330D2 L

Hydraulic Excavator

Engine		
Engine Model	Cat® C7.1 ACERT™	
Engine Power (ISO 14396)	159 kW	213 hp
Net Power (SAE J1349/ISO 9249)	156 kW	209 hp

Weights		
Minimum Operating Weight	28 955 kg	63,830 lb
Maximum Operating Weight	30 115 kg	66,390 lb

Powerful, reliable, durable

The Cat 330D2 L is designed and built for a variety of applications from quarry to industrial material-handling to construction and more. It is powerful, reliable, durable with great productivity and versatility making it an ideal machine whatever your job sites need.

Contents

The 330D2 L comes with a number of features to help you make the best use of your machine. Isochronous engine speed control, a new fuel filtration system, a built-in economy mode to save fuel consumption and energy. A variable speed fan with viscous clutch makes this machine productive, efficient and safe.

Key Features

A world class design combining excellent performance with low fuel consumption and superior reliability.

Performance/Efficiency

- High fuel efficiency
- Improves fuel efficiency by managing pump and isochronous engine speed control
- Meets China Nonroad III emission standards
- Electrical Fuel Priming Pump (EPP) replaces hand priming pump
- Pressure sensor is added to measure negative flow control pressure to improve the hydraulic efficiency

Ease of Operation

- Ergonomically designed cab with easy to operate controls
- Multiple seat and joystick adjustment options enhance comfort
- Excellent work site visibility from the cab enhances productivity
- Optimized low effort joystick controls reduces operator fatigue
- New monitor with 40% larger viewing screen, 4× higher resolution and 42 language options available

Reliability/Serviceability

- The strong and durable carbody has been designed to work in the toughest operating conditions
- All electrical wires are colored, numbered and protected with thick braiding for ease of identification and long life
- Modified X-frame structure provides long life and durability
- Heavy duty booms and sticks are standard
- Grease and Lubricated Tracks (GLT) provides longer life
- New fuel injection system for improved reliability

Reduced Costs

- Improving filtration efficiency and machine robustness
- Service intervals 500 hours
- There are two different power modes; High Horse Power (HHP) and ECO Mode.

Technology

- Integrated Cat technology solutions increase production and minimize operating costs
- Product Link™ reports key information from the machine to any location

Engine

Power up with strong reliability, high efficiency.

Reliable Cat C7.1 ACERT Engine

The Cat C7.1 ACERT engine has been designed to meet China Nonroad III emission standards. The C7.1 ACERT engine incorporates proven, robust components and precision manufacturing you can count on for reliable and efficient operation. This is a proven engine that boasts improved reliability, as it's less sensitive to low quality fuel and also delivers reduced fuel consumption.

Isochronous Control

The Isochronous engine speed control improves fuel efficiency and reduces fuel consumption and noise levels by managing pump and engine speed.

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.

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.

Variable Speed Fan

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

Filtration System

The C7.1 ACERT engine features an improved filtration system to ensure good reliability to fuel injection system components. Intervals have been extended and the number of filters has been increased to 3. The primary filter and the secondary twin filters improve filtration efficiency and machine robustness.

Operator Station

Ergonomically designed to keep you comfortable and productive all day long.

Monitor

The new monitor on the 330D2 L features a 40 percent larger screen with four times increased resolution display.

The LCD monitor is equipped with a warning lamp and buzzer for critical engine oil pressure, coolant temperature and oil temperature. Programmable in up to 42 languages to meet today's diverse workforce, the monitor clearly displays critical information needed to operate efficiently and effectively.

Filters and fluid change intervals are available in the main menu which also projects the image from the optional rearview camera, further enhancing your job site safety and productivity.

Seat

The mechanical or air suspension seats provide a variety of adjustments to accommodate a wide range of operators. All seats include a reclining back, upper and lower seat slide adjustments, and height and tilt adjustments.

Controls

Operators can adjust the right and left joysticks for individual preferences, helping them become more comfortable, more productive, and more alert. Low-effort pilot-operated joystick controls are designed to match your natural wrist and arm position for maximum comfort and minimum fatigue.

Climate Control

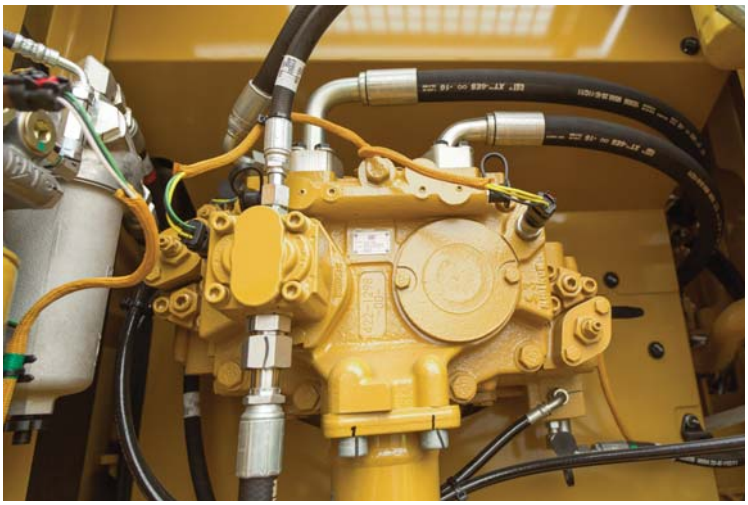
The 330D2 L offers positive filtered ventilation with a pressurized cab. Fresh air or recirculated air can be selected, which makes working in the heat and cold much more pleasant.

