312D/312D L

Hydraulic Excavators

CATERPILLAR®

Engine		
Engine Model	Cat® C4.2 ACERT™	
Net Power (SAE J1349)	67 kW	90 hp
Gross Power	72 kW	97 hp

Weights		
Operating Weight – Standard Undercarriage	12 920 kg	28,480 lb
Operating Weight – Long Undercarriage	13 450 kg	29,650 lb

Features

Comfortable Operator Station

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

Industry-Leading Performance

The 312D with a Cat® C4.2 ACERT™ engine and overall system efficiency delivers industry-leading 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 material using less fuel with the Cat 4.2 ACERT engine. It meets Tier 3 and EU Stage IIIA emissions while maintaining the power and performance expected from Caterpillar.

Contents

Achieve high productivity and lower operating costs with the Cat® 312D Hydraulic Excavator. Unmatched versatility, improved controllability, easy operation and a comfortable, redesigned operator station help make the 312D an industry-leading performer.

Operator Station

Enhanced comfort, operation and visibility

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 adjustable armrests. 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 28 different languages, for operator convenience.

Cab Exterior

The 312D 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

Delivering the most work per liter/gallon of fuel consumed

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 delivers exceptional power, allowing more hydraulic pressure to drive productivity and reduce your cost per ton of material moved.

Automatic Engine Control and Fuel Delivery

A two-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.

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 standard, 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

Low effort and precise control for highly efficient performance

Outstanding Performance

With two percent more hydraulic pressure for additional lift and breakout forces, the 312D 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. This compact design utilizes short 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.
- Electronic Under Speed Control electronically adjusts pump output to not exceed engine power, preventing the need to reserve engine power to avoid engine stalls.
- Hydraulic Cross-Sensing System uses two hydraulic pumps up to 100 percent of engine power under all operating conditions, improving productivity with faster implement speeds and quicker, stronger pivot turns.

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 costs.

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

Strong, stable and easy to maneuver

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. Idler and center guards (standard for LC option) are available to 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.

Travel Motors

Travel motors with automatic speed selection let the 312D automatically change up and down from high and low speeds in a smooth, controlled manner.

Front Linkage

Reliable, durable and versatile

Built for performance and long service life, Cat booms and sticks are welded, box-section structures with thick multi-plate high strength steel fabrications. Service intervals are extended with self-lubricating bearings that resist corrosion and galling for superior durability.

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.

Stick

Three stick options are available to meet your application needs and increase performance and productivity. A new 2.8 m (9'2") intermediate stick is available to provide long reach and increased digging and lifting capability.

Versatility

More options for more work

Work Tools

Caterpillar offers a variety of work tools, including hammers, thumbs, grapples, multi-processors, shears, pulverizers and vibratory compactors 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

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.

Enhanced Systems

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

- An optional 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 or two-way hydraulic work tools, such as a mower, priority for hydraulic flow.
- Medium Pressure Circuit is available as an attachment for work tools requiring moderate hydraulic flow, such as a rotating bucket or shears.

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.

- LCD monitor has the capability to memorize working hours for filters, fluids, components and work tools. Working time histories and recommended change intervals can be displayed.
- Oil level gauge, fuel filter and priming pump are conveniently located on engine 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·S[SM] 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.

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

- 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 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 make the right choice.
- SAFETY.CAT.COM™.

Engine

Engine Model	Cat® C4.2 ACERT™	
Gross Power	72 kW	97 hp
Net Power	67 kW	90 hp
SAE J1349	67 kW	90 hp
Bore	102 mm	4.02 in
Stroke	130 mm	5.12 in
Displacement	4.25 L	259.3 in^3

- Net power advertise 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 312D meets U.S. EPA Tier 3 and EU Stage IIIA Directive/97/68/EC emissions requirements.

Weights

Operating Weight – Standard Undercarriage	12 920 kg	28,480 lb
Operating Weight – Long Undercarriage	13 450 kg	29,650 lb

- Standard undercarriage: 500 mm (20") shoe, 3.0 m (9'10") stick, 0.52 m^3 (0.68 yd^3) bucket.
- Long undercarriage: 600 mm (24") shoe, 3.0 m (9'10") stick, 0.52 m^3 (0.68 yd^3) bucket.

