	*5300 *11,500	3400 7,300	*3600 *7,900	2850 6,300	8.36 27.50
1.5 m 5.0 ft	kg lb					*9350 *20,150	6800 14,600	*6900 *14,900	4500 9,750	5250 11,350	3300 7,050	*3800 *8,350	2750 6,050	8.45 28.30
0.0 m 0.0 ft	kg lb			*6200 *14,200	*6200 *14,200	*10 250 *22,150	6450 13,900	7200 15,400	4350 9,300	5150 11,100	3200 6,850	*4200 *9,300	2800 6,100	8.26 27.50
-1.5 m -5.0 ft	kg lb	*6600 *14,750	*6600 *14,750	*10 700 *24,300	*10 700 *24,300	*10 350 *22,350	6350 13,700	7100 15,200	4250 9,150	5150 11,050	3150 6,800	4900 10,750	3000 6,600	7.78 25.80
-3.0 m -10.0 ft	kg lb	*11 350 *25,500	*11 350 *25,500	*13 700 *29,600	12 500 26,750	*9650 *20,850	6450 13,800	7100 15,300	4300 9,200			5800 12,800	3550 7,850	6.95 23.30
-4.5 m -15.0 ft	kg lb			*10 850 *23,250	*10 850 *23,250	*7800 *16,600	6650 14,350					*5900 *12,900	4900 11,100	5.60 18.30



ISO 10567



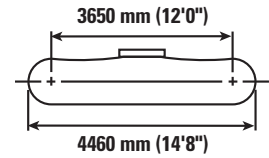
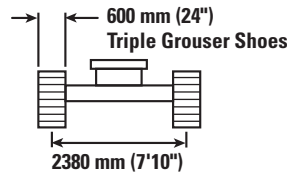
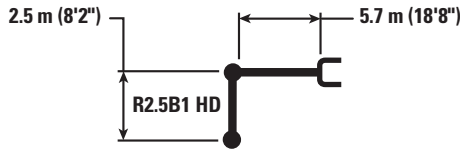
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

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

# 320D2 L Hydraulic Excavator Specifications

## HD Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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									*4700 *10,450	*4700 *10,450	5.60 18.30
6.0 m 20.0 ft	kg lb					*5200 *11,450	5000 10,750			*4300 *9,500	4000 8,950	6.83 22.50
4.5 m 15.0 ft	kg lb			*6600 *14,200	*6600 *14,200	*5650 *12,250	4850 10,450	*4750	3350	*4200 *9,250	3300 7,350	7.57 25.00
3.0 m 10.0 ft	kg lb			*8250 *17,750	7000 15,100	*6350 *13,800	4600 9,900	5250 11,200	3300 7,050	*4300 *9,500	3000 6,550	7.96 26.70
1.5 m 5.0 ft	kg lb			*9750 *20,950	6500 13,950	*7100 15,350	4350 9,350	5100 10,950	3150 6,800	4600 10,100	2850 6,250	8.05 26.70
0.0 m 0.0 ft	kg lb			*10 350 *22,450	6250 13,400	6950 14,950	4200 9,000	5000 10,800	3100 6,650	4700 10,350	2900 6,400	7.86 25.80
-1.5 m -5.0 ft	kg lb	*11 300 *25,700	*11 300 *25,700	*10 200 *22,150	6200 13,300	6900 14,800	4150 8,900			5150 11,400	3200 7,000	7.35 24.20
-3.0 m -10.0 ft	kg lb	*12 800 *27,700	12 300 26,300	*9300 *20,050	6300 13,550	*6850 *14,650	4200 9,100			*6100 *13,450	3850 8,500	6.47 21.70
-4.5 m -15.0 ft	kg lb			*6900 *14,400	6600 14,250					*5950 *13,050	5750 13,000	4.98 16.70



ISO 10567



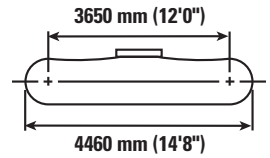
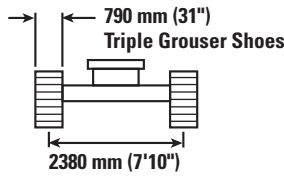
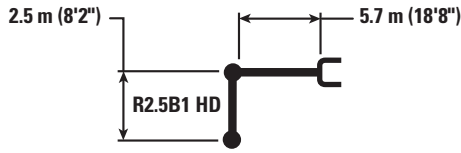
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

