

315D L

Hydraulic Excavators

CATERPILLAR[®]



JC Machinery

Cat[®] C4.2 ACERT™ Engine

Gross Power

91 kW

122 hp

Net Power (SAE J1349)

86 kW

115 hp

Weights

Operating Weight – Long Undercarriage

17 280 kg

38,095 lb

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315D L Features

Comfortable Operator Station

Spacious and quiet, this world class cab lets the operator focus on performance and production.

Industry Leading Performance

The Cat® C4.2 ACERT™ engine delivers more power for increased digging ability, lifting performance and overall productivity.

Maximum Versatility

Easily configure a large variety of work tools with the Cat Tool Control System.

Proven Reliability

Caterpillar® design and manufacturing techniques provide maximum uptime with outstanding durability and service life.

Low Emissions Engine

Move more material using less fuel with the Cat C4.2 ACERT engine. This meets Tier 3 and EU Stage IIIA emissions while providing additional power and performance.



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Increased horsepower, improved controllability and a comfortable, redesigned operator station help make the Cat® 315D L Hydraulic Excavator an industry-leading performer. Easy to operate with unmatched versatility, the 315D L will help increase productivity and lower operating costs.



Operator Station

New levels of comfort, visibility and operation.

Cab

Experience a spacious, quiet and comfortable operator station. The cab is pressurized to 50 Pa to reduce the amount of dust that enters the cab, keeping the operator comfortable the entire shift, while assuring high productivity during long work days.

- The comfortable seat adjusts to suit the operator's size and weight. Available as an option is the air suspension seat.
- Standard air conditioning with automatic climate control adjusts temperature and airflow.
- Low effort joystick controls are designed to match the operator's natural wrist and arm position. Joysticks can be operated with arms on the armrest. The horizontal and vertical strokes are designed to reduce fatigue.

Prestart Check and Monitor Display

Prior to starting the machine, the system checks for low engine oil, hydraulic oil and engine coolant fluid levels and warns the operator through a color Liquid Crystal Display (LCD) monitor. The LCD monitor displays vital operating and performance information in 27 different languages, for operator convenience.

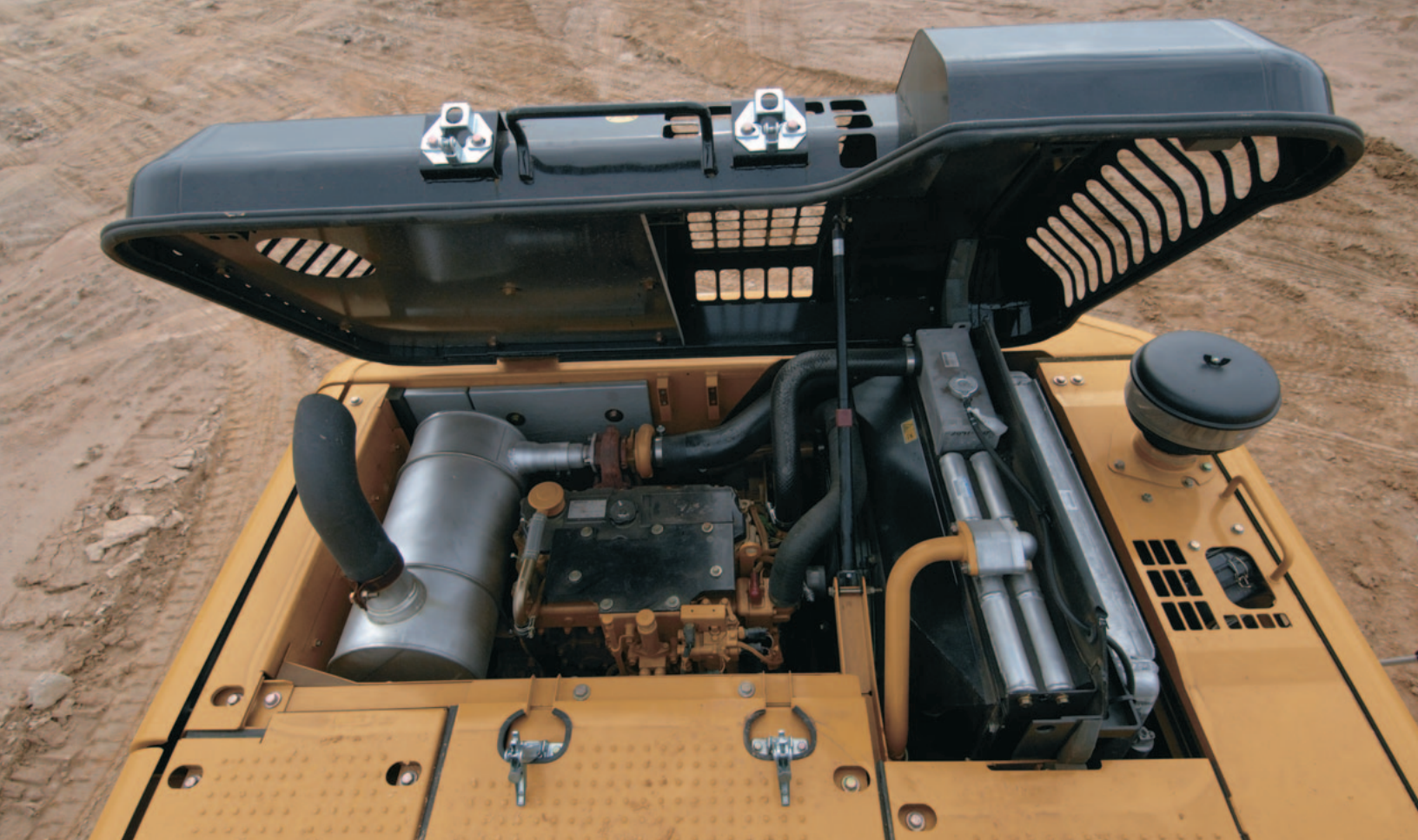
Cab Exterior

The 315D L provides a new cab design that allows the Falling Object Guard System (FOGS) to be bolted directly to the cab, at the factory or as an attachment, enabling the machine to meet specifications and job site requirements. The cab shell is attached to the frame with viscous rubber cab mounts that dampen vibrations and sound levels to enhance operator comfort.

Machine Security System

An optional Machine Security System (MSS) utilizes a programmable key, deterring theft, vandalism and unauthorized usage. MSS uses electronically coded keys selected by the customer to limit usage by individuals or time parameters.





Engine

Clean, quiet operation with superior power.

The Cat C4.2 engine with ACERT technology optimizes performance and meets U.S. EPA Tier 3 and EU Stage IIIA regulations. In conjunction with integrated electronics, ACERT technology reduces emissions during the combustion process by using advanced technology in the air and fuel systems. The Cat C4.2 engine has five percent more power than the former engine, allowing for more hydraulic pressure and increased productivity.