Swing Mechanism

Swing Torque	30 950 N·m	22,827.5 lb ft
Swing Speed	12.4 rpm	

Drive

Maximum Drawbar Pull	114 kN	25.6 lb
Travel Speed	5.5 km/h	3.4 mph

Hydraulic System

Main Implement System – Maximum Flow (2x)	127 L/min	33.5 gal/min
Maximum Pressure – Implements	30 500 kPa	4,424 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	23 000 kPa	3,336 psi
Pilot System – Maximum Flow	36 L/min	9.51 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	110 mm	4.3 in
Boom Cylinder – Stroke	1015 mm	39.9 in
Stick Cylinder – Bore	120 mm	4.7 in
Stick Cylinder – Stroke	1197 mm	47.1 in
Bucket Cylinder – Bore	100 mm	3.9 in
Bucket Cylinder – Stroke	939 mm	36.9 in

Service Refill Capacities

Fuel Tank	250 L	66 gal
Cooling System	17.9 L	4.73 gal
Engine Oil	19.5 L	5.1 gal
Swing Drive	3 L	0.79 gal
Final Drive (Each)	3 L	0.79 gal
Hydraulic System (Including Tank)	162 L	42.8 gal
Hydraulic Tank	150 L	39.6 gal

Standards

Cab/FOGS	SAE J1356 FEB88 ISO 10262

Sound Performance

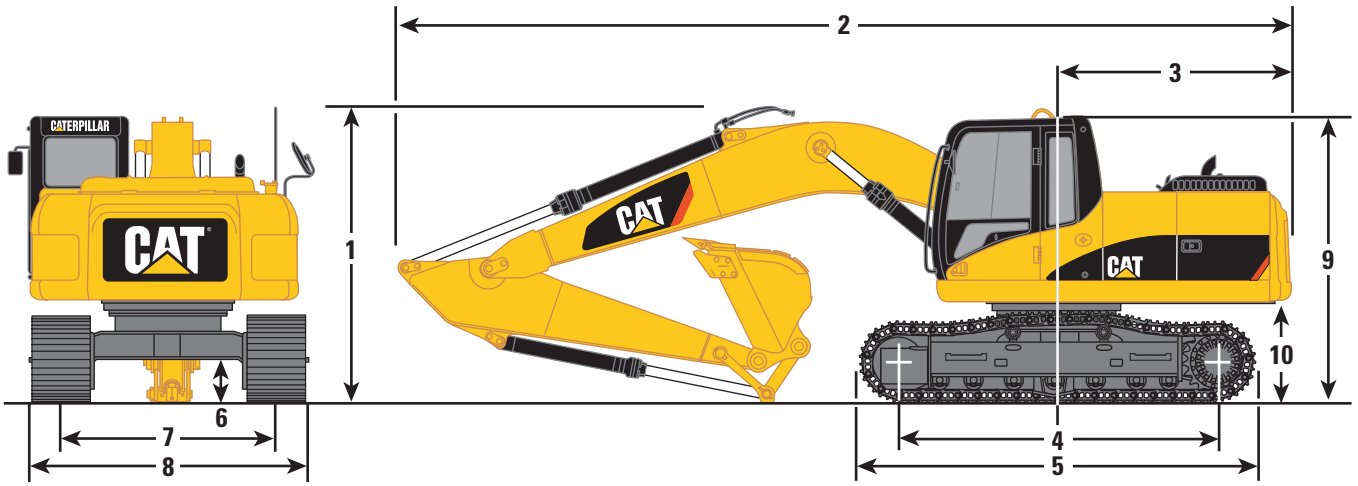
Performance:

- 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), at standard ambient, 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.

