

# 330D2 L

Hydraulic Excavator  
2017



## Engine

Engine Model	Cat® C7.1 ACERT™	
Engine Power (ISO 14396)	159 kW	213 hp
Net Power (SAE J1349/ISO 9249)	157 kW	211 hp

## Weights

Minimum Operating Weight	28 980 kg	63,890 lb
Maximum Operating Weight	30 310 kg	66,810 lb

***The Cat 330D2 L, combined with a new highly efficient hydraulic system, delivers excellent performance with lower fuel consumption and is designed and built for a variety of applications; from quarry to industrial material handling to construction, and more. It is powerful, reliable, and durable with great productivity and versatility, making it an ideal machine to meet your job site needs.***



## **Contents**

Key Features .....	4
Engine .....	6
Operator Station.....	7
Hydraulics .....	8
Undercarriage and Structures .....	9
Front Linkage .....	10
Service and Maintenance .....	11
Attachments.....	12
Cat Connect Technologies.....	14
Safety .....	16
Complete Customer Support.....	17
Specifications.....	18
Standard Equipment.....	31
Optional Equipment.....	32
Notes.....	33



**The 330D2 L comes with a number of new developments and features, including engine speed control, a new fuel filtration system, and a built-in economy mode to help decrease fuel consumption up to 15% (as compared to 329D L U.S. EPA Tier 2, EU Stage II equivalent). A variable-speed fan with viscous clutch reduces noise and saves energy.**



# Key Features

World class design combines excellent performance with low fuel consumption and top reliability



## Performance/Efficiency

- Fuel efficiency improved by pump and engine speed control
- Less maintenance, faster starts with electric fuel priming pump
- Long undercarriage to maximize stability and lift capacity
- Variable-speed fan to reduce noise and save energy

## Ease of Operation

- Ergonomically designed cab with easy-to-operate controls
- Multiple seat and joystick adjustment options to enhance comfort
- Excellent work site visibility from the cab to enhance productivity
- Optimized low-effort joystick controls to reduce operator fatigue
- Monitor with larger viewing screen, higher resolution and 42 language options

## Reliability/Serviceability

- The C7.1 ACERT engine robust fuel system boasts improved reliability as it's less sensitive to low quality fuel
- Strong, durable structure designed to work in the toughest operating conditions
- Electrical wires colored, numbered and protected with thick braiding for ease of identification and durability
- Heavy-duty booms and sticks standard and stress relieved for added durability
- Grease and Lubricated Tracks (GLT) for longer life

## Reduced Costs

- Improved filtration efficiency and system robustness
- 500 hour service intervals for more uptime
- Two power modes: high horsepower and eco mode

## Technology

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



# Engine

Powerful, reliable, durable in your applications

## Reliable Cat C7.1 ACERT Engine

The Cat C7.1 ACERT engine meets U.S. EPA Tier 2, EU Stage II equivalent emission standards. The engine incorporates 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 reduced fuel consumption.

## Isochronous Control

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 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.

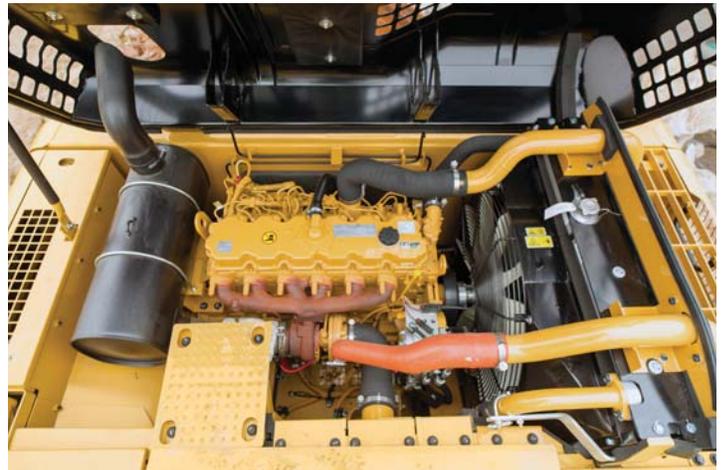
A warning is displayed on the monitor when dust accumulates above a preset level. An air precleaner reduces the amount of dust and debris that enter the air intake system to help maximize engine performance by extending air filter life.

## Electric Priming Pump

This pump reduces the risk of fuel contamination by preventing unfiltered fuel from being backfilled during filter changes.

## Variable-Speed Fan

The variable-speed fan reduces fuel consumption and noise.



## Filtration System

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

# Operator Station

Comfort and convenience to keep you productive all day long



## Monitor

The monitor is a full-color Liquid Crystal Display (LCD) that has the capability of displaying information in 42 languages to meet today's diverse workforce.

The LCD monitor is equipped with a warning lamp and buzzer for critical engine oil pressure, coolant temperature, and oil temperature. 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 to further enhance your job site safety and productivity.

