

330D2 L

Hydraulic Excavator



Engine

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

Weights

Minimum Operating Weight	28 925 kg	63,770 lb
Maximum Operating Weight	30 375 kg	66,970 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.

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The 330D2 L comes with a number of new developments and 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 up to a 15% 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

- Up to a 15% reduction in fuel consumption
- Improves fuel efficiency by managing pump and isochronous engine speed control
- The Cat C7.1 engine meets EPA Tier 3 and EU Stage III emission regulations (for 2015) sound regulations
- Electrical Fuel Priming Pump (EPP) replaces hand priming pump
- Pressure sensor measures 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, 4x 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
- Heavy duty stress-relieved booms and heavy duty sticks are standard
- Grease and Lubricated Tracks (GLT) provides longer life
- New fuel injection system for improved reliability

Reduced Costs

- The machine has improved filtration efficiency and system robustness
- The machine service interval is 500 hours
- There are two different power modes; High Horse Power (HHP) and ECO Mode. ECO Mode reduces fuel consumption up to 15% with no loss in digging or lifting forces

Technology

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

New Appearance

- The 330D2 L machine has a stylish modern look



Engine

Built for power, reliability and economy.

Reliable Cat C7.1 Engine

The Cat C7.1 engine has been designed to meet EPA Tier 3 and EU Stage III emission regulations. The C7.1 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.

An ECO-Mode feature helps to reduce fuel consumption by up to 15 percent for fuel-conscious customers with no loss in digging or lifting forces.

Automatic Engine Control

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

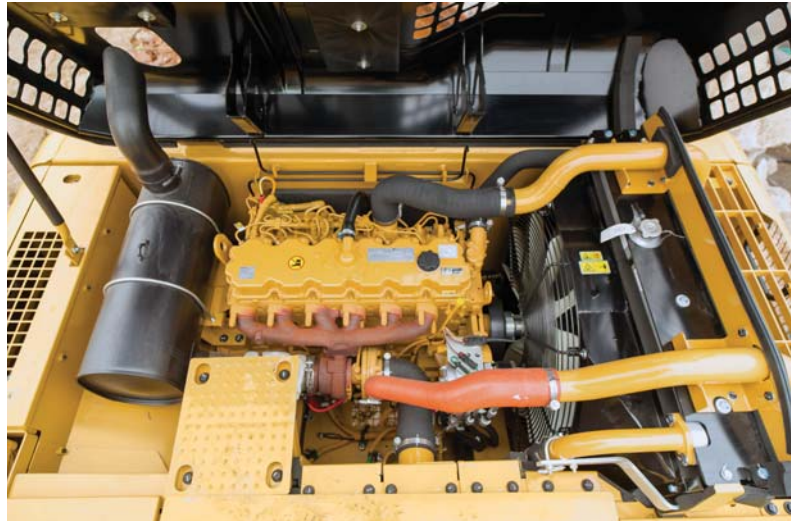
Air Cleaner

The radially sealed air filter features a double-layered filter core for more efficient filtration and is located in a compartment behind the cab.

A warning is displayed on the monitor when dust accumulates above a preset level.

Filtration System

The 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 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.



ROPS Certified Operator Station

The 330D2 L features a ROPS (Roll Over Protective Structure) compliant cab structure as standard which meets OSHA and MSHA sound requirements.

This design also allows for a Falling Object Guard System (FOGS) or front windshield guard to be bolted directly to the cab, either at the factory or in the field, enabling the machine to meet all job site requirements.

Monitor

The new monitor features a 40 percent larger screen than the previous model's and is equipped with a warning lamp and buzzer for critical engine oil pressure, coolant temperature and oil temperature.

Programmable in up to 42 languages, the monitor clearly displays critical information including filters and fluid change intervals and the image from the optional rearview camera, enhancing job site productivity and safety.