312D/312D L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



	Boom Options	Reach	Reach	Reach
	Stick Options	**2.5 m (8'2")**	**2.8 m (9'2")**	**3.0 m (9'10")**
1	Shipping Height	2830 mm (9'3")	2970 mm (9'9")	2830 mm (9'3")
2	Shipping Length	7610 mm (25'0")	7590 mm (24'11")	7610 mm (25'0")
3	Tail Swing Radius	2140 mm (7'0")	2140 mm (7'0")	2140 mm (7'0")
4	Length to Center of Rollers			
	312D	2780 mm (9'1")	2780 mm (9'1")	2780 mm (9'1")
	312D L	3040 mm (10'0")	3040 mm (10'0")	3040 mm (10'0")
5	Track Length			
	312D	3490 mm (11'5")	3490 mm (11'5")	3490 mm (11'5")
	312D L	3750 mm (12'4")	3750 mm (12'4")	3750 mm (12'4")
6	Ground Clearance	430 mm (1'5")	430 mm (1'5")	430 mm (1'5")
7	Track Gauge			
	312D	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
	312D L	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
8	Transport Width	500 mm (20") Shoes	600 mm (24") Shoes	700 mm (28") Shoes
	312D	2490 mm (8'2")	2590 mm (8'6")	2690 mm (8'10")
	312D L	2490 mm (8'2")	2590 mm (8'6")	2690 mm (8'10")
9	Cab Height	2760 mm (9'1")	2760 mm (9'1")	2760 mm (9'1")
10	Counterweight Clearance	915 mm (3'0")	915 mm (3'0")	915 mm (3'0")

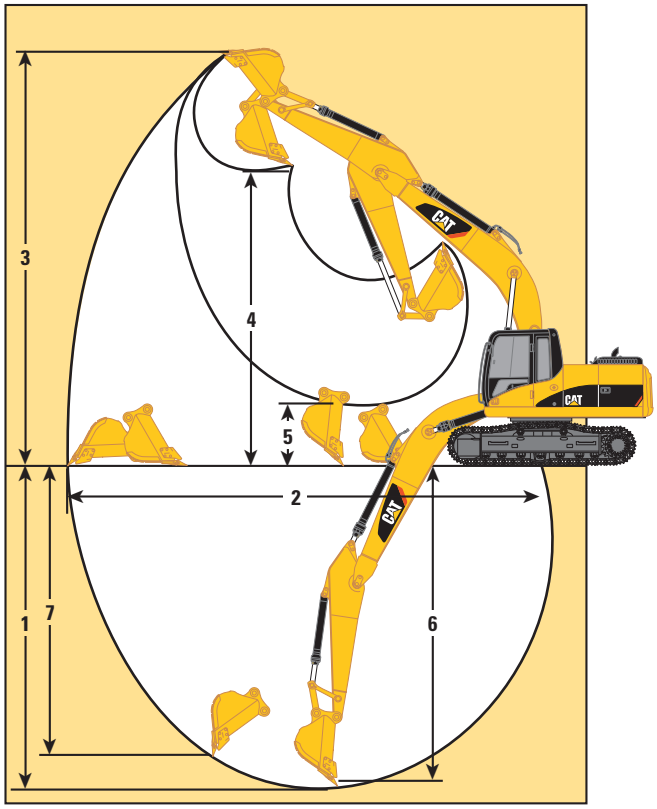
Operating Weights

Caterpillar designed and built track-type undercarriage.