## Seat

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

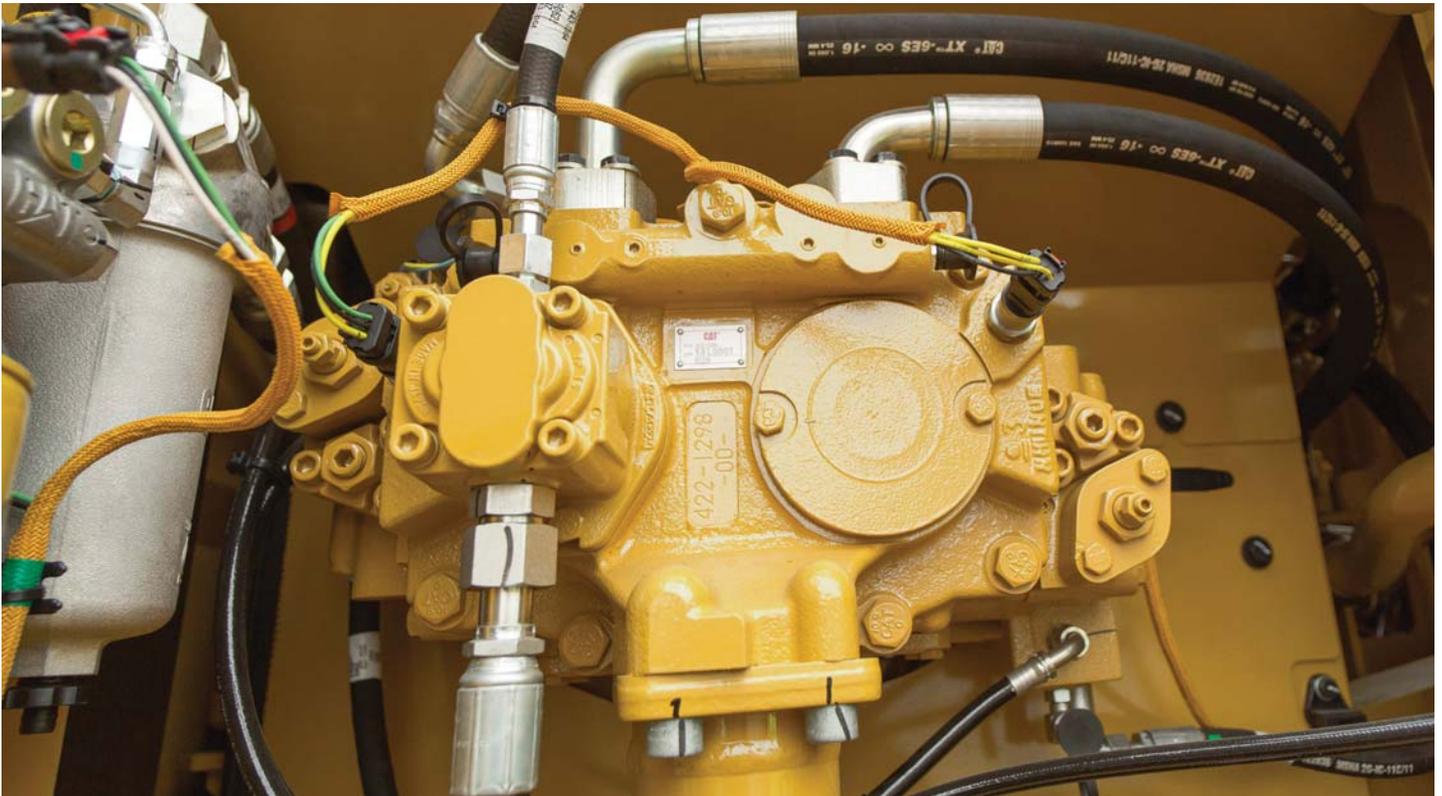
The 330D2 L offers positive filtered ventilation with a pressurized cab. Fresh air or recirculated air can be selected, which makes working in the heat and cold much more pleasant.

## Cab Structure and Mounts

The cab shell is attached to the frame with viscous rubber cab mounts that 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

Precise power and control to move more material



## 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 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.

## 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.

## 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

Designed to work in your toughest, heavy-duty applications

### 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

The X-shaped, box-section carbody provides excellent resistance to torsional bending. Robot-welded track roller frames are press-formed pentagonal units that 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

Long undercarriage maximizes stability and lift capacity.

### Tracks

The 330D2 L track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise, and extend service life to lower 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 durability 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. 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 HD stick
- R2.65 (8'8") CB2 HD stick with rebar

Sticks with rebars provide excellent protection in applications such as rocky material handling, greatly extending the life of sticks.

## Mass Boom Front Linkage

The mass excavation (ME) front linkage is designed to maximize machine performance through superior digging forces and a larger bucket capacity. The 5.55 m (18'3") mass excavation boom is reinforced with a large cross section and internal baffle plates for long life and durability.

- M2.5DB (8'2") stick

# Service and Maintenance

Designed to make your maintenance quick and easy



## 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.

## Diagnostics and Monitoring

The 330D2 L is equipped with S-O-S<sup>SM</sup> sampling ports and hydraulic test ports for the hydraulic system, engine oil, and for coolant.

# Attachments

Do more jobs with one machine



1



2



3



3



4



4

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 – General Duty Buckets (GD)

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

### 2 – 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.

### 3 – Severe Duty Buckets (SD)

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

### 4 – Extreme Duty Buckets (XD)

These buckets are for high-abrasion conditions, including high quartzite granite.

Example: Digging conditions where tip life is less than or equal to 200 hours with Extra Duty tips.

## 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, and 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. They have optimized tool length and design, and high-grade steel and heat treatment provide 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.

### 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



# Cat Connect 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 and giving the operator the confidence to work more safely and efficiently at maximum potential.



# Safety

Features to help keep you safe day in and day out.

**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.

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

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



# Complete Customer Support

## Unmatched support makes the difference

### 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	Electronic Control Fuel Injection	
Engine Power (ISO 14396)	159 kW	213 hp
Net Power (SAE J1349/ISO 9249)	157 kW	211 hp
Displacement	7.01 L	428 in <sup>3</sup>
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Engine rpm		
Operation	1,700 rpm	
Travel	1,800 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 Tier 2, Stage II 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.
- Full engine net power up to 3000 m (9,842 ft) altitude (engine derating required above 3000 m [9,842 ft]).
- Power rating at 1,800 rpm.