Automatic Engine Control and Fuel Delivery

A three-stage control with one-touch command maximizes fuel efficiency and reduces sound levels. Fuel delivery is managed by the ADEM™ A4 Engine Controller for the best performance per liter (gallon) of fuel used. Flexible fuel mapping allows the engine to respond quickly to varying application needs.

Electronic controls govern the fuel injection system. Multiple injection fuel delivery involves a high level of precision and by precisely shaping the combustion cycle, lowers combustion chamber temperatures, generates fewer emissions and optimizes fuel combustion. This means more work output for your fuel cost.

Crankshaft and Pistons

A forged, one-piece, induction hardened crankshaft enhances balance, decreases vibration and improves abrasion resistance. Heat resistant, aluminum alloy pistons have a short compression height for greater efficiency and longer life.

Economy Mode

Available as a standard feature, economy mode allows you to balance the demands of performance and fuel economy while maintaining the breakout forces and lift capacity enjoyed at standard power.



Hydraulics

High efficiency and performance with low effort and precise control.



Outstanding Performance

With two percent more hydraulic pressure for additional lift and breakout forces, the 315D L hydraulic system is designed for high efficiency and performance. Auxiliary hydraulic and electrical lines are routed to the boom foot making installation of hydraulic circuits much easier. The new compact design utilizes shorter tubes and lines, reducing friction and pressure drops, resulting in a more efficient use of power.

- Hydraulic snubbers at the rod end of the boom cylinders and both ends of the stick cylinders cushion shock, reduce sound and increase cylinder life.
- Flow is reduced to a minimum when controls are in neutral to reduce fuel consumption and extend component life.
- Hydraulic Cross-Sensing System uses two hydraulic pumps to 100 percent of engine power under all operating conditions, improving productivity with faster implement speeds and quicker, stronger pivot turns.
- Improved balance and lift capacity with six percent increase in additional counterweight.

Boom and Stick Regeneration Circuit

The boom and stick regeneration circuit saves energy during boom-down and stick-in operation, increasing efficiency and lowering operating cost.

Easy Operation

Work mode and power mode switches have been eliminated making full power available at all times. Operators do not need to learn different modes, an automatic boom and swing priority function automatically selects the best mode based on joystick movement.



Undercarriage and Structures

Excellent stability and maneuverability.



Caterpillar uses advanced engineering and software to analyze all structures, creating a durable, reliable machine for the toughest applications. More than 70 percent of the structural welds are robotic and achieve additional penetration over manual welds. These structural components and undercarriage are the backbone of the machine's durability.

Carbody Design

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. Integral to the track roller frame are the standard idler and center guards, which help maintain track alignment when traveling or working on slopes.

Grease Lubricated Track

Grease lubricated track seals protect the track link and deliver long track link pin and bushing inner wear life.

Travel Motors

Travel motors with automatic speed selection let the 315D L automatically change up and down from high and low speeds in a smooth, controlled manner.

Front Linkage

Performance, reliability and durability.

Built for performance and long service life, Cat booms and sticks are welded, box-section structures with thick multi-plate high strength steel fabrications. The 315D L offers one boom with four different stick options.

Intermediate Stick

A new 2.9 m (9'6") stick is available to provide long reach and increased digging and lifting capability. When equipped with a coupler or large bucket the new stick will increase overall performance and productivity.

Boom

The boom is designed for maximum digging capability and is robotic welded to ensure consistent quality. This allows excellent all-around versatility and a large working envelope.



Versatility

Do more with Cat Work Tools.

Work Tools

Caterpillar offers a variety of work tools, including Hammers, Thumbs, Grapples, Multi-processors, Shears, Pulverizers, Vibratory Compactors and Rippers to fit your application needs. Additionally a wide range of buckets are available to optimize machine performance.

Auxiliary hydraulic and electrical lines are routed to the boom foot for easier installation of auxiliary hydraulic circuits therefore reducing time, parts and cost required to add a work tool.

Hydraulic Pin Grabber Coupler

An optional hydraulic pin grabber is available to pick up a wide variety of work tools without having to leave the cab, thus maximizing productivity.

Cat K Series™ Tooth System

The Cat K Series™ Tooth System provides more wear material, a longer tip and adapter life, a one-piece vertical drive retainer, reliable tip retention and easy installation and removal, improving performance and penetration.

Enhanced Systems

Work Tool functionality has increased the versatility of the machine with the enhancement of the following:

- A Combined System enables one or two pump flow in one or two directions. With this system only one hydraulic circuit is required.
- The Tool Control system stores up to 10 different tool settings through the in-cab display monitor. Cat work tools are selectable with preset flows and pressures.
- Offered as an option, the Priority Flow system provides one-way hydraulic work tools, such as a mower, priority for hydraulic flow.



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Serviceability

Simplified service and maintenance saves time and money.

Designed with the service technician in mind, many service locations are at ground level so critical maintenance can be done quickly and efficiently. Longer maintenance intervals reduce cost and increase machine availability.

- Oil level gauge, oil filter, fuel filter and priming pump are on the right side of the upper structure for easy maintenance.
- An optional electronic fuel water sensor is available to alert the operator when the water level is high.
- Product Link assists with fleet management by tracking hours, location and product health.
- New anti-skid plates over the top of the storage box and upper structure help prevent slipping and mud from falling into the upper structure.

Sampling Ports

Equipped with S•O•SSM sampling ports and test ports for hydraulics, engine oil and coolant for quick diagnostics. A test connection for the Cat Electronic Technician (Cat ET) service tool is now located in the cab.

Air Cleaner

A double-layered filter core in the radial seal air filter gives more efficient filtration. A warning is displayed on the monitor when dust accumulates above a preset level. This filter is conveniently located in the compartment behind the cab. An optional pre-cleaner is also available to extend filter life and reduce maintenance costs.

Capsule Filter

Capsule-type, hydraulic return filter is accessible from outside the tank and prevents contaminants from entering the system when changing the hydraulic oil.

Radiator Compartment

Horizontal air conditioner condenser swings out for easy cleaning. Removable screens are located in front of the radiator and hydraulic cooler, reducing cleaning time and effort.



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Technology Products

Advanced technologies improve productivity and simplify serviceability.



AccuGrade™ Systems

AccuGrade™ Grade Control Systems are easy to use and deliver a wide range of benefits to customers, including:

- Increased productivity
- Increased job-site safety
- Assistance with labor shortages
- Improved employee satisfaction and retention
- Increased equipment versatility
- Integration into Cat machines

AccuGrade Site Reference System

Advanced slope and elevation guidance simplifies excavation, improves accuracy, increases efficiency and lowers production costs.

AccuGrade Laser Reference System

This system builds on the Site Reference System by using laser receivers to carry benchmark information across a large job site.

AccuGrade GPS System

GPS satellites allow for precise digging and slope control in real-time for increased accuracy and productivity.

E-Ceiling Function

The e-ceiling function limits the operation of the boom, stick and bucket – except for the swing when the height limit has been set in advance. A height limit is set using the LCD monitor in the cab, and must be reset for each bucket. As the bucket is about to exceed that height, the e-ceiling function starts and the bucket's vertical movement is brought to a halt.