Seat

The suspension seat provides 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

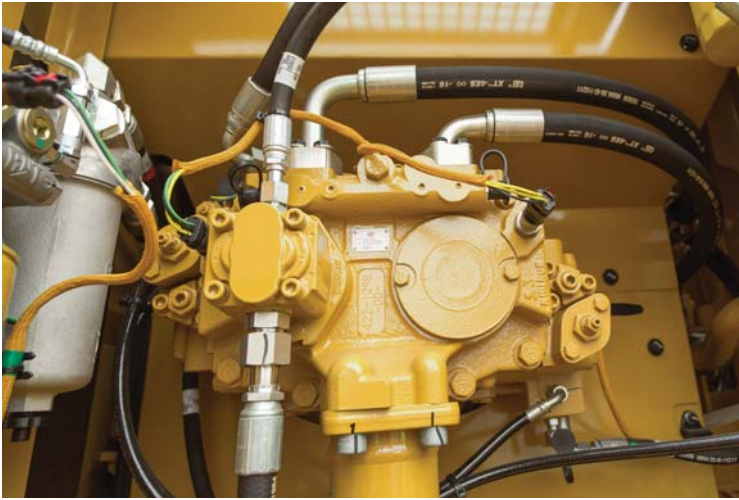
The 330D2 L offers positive filtered ventilation with a pressurized cab. Fresh air or recirculated air can be selected, which makes working in the heat and cold much more pleasant.

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.

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.

The Standard and HD reach booms have four 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, engine oil 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

Conveniently located grease blocks help you get lube in hard-to-reach places, making routine boom, stick, and bucket linkage maintenance quick and easy.

Fan Guard

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

Anti-Skid Plate

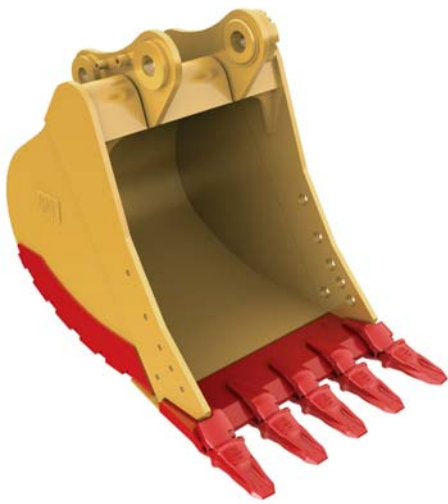
Anti-skid plate covers top of storage box and upper structure to prevent slipping during maintenance.

Diagnostics and Monitoring

The 330D2 L is equipped with S-O-SSM ports to easily sample hydraulic and engine oil quality. Test ports are also conveniently located so you can test coolant and hydraulic pressure.

Work Tools

Dig, hammer, rip, and cut with confidence.



①

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 (SD)

For higher abrasion conditions such as well shot granite and caliche.

Example: Digging conditions where tip life ranges from 200 to 400 hours with Penetration Plus tips.



②

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.

Center-Lock™ Pin Grabber Coupler

Center-Lock is the pin grabber style coupler and features a patent-pending locking system. A highly visible secondary lock clearly shows the operator when the coupler is engaged or disengaged from the bucket or work tool.