Track Width			Operating Weight 2.5 m (8'2")		Operating Weight 2.8 m (9'2")		Operating Weight 3.0 m (9'10")	
312D	500 mm (20") triple grouser		12 860 kg	28,340 lb	12 900 kg	28,430 lb	12 920 kg	28,480 lb
	600 mm (24") triple grouser		13 090 kg	28,850 lb	13 130 kg	28,940 lb	13 150 kg	29,000 lb
	700 mm (28") triple grouser		13 340 kg	29,420 lb	13 380 kg	29,500 lb	13 410 kg	29,560 lb
	770 mm (30") triple grouser		13 480 kg	29,720 lb	13 520 kg	29,800 lb	13 540 kg	29,860 lb
		Blade: add						
	500 mm (20") triple grouser	w/Blade	13 650 kg	30,100 lb	13 690 kg	30,180 lb	13 720 kg	30,240 lb
	600 mm (24") triple grouser	w/Blade	16 890 kg	30,610 lb	13 930 kg	30,700 lb	13 950 kg	30,750 lb
	700 mm (28") triple grouser	w/Blade	14 150 kg	31,200 lb	14 190 kg	31,290 lb	14 220 kg	31,340 lb
	770 mm (30") triple grouser	w/Blade	14 290 kg	31,500 lb	14 330 kg	31,590 lb	14 350 kg	31,640 lb
312D L	500 mm (20") triple grouser		13 410 kg	28,960 lb	13 180 kg	29,050 lb	13 200 kg	29,100 lb
	600 mm (24") triple grouser		13 390 kg	29,510 lb	13 430 kg	29,600 lb	13 450 kg	29,650 lb
	700 mm (28") triple grouser		13 660 kg	30,110 lb	13 700 kg	30,200 lb	13 720 kg	30,250 lb
	770 mm (30") triple grouser		13 800 kg	30,430 lb	13 840 kg	30,520 lb	13 870 kg	30,570 lb
		Blade: add						
	500 mm (20") triple grouser	w/Blade	13 930 kg	30,720 lb	13 970 kg	30,800 lb	14 000 kg	30,860 lb
	600 mm (24") triple grouser	w/Blade	14 180 kg	31,270 lb	14 220 kg	31,360 lb	14 250 kg	31,410 lb
	700 mm (28") triple grouser	w/Blade	14 470 kg	31,890 lb	14 510 kg	31,980 lb	14 530 kg	32,040 lb
	770 mm (30") triple grouser	w/Blade	14 610 kg	32,210 lb	14 650 kg	32,300 lb	14 680 kg	32,360 lb

Working Ranges

All dimensions are approximate.



	Boom	Reach 5.68 m (18'7")	Reach 5.68 m (18'7")	Reach 5.68 m (18'7")
	Stick	**2.5 m (8'2")***	**2.8 m (9'2")***	**3.0 m (9'10")***
	Bucket	**0.52 m³ (0.68 yd³)**	**0.52 m³ (0.68 yd³)**	**0.52 m³ (0.68 yd³)**
1	Maximum Digging Depth	5540 mm (18'2")	5840 mm (19'2")	6040 mm (19'10")
2	Maximum Reach at Ground Level	8170 mm (26'10")	8430 mm (27'8")	8620 mm (28'3")
3	Maximum Cutting Height	8480 mm (27'10")	8580 mm (28'2")	8700 mm (28'7")
4	Maximum Loading Height	6100 mm (20'0")	6210 mm (20'4")	6340 mm (20'10")
5	Minimum Loading Height	2020 mm (6'8")	1730 mm (5'8")	1530 mm (5'0")
6	Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5330 mm (17'6")	5640 mm (18'6")	5850 mm (19'2")
7	Maximum Vertical Wall Digging Depth	4980 mm (16'4")	5160 mm (16'11")	5360 mm (17'7")
	Stick Digging Force (SAE)	66 kN (14,736 lbf)	62 kN (13,855 lbf)	59 kN (13,169 lbf)
	Bucket Digging Force (SAE)	96 kN (21,586 lbf)	96 kN (21,589 lbf)	96 kN (21,634 lbf)

* Measurements shown are for machines equipped with the 0.52 m³ (0.68 yd³) buckets.

Buckets

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

Width		Capacity		Recommended Maximum Material Density			
				2.8 m (9'2") Stick		3.0 m (9'10") Stick	
mm	in	m^3	yd^3	kg/m^3	lb/yd^3	kg/m^3	lb/yd^3
600	24	0.30	0.39	1800	3,000	1800	3,000
750	30	0.40	0.53	1800	3,000	1800	3,000
905	36	0.52	0.68	1800	3,000	1500	2,500
1055	42	0.63	0.82	1500	2,500	1200	2,000
1210	48	0.74	0.97	1500	2,500	1200	2,000

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 & Clay	1600	2,700
Gravel, dry	1510	2,550	Stone, crushed	1600	2,700
Gravel, wet	2020	3,400	Top soil	950	1,600

* kilograms per loose cubic meter
** pounds per loose cubic yard
For densities of other materials see Caterpillar Performance Handbook.