## Weights

Minimum Operating Weight*	28 980 kg	63,890 lb
Maximum Operating Weight**	30 310 kg	66,810 lb

\*Long undercarriage, 6.15 m (20'2") HD reach boom, R2.65CB2 (8'8") HD stick with rebars, 1.54 m<sup>3</sup> (2.02 yd<sup>3</sup>) bucket, 600 mm (24") triple grouser track shoes

\*\*Long undercarriage, 5.55 m (18'3") Mass boom, M2.5DB (8'2") stick, 2.12 m<sup>3</sup> (2.77 yd<sup>3</sup>) bucket, 800 mm (32") triple grouser track shoes

## Swing Mechanism

Swing Speed	9.6 rpm	
Maximum Swing Torque	105 kN·m	77,350 lbf-ft

## Sound Performance

Operator Sound (ISO 6396)	71 dB(A)	
Spectator Sound (ISO 6395)	104 dB(A)	

## Standards

Brakes	ISO 10265:2008	
Cab/FOGS	SAE J1356 MAR2013 ISO 10262:1998	

## Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	5.3 km/h	3.4 mph
Maximum Drawbar Pull	248 kN	55,753 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

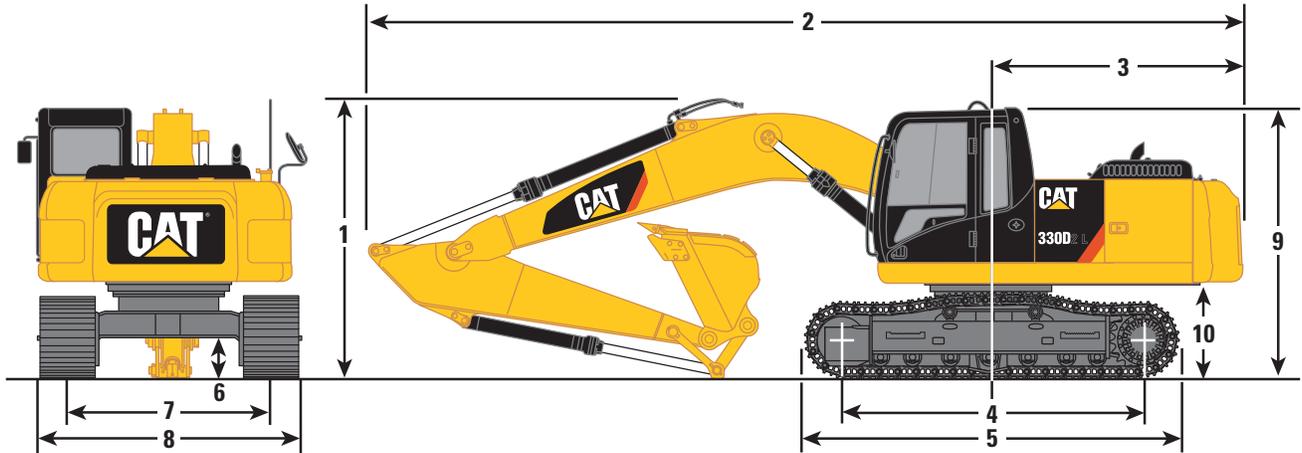
## Hydraulic System

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 psi
Maximum Pressure – Travel	35 MPa	5,076 psi
Maximum Pressure – Swing	27.5 MPa	3,983 psi
Pilot System – Maximum Flow	23.1 L/min	6.1 gal/min
Pilot System – Maximum Pressure	3920 kPa	569 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.



Stick Type	HD Reach Boom 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	R3.2CB2 (10'6") HD	R2.65CB2 (8'8") HD	M2.5DB (8'2")
<b>1</b> Shipping Height*	3330 mm (10'11")	3420 mm (11'3")	3490 mm (11'5")
<b>2</b> Shipping Length	10 360 mm (34'0")	10 370 mm (34'0")	9800 mm (32'2")
<b>3</b> Tail Swing Radius	3080 mm (10'1")	3080 mm (10'1")	3080 mm (10'1")
<b>4</b> Length to Center of Rollers			
Long Undercarriage	3990 mm (13'1")	3990 mm (13'1")	3990 mm (13'1")
<b>5</b> Track Length			
Long Undercarriage	4860 mm (15'11")	4860 mm (15'11")	4860 mm (15'11")
<b>6</b> Ground Clearance**	480 mm (19")	480 mm (19")	480 mm (19")
<b>7</b> Track Gauge			
Long Undercarriage	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
<b>8</b> Transport Width			
Long Undercarriage			
600 mm (24") Shoes	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
700 mm (28") Shoes	3290 mm (10'10")	3290 mm (10'10")	3290 mm (10'10")
800 mm (31") Shoes	3390 mm (11'1")	3390 mm (11'1")	3390 mm (11'1")
<b>9</b> Cab Height*	3040 mm (10'0")	3040 mm (10'0")	3040 mm (10'0")
<b>10</b> Counterweight Clearance**	1100 mm (3'7")	1100 mm (3'7")	1100 mm (3'7")
<b>Bucket Type</b>	SD	SD	HD
<b>Bucket Tip Radius</b>	1690 mm (5'7")	1690 mm (5'7")	1780 mm (5'10")