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

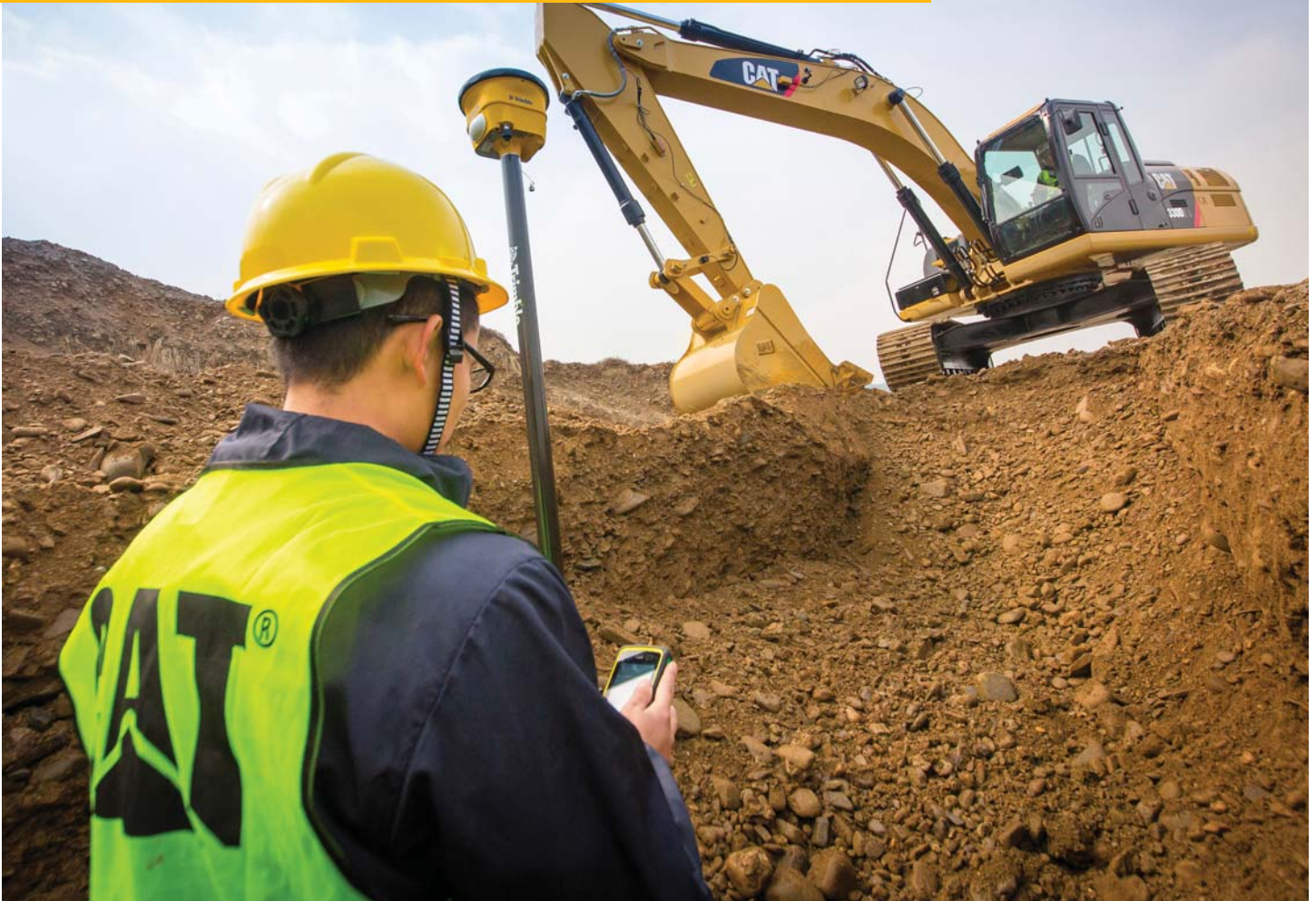
The hydraulic concrete crusher has taken modern demolition technology a step further. It is well suited for concrete demolition in residential areas. The hydraulic concrete crusher combines several concrete demolition operations in one piece of equipment:

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



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.

Cat Connect DETECT Technologies

DETECT technologies combine safety features, functionalities and alerts to enhance your job site awareness and keep your people and assets safe.

Rearview Camera

Rear vision cameras greatly enhance visibility behind the machine, helping the operator work more safely and productively. The camera view is automatically displayed on the integrated in-cab monitor increasing awareness of the working area around the machine giving the operator the confidence to work more safely and efficiently, at maximum potential.