Undercarriage

Caterpillar designed and built track-type undercarriage.

Track Width	Ground Pressure	
	312D	312D L
500 mm (20") triple grouser	41.8 kPa (6.08 psi)	39.4 kPa (5.71 psi)
600 mm (24") triple grouser	35.5 kPa (5.15 psi)	33.4 kPa (4.86 psi)
700 mm (28") triple grouser	31.0 kPa (4.50 psi)	29.2 kPa (4.25 psi)
770 mm (30") triple grouser	28.5 kPa (4.13 psi)	26.9 kPa (3.90 psi)

312D/312D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Down

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	*2600 ***5,750**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2700 **5,700**	*1850	1800	*1150 ***2,550**	*1150 ***2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	*6750 ***14,500**	*4400 ***9,500**	4050 **8,650**	*3500 ***7,550**	2550 **5,450**	*2550 ***4,750**	1750 **3,700**	*1250 ***2,750**	*1250 ***2,750**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	7150 **15,350**	*5300 ***11,500**	3800 **8,100**	*3950 ***8,500**	2450 **5,200**	*2400 ***4,050**	1700 **3,600**	*1400 ***3,100**	*1400 ***3,100**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	6950 **14,900**	*5750 ***12,450**	3650 **7,800**	*4150 ***9,000**	2350 **5,050**			*1700 ***3,750**	1700 **3,700**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	7000 **15,000**	*5600 ***12,000**	3650 **7,800**	*3900 ***8,300**	2350 **5,100**			*2300 ***5,050**	2150 **4,800**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	*6750 ***14,350**	*4350 ***9,050**	3750 **8,100**					*3700 ***8,100**	3250 **7,400**	4.95 **15.93**

* 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 SAE J1097 DEC2005. 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.

R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Down

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	*2600 **5,650**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2700 **5,800**	*1850	1700	*1150 ***2,550**	*1150 ***2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	*6750 ***14,500**	*4400 ***9,500**	6850 **8,300**	*3500 ***7,550**	2600 **5,500**	*2550 ***4,750**	1650 **3,550**	*1250 ***2,750**	*1250 ***2,750**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	6850 **14,650**	*5300 ***11,500**	3600 **7,750**	*3950 ***8,500**	2450 **5,250**	*2400 ***4,050**	1600 **3,450**	*1400 ***3,100**	*1400 ***3,100**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	6650 **14,200**	*5750 ***12,450**	3500 **7,450**	*4150 ***9,000**	2400 **5,100**			*1700 ***3,750**	*1700 **3,500**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	6650 **14,300**	*5600 ***12,000**	3450 **7,450**	*3900 ***8,300**	2400 **5,150**			*2300 ***5,050**	2050 **4,600**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	*6750 ***14,350**	*4350 ***9,050**	3600 **7,750**					*3700 ***8,100**	3150 **7,100**	4.95 **15.93**

* 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 SAE J1097 DEC2005. 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.

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

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Up

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	2450 **5,200**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2350 **5,000**	*1850	1500	*1150 ***2,550**	*1150 ***2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	6550 **14,350**	*4400 ***9,500**	3550 **7,550**	3400 **7,300**	2250 **4,750**	2350 ***4,750**	1500 **3,200**	*1250 ***2,750**	1250 **2,700**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	6100 **13,050**	5200 **11,500**	3300 **7,050**	3300 **7,050**	2100 **4,500**	2300 ***4,050**	1450 **3,100**	*1400 ***3,100**	1300 **2,800**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	5900 **12,650**	5050 **10,850**	3150 **6,750**	3200 **6,850**	2050 **4,400**			*1700 ***3,750**	1450 **3,200**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	5950 **12,700**	5050 **10,800**	3150 **6,700**	3200 **6,900**	2050 **4,400**			*2300 ***5,050**	1900 **4,150**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	6150 **13,150**	*4350 ***9,050**	3250 **7,000**					*3700 ***8,100**	2850 **6,450**	4.95 **15.93**

* 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 SAE J1097 DEC2005. 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.