Cab Avoidance Function

Once the bucket dimensions have been programmed into the machine, cab avoidance will automatically stop the front linkage and bucket to prevent interference with the cab.





Customer Support

Unmatched support makes the difference.

Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Make detailed comparisons of the machines you are considering before you buy – with estimates of component life, preventive maintenance and the true cost of production.
- Customize the machine that is right for you using the Build and Quote applications on your dealer's website or www.cat.com.
- Get the latest training literature and trained staff.
- Repair option programs guarantee the cost of repairs up front.
- Nearly all parts are available at dealer parts counters.
- Financing packages are flexible to meet your needs.
- Your Cat dealer can evaluate the cost involved in repairing, rebuilding and replacing your machine, so you can make the right choice.



315D L Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.2 ACERT™	
Gross Power	91 kW	122 hp
Net Power	86 kW	115 hp
ISO 9249	86 kW	115 hp
Bore	102 mm	4.02 in
Stroke	130 mm	5.12 in
Displacement	4.25 L	259.3 in ³

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- No engine derating required below 2300 m (7,500 ft) altitude.
- The 315D L meets U.S. EPA Tier 3 and EU Stage IIIA Directive/97/68/EC emissions requirements.

Weights

Operating Weight – 17 280 kg 38,095 lb
Long Undercarriage

- 3100 mm (10'2") stick and 600 mm (24") shoes.

Swing Mechanism

Swing Torque	43 400 N·m	32,010 lb ft
Swing Speed	10.2 rpm	

Drive

Maximum Drawbar Pull	157 kN	35,295 lb
Travel Speed	5.6 km/h	3.5 mph

Hydraulic System

Main Implement System – Maximum Flow (2x)	150 L/min	39.6 gal/min
Maximum Pressure – Implements	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	22 550 kPa	3,271 psi
Pilot System – Maximum Flow	26.2 L/min	6.9 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	110 mm	4.3 in
Boom Cylinder – Stroke	1193 mm	47 in
Stick Cylinder – Bore	120 mm	4.7 in
Stick Cylinder – Stroke	1331 mm	52.4 in
Bucket Cylinder – Bore	100 mm	3.9 in
Bucket Cylinder – Stroke	1048 mm	41 in

Service Refill Capacities

Fuel Tank	300 L	79.3 gal
Cooling System	22 L	5.8 gal
Engine Oil	17.5 L	4.6 gal
Swing Drive	3 L	0.8 gal
Final Drive (Each)	5 L	1.3 gal
Hydraulic System (Including Tank)	190 L	50.2 gal
Hydraulic Tank	106 L	28 gal

Standards

Cab/FOGS	SAE J1356 FEB88 ISO 10262
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Sound Performance

Performance:

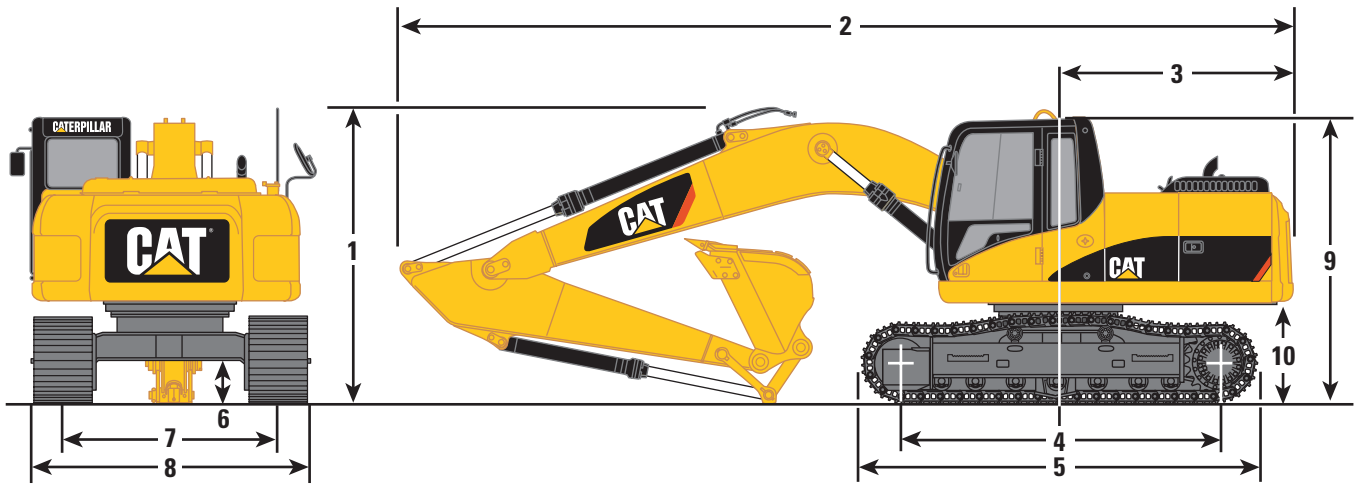
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT 98 is 73 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.



315D L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



Boom Options

Reach 5.1 m (16'9") Reach 5.1 m (16'9") Reach 5.1 m (16'9") Reach 5.1 m (16'9")

Stick Options

R2.25 m (7'5") R2.6 m (8'6") R2.9 m (9'6") R3.1 m (10'2")

1	Shipping Height	2930 mm (9'6")	3030 mm (9'9")	3070 mm (10'1")	3360 mm (11'0")
2	Shipping Length	8520 mm (28'0")	8540 mm (28'0")	8560 mm (28'1")	8540 mm (28'0")
3	Tail Swing Radius	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")
4	Length to Center of Idler and Sprocket	3170 mm (10'5")	3170 mm (10'5")	3170 mm (10'5")	3170 mm (10'5")
5	Track Length	3970 mm (13'0")	3970 mm (13'0")	3970 mm (13'0")	3970 mm (13'0")
6	Ground Clearance	460 mm (1'6")	460 mm (1'6")	460 mm (1'6")	460 mm (1'6")
7	Track Gauge	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
8	Transport Width				
	500 mm (20") shoes (optional)	2490 mm (8'2")	2490 mm (8'2")	2490 mm (8'2")	2490 mm (8'2")
	600 mm (24") shoes (standard)	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
	700 mm (28") shoes (optional)	2690 mm (8'10")	2690 mm (8'10")	2690 mm (8'10")	2690 mm (8'10")
9	Cab Height	2870 mm (9'5")	2870 mm (9'5")	2870 mm (9'5")	2870 mm (9'5")
10	Counterweight Clearance	1030 mm (3'5")	1030 mm (3'5")	1030 mm (3'5")	1030 mm (3'5")



Undercarriage

Caterpillar designed and built track-type undercarriage.