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

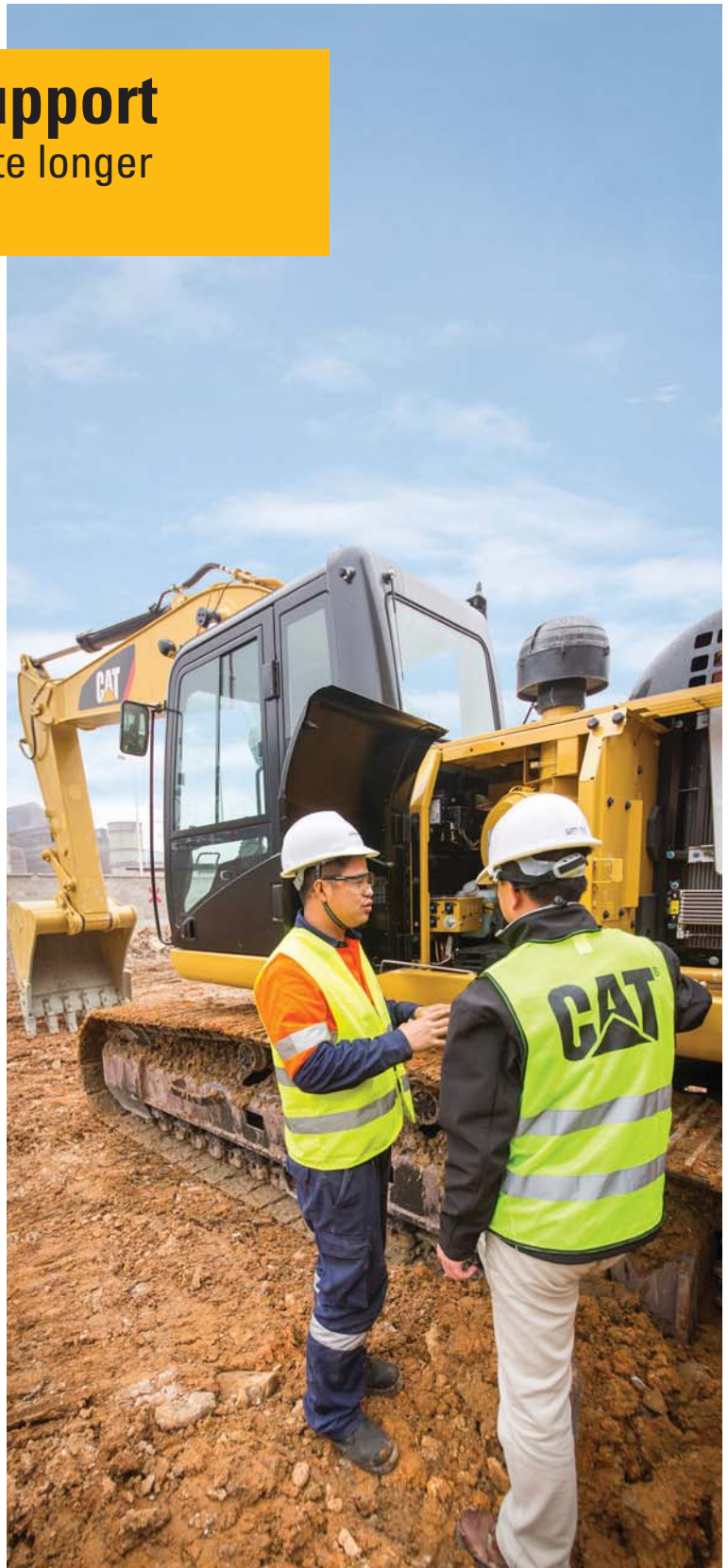
Cat dealers offer a variety of customer support agreements and work with you to develop a plan to meet your specific needs. These plans can cover the entire machine, including attachments, to help protect your investment.

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 ATAAC	
Type	Direct Injection	
Engine Power (ISO 14396)	159 kW	213 hp
Net Power (SAE J1349/ISO 9249)	156 kW	209 hp
Displacement	7.1 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 engine meets EPA Tier 3, EU Stage III emission regulations.
- 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*	28 925 kg	63,770 lb
Maximum Operating Weight**	30 375 kg	66,970 lb

- *6.15 m (20'2") HD reach boom, R2.65CB2 (8'8") stick, 1.54 m³ (2.02 yd³) 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 m³ (2.02 yd³) 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

Sound Performance

ISO 6396 – Operator Noise (Closed)	71 dB(A)	
ISO 6395 – Spectator Noise	104 dB(A)	

Standards

Brakes	SAE J1026/APR90	
Cab/FOGS	SAE J1356 FEB88	
	ISO 10262	
Cab/ROPS	ISO 12117-2:2008	