Cab Structure and Mounts

The cab shell is attached to the frame with viscous rubber cab mounts which dampen vibrations and sound levels while enhancing operator comfort. Thick steel tubing along the bottom perimeter of the cab improves resistance to fatigue and vibration.

Hydraulics

Cat hydraulics deliver power and precise control to keep material moving.



Hydraulic System

Hydraulic system pressure from the two-hydraulic pump system delivers terrific digging performance and productivity.

Pilot System

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

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

With the hydraulic activation lever in the neutral position, all front linkage, swing, and travel functions are isolated.

Component Layout

The 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, reducing 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 to increase efficiency and reduce cycle times and pressure loss for higher productivity, lower operating costs, and increased fuel efficiency.

Undercarriage and Structures

Strong and durable, all you expect from Cat excavators.

Robotic Welding

Up to 95% of the structural welds on a Cat Excavator are completed by robots. Robotic welds achieve over three times the penetration of manual welds.

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 which deliver exceptional strength and service life.

Rollers and Idlers

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

Long Undercarriage

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

Tracks

The 330D2 L track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

Counterweights

The 5.9 mt (6.5 t) standard weight makes a better choice for heavy lifting with long undercarriage. Counterweights are bolted directly to the main frame for extra rigidity.

Front Linkage

Designed for flexibility, high productivity, and efficiency in a variety of applications.

Reach Boom and Heavy-Duty Reach Boom Front Linkage

The 6.15 m (10'2") heavy-duty (HD) reach boom is reinforced to be used in the severest applications for maximum digging capability. The boom is 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. Booms and sticks are stress-relieved for added durability.

The HD reach boom has two stick options available to meet all your application requirements.

- R3.2 (10'6") CB2 and CB2 HD sticks
- R2.65 (8'8") CB2 and CB2 HD sticks

Service and Maintenance

Simplified service and maintenance features save you time and money.

Ground-Level Service

The design and layout of the 330D2 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 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, water separator, second and third fuel filters, and fuel cooler. A reserve tank and drain cock are attached to the radiator for simplified maintenance.

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

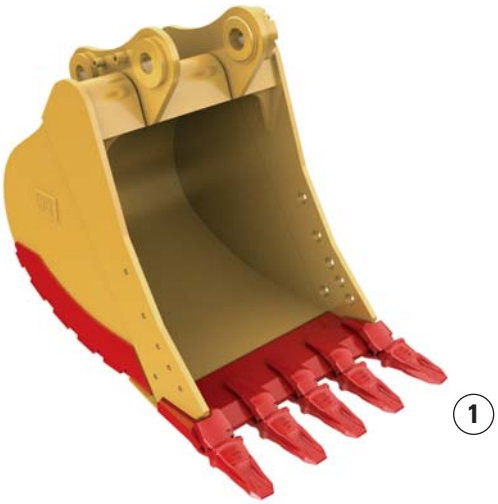
Anti-skid plate covers top of storage box and upper structure to prevent slipping during maintenance.

Diagnostics and Monitoring

The 330D2 L is equipped with S·O·S℠ sampling ports and hydraulic test ports for the hydraulic system, engine oil, and for coolant.

Work Tools

Dig, hammer, rip, and cut with confidence.



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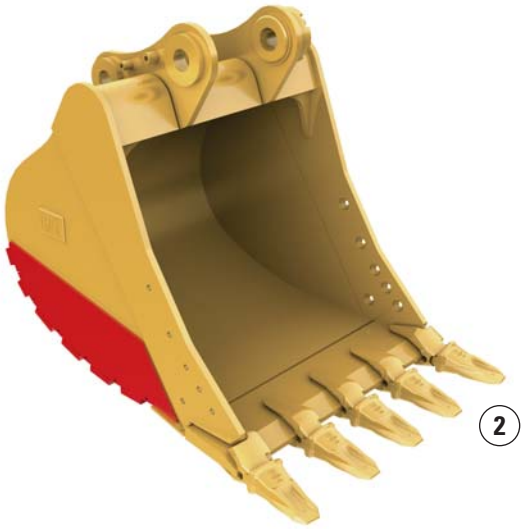