R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Up

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	2400 **5,100**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2300 **4,950**	*1850	1500	*1150 ***2,550**	*1150 ***2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	6550 **14,100**	*4400 ***9,500**	3450 **7,400**	3350 **7,150**	2200 **4,650**	2300 ***4,750**	1500 **3,150**	*1250 ***2,750**	1200 **2,600**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	5950 **12,800**	5100 **10,950**	3200 **6,900**	3200 **6,900**	2050 **4,400**	2250 ***4,050**	1450 **3,050**	*1400 ***3,100**	1250 **2,700**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	5800 **12,400**	4950 **10,600**	3100 **6,600**	3150 **6,700**	2000 **4,300**			*1700 ***3,750**	1400 **3,100**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	5800 **12,450**	4950 **10,600**	3050 **6,600**	3150 **6,750**	2000 **4,300**			*2300 ***5,050**	1850 **4,100**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	6000 **12,900**	*4350 ***9,050**	3200 **6,850**					*3700 ***8,100**	2800 **6,300**	4.95 **15.93**

* 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 SAE J1097 DEC2005. 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.

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

312D/312D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

R2.8 STICK – 2.8 m (9'2")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Down

		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	*1500	5.55
6.0 m **20.0 ft**	kg **lb**							*2050	*2050			*1300 ***2,900**	*1300 ***2,900**	6.99 **22.71**
4.5 m **15.0 ft**	kg **lb**							*2750 ***6,050**	2750 **5,850**			*1250 ***2,750**	*1250 ***2,750**	7.79 **25.48**
3.0 m **10.0 ft**	kg **lb**					*3500 ***7,550**	*3500 ***7,550**	*3100 ***6,750**	2650 **5,700**			*1300 ***2,800**	*1300 ***2,800**	8.19 **26.84**
1.5 m **5.0 ft**	kg **lb**			*7100 ***15,300**	*7100 ***15,300**	*4550 ***9,850**	4000 **8,600**	*3600 ***7,750**	2550 **5,450**	*2100	1750	*1350 ***3,000**	*1350 ***3,000**	8.24 **27.05**
Ground Line	kg **lb**			*7750 ***18,000**	7150 **15,300**	*5450 ***11,750**	3800 **8,100**	*4000 ***8,700**	2450 **5,200**			*1550 ***3,350**	*1550 ***3,350**	7.97 **26.16**
–1.5 m **–5.0 ft**	kg **lb**	*4150 ***9,300**	*4150 ***9,300**	*8250 ***18,500**	7000 **14,950**	*5800 ***12,550**	3650 **7,850**	*4200 ***9,050**	2400 **5,100**			*1850 ***4,100**	1750 **3,900**	7.34 **24.02**
–3.0 m **–10.0 ft**	kg **lb**	*6750 ***14,900**	*6750 ***14,900**	*8350 ***18,050**	7050 **15,100**	*5500 ***11,850**	3650 **7,850**	*3800	2400			*2550 ***5,600**	2350 **5,200**	6.21 **20.21**
–4.5 m **–15.0 ft**	kg **lb**			*6400 ***13,500**	*6400 ***13,500**	*4000	3800					*3750 ***8,300**	3650 ***8,300**	4.64 **14.90**

* 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 SAE J1097 DEC2005. 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.