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

# 320D2 L Hydraulic Excavator Specifications

## HD Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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									*4700 *10,450	*4700 *10,450	5.60 18.30
6.0 m 20.0 ft	kg lb					*5200 *11,450	5150 11,000			*4300 *9,500	4100 9,200	6.83 22.50
4.5 m 15.0 ft	kg lb			*6600 *14,200	*6600 *14,200	*5650 *12,250	5000 10,700	*4750	3450	*4200 *9,250	3400 7,550	7.57 25.00
3.0 m 10.0 ft	kg lb			*8250 *17,750	7200 15,500	*6350 *13,800	4750 10,150	5400 11,550	3400 7,250	*4300 *9,500	3050 6,750	7.96 26.70
1.5 m 5.0 ft	kg lb			*9750 *20,950	6650 14,350	*7100 *15,350	4500 9,650	5250 11,300	3250 7,000	*4600 *10,100	2950 6,450	8.05 26.70
0.0 m 0.0 ft	kg lb			*10 350 *22,450	6450 13,800	7150 15,400	4300 9,300	5150 11,100	3200 6,850	4850 10,650	3000 6,600	7.86 25.80
-1.5 m -5.0 ft	kg lb	*11 300 *25,700	*11 300 *25,700	*10 200 *22,150	6400 13,700	7100 15,250	4250 9,150			5300 11,700	3300 7,200	7.35 24.20
-3.0 m -10.0 ft	kg lb	*12 800 *27,700	12 650 27,050	*9300 *20,050	6500 13,950	*6850 *14,650	4350 9,350			*6100 *13,450	3950 8,750	6.47 21.70
-4.5 m -15.0 ft	kg lb			*6900 *14,400	6800 *14,400					*5950 *13,050	5900 *13,050	4.98 16.70



ISO 10567



\*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.

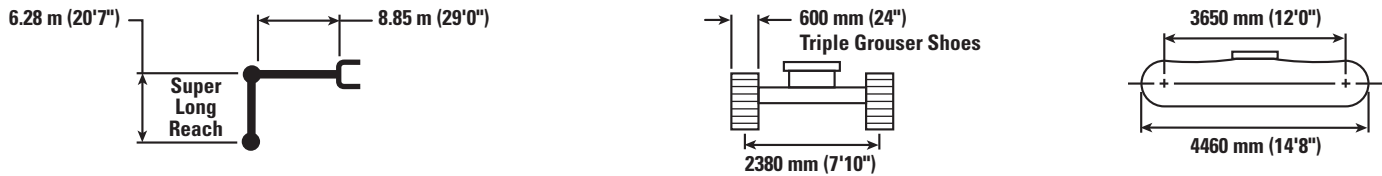
Lift capacity stays with ±5% for all available track shoes.