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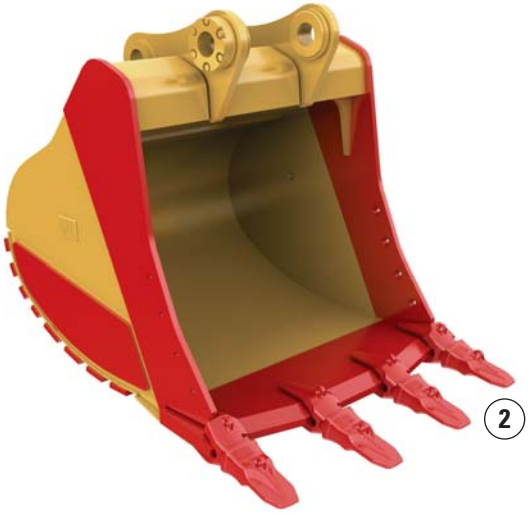

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Each Cat work tool attachment is designed to optimize the versatility and performance of your machine. An extensive range of buckets, compactors, grapples, multi-processors, rippers, crushers, pulverizers, hammers, and shears are available for your 330D2 L. Contact your local Cat dealer for more information on the attachments available in your region.

Buckets

Cat buckets and Cat Ground Engaging Tools (GET) are designed and matched to the machine to ensure optimal performance and fuel efficiency.

1 – 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.

2 – Severe Duty Buckets (SD)

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

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.

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

Integrated Technologies

Monitor, manage, and enhance job site operations.

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

Cat Connect technologies 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.

Cat Connect LINK Technologies

LINK technologies wirelessly connect you to your equipment giving you access to essential information you need to know to run your business. Link data can give you valuable insight into how your machine or fleet is performing so you can make timely, fact-based decisions that can boost job site efficiency and productivity.

Product Link/VisionLink®

Product Link is deeply integrated into your machine, helping to take the guesswork out of equipment management. Easy access to timely information like machine location, hours, fuel usage, idle time and event codes via the online VisionLink user interface can help you effectively manage your fleet and lower operating costs.

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.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Product Support

You can maximize your machines' uptime with the Cat worldwide dealer network. You can also decrease your repair costs by utilizing Cat remanufactured components while contributing to sustainable development.

Machine Selection

What are the job requirements and machine attachments? What production do you need? Your Cat dealer can provide recommendations to help you make the right machine configuration.

Purchase

You can ensure lower owning and operating costs by utilizing unique Cat dealer services and financing options.

Customer Support Agreements

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

Operation

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

Replacement

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

330D2 L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C7.1 ACERT	
Type	Direct Injection	
Engine Power (ISO 14396)	159 kW	213 hp
Net Power (SAE J1349/ISO 9249)	156 kW	209 hp
Displacement	7.01 L	428 in^3
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Rated Speed (engine)	1,800 rpm	
Hi-Idle Speed	1,700 rpm	
Low-Idle Speed	950 rpm	
Maximum Torque (torque peak) @ 1,400 rpm	900 N·m	663.8 lbf-ft
Maximum Altitude (without derate)	3000 m	9,842 ft
Maximum Altitude (with derate)	5000 m	16,404 ft

- All engine horsepower (hp) are metric including front page.
- The C7.1 ACERT engine meets China Nonroad III emission standards.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- Full engine net power up to 3000 m (9,842 ft) altitude (engine derating required above 3000 m [9,842 ft]).

Weights

Minimum Operating Weight*	28 955 kg	63,830 lb
Maximum Operating Weight**	30 115 kg	66,390 lb

*6.15 m (20'2") HD reach boom, R2.65 (8'8") HD stick, 1.54 m^3 (2.02 yd^3) bucket, 600 mm (24") triple grouser track shoes

**Long undercarriage, 6.15 m (20'2") HD reach boom, R3.2CB2 (10'6") stick, 1.54 m^3 (2.02 yd^3) bucket, 800 mm (32") triple grouser track shoes