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

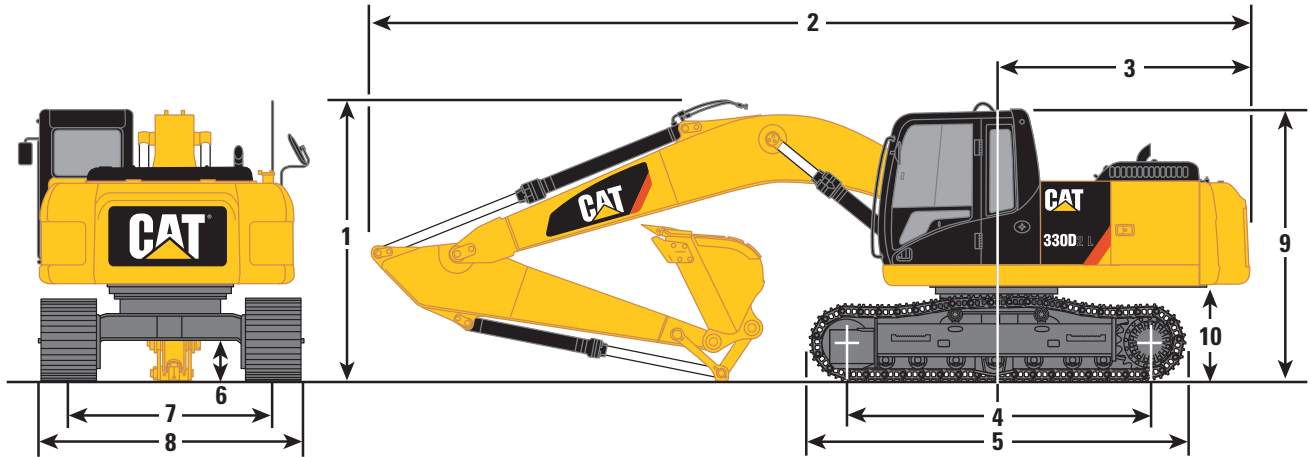
Hydraulic System

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

330D2 L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



Reach Boom*
6.15 m (20'2")

Stick Type	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")
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 m ³ (2.01 yd ³)	1.54 m ³ (2.01 yd ³)
Bucket Tip Radius	1690 mm (5'7")	1690 mm (5'7")

*HD Reach boom is same as Reach boom.

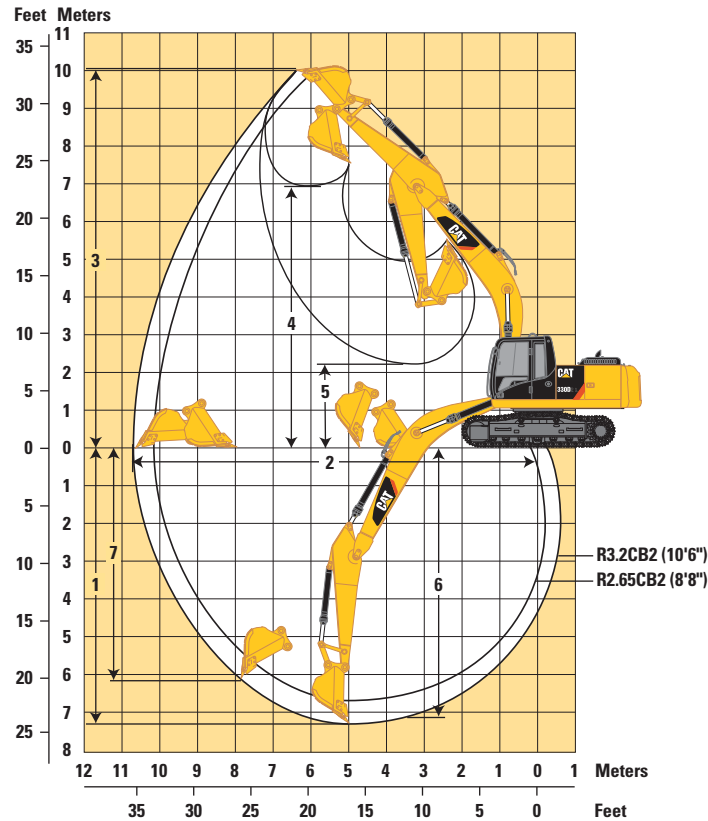
**Including shoe lug height.

***Without shoe lug height.

330D2 L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



	Reach Boom*	
	6.15 m (20'2")	
Stick Type	3.2 m (10'6")	2.65 m (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 m ³ (2.01 yd ³)	1.54 m ³ (2.01 yd ³)
Bucket Tip Radius	1690 mm (5'7")	1690 mm (5'7")

*HD Reach boom is same as Reach boom.