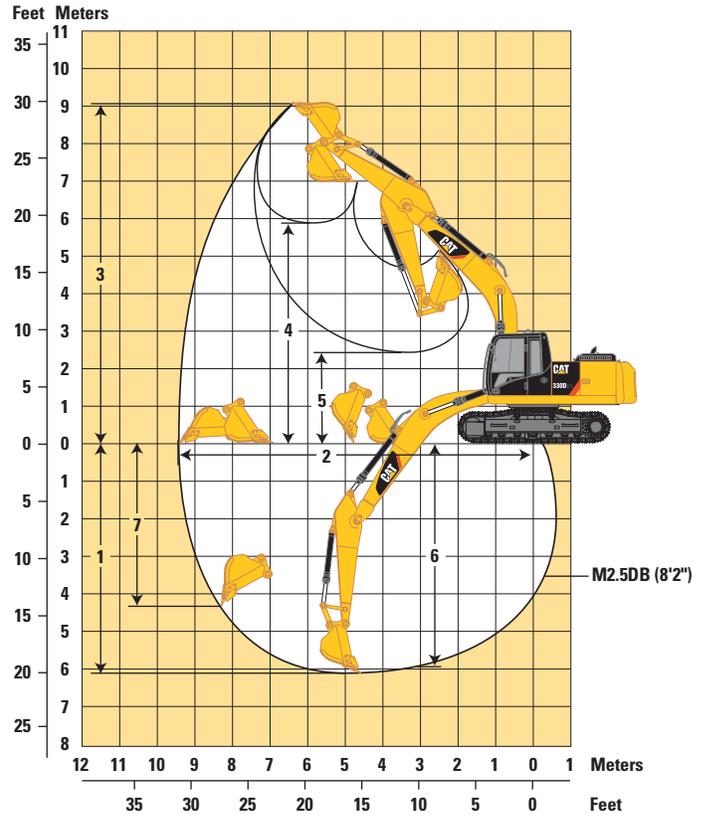
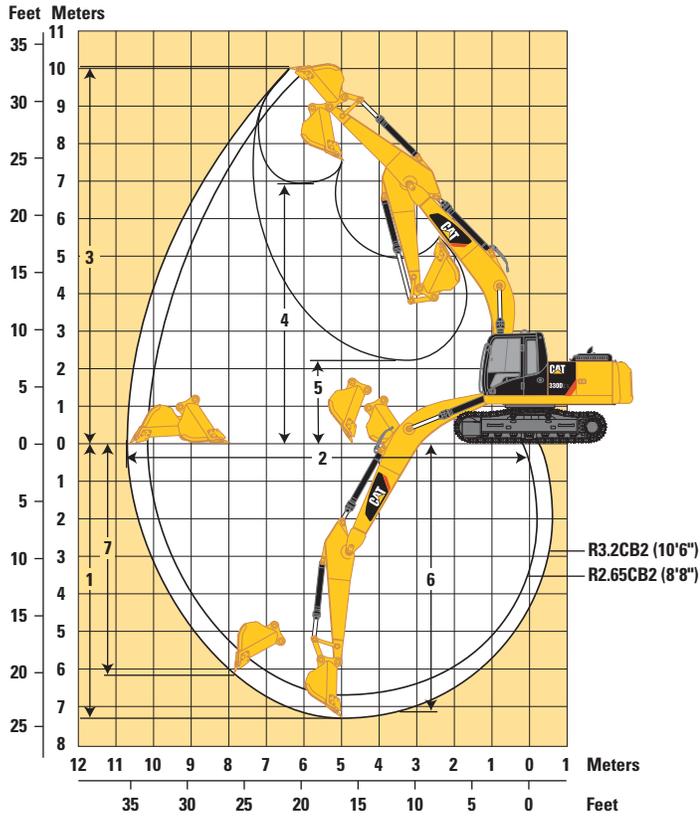
\*Including shoe lug height.

\*\*Without shoe lug height.

# 330D2 L Hydraulic Excavator Specifications

## Working Ranges

All dimensions are approximate.



### HD Reach Boom 6.15 m (20'2")

### Mass Boom 5.55 m (18'3")

Stick Type	3.2 m (10'6")	2.65 m (8'8")	2.5 m (8'2")
<b>1</b> Maximum Digging Depth	7290 mm (23'11")	6740 mm (22'1")	6140 mm (20'2")
<b>2</b> Maximum Reach at Ground Level	10 720 mm (35'2")	10 240 mm (33'7")	9470 mm (31'1")
<b>3</b> Maximum Cutting Height	10 040 mm (32'11")	9930 mm (32'7")	9140 mm (30'0")
<b>4</b> Maximum Loading Height	6900 mm (22'8")	6760 mm (22'2")	5960 mm (19'7")
<b>5</b> Minimum Loading Height	2250 mm (7'5")	2800 mm (9'2")	2430 mm (8'0")
<b>6</b> Maximum Depth Cut for 2440 mm (8'1") Level Bottom	7130 mm (23'5")	6560 mm (21'6")	5950 mm (19'6")
<b>7</b> Maximum Digging (Vertical Wall)	6160 mm (20'3")	5840 mm (19'2")	4290 mm (14'1")
<b>Bucket Type</b>	SD	SD	HD
<b>Bucket Tip Radius</b>	1690 mm (5'7")	1690 mm (5'7")	1780 mm (5'10")