Swing Mechanism

Swing Speed	9.6 rpm	
Swing Torque	82.2 kN·m	60,627.6 lbf-ft

Drive

Maximum Travel Speed	5.3 km/h	3.4 mph
Maximum Drawbar Pull	248 kN	55,752.6 lbf

Service Refill Capacities

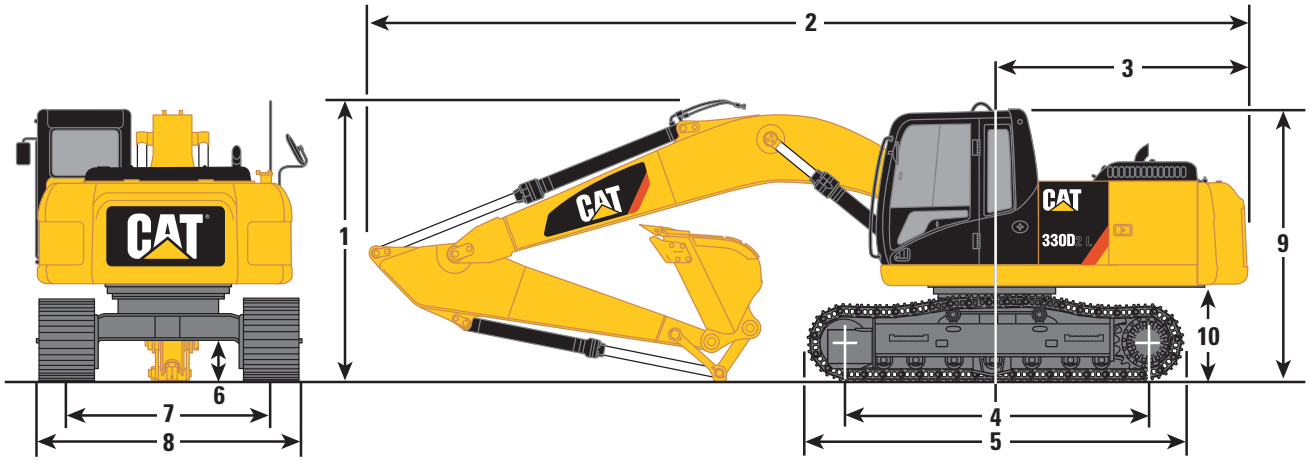
Fuel Tank Capacity	520 L	137.4 gal
Cooling System	31 L	8.2 gal
Engine Oil	22 L	5.8 gal
Swing Drive	10 L	2.6 gal
Final Drive (each)	6 L	1.6 gal
Hydraulic System (including tank)	310 L	81.9 gal
Hydraulic Tank	257 L	67.9 gal

Hydraulic System

Main System – Maximum Flow at Travel H/L (1,800 rpm)	254 × 2 (508 total) L/min	67.1 × 2 (134.2 total) gal/min
Main System – Maximum Flow at Travel L/L (1,750 rpm)	247 × 2 (494 total) L/min	65.2 × 2 (130.4 total) gal/min
Main System – Maximum Flow (each) at Operation (1,700 rpm)	240 × 2 (480 total) L/min	63.4 × 2 (126.8 total) gal/min
Swing System – Maximum Flow	240 L/min	63.4 gal/min
Maximum Pressure – Equipment	35 MPa	5,076.4 psi
Maximum Pressure – Travel	35 MPa	5,076.4 psi
Maximum Pressure – Swing	27.5 MPa	3,982.7 psi
Pilot System – Maximum Flow	23.1 L/min	6.1 gal/min
Pilot System – Maximum Pressure	3920 kPa	568.6 psi
Boom Cylinder – Bore	140 mm	5.5 in
Boom Cylinder – Stroke	1407 mm	55.4 in
Stick Cylinder – Bore	150 mm	5.9 in
Stick Cylinder – Stroke	1646 mm	64.8 in
CB2 Bucket Cylinder – Bore	135 mm	5.3 in
CB2 Bucket Cylinder – Stroke	1156 mm	45.5 in
DB Bucket Cylinder – Bore	150 mm	5.9 in
DB Bucket Cylinder – Stroke	1151 mm	45.3 in

Dimensions

All dimensions are approximate.



	HD Reach Boom 6.15 m (20'2")			
Stick Type: HD	**R3.2CB2 (10'6")**		**R2.65CB2 (8'8")**	
1 Shipping Height*	3330 mm	10'11"	3420 mm	11'3"
2 Shipping Length	10 360 mm	34'0"	10 370 mm	34'0"
3 Tail Swing Radius	3080 mm	10'1"	3080 mm	10'1"
4 Length to Center of Rollers				
Long Undercarriage	3990 mm	13'1"	3990 mm	13'1"
5 Track Length				
Long Undercarriage	4860 mm	15'11"	4860 mm	15'11"
6 Ground Clearance**	480 mm	19"	480 mm	19"
7 Track Gauge				
Long Undercarriage	2590 mm	8'6"	2590 mm	8'6"
8 Transport Width				
Long Undercarriage				
600 mm (24") Shoes	3190 mm	10'6"	3190 mm	10'6"
700 mm (28") Shoes	3290 mm	10'10"	3290 mm	10'10"
800 mm (31") Shoes	3390 mm	11'1"	3390 mm	11'1"
9 Cab Height*	3040 mm	10'0"	3040 mm	10'0"
10 Counterweight Clearance**	1100 mm	3'7"	1100 mm	3'7"
Bucket Type	**SD**		**SD**	
Bucket Capacity	**1.54 m³**	**2.01 yd³**	**1.54 m³**	**2.01 yd³**
Bucket Tip Radius	**1690 mm**	**5'7"**	**1690 mm**	**5'7"**