Track Width	Ground Pressure			
	2.25 m (7'5") stick, STD CTWT	2.6 m (8'6") stick, STD CTWT	2.9 m (9'6") stick, STD CTWT	3.1 m (10'2") stick, STD CTWT
500 mm (20") triple grouser	48.5 kPa (7.0 psi)	48.4 kPa (7.0 psi)	48.2 kPa (7.0 psi)	48.2 kPa (7.0 psi)
600 mm (24") triple grouser	41.0 kPa (5.9 psi)	40.9 kPa (5.9 psi)	40.7 kPa (5.9 psi)	40.7 kPa (5.9 psi)
700 mm (28") triple grouser	35.6 kPa (5.2 psi)	35.5 kPa (5.1 psi)	35.4 kPa (5.1 psi)	35.4 kPa (5.1 psi)

Operating Weights

Caterpillar designed and built track-type undercarriage.

Track Width	Operating Weight			
	2.25 m (7'5") stick*	2.6 m (8'6") stick*	2.9 m (9'6") stick	3.1 m (10'2") stick
500 mm (20") triple grouser	16 930 kg (37,331 lb)	16 960 kg (37,397 lb)	17 030 kg (37,551 lb)	17 050 kg (37,595 lb)
600 mm (24") triple grouser	17 160 kg (37,838 lb)	17 190 kg (37,904 lb)	17 250 kg (38,036 lb)	17 280 kg (38,102 lb)
700 mm (28") triple grouser	17 400 kg (38,367 lb)	17 440 kg (38,455 lb)	17 500 kg (38,588 lb)	17 530 kg (38,647 lb)

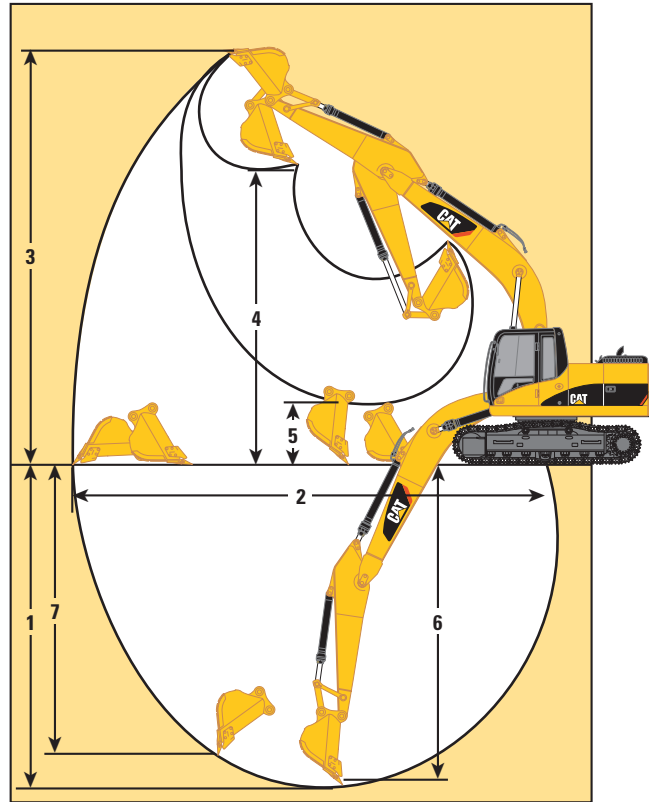
* with SAE 0.61 m³ (0.80 yd³) and standard counterweight



315D L Hydraulic Excavator Specifications

Reach Excavator Working Ranges

Reach (R) boom configuration



Stick Options	R2.25 m (7'5")	R2.6 m (8'6")	R2.9 m (9'6")	R3.1 m (10'2")
Bucket – Long Fixed Undercarriage	0.61 m³ (0.8 yd³)	0.61 m³ (0.8 yd³)	0.61 m³ (0.8 yd³)	0.61 m³ (0.8 yd³)
1 Maximum Digging Depth	5720 mm (18'9")	6070 mm (19'11")	6370 mm (20'11")	6570 mm (21'7")
2 Maximum Reach at Ground Level	8430 mm (27'8")	8750 mm (28'8")	8960 mm (29'5")	9240 mm (30'3")
3 Maximum Cutting Height	8740 mm (28'8")	8920 mm (29'3")	8870 mm (29'1")	8970 mm (29'5")
4 Maximum Loading Height	6140 mm (20'2")	6310 mm (20'8")	6310 mm (20'8")	6600 mm (21'7")
5 Minimum Loading Height	2680 mm (8'10")	2330 mm (7'8")	2030 mm (6'8")	1840 mm (6'0")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5470 mm (17'11")	5840 mm (19'2")	6130 mm (21'0")	6370 mm (20'9")
7 Maximum Vertical Wall Digging Depth	4920 mm (16'2")	5350 mm (17'7")	5360 mm (17'7")	5830 mm (19'1")
Bucket Digging Force (SAE)	100.2 kN (22,526 lb)	100.2 kN (22,526 lb)	100.2 kN (22,526 lb)	100.2 kN (22,526 lb)
(ISO)	114.5 kN (25,741 lb)	114.5 kN (25,741 lb)	114.5 kN (25,741 lb)	114.5 kN (25,741 lb)
Stick Digging Force (SAE)	85.4 kN (19,199 lb)	77.7 kN (17,468 lb)	73 kN (16,411 lb)	69.7 kN (15,669 lb)
(ISO)	88.7 kN (19,941 lb)	80.4 kN (18,075 lb)	75.4 kN (16,951 lb)	71.9 kN (16,164 lb)

All measurements are approximate



Buckets

Buckets have tapered sides, angled corner teeth, dual radius curvature, horizontal wear strips, and holes for optional side cutters.

Excavation Bucket

Width		Capacity		Number of Teeth	Weight with Teeth		Tip Radius	
mm	in	m ³	yd ³		kg	lb	mm	in
617	24	0.35	0.45	3	431	933	1350	53
770	30	0.47	0.62	4	489	1,058	1350	53
922	36	0.61	0.80	5	548	1,186	1350	53
1074	42	0.74	1.02	5	593	1,286	1350	53
1226	48	0.88	1.15	6	651	1,413	1350	53

Width		Capacity		Short Stick		Medium Stick		Long Stick	
mm	in	m ³	yd ³	kg/m ³	lb/yd ³	kg/m ³	lb/yd ³	kg/m ³	lb/yd ³
610	24	0.33	0.43	1800	3,000	1800	3,000	1800	3,000
760	30	0.46	0.60	1800	3,000	1800	3,000	1800	3,000
910	36	0.59	0.78	1800	3,000	1800	3,000	1800	3,000
1070	42	0.73	0.95	1800	3,000	1700	2,850	1400	2,350
1220	48	0.86	1.13	1500	2,500	1300	2,150	1100	1,850

Heavy Duty Rock Bucket

Width		Capacity		Number of Teeth	Weight with Teeth		Tip Radius	
mm	in	m ³	yd ³		kg	lb	mm	in
619	24	0.35	0.45	3	518	1,080	1361	53
770	30	0.47	0.62	4	592	1,239	1361	53
924	36	0.61	0.80	5	666	1,402	1361	53
1076	42	0.74	1.02	5	722	1,528	1361	53
1228	48	0.88	1.15	6	796	1,689	1361	53