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



# 320D2 L Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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		
														
12.0 m 40.0 ft	kg lb											*1300 *2,850	*1300 *2,850	10.35 33.31
10.5 m 35.0 ft	kg lb											*1200 *2,600	*1200 *2,600	11.66 37.83
9.0 m 30.0 ft	kg lb											*1150 *2,500	*1150 *2,500	12.66 41.25
7.5 m 25.0 ft	kg lb											*1100 *2,450	*1100 *2,450	13.41 43.83
6.0 m 20.0 ft	kg lb											*1100 *2,400	*1100 *2,400	13.96 45.71
4.5 m 15.0 ft	kg lb											*1150 *2,450	*1150 *2,450	14.34 46.99
3.0 m 10.0 ft	kg lb			*4700 *11,900	*4700 *11,900	*5800 *12,400	*5800 *12,400	*4300 *9,200	*4300 *9,200	*3500 *7,550	*3500 *7,550	*1150 *2,500	1150 2,500	14.54 47.71
1.5 m 5.0 ft	kg lb					*6750 *15,750	6400 13,850	*5150 *11,050	4450 9,550	*4000 *8,650	3300 7,050	*1200 *2,650	1100 2,400	14.60 47.89
0 m 0 ft	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5800 *12,550	4000 8,600	*4450 *9,650	3000 6,450	*1300 *2,800	1100 2,400	14.49 47.54
-1.5 m -5.0 ft	kg lb	*2100 *4,600	*2100 *4,600	*2750 *6,100	*2750 *6,100	*4650 *10,550	*4650 *10,550	*6250 *13,500	3700 8,000	4800 10,300	2800 6,000	*1400 *3,000	1100 2,400	14.22 46.65
-3.0 m -10.0 ft	kg lb	*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,500	6400 13,750	3600 7,700	4650 10,000	2650 5,750	*1500 *3,350	1150 2,500	13.79 45.19
-4.5 m -15.0 ft	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	5400 11,600	6350 13,650	3550 7,650	4600 9,900	2600 5,600	*1700 *3,800	1250 2,700	13.17 43.10
-6.0 m -20.0 ft	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	5500 11,800	*6300 *13,550	3600 7,700	4600 9,900	2650 5,650	*2000 *4,500	1350 3,050	12.34 40.27
-7.5 m -25.0 ft	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7600 *16,350	5700 12,250	*5850 *12,600	3700 7,950	4700 10,100	2700 5,800	*2550 *5,700	1600 3,600	11.24 36.55
-9.0 m -30.0 ft	kg lb			*8000 *18,050	*8000 *18,050	*6550 *14,000	5950 12,850	*5150 *10,950	3900 8,400	*4150 *8,750	2850 6,150	*2900 *6,350	2050 4,600	9.79 31.60
-10.5 m -35.0 ft	kg lb							*3900 *3900	*3900 *3900	*3000 *3000	*3000 *3000	*2800 *2800	*2800 *2800	7.80



ISO 10567



\*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.

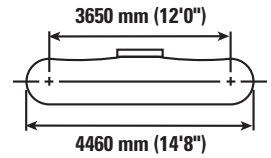
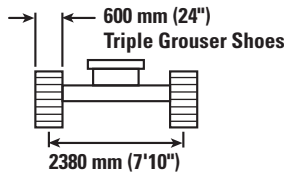
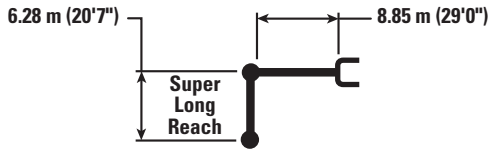
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

# 320D2 L Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft				mm in
												
12.0 m 40.0 ft	kg lb									*1300 *2,850	*1300 *2,850	10.35 33.31
10.5 m 35.0 ft	kg lb			*4,700	*4,700					*1200 *2,600	*1200 *2,600	11.66 37.83
9.0 m 30.0 ft	kg lb					*2000 *3,700	1950 *3,700			*1150 *2,500	*1150 *2,500	12.66 41.25
7.5 m 25.0 ft	kg lb			*2150 *4,750	*2150 *4,750	*2150 *4,700	1900 4,050			*1100 *2,450	*1100 *2,450	13.41 43.83
6.0 m 20.0 ft	kg lb			*2300 *5,000	*2300 *5,000	*2250 *4,850	1850 3,950	*1850 *3,250	1450 3,050	*1100 *2,400	*1100 *2,400	13.96 45.71
4.5 m 15.0 ft	kg lb	*2700 *5,850	*2700 *5,850	*2500 *5,400	2300 4,850	*2350 *5,100	1800 3,800	*2250 *4,650	1400 2,950	*1150 *2,450	*1150 *2,450	14.34 46.99
3.0 m 10.0 ft	kg lb	*3000 *6,550	2750 5,900	*2700 *5,850	2150 4,550	*2500 *5,400	1700 3,600	2250 4,800	1350 2,850	*1150 *2,500	1150 2,500	14.54 47.71
1.5 m 5.0 ft	kg lb	*3350 *7,250	2550 5,400	*2950 *6,350	2000 4,250	2650 5,650	1600 3,400	2200 4,700	1300 2,750	*1200 *2,650	1100 2,400	14.60 47.89
0 m 0 ft	kg lb	*3650 *7,950	2350 5,000	3100 6,700	1850 4,000	2550 5,500	1500 3,250	2150 4,550	1250 2,650	*1300 *2,800	1100 2,400	14.49 47.54
-1.5 m -5.0 ft	kg lb	3700 8,000	2200 4,700	3000 6,450	1750 3,750	2500 5,350	1450 3,100	2100 4,500	1200 2,550	*1400 *3,000	1100 2,400	14.22 46.65
-3.0 m -10.0 ft	kg lb	3600 7,750	2100 4,500	2950 6,300	1700 3,650	2450 5,250	1400 3,000	2050 *3,700	1200 2,500	*1500 *3,350	1150 2,500	13.79 45.19
-4.5 m -15.0 ft	kg lb	3550 7,650	2050 4,400	2900 6,200	1650 3,550	2400 5,200	1400 2,950			*1700 *3,800	1250 2,700	13.17 43.10
-6.0 m -20.0 ft	kg lb	3600 7,700	2050 4,400	2900 6,250	1650 3,600	2450 *5,150	1400 3,050			*2000 *4,500	1350 3,050	12.34 40.27
-7.5 m -25.0 ft	kg lb	3650 7,850	2100 4,550	3000 6,400	1750 3,750					*2550 *5,700	1600 3,600	11.24 36.55
-9.0 m -30.0 ft	kg lb	*3300 *6,950	2250 4,850							*2900 *6,350	2050 4,600	9.79 31.60
-10.5 m -35.0 ft	kg lb									*2800	*2800	7.80