330D2 L Hydraulic Excavator Specifications

Operating Weight and Ground Pressure

Boom	Reach	Reach (HD)
Stick	R2.65	R3.2HD
Total Weight (600 TG)	27 924 kg (61,433 lb)	28 424 kg (62,533 lb)
Total Weight (800 TG-LC)	29 879 kg (65,734 lb)	30 379 kg (66,834 lb)
Ground Pressure		
Long Undercarriage		
800 mm (31") TG (LC)	42.6 kPa (6.2 psi)	43.3 kPa (6.3 psi)
600 mm (24") TG (LC)	55.0 kPa (8.0 psi)	55.9 kPa (8.1 psi)
600 mm (24") DG (LC)	55.8 kPa (8.1 psi)	56.7 kPa (8.2 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 for Standard Undercarriage

Base Machine – Includes: Boom Cylinders, Pins, Fluids	7030 kg (15,500 lb)
Full Fuel Tank	430 kg (950 lb)
Counterweight	5860 kg (12,920 lb)
Boom (includes lines, pins, and stick cylinder)	
Reach Boom – 6.15 m (20'2")	2270 kg (5,000 lb)
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 (8'8")	1270 kg (2,800 lb)
Undercarriage	
Long Undercarriage	6630 kg (14,620 lb)
Tracks (Long Undercarriage)	
600 mm (24") TG shoe	3580 kg (7,890 lb)
600 mm (24") DG shoe	4000 kg (8,820 lb)
800 mm (31") TG shoe	4540 kg (10,010 lb)

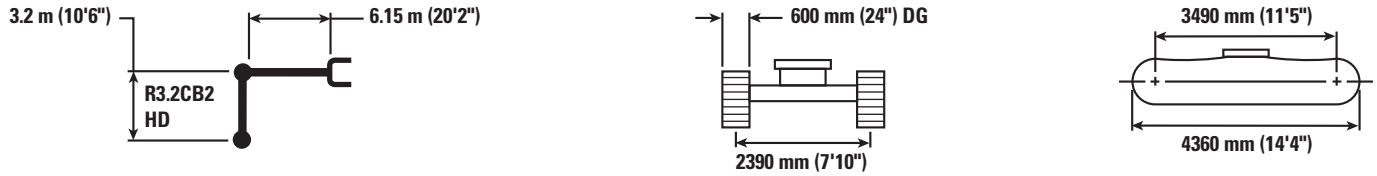
Bucket and Stick Forces
















Stick Type	Reach Boom* 6.15 m (20'2")	
	R3.2 HD (10'6")	R2.65 (8'8")
Bucket Capacity	1.54 m³ (2.01 yd³)	1.54 m³ (2.01 yd³)
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)

*Reach and HD Reach booms.

330D2 L Hydraulic Excavator Specifications

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	5050 10,750				*4850 *10,650	4250 9,450	8.23 27.0
4.5 m 15.0 ft	kg lb							*8200 *17,800	6950 14,950	6950 14,900	4900 10,500				*4800 *10,550	3700 8,200	8.83 29.0
3.0 m 10.0 ft	kg lb					*12 650 *27,200	9950 21,450	9500 20,400	6550 14,100	6700 14,450	4700 10,100	5050 3500			4950 *10,850	3400 7,550	9.14 30.0
1.5 m 5.0 ft	kg lb					14 150 30,450	9200 19,800	9050 19,500	6150 13,250	6500 14,000	4500 9,650	4950 10,650	3400 7,350		4800 10,550	3300 7,300	9.19 30.2
0 m 0 ft	kg lb					13 750 29,450	8800 18,950	8750 18,850	5900 12,700	6350 13,650	4350 9,300				4900 10,750	3350 7,400	8.99 29.5
-1.5 m -5.0 ft	kg lb	*6300 *14,050	*6300 *14,050	*9950 *22,600	*9950 *22,600	13 600 29,200	8700 18,700	8650 18,600	5750 12,450	6250 13,450	4250 9,150			5250 11,600	3600 7,950	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	13 700 29,400	8800 18,900	8650 18,650	5800 12,500	6300 13,600	4300 9,300			6050 13,400	4150 9,200	7.74 25.4	
-4.5 m -15.0 ft	kg lb			*17 550 *37,700	*17 550 *37,700	*12 850 *27,600	9000 19,450	8850 19,150	6000 12,950					7900 17,700	5400 12,050	6.52 21.4	