Width		Capacity		Short Stick		Medium Stick		Long Stick	
mm	in	m ³	yd ³	kg/m ³	lb/yd ³	kg/m ³	lb/yd ³	kg/m ³	lb/yd ³
620	24	0.33	0.43	1800	3,000	1800	3,000	1800	3,000
770	30	0.46	0.60	1800	3,000	1800	3,000	1800	3,000
930	36	0.59	0.78	1800	3,000	1800	3,000	1700	2,850
1080	42	0.73	0.95	1700	2,850	1500	2,500	1200	2,000
1230	48	0.86	1.13	1400	2,350	1200	2,000	1000	1,650

Material Densities

Material	kg/m ³	lb/yd ³	Material	kg/m ³	lb/yd ³
Clay, dry	1480	2,500	Gravel, pit run	1930	3,250
Clay, wet	1660	2,800	Rock/dirt, 50%	1720	2,900
Earth, dry	1510	2,550	Sand, dry	1420	2,400
Earth, wet	1600	2,700	Sand, wet	1840	3,100
Loam	1250	2,100	Sand and Clay	1600	2,700
Gravel, dry	1510	2,550	Stone, crushed	1600	2,700
Gravel, wet	2020	3,400	Top soil	950	1,600

For densities of other materials see Caterpillar Performance Handbook.



315D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

STICK – 2.25 m (7'5")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 600 mm (24") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	Unit	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side			
7.5 m 25.0 ft	kg lb											*2050 *4,500	*2050 *4,500	5.89 18.86
6.0 m 20.0 ft	kg lb							*2750 *5,450	*2750 *5,450			*1850 *4,100	*1850 *4,100	7.19 23.40
4.5 m 15.0 ft	kg lb					*4300 *9,350	*4300 *9,350	*3950 *8,650	3100 6,600			*1850 *4,000	*1850 *4,000	7.91 25.88
3.0 m 10.0 ft	kg lb			*8600 *18,250	*8600 *18,250	*5600 *12,050	4700 10,050	*4500 *9,800	2950 6,350			*1900 *4,150	1700 3,750	8.23 27.00
1.5 m 5.0 ft	kg lb					*6900 *14,900	4300 9,300	4650 10,000	2800 6,000	*3100 1950		*2050 *4,500	1650 3,600	8.22 26.97
Ground Line	kg lb			*5800 *13,350	*5800 *13,350	7150 15,300	4100 8,800	4550 9,750	2700 5,750			*2350 *5,100	1750 3,850	7.87 25.82
-1.5 m -5.0 ft	kg lb	*5350 *12,000	*5350 *12,000	*9200 *20,550	7550 16,200	7050 15,100	4000 8,600	4500 9,600	2650 5,650			*2850 *6,300	2050 4,500	7.13 23.34
-3.0 m -10.0 ft	kg lb	*8250 *18,300	*8250 *18,300	*10 450 *22,550	7750 16,550	7100 15,250	4050 8,750					*3350 *7,150	2850 6,400	5.84 18.97
-4.5 m -15.0 ft	kg lb			*7450 *15,750	*7450 *15,750							*5150 *11,300	4750 10,900	4.22 13.48

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 2.25 m (7'5")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 700 mm (28") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	Unit	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side			
7.5 m 25.0 ft	kg lb											*2050 *4,500	*2050 *4,500	5.89 18.86
6.0 m 20.0 ft	kg lb							*2750 *5,450	*2750 *5,450			*1850 *4,100	*1850 *4,100	7.19 23.40
4.5 m 15.0 ft	kg lb					*4300 *9,350	*4300 *9,350	*3950 *8,650	3150 6,700			*1850 *4,000	*1850 *4,000	7.91 25.88
3.0 m 10.0 ft	kg lb			*8600 *18,250	*8600 *18,250	*5600 *12,050	4750 10,200	*4500 *9,800	3000 6,400			*1900 *4,150	1750 3,800	8.23 27.00
1.5 m 5.0 ft	kg lb					*6900 *14,900	4400 9,400	4750 10,150	2850 6,100	*3100 1950		*2050 *4,500	1700 3,700	8.22 26.97
Ground Line	kg lb			*5800 *13,350	*5800 *13,350	7250 15,500	4150 8,900	4600 9,850	2700 5,850			*2350 *5,100	1800 3,900	7.87 25.82
-1.5 m -5.0 ft	kg lb	*5350 *12,000	*5350 *12,000	*9200 *20,550	7650 16,400	7150 15,300	4050 8,750	4550 9,750	2650 5,750			*2850 *6,300	2100 4,600	7.13 23.34
-3.0 m -10.0 ft	kg lb	*8250 *18,300	*8250 *18,300	*10 450 *22,550	7850 16,800	*7150 *15,350	4150 8,850					*3350 *7,150	2900 6,500	5.84 18.97
-4.5 m -15.0 ft	kg lb			*7450 *15,750	*7450 *15,750							*5150 *11,300	4800 11,050	4.22 13.48

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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

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Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

















Load at Maximum Reach

STICK – 2.25 m (7'5")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 500 mm (20") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)















	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft	
														
7.5 m 25.0 ft	kg lb											*2050 *4,500	*2050 *4,500	5.89 18.86
6.0 m 20.0 ft	kg lb							*2750 *5,450	*2750 *5,450			*1850 *4,100	*1850 *4,100	7.19 23.40
4.5 m 15.0 ft	kg lb					*4300 *9,350	*4300 *9,350	*3950 *8,650	3050 6,500			*1850 *4,000	*1850 *4,000	7.91 25.88
3.0 m 10.0 ft	kg lb			*8600 *18,250	*8600 *18,250	*5600 *12,050	4650 9,950	*4500 *9,800	2900 6,250			*1900 *4,150	1700 3,650	8.23 27.00
1.5 m 5.0 ft	kg lb					*6900 *14,900	4250 9,150	4600 9,900	2750 5,900	*3100 1900		*2050 *4,500	1650 3,550	8.22 26.97
Ground Line	kg lb			*5800 *13,350	*5800 *13,350	7050 15,100	4050 8,650	4500 9,600	2650 5,650			*2350 *5,100	1700 3,750	7.87 25.82
-1.5 m -5.0 ft	kg lb	*5350 *12,000	*5350 *12,000	*9200 *20,550	7450 16,000	6950 14,900	3950 8,500	4400 9,500	2600 5,550			*2850 *6,300	2000 4,450	7.13 23.34
-3.0 m -10.0 ft	kg lb	*8250 *18,300	*8250 *18,300	*10,450 *22,550	7650 16,350	7000 15,050	4000 8,600					*3350 *7,150	2850 6,300	5.84 18.97
-4.5 m -15.0 ft	kg lb			*7450 *15,750	*7450 *15,750							*5150 *11,300	4700 10,750	4.22 13.48