# 330D2 L Hydraulic Excavator Specifications

## Operating Weight and Ground Pressure

	Reach (HD)		Mass
	6.15 m (20'2")	6.15 m (20'2")	5.55 m (18'3")
<b>Boom</b>	6.15 m (20'2")	6.15 m (20'2")	5.55 m (18'3")
<b>Stick</b>	HD R3.2CB2	HD R2.65CB2 with Rebar	M2.5DB
<b>Bucket Capacity</b>	CB1 1.54 m <sup>3</sup> (2.01 yd <sup>3</sup> ) SD	CB1 1.54 m <sup>3</sup> (2.01 yd <sup>3</sup> ) SD	DB 2.12 m <sup>3</sup> (2.77 yd <sup>3</sup> ) HD
<b>Bucket Width</b>	1400 mm (55 in)	1400 mm (55 in)	1700 mm (67 in)
<b>Total Weight</b>			
600 mm (24") TG	29 160 kg (64,280 lb)	28 980 kg (63,880 lb)	29 350 kg (64,690 lb)
600 mm (24") DG	29 580 kg (65,200 lb)	29 400 kg (64,800 lb)	29 770 kg (65,620 lb)
700 mm (28") TG	29 490 kg (65,000 lb)	29 310 kg (64,610 lb)	29 680 kg (65,420 lb)
800 mm (31") TG	30 120 kg (66,390 lb)	29 940 kg (66,000 lb)	30 310 kg (66,810 lb)
<b>Ground Pressure</b>			
600 mm (24") TG	55.4 kPa (8.0 psi)	55.1 kPa (8.0 psi)	55.8 kPa (8.1 psi)
600 mm (24") DG	56.2 kPa (8.2 psi)	55.9 kPa (8.1 psi)	56.6 kPa (8.2 psi)
700 mm (28") TG	48.0 kPa (7.0 psi)	47.8 kPa (6.9 psi)	48.4 kPa (7.0 psi)
800 mm (31") TG	42.9 kPa (6.2 psi)	42.7 kPa (6.2 psi)	43.2 kPa (6.3 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 Undercarriage

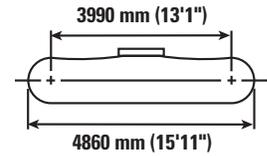
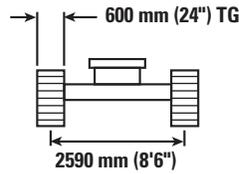
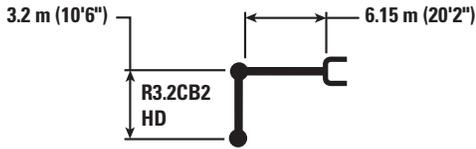
<b>Base Machine – Includes: Boom Cylinders, Pins, Fluids</b>	7030 kg (15,500 lb)
Full Fuel Tank	430 kg (950 lb)
Counterweight	5860 kg (12,920 lb)
Boom (includes lines, pins, and stick cylinder)	
Reach Boom HD – 6.15 m (20'2")	2420 kg (5,340 lb)
Mass Boom – 5.55 m (18'3")	2390 kg (5,270 lb)
Stick (includes 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") with rebars	1430 kg (3,150 lb)
M2.5DB (8'2")	1550 kg (3,420 lb)
Undercarriage	
Long Undercarriage	6630 kg (14,620 lb)
Tracks	
600 mm (24") TG shoe	3580 kg (7,890 lb)
600 mm (24") DG shoe	4000 kg (8,820 lb)
700 mm (28") TG shoe	3910 kg (8,620 lb)
800 mm (31") TG shoe	4540 kg (10,010 lb)

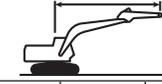
## Bucket and Stick Forces

Stick Type	HD Reach Boom 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	R3.2 HD (10'6")	R2.65 HD (8'8")	M2.5 (8'2")
<b>Bucket Capacity</b>	<b>1.54 m<sup>3</sup> (2.01 yd<sup>3</sup>)</b>	<b>1.54 m<sup>3</sup> (2.01 yd<sup>3</sup>)</b>	<b>2.12 m<sup>3</sup> (2.77 yd<sup>3</sup>)</b>
<b>Cutting Edge</b>			
Bucket Digging Force (ISO)	179 kN (40,152 lbf)	179 kN (40,152 lbf)	211 kN (47,458 lbf)
Stick Digging Force (ISO)	126 kN (28,374 lbf)	145 kN (32,526 lbf)	153 kN (34,334 lbf)
<b>Bucket Tip</b>			
Bucket Digging Force (SAE)	154 kN (34,709 lbf)	154 kN (34,709 lbf)	184 kN (41,417 lbf)
Stick Digging Force (SAE)	122 kN (27,423 lbf)	139 kN (31,263 lbf)	147 kN (33,028 lbf)

# 330D2 L Hydraulic Excavator Specifications

## 330D2 L HD Reach Boom Lift Capacities – Counterweight: 5.9 mt (6.5 t) – Without Bucket Linkage



		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



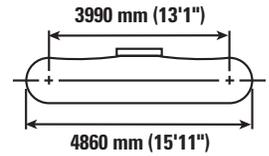
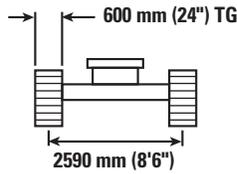
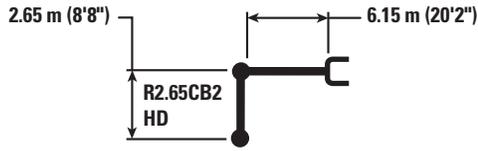
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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



		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	*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



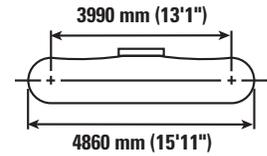
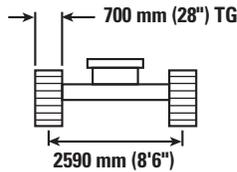
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

## 330D2 L Mass Boom Lift Capacities – Counterweight: 5.9 mt (6.5 t) – Without Bucket Linkage



		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									*7950 *17,650	*7950 *17,650	5.50 18.0
6.0 m 20.0 ft	kg lb					*8800 *19,300	7950 17,100			*7400 *16,300	6600 14,750	6.72 22.0
4.5 m 15.0 ft	kg lb			*11 150 *24,100	*11 150 *24,100	*9450 *20,600	7750 16,650			*7350 *16,150	5500 12,200	7.44 24.4
3.0 m 10.0 ft	kg lb			*13 800 *29,700	11 350 24,450	*10 600 *22,950	7400 15,950	8250 17,750	5300 11,400	*7650 *16,750	5000 11,000	7.81 25.6
1.5 m 5.0 ft	kg lb			*15 950 *34,400	10 700 23,050	11 450 24,550	7100 15,250	8100 17,450	5150 11,100	7550 16,600	4800 10,600	7.87 25.8
0 m 0 ft	kg lb			*16 700 *36,150	10 400 22,350	11 200 24,050	6900 14,800	8000 17,200	5050 10,900	7800 17,200	4950 10,900	7.64 25.1
-1.5 m -5.0 ft	kg lb	*16 400 *37,300	*16 400 *37,300	*16 100 *34,900	10 350 22,250	11 150 23,900	6850 14,700			8700 19,250	5500 12,100	7.08 23.2
-3.0 m -10.0 ft	kg lb	*19 150 *41,450	*19 150 *41,450	*14 050 *30,300	10 500 22,600	*10 150 6950				*9850 *21,700	6800 15,150	6.10 20.0