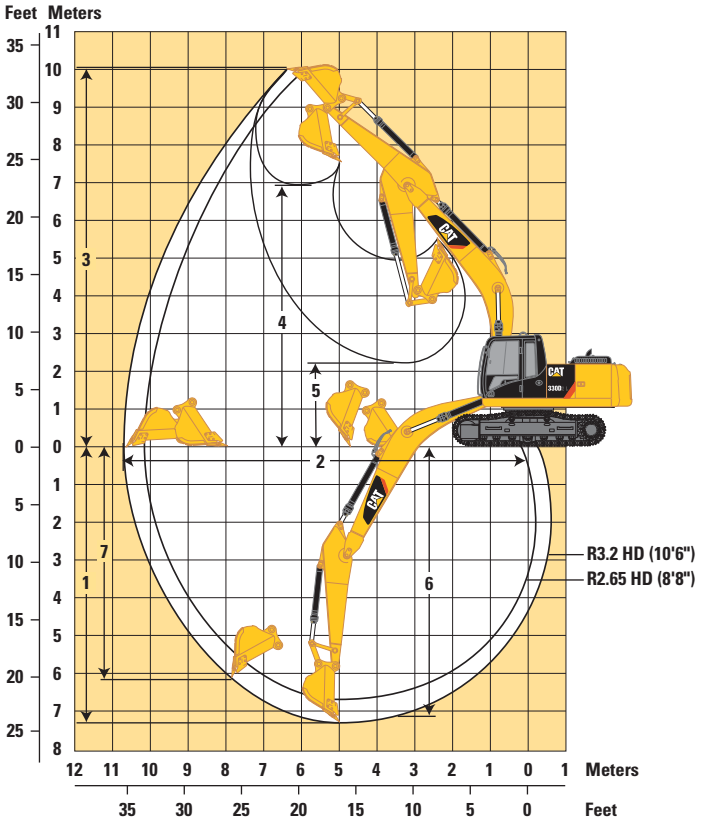
*Including shoe lug height.

**Without shoe lug height.

330D2 L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



	HD Reach Boom 6.15 m (20'2")			
Stick Type	**R3.2 HD (10'6")**		**R2.65 HD (8'8")**	
Bucket	**1.54 m³ (2.01 yd³)**		**1.54 m³ (2.01 yd³)**	
1 Maximum Digging Depth	7290 mm	23'11"	6740 mm	22'1"
2 Maximum Reach at Ground Level	10 720 mm	35'2"	10 240 mm	33'7"
3 Maximum Cutting Height	10 040 mm	32'11"	9930 mm	32'7"
4 Maximum Loading Height	6900 mm	22'8"	6760 mm	22'2"
5 Minimum Loading Height	2250 mm	7'5"	2800 mm	9'2"
6 Maximum Depth Cut for 2440 mm (8'1") Level Bottom	7130 mm	23'5"	6560 mm	21'6"
7 Maximum Digging (Vertical Wall)	6160 mm	20'3"	5840 mm	19'2"
Bucket Type	**SD**		**SD**	
Bucket Capacity	**1.54 m³**	**2.01 yd³**	**1.54 m³**	**2.01 yd³**
Bucket Tip Radius	**1690 mm**	**5'7"**	**1690 mm**	**5'7"**

Operating Weight and Ground Pressure

Boom	Reach (HD)			
Stick	**R3.2 HD (10'6")**		**R2.65 HD (8'8")**	
Bucket Linkage	**CB**		**CB**	
Bucket Capacity	**1.54 m^3**	**2.01 yd^3**	**1.54 m^3**	**2.01 yd^3**
Bucket Width	**1400 mm**	**55 in**	**1400 mm**	**155 in**
Total Weight – 600 mm (24") Triple Grouser Shoes	29 115 kg	64,280 lb	28 955 kg	63,830 lb
Total Weight – 800 mm (31") Triple Grouser Shoes (LC)	30 118 kg	66,260 lb	29 914 kg	65,811 lb
Ground Pressure				
Long Undercarriage				
600 mm (24") Triple Grouser Shoes (LC)	55.4 kPa	8.0 psi	55.0 kPa	8.0 psi
600 mm (24") Double Grouser Shoes (LC)	56.2 kPa	8.1 psi	55.8 kPa	8.1 psi

The ground pressure information is based on operating weights shown below.

ISO 6016 configuration: machine (upper and lower structure), front structure, 100% full fuel tank, fluids at normal level (i.e.: oils/water/lubricants), bucket (currently = WW major bucket) without fill materials, 75 kg (165 lb) operator.

Notes: No optional attachments are included, the bucket is empty.