R2.8 STICK – 2.8 m (9'2")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Down

		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	*1500	5.55
6.0 m **20.0 ft**	kg **lb**							*2050	*2050			*1300 ***2,900**	*1300 ***2,900**	6.99 **22.71**
4.5 m **15.0 ft**	kg **lb**							*2750 ***6,050**	2650 **5,600**			*1250 ***2,750**	*1250 ***2,750**	7.79 **25.48**
3.0 m **10.0 ft**	kg **lb**					*3500 ***7,550**	*3500 ***7,550**	*3100 ***6,750**	2550 **5,450**			*1300 ***2,800**	*1300 ***2,800**	8.19 **26.84**
1.5 m **5.0 ft**	kg **lb**			*7100 ***15,300**	*7100 ***15,300**	*4550 ***9,850**	3850 **8,250**	*3600 ***7,750**	2450 **5,200**	*2100	1650	*1350 ***3,000**	*1350 ***3,000**	8.24 **27.05**
Ground Line	kg **lb**			*7750 ***18,000**	6800 **14,600**	*5450 ***11,750**	3600 **7,750**	*4000 ***8,700**	2350 **5,000**			*1550 ***3,350**	1500 **3,250**	7.97 **26.16**
–1.5 m **–5.0 ft**	kg **lb**	*4150 ***9,300**	*4150 ***9,300**	*8250 ***18,500**	6650 **14,250**	*5800 ***12,550**	3500 **7,500**	*4200 ***9,050**	2250 **4,850**			*1850 ***4,100**	1700 **3,700**	7.34 **24.02**
–3.0 m **–10.0 ft**	kg **lb**	*6750 ***14,900**	*6750 ***14,900**	*8350 ***18,050**	6700 **14,400**	*5500 ***11,850**	3500 **7,500**	*3800	2300			*2550 ***5,600**	2250 **4,950**	6.21 **20.21**
–4.5 m **–15.0 ft**	kg **lb**			*6400 ***13,500**	*6400 ***13,500**	*4000	3650					*3750 ***8,300**	3500 **7,950**	4.64 **14.90**

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

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

R2.8 STICK – 2.8 m (9'2")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Up

		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	*1500	5.55
6.0 m **20.0 ft**	kg **lb**							*2050	*2050			*1300 ***2,900**	*1300 ***2,900**	6.99 **22.71**
4.5 m **15.0 ft**	kg **lb**							*2750 ***6,050**	2400 **5,150**			*1250 ***2,750**	*1250 ***2,750**	7.79 **25.48**
3.0 m **10.0 ft**	kg **lb**					*3500 ***7,550**	*3500 **7,550**	*3100 ***6,750**	2350 **5,000**			*1300 ***2,800**	*1300 ***2,800**	8.19 **26.84**
1.5 m **5.0 ft**	kg **lb**			*7100 ***15,300**	6600 **14,150**	*4550 ***9,850**	3500 **7,500**	3400 **7,300**	2250 **4,750**	*2100	1500	*1350 ***3,000**	1300 **2,800**	8.24 **27.05**
Ground Line	kg **lb**			*7750 ***18,000**	6050 **13,000**	5200 **11,150**	3300 **7,050**	3300 **7,050**	2100 **4,550**			*1550 ***3,350**	1350 **2,950**	7.97 **26.16**
–1.5 m **–5.0 ft**	kg **lb**	*4150 ***9,300**	*4150 ***9,300**	*8250 ***18,500**	5900 **12,700**	5050 **10,850**	3150 **6,750**	3200 **6,900**	2050 **4,400**			*1850 ***4,100**	1550 **3,350**	7.34 **24.02**
–3.0 m **–10.0 ft**	kg **lb**	*6750 ***14,900**	*6750 ***14,900**	*8350 ***18,050**	5950 **12,800**	5050 **10,850**	6150 **6,800**	3250	2100			*2550 ***5,600**	2050 **4,500**	6.21 **20.21**
–4.5 m **–15.0 ft**	kg **lb**			*6400 ***13,500**	6200 **13,300**	*4000	3300					*3750 ***8,300**	3150 **7,200**	4.64 **14.90**

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R2.8 STICK – 2.8 m (9'2")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach 4.65 m (15.25 ft)
BLADE – Up