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\* – Africa, Middle East

Boom Type	HD Reach Boom	Mass Boom
	6.15 m (20'2")	5.55 m (18'3")
Stick Size	HD R2.65 (8'8")	M2.5 (8'2")
Hydraulic Hammer	B30 B35 <sup>^ ^</sup> H140Es H160Es <sup>**</sup>	B30 B35 H140Es H160Es
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 MP30 CC Jaw <sup>^</sup> MP30 CR Jaw <sup>^</sup> MP30 PP Jaw <sup>** #</sup> MP30 PS Jaw <sup>^</sup> MP30 S Jaw <sup>**</sup>
Crusher	P325	P325 P335 <sup>^</sup>
Pulverizer	P225	P225 P235 <sup>^</sup>
Demolition and Sorting Grapple (D-Demolition Shells, R-Recycling Shells)	G320B-D/R G325B-D <sup>^ ^^</sup>	G320B-D/R G325B-D G330 <sup>^</sup>
Scrap and Demolition Shear	S320B S325B <sup>^ ^^</sup> S340B <sup>##</sup>	S320B S325B S340B <sup>##</sup>
Compactor (Vibratory Plate)	CVP110	CVP110
Orange Peel Grapple		
Rippers		
Pin Grabber Coupler	Cat-PG	
Dedicated Quick Coupler	CW45s CW45	

These work tools are available for the 330D2 L.  
Consult your Cat dealer for proper work tool 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.

\*\* Match; Pin-on only

# Work over the front only

## Match; Boom Mount

<sup>^</sup> Work over the front only with Dedicated Quick Coupler (match; Pin-on and Dedicated Quick Coupler)

<sup>^^</sup> Work over the front only with Cat-PG (match; Pin-on, Dedicated Quick Coupler and Cat-PG)

# 330D2 L Hydraulic Excavator Specifications

## Work Tool Offering Guide\* – Asia Pacific (except China)

Boom Type	HD Reach Boom		Mass Boom
	6.15 m (20'2")		5.55 m (18'3")
Stick Size	HD R3.2 (10'6")	HD R2.65 (8'8")	M2.5 (8'2")
Hydraulic Hammer	B30 B35** H140Es H160Es**	B30 B35^ ^^ H140Es H160Es**	B30 B35 H140Es H160Es
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 MP30 CC Jaw^ MP30 CR Jaw^ MP30 PP Jaw** # MP30 PS Jaw^ MP30 S Jaw**
Crusher	P325^ ^^	P325	P325 P335^
Pulverizer	P225	P225	P225 P235^
Demolition and Sorting Grapple (D-Demolition Shells, R-Recycling Shells)	G320B-D/R G325B-D**	G320B-D/R G325B-D^ ^^	G320B-D/R G325B-D G330^
Scrap and Demolition Shear	S320B S325B** S340B##	S320B S325B^ ^^ S340B##	S320B S325B S340B##
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Orange Peel Grapple			
Rippers			
Pin Grabber Coupler	Cat-PG		
Dedicated Quick Coupler	CW45s CW45		

These work tools are available for the 330D2 L.  
Consult your Cat dealer for proper work tool 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.

\*\* Match; Pin-on only

# Work over the front 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

## Work Tool Offering Guide\* – South America and CIS

Boom Type	HD Reach Boom		Mass Boom
	6.15 m (20'2")		5.55 m (18'3")
Stick Size	HD R3.2 (10'6")	HD R2.65 (8'8")	M2.5 (8'2")
Hydraulic Hammer	H140Es H160Es**	H140Es H160Es**	H140Es H160Es
Multi-Processor	MP324 CC Jaw <sup>^</sup> ^^ MP324 D Jaw <sup>^</sup> ^^ MP324 P Jaw <sup>^</sup> MP324 U Jaw <sup>^</sup> ^^ MP324 S Jaw MP324 TS Jaw <sup>^</sup>	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 MP30 CC Jaw <sup>^</sup> MP30 CR Jaw <sup>^</sup> MP30 PP Jaw <sup>**</sup> # MP30 PS Jaw <sup>^</sup> MP30 S Jaw <sup>**</sup>
Crusher	P325 <sup>^</sup> ^^	P325	P325 P335 <sup>^</sup>
Pulverizer	P225	P225	P225 P235 <sup>^</sup>
Demolition and Sorting Grapple (D-Demolition Shells, R-Recycling Shells)	G320B-D/R G325B-D**	G320B-D/R G325B-D <sup>^</sup> ^^	G320B-D/R G325B-D G330 <sup>^</sup>
Scrap and Demolition Shear	S320B S325B** S340B##	S320B S325B <sup>^</sup> ^^ S340B##	S320B S325B S340B##
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Orange Peel Grapple			
Rippers			
Pin Grabber Coupler	Cat-PG		
Dedicated Quick Coupler	CW45s CW45		

These work tools are available for the 330D2 L.  
Consult your Cat dealer for proper work tool 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.