ISO 10567



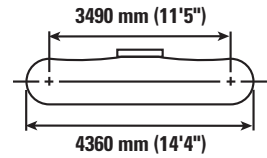
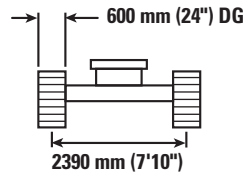
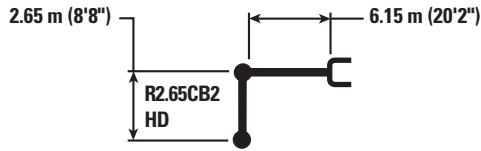
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






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	15,600			*6700	6100	6.67 21.9
6.0 m 20.0 ft	kg lb					*8000	7200	7050	5000	*6300	4750	7.70 25.3
4.5 m 15.0 ft	kg lb			*11 050	10 650	*9000	6900	6950	4900	5850	4100	8.34 27.4
3.0 m 10.0 ft	kg lb			*13 900	9800	9450	6550	6750	4700	5400	3800	8.67 28.4
1.5 m 5.0 ft	kg lb			14 150	9200	9100	6200	6550	4550	5250	3650	8.72 28.6
0 m 0 ft	kg lb			13 900	8950	8850	6000	6450	4450	5400	3750	8.51 27.9
-1.5 m -5.0 ft	kg lb	*9700	*9700	13 850	8950	8800	5950	6400	4400	5850	4050	8.02 26.3
-3.0 m -10.0 ft	kg lb	*18 250	17 800	14 000	9050	8850	6000			6900	4750	7.18 23.6
-4.5 m -15.0 ft	kg lb	*15 350	*15 350	*11 650	9350					*8450	6550	5.83 19.1



ISO 10567



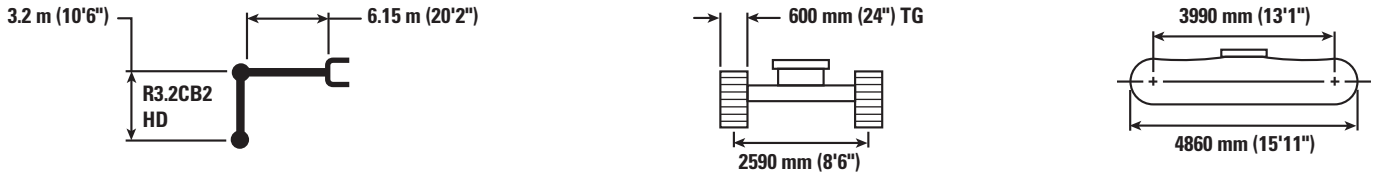
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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



		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



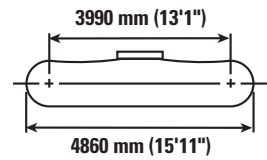
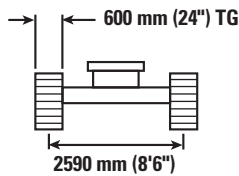
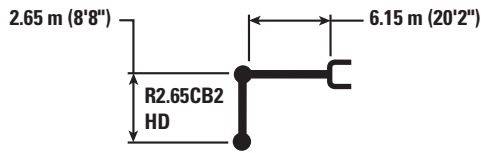
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








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.

330D2 L Hydraulic Excavator Specifications

Work Tool Offering Guide*

Boom Type	Reach Boom		HD Reach Boom	
	6.15 m (20'2")		6.15 m (20'2")	
Stick Size	R3.2 (10'6")	R2.65 (8'8")	R3.2 HD (10'6")	R2.65 HD (8'8")
Hydraulic Hammer	H120Es H130Es H140Es	H120Es H130Es H140Es	H120Es H130Es H140Es	H120Es H130Es, B30 H140Es
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	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	P325 ^^	P325
Pulverizer	P225	P225	P225 ^^	P225
Demolition & Sorting Grapple	G320B G325B ***	G320B G325B	G320B G325B ***	G320B G325B ^^
Mobile Scrap & Demolition Shear	S320B S325B *** S340B ##	S320B S325B S340B ##	S320B S325B *** S340B ##	S320B S325B ^^ S340B ##
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110	CVP110
Orange Peel Grapple				
Thumbs				
Rakes				
Center-Lock Pin Grabber Coupler				
Dedicated Quick Coupler				