330D2 L Hydraulic Excavator Specifications

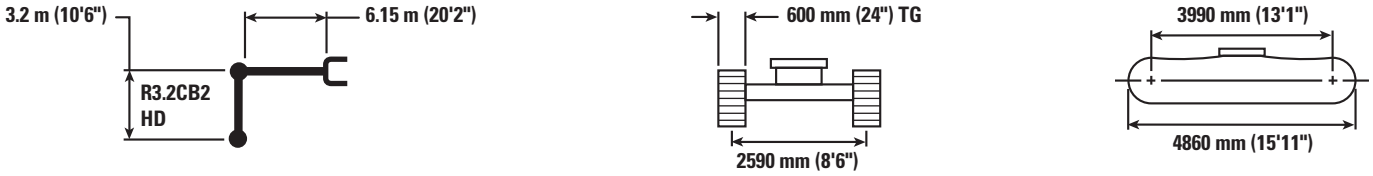
Major Component Weights

Base Machine – Includes: Boom Cylinders, Pins, Fluids	7030 kg	15,500 lb
Full Fuel Tank	430 kg	950 lb
Counterweight (for use with HD Reach boom)	5860 kg	12,920 lb
Boom (includes lines, pins, and stick cylinder)		
Reach Boom HD – 6.15 m (20'2")	2420 kg	5,340 lb
Stick (includes lines, stick pins, bucket pins, bucket cylinder, and bucket linkage)		
R3.2CB2 HD (10'6")	1610 kg	3,550 lb
R2.65CB2 HD (8'8")	1410 kg	3,110 lb
Undercarriage		
Long Undercarriage	6630 kg	14,620 lb
Tracks		
Long Undercarriage		
600 mm (24") Triple Grouser Shoes	3580 kg	7,890 lb
600 mm (24") Double Grouser Shoes	4000 kg	8,820 lb
800 mm (31") Triple Grouser Shoes	4540 kg	10,010 lb

Bucket and Stick Forces

	HD Reach Boom 6.15 m (20'2")			
Stick Type	**R3.2 HD (10'6")**		**R2.65 HD (8'8")**	
Bucket Capacity	**1.54 m^3**	**2.01 yd^3**	**1.54 m^3**	**2.01 yd^3**
Cutting Edge				
Bucket Digging Force (ISO)	179 kN	40,152 lbf	179 kN	40,152 lbf
Stick Digging Force (ISO)	126 kN	28,374 lbf	145 kN	32,526 lbf
Bucket Tip				
Bucket Digging Force (SAE)	154 kN	34,709 lbf	154 kN	34,709 lbf
Stick Digging Force (SAE)	122 kN	27,423 lbf	139 kN	31,263 lbf

330D2 L HD Reach Boom Lift Capacities – Counterweight: 5.9 mt (6.5 t) – 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		9.0 m/30.0 ft				
																m ft
7.5 m **25.0 ft**	kg **lb**													*5100 ***11,250**	*5100 ***11,250**	7.28 **23.9**
6.0 m **20.0 ft**	kg **lb**									*7000 ***15,150**	5550 **11,900**			*4850 ***10,650**	4700 **10,450**	8.23 **27.0**
4.5 m **15.0 ft**	kg **lb**							*8200 ***17,800**	7650 **16,500**	*7400 ***16,150**	5400 **11,600**			*4800 ***10,550**	4100 **9,100**	8.83 **29.0**
3.0 m **10.0 ft**	kg **lb**					*12 650 ***27,200**	11 100 **23,950**	*9550 ***20,700**	7250 **15,600**	*8100 ***17,450**	5200 **11,150**	*5900	3900	*4950 ***10,850**	3800 **8,400**	9.14 **30.0**
1.5 m **5.0 ft**	kg **lb**					*15 100 ***32,550**	10 350 **22,250**	*10 850 ***23,500**	6850 **14,750**	7900 **16,950**	5000 **10,750**	6000 ***12,400**	3800 **8,200**	*5250 ***11,500**	3700 **8,100**	9.19 **30.2**
0 m **0 ft**	kg **lb**					*16 200 ***35,050**	9950 **21,350**	10 850 **23,250**	6600 **14,200**	7700 **16,600**	4850 **10,400**			*5750 ***12,650**	3750 **8,250**	8.99 **29.5**
–1.5 m **–5.0 ft**	kg **lb**	*6300 ***14,050**	*6300 ***14,050**	*9950 ***22,600**	*9950 ***22,600**	*16 200 ***35,050**	9850 **21,150**	10 700 **22,950**	6450 **13,950**	7650 **16,450**	4750 **10,250**			6400 **14,050**	4050 **8,850**	8.53 **28.0**
–3.0 m **–10.0 ft**	kg **lb**	*11 400 ***25,550**	*11 400 ***25,550**	*16 150 ***36,650**	*16 150 ***36,650**	*15 200 ***32,850**	9900 **21,300**	10 700 **23,000**	6500 **14,000**	7700 **16,600**	4800 **10,400**			7400 **16,350**	4650 **10,250**	7.74 **25.4**
–4.5 m **–15.0 ft**	kg **lb**			*17 550 ***37,700**	*17 550 ***37,700**	*12 850 ***27,600**	10 150 **21,850**	*9500 ***20,100**	6700 **14,450**					*8300 ***18,300**	6000 **13,450**	6.52 **21.4**

* ISO 10567

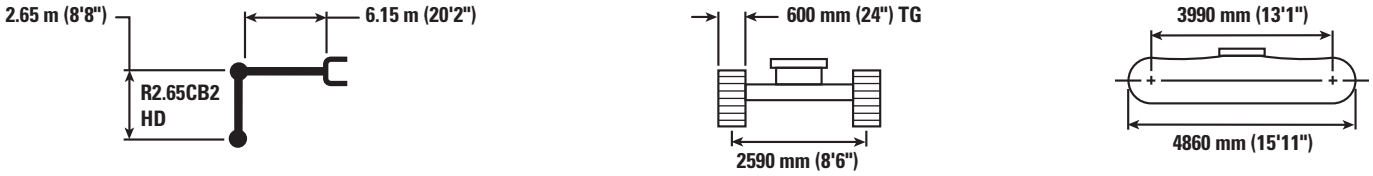
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