\*\* Match; Pin-on only

# Work over the front only

## Match; Boom Mount

<sup>^</sup> Work over the front only with Dedicated Quick Coupler (match; Pin-on and Dedicated Quick Coupler)

<sup>^^</sup> 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 – Africa, Middle East and CIS

	Linkage							330D2 L – Africa, Middle East				330D2 L – CIS						
		Width		Capacity		Weight		Fill	HD Reach Boom		ME Boom		HD Reach Boom		ME Boom			
									6.15 m (20'2")		5.55 m (18'3")		6.15 m (20'2")		5.55 m (18'3")			
		mm		in		m <sup>3</sup>		yd <sup>3</sup>		kg		lb		Stick		Stick		
														2.65 HD (8'8")		M2.5 (8'2")		2.65 HD (8'8")
Shoes		600 mm (24")		800 mm (31")		600 mm (24")		800 mm (31")		600 mm (24")		800 mm (31")		600 mm (24")		800 mm (31")		
																		Without Quick Coupler
General Duty (GD)	CB	750	30	0.71	0.93	730	1,609	100	●	●			●	●	●	●		
	CB	1050	42	1.12	1.46	864	1,903	100	●	●			●	●	●	●		
	CB	1200	48	1.33	1.74	927	2,044	100	●	●			●	●	●	●		
	CB	1350	54	1.54	2.02	1009	2,224	100	●	●			⊖	⊕	●	●		
	CB	1500	60	1.76	2.30	1074	2,366	100	⊕	⊕								
	DB	1350	53	1.64	2.14	1173	2,585	100			●	●					●	●
	DB	1500	59	1.88	2.46	1275	2,809	100			⊕	●					⊕	●
	DB	1650	65	2.12	2.77	1352	2,979	100			⊖*	⊕					⊖*	⊕*
Heavy Duty (HD)	CB	1350	54	1.54	2.02	1134	2,499	100	⊕	●			⊖	⊕	⊕	●		
	CB	1500	60	1.76	2.30	1229	2,708	100	⊖	⊕			⊖	⊖	⊖	⊕		
	DB	1350	54	1.64	2.14	1447	3,189	100			●	●					●	●
	DB	1500	60	1.88	2.46	1542	3,399	100			⊕	⊕					⊕	⊕
	DB	1650	66	2.12	2.77	1673	3,687	100			⊖*	⊖*					⊖*	⊖*
Severe Duty (SD)	CB	1350	54	1.56	2.04	1245	2,744	90	●	●			⊖	⊕	●	●		
	DB	1500	60	1.91	2.50	1691	3,727	90			⊕	⊕					⊕	⊕
Maximum load pin on (payload + bucket)							kg	4119	4277	4870	5049	3635	3782	4119	4277	4870	5049	
							lb	9,078	9,427	10,733	11,128	8,012	8,336	9,078	9,427	10,733	11,128	
<b>With Quick Coupler (CW45, CW45s)</b>																		
General Duty (GD)	CB	750	30	0.7	0.9	693	1,526	100	●	●			●	●	●	●		
	CB	1350	54	1.5	2.0	1008	2,221	100	⊕	⊕			⊖	⊖	⊕	⊕		
	CB	1500	60	1.76	2.30	1074	2,366	100	⊖	⊖			⊖	⊖	⊖	⊖		
	CB	1650	66	1.97	2.58	1157	2,550	100	⊖	⊖			◇	◇	⊖	⊖		
	DB	1050	41	1.17	1.54	986	2,172	100			●	●					●	●
	DB	1200	47	1.40	1.84	1064	2,345	100			●	●					●	●
	DB	1350	53	1.64	2.14	1142	2,517	100			⊕	●					⊕	●
	DB	1500	59	1.88	2.46	1245	2,745	100			⊖	⊖					⊖	⊕
	DB	1650	65	2.12	2.77	1323	2,917	100			⊖	⊖					⊖	⊖
	Heavy Duty (HD)	CB	1050	42	1.12	1.46	986	2,174	100	●	●			⊕	●	●	●	
CB		1200	48	1.33	1.74	1061	2,338	100	⊕	⊕			⊖	⊖	⊕	●		
CB		1350	54	1.54	2.02	1134	2,499	100	⊖	⊖			⊖	⊖	⊖	⊕		
CB		1500	60	1.76	2.30	1229	2,709	100	⊖	⊖			◇	⊖	⊖	⊖		
CB		1650	66	1.97	2.58	1302	2,869	100	⊖	⊖			◇	◇	⊖	⊖		
DB		750	30	0.73	0.95	973	2,144	100			●	●					●	●
DB		1350	54	1.64	2.14	1417	3,122	100			⊕	⊕					⊕	⊕
DB		1500	60	1.88	2.46	1514	3,337	100			⊖	⊖					⊖	⊖
DB		1650	66	2.12	2.77	1647	3,629	100			⊖	⊖					⊖	⊖
DB		1800	72	2.36	3.08	1746	3,848	100			◇	⊖					◇	⊖
Severe Duty (SD)	DB	1050	42	1.17	1.54	1282	2,826	90			●	●					●	●
	DB	1500	60	1.91	2.50	1661	3,661	90			⊖	⊖					⊖	⊖
	DB	1650	66	2.15	2.81	1802	3,971	90			⊖	⊖					⊖	⊖
Maximum load with coupler (payload + bucket)							kg	3655	3813	4380	4559	3171	3318	3655	3813	4380	4559	
							lb	8,056	8,404	9,654	10,048	6,989	7,313	8,056	8,404	9,654	10,048	

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.

\*Recommended for General Duty application.