ISO 10567



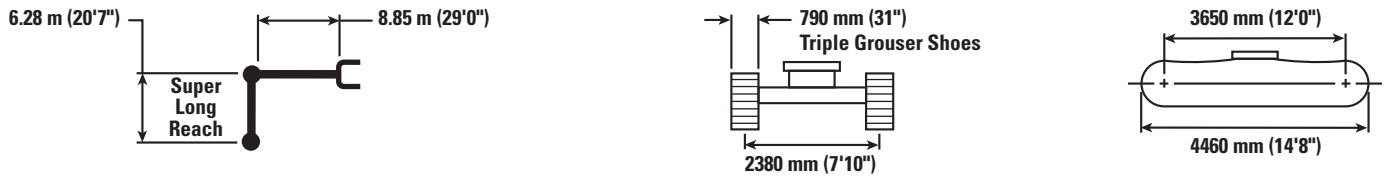
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

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

# 320D2 L Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		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
														
12.0 m 40.0 ft	kg lb											*1300 *2,850	*1300 *2,850	10.35 33.31
10.5 m 35.0 ft	kg lb											*1200 *2,600	*1200 *2,600	11.66 37.83
9.0 m 30.0 ft	kg lb											*1150 *2,500	*1150 *2,500	12.66 41.25
7.5 m 25.0 ft	kg lb											*1100 *2,450	*1100 *2,450	13.41 43.83
6.0 m 20.0 ft	kg lb											*1100 *2,400	*1100 *2,400	13.96 45.71
4.5 m 15.0 ft	kg lb											*1150 *2,450	*1150 *2,450	14.34 46.99
3.0 m 10.0 ft	kg lb			*4700 *11,900	*4700 *11,900	*5800 *12,400	*5800 *12,400	*4300 *9,200	*4300 *9,200	*3500 *7,550	*3500 *7,550	*1150 *2,500	*1150 *2,500	14.54 47.71
1.5 m 5.0 ft	kg lb					*6750 *15,750	6600 14,250	*5150 *11,050	4550 9,800	*4000 *8,650	3400 7,250	*1200 *2,650	1150 2,500	14.60 47.89
0 m 0 ft	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5800 *12,550	4100 8,850	*4450 *9,650	3100 6,650	*1300 *2,800	1150 2,500	14.49 47.54
-1.5 m -5.0 ft	kg lb	*2100 *4,600	*2100 *4,600	*2750 *6,100	*2750 *6,100	*4650 *10,550	*4650 *10,550	*6250 *13,500	3850 8,250	*4800 *10,400	2900 6,200	*1400 *3,000	1150 2,500	14.22 46.65
-3.0 m -10.0 ft	kg lb	*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,750	*6450 *13,950	3700 8,000	4800 10,350	2750 5,950	*1500 *3,350	1200 2,600	13.79 45.19
-4.5 m -15.0 ft	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	5600 12,000	*6450 *14,000	3700 7,900	4750 10,200	2700 5,850	*1700 *3,800	1300 2,800	13.17 43.10
-6.0 m -20.0 ft	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	5700 12,250	*6300 *13,550	3700 8,000	4750 10,250	2750 5,850	*2000 *4,500	1450 3,150	12.34 40.27
-7.5 m -25.0 ft	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7600 *16,350	5900 12,650	*5850 *12,600	3850 8,250	*4700 *10,100	2800 6,050	*2550 *5,700	1650 3,700	11.24 36.55
-9.0 m -30.0 ft	kg lb			*8000 *18,050	*8000 *18,050	*6550 *14,000	6150 13,250	*5150 *10,950	4000 8,650	*4150 *8,750	2950 6,350	*2900 *6,350	2100 4,750	9.79 31.60
-10.5 m -35.0 ft	kg lb							*3900 *3900	*3900 *3900	*3000 *3000	*3000 *3000	*2800 *2800	*2800 *2800	7.80