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 2.6 m (8'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 600 mm (24") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft	
														
7.5 m 25.0 ft	kg lb											*1750 *3,800	*1750 *3,800	6.35 20.42
6.0 m 20.0 ft	kg lb							*3050 *6,200	*3050 *6,200			*1600 *3,500	*1600 *3,500	7.56 24.61
4.5 m 15.0 ft	kg lb							*3700 *8,050	3100 6,650			*1550 *3,400	*1550 *3,400	8.24 26.96
3.0 m 10.0 ft	kg lb			*7650 *16,250	*7650 *16,250	*5200 *11,200	4750 10,200	*4250 *9,250	3000 6,400	*3150 *5,950	2000 4,250	*1600 *3,550	1600 3,500	8.55 28.04
1.5 m 5.0 ft	kg lb			*6250 *15,100	*6250 *15,100	*6600 *14,250	4350 9,400	4700 10,050	2800 6,050	3250 6,950	1950 4,100	*1750 *3,850	1550 3,350	8.54 28.01
Ground Line	kg lb			*6200 *14,250	*6200 *14,250	7150 15,350	4100 8,800	4550 9,750	2700 5,750	3200 *6,800	1900 4,000	*2000 *4,400	1600 3,550	8.20 26.91
-1.5 m -5.0 ft	kg lb	*4950 *11,050	*4950 *11,050	*9100 *20,750	7550 16,150	7050 15,100	4000 8,600	4450 9,550	2600 5,600			*2450 *5,400	1850 4,100	7.50 24.57
-3.0 m -10.0 ft	kg lb	*8450 *18,950	*8450 *18,950	*10,950 *23,650	7650 16,400	7050 15,150	4000 8,650	4500 9,650	2650 5,650			*3400 *7,550	2500 5,600	6.30 20.50
-4.5 m -15.0 ft	kg lb			*8450 *17,950	7950 17,100	*5550 *11,550	4200 9,050					*5050 *11,100	3850 8,750	4.78 15.37

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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315D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

STICK – 2.6 m (8'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 700 mm (28") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	Unit	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	kg	lb	
7.5 m 25.0 ft	kg lb											*1750 *3,800	*1750 *3,800	6.35 20.42
6.0 m 20.0 ft	kg lb							*3050 *6,200	*3050 *6,200			*1600 *3,500	*1600 *3,500	7.56 24.61
4.5 m 15.0 ft	kg lb							*3700 *8,050	3150 6,750			*1550 *3,400	*1550 *3,400	8.24 26.96
3.0 m 10.0 ft	kg lb			*7650 *16,250	*7650 *16,250	*5200 *11,200	4800 10,350	*4250 *9,250	3050 6,500	*3150 *5,950	2050 4,300	*1600 *3,550	1600 3,550	8.55 28.04
1.5 m 5.0 ft	kg lb			*6250 *15,100	*6250 *15,100	*6600 *14,250	4450 9,500	4750 10,200	2850 6,100	3300 7,100	1950 4,200	*1750 *3,850	1550 3,450	8.54 28.01
Ground Line	kg lb			*6200 *14,250	*6200 *14,250	7250 15,600	4150 8,950	4600 9,850	2700 5,850	3250 *6,800	1900 4,050	*2000 *4,400	1650 3,600	8.20 26.91
-1.5 m -5.0 ft	kg lb	*4950 *11,050	*4950 *11,050	*9100 *20,750	7650 16,350	7150 15,300	4050 8,700	4550 9,700	2650 5,700			*2450 *5,400	1900 4,200	7.50 24.57
-3.0 m -10.0 ft	kg lb	*8450 *18,950	*8450 *18,950	*10,950 *23,650	7750 16,650	7150 15,350	4100 8,750	4550 9,800	2700 5,750			*3400 *7,550	2550 5,700	6.30 20.50
-4.5 m -15.0 ft	kg lb			*8450 *17,950	8050 17,350	*5550 *11,550	4250 9,200					*5050 *11,100	3900 8,900	4.78 15.37

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 2.6 m (8'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 500 mm (20") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	Unit	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
		Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	kg	lb	
7.5 m 25.0 ft	kg lb											*1750 *3,800	*1750 *3,800	6.35 20.42
6.0 m 20.0 ft	kg lb							*3050 *6,200	*3050 *6,200			*1600 *3,500	*1600 *3,500	7.56 24.61
4.5 m 15.0 ft	kg lb							*3700 *8,050	3100 6,600			*1550 *3,400	*1550 *3,400	8.24 26.96
3.0 m 10.0 ft	kg lb			*7650 *16,250	*7650 *16,250	*5200 *11,200	4700 10,100	*4250 *9,250	2950 6,300	*3150 *5,950	1950 4,200	*1600 *3,550	1550 3,400	8.55 28.04
1.5 m 5.0 ft	kg lb			*6250 *15,100	*6250 *15,100	*6600 *14,250	4300 9,300	4650 9,950	2800 5,950	3200 6,850	1900 4,050	*1750 *3,850	1500 3,300	8.54 28.01
Ground Line	kg lb			*6200 *14,250	*6200 *14,250	7050 15,150	4050 8,700	4500 9,600	2650 5,650	3150 6,750	1850 3,950	*2000 *4,400	1600 3,500	8.20 26.91
-1.5 m -5.0 ft	kg lb	*4950 *11,050	*4950 *11,050	*9100 *20,750	7450 15,900	6950 14,900	3950 8,450	4400 9,450	2550 5,500			*2450 *5,400	1850 4,050	7.50 24.57
-3.0 m -10.0 ft	kg lb	*8450 *18,950	*8450 *18,950	*10,950 *23,650	7550 16,200	6950 14,950	3950 8,500	4450 9,500	2600 5,600			*3400 *7,550	2500 5,500	6.30 20.50
-4.5 m -15.0 ft	kg lb			*8450 *17,950	7850 16,900	*5550 *11,550	4150 8,950					*5050 *11,100	3800 8,650	4.78 15.37

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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

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Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

















Load at Maximum Reach

STICK – 2.9 m (9'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 600 mm (24") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)