### 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.

# 330D2 L Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility – Asia Pacific (except China)

	Linkage	Width		Capacity		Weight		Fill	330D2 L												
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	HD Reach Boom			ME Boom								
										6.15 m (20'2")						5.55 m (18'3")					
										Stick											
										3.2 HD (10'6")			2.65 HD (8'8")			M2.5 (8'2")					
Shoes																					
		600 mm (24")	700 mm (28")	800 mm (31")	600 mm (24")	700 mm (28")	800 mm (31")	600 mm (24")	700 mm (28")	800 mm (31")											
<b>Without Quick Coupler</b>																					
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	3686	3782	4119	4174	4277	4870	4932	5049				
								lb	8,012	8,124	8,336	9,078	9,199	9,427	10,733	10,870	11,128				
<b>With Pin Grabber Coupler</b>																					
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	3181	3277	3614	3669	3772	4312	4374	4491				
								lb	6,900	7,012	7,224	7,966	8,087	8,315	9,503	9,640	9,898				

## Bucket Specifications and Compatibility – South America

	Linkage	Width		Capacity		Weight		Fill	330D2 L												
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	HD Reach Boom			ME Boom								
										6.15 m (20'2")						5.55 m (18'3")					
										Stick											
										3.2 HD (10'6")			2.65 HD (8'8")			M2.5 (8'2")					
Shoes																					
		600 mm (24")	700 mm (28")	600 mm (24")	700 mm (28")	600 mm (24")	700 mm (28")														
<b>Without Quick Coupler</b>																					
Severe Duty (SD)	DB	1350	54	1.66	2.17	1576	3,474	90	●	●											
	DB	1500	60	1.91	2.50	1691	3,727	90	○	○											
Maximum load pin on (payload + bucket)								kg	3635	3686	4119	4174	4870	4932							
								lb	8,012	8,124	9,078	9,199	10,733	10,870							
<b>With Pin Grabber Coupler</b>																					
Severe Duty (SD)	DB	1350	54	1.66	2.17	1576	3,474	90	○	○											
	DB	1500	60	1.91	2.50	1691	3,727	90	○	○											
Maximum load with coupler (payload + bucket)								kg	3130	3181	3614	3669	4312	4374							
								lb	6,900	7,012	7,966	8,087	9,503	9,640							

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<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>)

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 Tier 2, Stage II equivalent 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
- Fuel filtration system (primary ×1, twin main ×2)
- Up to B20 biodiesel fuel capability
- Air-to-air-aftercooler
- Air precleaner

### 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
- Heavy lift mode

### CAB

- Pressurized cab
- Air suspension seat
- Positive filtered ventilation
- Adjustable armrest
- Flexible 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
- 12V-10A power supply
- 12V Radio Ready

### UNDERCARRIAGE

- Long undercarriage
- Idler and 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
- Cab mounted working lights
- Right mounted boom light for reach boom

### 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
- Battery disconnect switch
- Cap locks on fuel and hydraulic tanks
- Lockable tool box

### COUNTERWEIGHT

- 5860 kg (12,920 lb) counterweight

### TECHNOLOGY

- Product Link

# 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

- Boom and stick high pressure lines
- Boom and stick QC lines
- Hammer circuit, foot pedal operated

### CAB

- Travel alarm
- Falling Objects Guarding System (FOGS)
- Rearview camera and mirrors
- Control pattern quick-changer

### UNDERCARRIAGE AND GUARDS

- 600 mm (24 in) double grouser shoes
- 600 mm (24 in) triple grouser shoes
- 700 mm (28 in) triple grouser shoes
- 800 mm (31 in) triple grouser shoes
- Segmented track guiding guard (three pieces)
- Full length track guiding guard
- HD guard package
  - (HD) bottom
  - (HD) travel motor
  - Swivel guard

### REGIONAL CONFIGURATIONS

- S.E. Asia/India/Indonesia/Taiwan
  - Heavy Duty 6.15 m (20'2") reach boom
  - R3.2CB2 (10'6") HD stick
  - R2.65CB2 (8'8") HD stick with rebar
  - Mass boom 5.55 m (18'2") with left side light
  - M2.5 DB (8'2") stick
- 600 mm (24") triple grouser track shoes
- 600 mm (24") double grouser track shoes
- 700 mm (28") triple grouser track shoes
- 800 mm (31") triple grouser track shoes
- South America
  - Heavy Duty 6.15 m (20'2") reach boom
  - R3.2CB2 (10'6") HD stick
  - R2.65CB2 (8'8") HD stick with rebar
  - Mass boom 5.55 m (18'2") with left side light
  - M2.5 DB (8'2") stick
- 600 mm (24") triple grouser track shoes
- 600 mm (24") double grouser track shoes
- 700 mm (28") triple grouser track shoes
- 800 mm (31") triple grouser track shoes
- Middle East, Africa
  - Heavy Duty 6.15 m (20'2") reach boom
  - R2.65CB2 (8'8") HD stick with rebar
  - Mass boom 5.55 m (18'2") with left side light
  - M2.5 DB (8'2") stick
- 600 mm (24") triple grouser track shoes
- 800 mm (31") triple grouser track shoes
- CIS: Russia, Russian Commonwealth
  - Heavy Duty 6.15 m (20'2") reach boom
  - R3.2CB2 (10'6") HD stick
  - R2.65CB2 (8'8") HD stick with rebar
- 600 mm (24") triple grouser track shoes
- 800 mm (31") triple grouser track shoes

### 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 with rebar
- Mass boom 5.55 m (18'2") with left side light
  - M2.5 DB (8'2") stick
  - Bucket linkage with lifting eye







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)

© 2016 Caterpillar  
All rights reserved

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

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

VisionLink is a trademark of Trimble Navigation Limited, registered in the United States and in other countries.

AEHQ7873  
(ADSD-S, AME, CIS, Asia,  
India, Indonesia, TW)