ISO 10567



\*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.

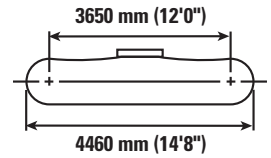
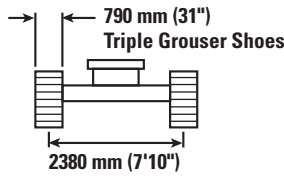
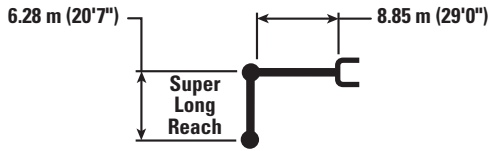
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








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# 320D2 L Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – with Bucket Linkages, without Bucket



		9.0 m/30.0 ft		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft				
												mm in
12.0 m 40.0 ft	kg lb									*1300 *2,850	*1300 *2,850	10.35 33.31
10.5 m 35.0 ft	kg lb			*4,700	*4,700					*1200 *2,600	*1200 *2,600	11.66 37.83
9.0 m 30.0 ft	kg lb					*2000 *3,700	2000 *3,700			*1150 *2,500	*1150 *2,500	12.66 41.25
7.5 m 25.0 ft	kg lb			*2150 *4,750	*2150 *4,750	*2150 *4,700	1950 4,200			*1100 *2,450	*1100 *2,450	13.41 43.83
6.0 m 20.0 ft	kg lb			*2300 *5,000	*2300 *5,000	*2250 *4,850	1900 4,100	*1850 *3,250	1500 3,150	*1100 *2,400	*1100 *2,400	13.96 45.71
4.5 m 15.0 ft	kg lb	*2700 *5,850	*2700 *5,850	*2500 *5,400	2350 5,000	*2350 *5,100	1850 3,900	*2250 *4,650	1450 3,050	*1150 *2,450	*1150 *2,450	14.34 46.99
3.0 m 10.0 ft	kg lb	*3000 *6,550	2800 6,050	*2700 *5,850	2200 4,700	*2500 *5,400	1750 3,750	2350 4,950	1400 2,950	*1150 *2,500	*1150 *2,500	14.54 47.71
1.5 m 5.0 ft	kg lb	*3350 *7,250	2600 5,600	*2950 *6,350	2050 4,400	*2650 *5,750	1650 3,550	2250 4,850	1350 2,850	*1200 *2,650	1150 2,500	14.60 47.89
0 m 0 ft	kg lb	*3650 *7,950	2400 5,200	*3150 *6,850	1950 4,150	2650 5,650	1550 3,350	2200 4,750	1300 2,750	*1300 *2,800	1150 2,500	14.49 47.54
-1.5 m -5.0 ft	kg lb	3850 8,250	2250 4,850	3100 6,650	1850 3,900	2550 5,500	1500 3,200	2150 4,650	1250 2,650	*1400 *3,000	1150 2,500	14.22 46.65
-3.0 m -10.0 ft	kg lb	3750 8,050	2200 4,650	3050 6,500	1750 3,750	2500 5,400	1450 3,100	2150 *3,700	1250 2,650	*1500 *3,350	1200 2,600	13.79 45.19
-4.5 m -15.0 ft	kg lb	3700 7,950	2150 4,550	3000 6,450	1750 3,700	2500 5,400	1450 3,100			*1700 *3,800	1300 2,800	13.17 43.10
-6.0 m -20.0 ft	kg lb	3700 7,950	2150 4,600	3000 6,450	1750 3,750	2550 *5,150	1450 3,150			*2000 *4,500	1450 3,150	12.34 40.27
-7.5 m -25.0 ft	kg lb	3750 8,100	2200 4,700	3100 6,650	1800 3,900					*2550 *5,700	1650 3,700	11.24 36.55
-9.0 m -30.0 ft	kg lb	*3300 *6,950	2300 5,050							*2900 *6,350	2100 4,750	9.79 31.60
-10.5 m -35.0 ft	kg lb									*2800	*2800	7.80



ISO 10567



\*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.