		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
														
7.5 m 25.0 ft	kg lb											*1600 *3,550	*1600 *3,550	6.66 21.44
6.0 m 20.0 ft	kg lb							*3100 *6,650	*3100 *6,650			*1500 *3,250	*1500 *3,250	7.81 25.42
4.5 m 15.0 ft	kg lb							*3450 *7,500	3150 6,700	*2200 2050		*1500 *3,250	*1500 *3,250	8.46 27.69
3.0 m 10.0 ft	kg lb			*6800 *14,450	*6800 *14,450	*4850 *10,400	4800 10,300	*4050 *8,750	3000 6,400	*3300 *6,550	2000 4,250	*1550 *3,400	1500 3,300	8.76 28.73
1.5 m 5.0 ft	kg lb			*8950 *21,600	8100 17,450	*6300 *13,550	4400 9,450	4700 10,050	2800 6,050	3250 6,950	1950 4,100	*1700 *3,700	1450 3,200	8.75 28.71
Ground Line	kg lb			*7000 *16,050	*7000 *16,050	7150 15,350	4100 8,800	4500 9,700	2650 5,700	3200 6,800	1850 3,950	*1950 *4,250	1500 3,350	8.42 27.63
-1.5 m -5.0 ft	kg lb	*4950 *11,100	*4950 *11,100	*9200 *20,950	7450 15,950	7000 15,000	3950 8,500	4450 9,500	2600 5,500			*2400 *5,300	1750 3,850	7.75 25.37
-3.0 m -10.0 ft	kg lb	*8000 *17,900	*8000 *17,900	*11 200 *24,250	7550 16,150	7000 15,000	3950 8,500	4450 9,500	2600 5,550			*3350 *7,400	2300 5,100	6.60 21.49
-4.5 m -15.0 ft	kg lb	*10 050 *22,650	*10 050 *22,650	*9100 *19,400	7800 16,750	*6050 *12,850	4100 8,850					*3850 *8,650	*3850 *8,650	4.73 15.42

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 2.9 m (9'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 700 mm (28") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
														
7.5 m 25.0 ft	kg lb											*1600 *3,550	*1600 *3,550	6.66 21.44
6.0 m 20.0 ft	kg lb							*3100 *6,650	*3100 *6,650			*1500 *3,250	*1500 *3,250	7.81 25.42
4.5 m 15.0 ft	kg lb							*3450 *7,500	3200 6,800	*2200 2100		*1500 *3,250	*1500 *3,250	8.46 27.69
3.0 m 10.0 ft	kg lb			*6800 *14,450	*6800 *14,450	*4850 *10,400	*4850 *10,400	*4050 *8,750	3050 6,500	*3300 *6,550	2050 4,350	*1550 *3,400	1550 3,350	8.76 28.73
1.5 m 5.0 ft	kg lb			*8950 *21,600	8200 17,700	*6300 *13,550	4450 9,550	*4750 10,200	2850 6,100	3300 7,050	1950 4,150	*1700 *3,700	1500 3,250	8.75 28.71
Ground Line	kg lb			*7000 *16,050	*7000 *16,050	7250 15,550	4150 8,900	4600 9,850	2700 5,800	3250 6,900	1900 4,000	*1950 *4,250	1550 3,400	8.42 27.63
-1.5 m -5.0 ft	kg lb	*4950 *11,100	*4950 *11,100	*9200 *20,950	7550 16,150	7100 15,200	4000 8,600	4500 9,650	2600 5,600			*2400 *5,300	1800 3,900	7.75 25.37
-3.0 m -10.0 ft	kg lb	*8000 *17,900	*8000 *17,900	*11 200 *24,250	7650 16,350	7100 15,200	4000 8,600	4500 9,650	2600 5,600			*3350 *7,400	2350 5,150	6.60 21.49
-4.5 m -15.0 ft	kg lb	*10 050 *22,650	*10 050 *22,650	*9100 *19,400	7900 17,000	*6050 *12,850	4150 8,950					*3850 *8,650	*3850 *8,650	4.73 15.42

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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JC Machinery **SUNIGHT**
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315D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach

STICK – 2.9 m (9'6")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 500 mm (20") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
7.5 m 25.0 ft	kg lb										*1600 *3,550	*1600 *3,550	6.66 21.44
6.0 m 20.0 ft	kg lb						*3100 *6,650	*3100 *6,650			*1500 *3,250	*1500 *3,250	7.81 25.42
4.5 m 15.0 ft	kg lb						*3450 *7,500	3100 6,650	*2200 2050		*1500 *3,250	*1500 *3,250	8.46 27.69
3.0 m 10.0 ft	kg lb		*6800 *14,450	*6800 *14,450	*4850 *10,400	4750 10,200	*4050 *8,750	2950 6,350	*3300 *6,550	2000 4,200	*1550 *3,400	1500 3,250	8.76 28.73
1.5 m 5.0 ft	kg lb		*8950 *21,600	8000 17,250	*6300 *13,550	4350 9,350	4650 9,950	2800 5,950	3200 6,850	1900 4,050	*1700 *3,700	1450 3,150	8.75 28.71
Ground Line	kg lb		*7000 *16,050	*7000 16,000	7050 15,150	4050 8,650	4450 9,550	2600 5,600	3150 6,700	1850 3,900	*1950 *4,250	1500 3,300	8.42 27.63
-1.5 m -5.0 ft	kg lb	*4950 *11,100	*4950 *11,100	*9200 *20,950	7350 15,750	6900 14,800	3900 8,350	4350 9,350	2550 5,450		*2400 *5,300	1700 3,750	7.75 25.37
-3.0 m -10.0 ft	kg lb	*8000 *17,900	*8000 *17,900	*11 200 *24,250	7450 15,950	6900 14,800	3900 8,350	4350 9,400	2550 5,450		*3350 *7,400	2250 5,000	6.60 21.49
-4.5 m -15.0 ft	kg lb	*10 050 *22,650	*10 050 *22,650	*9100 *19,400	7700 16,550	*6050 *12,850	4050 8,700				*3850 *8,650	*3850 *8,650	4.73 15.42

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 3.1 m (10'2")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 600 mm (24") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

Load Point Height	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		m ft		
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	
7.5 m 25.0 ft	kg lb										*1500 *3,250	*1500 *3,250	7.02 22.65
6.0 m 20.0 ft	kg lb						*2950 *6,400	*2950 *6,400			*1350 *3,000	*1350 *3,000	8.11 26.42
4.5 m 15.0 ft	kg lb						*3250 *7,100	3150 6,750	2600 5,150	2050 4,400	*1350 *2,900	*1350 *2,900	8.74 28.60
3.0 m 10.0 ft	kg lb				*4600 *9,850	*4600 *9,850	*3900 *8,400	3000 6,450	3350 7,100	2000 4,250	*1400 *3,000	*1400 *3,000	9.03 29.61
1.5 m 5.0 ft	kg lb		*9800 *21,350	8250 17,700	*6100 *13,100	4400 9,500	*4600 *10,000	2800 6,050	3250 6,950	1900 4,100	*1500 *3,250	1350 3,000	9.02 29.59
Ground Line	kg lb		*6650 *15,250	*6650 *15,250	7150 15,350	4100 8,800	4500 9,700	2650 5,700	3150 6,750	1850 3,950	*1700 *3,750	1400 3,100	8.70 28.56
-1.5 m -5.0 ft	kg lb	4350 9,700	4350 9,700	*8500 *19,350	7450 15,950	7000 14,950	3950 8,450	4400 9,450	2550 5,500	3100 6,700	*2050 *4,550	1600 3,550	8.06 26.39
-3.0 m -10.0 ft	kg lb	7200 16,150	7200 16,150	*11 400 *24,650	7500 16,050	6950 14,900	3900 8,400	4400 9,450	2550 5,450		*2750 *6,150	3100 4,600	6.97 22.71
-4.5 m -15.0 ft	kg lb	*10 050 *22,550	*10 050 *22,550	*9500 *20,300	7750 16,600	*6350 *13,450	4050 8,700				*2950 *7,200	*2950 *7,200	5.13 16.55