330D2 L Hydraulic Excavator Specifications

330D2 L HD Reach Boom Lift Capacities – Counterweight: 5.9 mt (6.5 t) – 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**					***17,200**	***17,200**			*6700 ***14,800**	*6700 ***14,800**	6.67 **21.9**
6.0 m **20.0 ft**	kg **lb**					*8000 ***17,450**	7900 **17,000**	*7600 ***14,300**	5500 **11,750**	*6300 ***13,850**	5250 **11,700**	7.70 **25.3**
4.5 m **15.0 ft**	kg **lb**			*11 050 ***23,700**	*11 050 ***23,700**	*9000 ***19,450**	7600 **16,400**	*8000 ***17,500**	5400 **11,600**	*6200 ***13,650**	4550 **10,050**	8.34 **27.4**
3.0 m **10.0 ft**	kg **lb**			*13 900 ***29,850**	10 950 **23,650**	*10 250 ***22,200**	7250 **15,600**	8150 **17,500**	5250 **11,250**	*6350 ***13,950**	4200 **9,250**	8.67 **28.4**
1.5 m **5.0 ft**	kg **lb**			*15 550 ***34,450**	10 350 **22,250**	11 150 **24,000**	6900 **14,900**	7950 **17,100**	5050 **10,900**	6350 **14,000**	4100 **8,950**	8.72 **28.6**
0 m **0 ft**	kg **lb**			*16 500 ***35,850**	10 100 **21,700**	10 950 **23,500**	6700 **14,450**	7800 **16,800**	4950 **10,650**	6550 **14,350**	4150 **9,150**	8.51 **27.9**
–1.5 m **–5.0 ft**	kg **lb**	*9700 ***22,150**	*9700 ***22,150**	*16 100 ***34,900**	10 050 **21,650**	10 850 **23,300**	6650 **14,300**	7800 **16,750**	4900 **10,600**	7100 **15,650**	4500 **9,950**	8.02 **26.3**
–3.0 m **–10.0 ft**	kg **lb**	*18 250 ***41,650**	*18 250 ***41,650**	*14 650 ***31,700**	10 200 **21,900**	10 950 **23,500**	6700 **14,450**			8400 **18,650**	5300 **11,750**	7.18 **23.6**
–4.5 m **–15.0 ft**	kg **lb**	*15 350	*15 350	*11 650 ***24,850**	10 500 **22,600**					*8450 ***18,550**	7250 **16,350**	5.83 **19.1**

* **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.

Work Tool Offering Guide*

Boom Type		HD Reach Boom	
		6.15 m (20'2")	
Stick Size		**R3.2 HD (10'6")**	**R2.65 HD (8'8")**
Hydraulic Hammer		B30 B35**	B30 B35^ ^^
Multi-Processor		MP324 CC Jaw^ ^^ MP324 D Jaw^ ^^ MP324 P Jaw^ MP324 U Jaw^ ^^ MP324 S Jaw MP324 TS Jaw^	MP324 CC Jaw MP324 D Jaw MP324 P Jaw MP324 U Jaw MP324 S Jaw MP324 TS Jaw
Crusher		P325^ ^^	P325
Pulverizer		P225	P225
Demolition and Sorting Grapple (D-Demolition Shells, R-Recycling Shells)		G320B-D/R G325B-D**	G320B-D/R G325B-D^ ^^
Scrap and Demolition Shear		S320B S325B** S340B#	S320B S325B^ ^^ S340B#
Compactor (Vibratory Plate)		CVP110	CVP110
Orange Peel Grapple		These work tools are available for the 330D2 L. Consult your Cat dealer for proper work tool match.	
Rippers			
Pin Grabber Coupler	Cat-PG		
Dedicated Quick Coupler	CW45s		
	CW45		

* 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.
** Match; Pin-on only
# Match; Boom Mount
^ Work over the front only with Dedicated Quick Coupler (match; Pin-on and Dedicated Quick Coupler)
^^ Work over the front only with Cat-PG (match; Pin-on, Dedicated Quick Coupler and Cat-PG)