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

## Standard Equipment

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

### ENGINE

- C7.1 Mechanical engine
- Meets Tier 3, Stage IIIA equivalent emission standards
- 4000 m (13,120 ft) altitude capability
- Radial seal air filters (primary and secondary filter)
- Glow plugs (for cold weather start)
- Automatic engine speed control with one touch low idle
- High ambient cooling package 52° C (125° F)
- Water separator with water level indicator sensor
- Waved fin radiator with space for cleaning
- Two speed travel
- Electric priming pump
- Fuel pressure differential gauge
- Power modes (Eco and Standard)

### HYDRAULIC SYSTEM

- Regeneration circuits for boom and stick
- Auxiliary hydraulic valve
- Reverse swing damping valve
- Automatic swing parking brake
- Boom drift reducing valve
- Boom lowering device for back-up
- Stick drift reducing valve
- Straight travel hydraulic circuit
- High performance hydraulic return filters

### CAB

- Pressurized cab
- Fully adjustable mechanical suspension seat
- Adjustable armrest
- Seat belt, retractable (51 mm [2 in] width)
- 70/30 split front windshield
- Laminated upper front windshield and tempered other windows
- Sliding upper door window
- Openable front windshield with assist device
- Pillar mounted upper windshield wiper and washer
- Bi-level air conditioner (automatic) with defroster (pressurized function)
- Color LCD display with warning, filter/fluid change, and working hour information
- Control lever joysticks
- Hydraulic activation control lever (lock out for all controls)
- Travel control pedals with removable hand levers
- Radio mounting (DIN size)
- Radio ready
- 12V – 2× maximum 10A power supply
- Two stereo speakers
- Beverage holder
- Coat hook
- Openable roof hatch
- Washable floor mat
- Rolldown sunscreen

### UNDERCARRIAGE

- Idler and center section track guiding guard
- Towing eye on base frame
- Grease lubricated track

### ELECTRICAL

- Batteries (2 × 750 CCA)

### LIGHTS

- Left boom working light
- Right working light mounted in the storage box
- Interior lighting
- Cab mounted working lights

### SAFETY & SECURITY

- Cat one key security system
- Door and compartment locks
- Signaling/warning horn
- Rearview mirrors
- Fire wall between engine and pump compartment
- Emergency engine shutoff switch
- Rear window, emergency exit
- Battery disconnect switch

### COUNTERWEIGHT

- 3.7 mt (8,160 lb) counterweight

### TECHNOLOGY

- Product Link™
- Cat data link receptacle

# 320D2 L Optional Equipment

## Optional Equipment

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

### ENGINE

- Starting kit, cold weather, -32° C (-26° F)
- Air prefilter
- Cab
- Control pattern quick changer
- 12V power supply

### HYDRAULIC SYSTEM

- Hammer circuit, foot pedal operated
- Quick coupler circuit for Cat Pin Grabber
- Boom and stick high pressure lines
- Boom and stick quick coupler pressure lines

### UNDERCARRIAGE AND GUARDS

- 600 mm (24") triple grouser shoes
- 790 mm (31") triple grouser shoes
- Full length track guiding guard
- Guard package includes (HD) bottom, (HD) travel motor, swivel guard
- HD track roller

### FRONT LINKAGE

- HD R5.7 m (18'8") reach boom
  - HD R2.9B1 (9'6") reach stick
  - HD R2.5B1 (8'2") reach stick
- Super long reach (SLR)
  - SLR boom 8.85 m (29'0")
  - SLR stick 6.28 m (20'7")
- Bucket linkage

### SECURITY

- Travel alarm
- Rearview camera
- Cab mirror











For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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