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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

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Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

















Load at Maximum Reach

STICK – 3.1 m (10'2")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 700 mm (28") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)















		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
														
7.5 m 25.0 ft	kg lb											*1500 *3,250	*1500 *3,250	7.02 22.65
6.0 m 20.0 ft	kg lb							*2950 *6,400	*2950 *6,400			*1350 *3,000	*1350 *3,000	8.11 26.42
4.5 m 15.0 ft	kg lb							*3250 *7,100	3200 6,850	*2600 *5,150	2100 4,450	*1350 *2,900	*1350 *2,900	8.74 28.60
3.0 m 10.0 ft	kg lb					*4600 *9,850	*4600 *9,850	*3900 *8,400	3050 6,500	3400 *7,100	2050 4,350	*1400 *3,000	*1400 *3,000	9.03 29.61
1.5 m 5.0 ft	kg lb			*9800 *21,650	8350 17,950	*6100 *13,100	4500 9,650	*4600 *10,000	2850 6,100	3300 7,050	1950 4,150	*1500 *3,250	1400 3,050	9.02 29.59
Ground Line	kg lb			*6650 *15,250	*6650 *15,250	*7250 15,600	4150 8,950	4600 9,850	2700 5,750	3200 6,900	1900 4,000	*1700 *3,750	1450 3,150	8.70 28.56
-1.5 m -5.0 ft	kg lb	*4350 *9,700	*4350 *9,700	*8500 *19,350	7550 16,150	7100 15,200	4000 8,600	4500 9,600	2600 5,550	3150 *6,700	1850 3,900	*2050 *4,550	1650 3,600	8.06 26.39
-3.0 m -10.0 ft	kg lb	*7200 *16,150	*7200 *16,150	*11 400 *24,650	7600 16,300	7050 15,150	4000 8,550	4450 9,600	2600 5,550			*2750 *6,150	2100 4,700	6.97 22.71
-4.5 m -15.0 ft	kg lb	*10 050 *22,500	*10 050 *22,500	*9500 *20,300	7850 16,850	*6350 *13,450	4100 8,850					*2950 *7,200	*2950 *7,200	5.13 16.56

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

STICK – 3.1 m (10'2")
BUCKET – 0.61 m³ (0.80 yd³)

UNDERCARRIAGE – Long
SHOES – 500 mm (20") triple grouser

BOOM – 5.1 m (16'9")
COUNTERWEIGHT – 3.17 ton (6,989 lb)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)				m ft
														
7.5 m 25.0 ft	kg lb											*1500 *3,250	*1500 *3,250	7.02 22.65
6.0 m 20.0 ft	kg lb							*2950 *6,400	*2950 *6,400			*1350 *3,000	*1350 *3,000	8.11 26.42
4.5 m 15.0 ft	kg lb							*3250 *7,100	3100 6,650	*2600 *5,150	2050 4,350	*1350 *2,900	*1350 *2,900	8.74 28.60
3.0 m 10.0 ft	kg lb					*4600 *9,850	*4600 *9,850	*3900 *8,400	2950 6,350	3300 7,050	2000 4,200	*1400 *3,000	1400 *3,000	9.03 29.61
1.5 m 5.0 ft	kg lb			*9800 *21,350	8150 17,500	*6100 *13,100	4350 9,400	*4600 9,950	2800 5,950	3200 6,850	1900 4,050	*1500 *3,250	1350 2,950	9.02 29.59
Ground Line	kg lb			*6650 *15,250	*6650 *15,250	7100 15,150	4050 8,700	4450 9,550	2600 5,600	3100 6,650	1800 3,850	*1700 *3,750	1400 3,050	8.70 28.56
-1.5 m -5.0 ft	kg lb	*4350 *9,700	*4350 *9,700	*8500 *19,350	7350 15,700	6900 14,750	3900 8,350	4350 9,300	2500 5,400	3100 6,600	1750 3,800	*2050 *4,550	1600 3,500	8.06 26.39
-3.0 m -10.0 ft	kg lb	*7200 *16,150	*7200 *16,150	*11 400 *24,650	7400 15,850	6850 14,700	3850 8,300	4350 9,300	2500 5,400			*2760 *6,150	2050 4,550	6.97 22.71
-4.5 m -15.0 ft	kg lb	*10 050 *22,500	*10 050 *22,500	*9500 *20,300	7650 16,400	*6350 *13,450	4000 8,600					*2950 *7,200	*2950 *7,200	5.13 16.55

* Limited by hydraulic capacity rather than tipping load. The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard J1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. Weight of all lifting accessories must be deducted from the above lifting capacities.

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315D L Standard Equipment

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

Alternator, 50 amp

Automatic engine speed control

Automatic swing brake

Bolt-on Falling Object Guard System (FOGS) capability

Cab

- AM/FM radio, 24-volt
- Ashtray with cigar lighter
- Coat hook
- Drink holder
- Economy mode
- Horn

Language display monitor (full graphic/full color display)

- Clock
- Filter/fluid change information
- Level check for hydraulic oil, engine oil and coolant
- Warning messages

Light, interior

Literature holder

Openable front windshield

Openable skylight with sunshade

Positive filtered ventilation

Storage compartment

Travel control pedals with removable hand levers

Door locks and caps lock with one-key security system

Light, storage box mounted (1)

Mirrors (frame and cab)

Power Train

- Cat® C4.2 engine with ACERT™ Technology
 - 24-volt electric starter
 - Air intake heater
 - Water separator
- Radial seal air filter, double element
- Reverse swing damping valve
- Undercarriage
- Hydraulic track adjusters
 - Idler and center section track guiding guards
 - Track-type undercarriage with grease lubricated seals
- Water level indicator with water separator



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

AccuGrade™ Basic, Laser and GPS ready

Air prefilter

Auxiliary hydraulics

Auxiliary hydraulic lines from booms and sticks

Boom lowering and overload warning control device.

Bucket linkage

Cab mounted working lights

Cab mounted working lights with time delay function

Cold weather start

E-Ceiling and cab avoidance

Electric refueling pump with automatic shutoff

Fine swing control

Front windshield guard

Hand control pattern changer

Heavy-duty bottom guard

High ambient cooling system

Power supply 12V-7A

Pull down sunscreen

Rain protector

Right-side boom lights

Secondary exit, rear window

Steel bumper

Stick and boom combinations

• 3.1 m (10 ft 2 in) stick

• 2.9 m (9 ft 6 in) stick

• 2.6 m (8 ft 6 in) stick

• 2.25 m (7 ft 5 in) stick

Straight travel pedal

Sun visor

Swivel guard

Vandalism protection



315D L Hydraulic Excavator

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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AEHQ5865-01 (12-2007)
Replaces AEHQ5865