330D2 L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

		Width		Capacity		Weight		Fill	330D2 L HD Reach Boom 6.15 m (20'2") Stick 2.65 HD (8'8") Shoes
	Linkage	mm	in	m^3	yd^3	kg	lb	%	600 mm (24")
Without Quick Coupler									
General Duty (GD)	CB	1400	55	1.54	2.02	1116	2,459	100	◉
Heavy Duty (HD)	CB	1250	49	1.33	1.74	1120	2,469	100	●
	CB	1300	51	1.36	1.78	1146	2,526	100	●
	CB	1350	53	1.45	1.90	1180	2,601	100	●
	CB	1400	55	1.54	2.02	1221	2,692	100	◉
	CB	1450	57	1.57	2.05	1248	2,751	100	◉
	CB	1500	59	1.65	2.16	1275	2,811	100	◉
Severe Duty (SD)	CB	1250	50	1.33	1.74	1235	2,723	90	●
	CB	1300	51	1.36	1.78	1263	2,784	90	●
	CB	1350	54	1.45	1.90	1286	2,834	90	●
	CB	1400	56	1.54	2.02	1355	2,985	90	◉
							Maximum load pin on (payload + bucket)	kg	4119
								lb	9,078
With Pin Grabber Coupler									
General Duty (GD)	CB	1400	55	1.54	2.02	1116	2,459	100	⊖
Heavy Duty (HD)	CB	1250	49	1.33	1.74	1072	2,363	100	◉
	CB	1300	51	1.36	1.78	1146	2,526	100	◉
	CB	1350	53	1.45	1.90	1132	2,496	100	◉
	CB	1400	55	1.54	2.02	1163	2,564	100	⊖
	CB	1450	57	1.57	2.05	1248	2,751	100	◉
	CB	1500	59	1.65	2.16	1275	2,811	100	◉
Severe Duty (SD)	CB	1250	50	1.33	1.74	1235	2,723	90	●
	CB	1300	51	1.36	1.78	1263	2,784	90	●
	CB	1350	54	1.45	1.90	1286	2,834	90	◉
	CB	1400	56	1.54	2.02	1355	2,985	90	⊖
							Maximum load with coupler (payload + bucket)	kg	3614
								lb	7,966

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

Standard Equipment

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

ENGINE

- C7.1 ACERT electronic control engine
- Meets China Nonroad III emission standards
- 3000 m (9,842 ft) altitude capability without derating (Maximum 5000 m [16,404 ft] with derate from 3000 m [9,842 ft])
- Radial seal air filters (primary and secondary filter)
- Glow plugs
- Automatic engine speed control with one touch low idle
- High ambient cooling package 52° C (126° F)
- Water separator with water level indicator sensor
- Radiator and oil cooler side by side with enough space for cleaning
- Two speed travel
- Electric (priming) pump
- Power modes (Eco and High Power)
- Variable fan with viscous clutch
- New fuel filtration system (primary ×1, twin main ×2)
- Up to B20 biodiesel fuel capability
- Air-to-air-aftercooler

HYDRAULIC SYSTEM

- Regeneration circuits for boom and stick
- Auxiliary hydraulic valve
- Reverse swing damping valve
- Automatic swing parking brake
- Boom drift reducing valve
- Stick drift reducing valve
- High performance hydraulic return filters
- Hydraulic main pump
- Universal seal used in cylinders
- Capability of installing additional valves, pumps, circuits
- Cat bio-oil capability

CAB

- Pressurized cab
- Mechanical suspension seat
- Positive filtered ventilation
- Adjustable armrest
- Seat belt, retractable (51 mm [2 in]
- 70/30 split front windshield
- Laminated upper front windshield and tempered other windows
- Sliding upper door window
- Openable front windshield with assist device
- Openable roof hatch
- Removable lower windshield, within cab storage bracket
- Pillar mounted upper windshield wiper and washer
- Bi-level air conditioner (automatic) with defroster (pressurized function)
- Full color and full graphic LCD display with warning, filter/fluid change, and working hour information
- Control lever joysticks, seat integrated
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- Two stereo speakers
- Radio mounting
- Beverage holder
- Coat hook
- Interior lighting
- Ashtray and lighter
- Rear window, emergency exit
- Capability to install two additional pedals
- Bolt-on FOGS (Falling Objects Guarding System) capability
- Sun screen

UNDERCARRIAGE

- Idler and segmented track guiding guards (three pieces)
- Towing eyes on base frame
- Grease lubricated track GLT2, resin

ELECTRICAL

- Batteries (2 – 900 CCA)
- Capability to connect a beacon

LIGHTS

- Working light, storage box mounted
- Interior lighting
- Cab mounted working lights

SAFETY AND 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
- Cap locks on fuel and hydraulic tanks
- Lockable tool box

COUNTERWEIGHT

- 5860 kg (12,920 lb) counterweight

330D2 L Optional Equipment

Optional Equipment

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

ENGINE

- Starting kit, cold weather, <–32° C (–26° F)

HYDRAULIC SYSTEM

- Hammer circuit, foot pedal operated

UNDERCARRIAGE AND GUARDS

- Long undercarriage
- 600 mm (24 in) double grouser shoes
- 600 mm (24 in) triple grouser shoes
- 800 mm (31 in) triple grouser shoes
- HD bottom
- HD travel motor
- Swivel guard

FRONT LINKAGE

- Heavy Duty 6.15 m (20'2") reach boom with left side light
  - R3.2CB2 (10'6") HD stick
  - R2.65CB2 (8'8") HD stick
  - R2.65CB2 (8'8") HD stick with bars

TECHNOLOGY

- Product Link

Notes

Notes

Notes

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

AEHQ7629-01 (12-2015)
Replaces AEHQ7629
(China)

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