These work tools are available for the 330D2 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 coupler

*** Pin On only

Over the front only

Boom mount

^ Over the front only with CW coupler

^^ Over the front only with CL coupler

330D2 L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	330D2 L			
									HD Reach Boom			
									6.15 m (20'2")			
									Stick			
									3.2 HD (10'6")		2.65 HD (8'8")	
									Shoes			
									600 mm (24")	800 mm (31")	600 mm (24")	800 mm (31")
Without Quick Coupler												
Heavy Duty (HD)	CB	1200	48	1.33	1.74	1095	2413	100	☉	●	●	●
	CB	1250	49	1.33	1.74	1130	2,491	100	☉	☉	●	●
	CB	1350	54	1.54	2.02	1188	2,618	100	☉	☉	☉	●
	CB	1400	55	1.54	2.02	1230	2,712	100	☉	☉	☉	☉
Severe Duty (SD)	CB	1350	54	1.45	1.90	1286	2,834	90	☉	☉	●	●
	CB	1400	56	1.54	2.02	1355	2,985	90	☉	☉	☉	●
	DB	1400	56	1.64	2.14	1643	3,621	90				
Maximum load pin on (payload + bucket)								kg	3635	3782	4119	4277
								lb	8,012	8,336	9,078	9,427
With Pin Grabber Coupler												
Heavy Duty (HD)	CB	1200	48	1.33	1.74	1095	2,413	100	☉	☉	☉	●
	CB	1250	49	1.33	1.74	1130	2,491	100	☉	☉	☉	☉
	CB	1350	54	1.54	2.02	1188	2,618	100	○	○	☉	☉
	CB	1400	55	1.54	2.02	1230	2,712	100	○	○	☉	☉
Severe Duty (SD)	CB	1350	54	1.45	1.90	1286	2,834	90	○	☉	☉	☉
	CB	1400	56	1.54	2.02	1355	2,985	90	○	○	☉	☉
	DB	1400	56	1.64	2.14	1643	3,621	90				
Maximum load with coupler (payload + bucket)								kg	3130	3277	3614	3772
								lb	6,900	7,224	7,966	8,315

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

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

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

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

330D2 L Standard Equipment

Standard Equipment

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

ENGINE

- C7.1 electronic control engine
- Meets EU Stage III and EPA Tier 3 emission regulations
- 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)
- Starting kit, cold weather, <-32° C (-26° 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)
- 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
- Fine swing control
- Capability of installing additional valves, pumps, circuits
- Cat bio-oil capability

CAB

- Pressurized cab
- Mechanical or air suspension seat
- Positive filtered ventilation
- Adjustable armrest
- Seat belt, retractable (51 mm [2 in] or 76 mm [3 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
- 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

UNDERCARRIAGE

- Idler and center section track guiding guards
- 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

SAFETY AND SECURITY

- Cat one key security system
- Door and compartment locks
- Signaling/warning horn
- Rearview mirrors
- Rearview camera ready
- 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

TECHNOLOGY

- Product Link

Optional Equipment

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

HYDRAULIC SYSTEM

- Boom and stick high pressure lines
- Boom and stick medium pressure lines
- Boom and stick QC lines
- Tool control system
- Hammer circuit, foot pedal operated
- Two way combined circuit, foot pedal operated
- Two way combined circuit, joystick modulation operated
- Two way combined circuit with medium pressure, joystick modulation operated
- Heavy lift mode
- Boom lowering control device
- Stick lowering control device for Reach Boom and Mass Boom

CAB

- 12V-10A power supply
- Sun screen
- Radio 12V and 24V
- Travel alarm
- Falling Objects Guarding System (FOGS)
- Rearview camera and mirrors
- Control pattern quick-changer

UNDERCARRIAGE AND GUARDS

- Standard undercarriage and long undercarriage
- 600 mm (24 in) double grouser shoes
- 600 mm (24 in) triple grouser shoes
- 800 mm (31 in) triple grouser shoes
- Segmented track guiding guard (two pieces)
- Full length track guiding guard
- Swing frame with bumper capability
 - (HD) bottom
 - (HD) travel motor
 - Swivel guard

FRONT LINKAGE

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

LIGHTS

- Cab mounted working lights
- Right mounted boom light for reach boom

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

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