		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	*1500	5.55
6.0 m **20.0 ft**	kg **lb**							*2050	*2050			*1300 ***2,900**	*1300 ***2,900**	6.99 **22.71**
4.5 m **15.0 ft**	kg **lb**							*2750 ***6,050**	2350 **5,050**			*1250 ***2,750**	*1250 ***2,750**	7.79 **25.48**
3.0 m **10.0 ft**	kg **lb**					*3500 ***7,550**	*3500 ***7,550**	*3100 ***6,750**	2300 **4,900**			*1300 ***2,800**	*1300 ***2,800**	8.19 **26.84**
1.5 m **5.0 ft**	kg **lb**			*7100 ***15,300**	6450 **13,900**	*4550 ***9,850**	3450 **7,400**	3350 **7,150**	2200 **4,650**	*2100	1500	*1350 ***3,000**	1250 **2,750**	8.24 **27.05**
Ground Line	kg **lb**			*7750 ***18,000**	5950 **12,750**	5100 **10,950**	3200 **6,900**	3200 **6,900**	2100 **4,450**			*1550 ***3,350**	1300 **2,850**	7.97 **26.16**
–1.5 m **–5.0 ft**	kg **lb**	*4150 ***9,300**	*4150 ***9,300**	*8250 ***18,500**	5800 **12,450**	4950 **10,650**	3100 **6,650**	3150 **6,750**	2000 **4,300**			*1850 ***4,100**	1500 **3,300**	7.34 **24.02**
–3.0 m **–10.0 ft**	kg **lb**	*6750 ***14,900**	*6750 ***14,900**	*8350 ***18,050**	5850 **12,550**	4950 **10,650**	3100 **6,650**	3150	2050			*2550 ***5,600**	2000 **4,400**	6.21 **20.21**
–4.5 m **–15.0 ft**	kg **lb**			*6400 ***13,500**	6100 **13,050**	*4000	3250					*3750 ***8,300**	3100 **7,050**	4.64 **14.90**

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

312D/312D L Hydraulic Excavator Specifications

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach
BLADE – None

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	2400 **5,100**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2300 **4,950**	*1850	1500	*1150 ***2,550**	*1150 ***2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	6550 **14,100**	*4400 ***9,500**	3450 **7,450**	*3500 ***7,550**	2200 **4,700**	2450 ***4,750**	1500 **3,150**	*1250 ***2,750**	1200 **2,650**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	6000 **12,800**	*5300 ***11,500**	3200 **6,900**	3400 **7,300**	2050 **4,450**	2400 ***4,050**	1450 **3,050**	*1400 ***3,100**	1250 **2,700**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	5800 **12,400**	5250 **11,250**	3100 **6,600**	3350 **7,150**	2000 **4,300**			*1700 ***3,750**	1400 **3,100**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	5800 **12,450**	5200 **11,200**	3050 **6,600**	3350 **7,150**	2000 **4,300**			*2300 ***5,050**	1850 **4,100**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	6000 **12,950**	*4350 ***9,050**	3200 **6,850**					*3700 ***8,100**	2800 **6,300**	4.95 **15.93**

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R3.0 STICK – 3.0 m (9'10")
BUCKET – 0.52 m³ (0.68 yd³)

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

BOOM – Reach
BLADE – None

		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**											*1400 ***3,100**	*1400 ***3,100**	5.86 **18.73**
6.0 m **20.0 ft**	kg **lb**							*2250 ***4,450**	*2250 ***4,450**			*1200 ***2,650**	*1200 ***2,650**	7.22 **23.47**
4.5 m **15.0 ft**	kg **lb**							*2600 ***5,750**	2250 **4,800**			*1150 ***2,500**	*1150 ***2,500**	8.00 **26.14**
3.0 m **10.0 ft**	kg **lb**					*3300 ***7,150**	*3300 ***7,150**	*2950 ***6,450**	2200 **4,650**			*1150 ***2,550**	1150 **2,550**	8.38 **27.47**
1.5 m **5.0 ft**	kg **lb**			*6750 ***14,500**	6200 **13,350**	*4400 ***9,500**	3300 **7,050**	3350 **7,150**	2050 **4,400**	*1850	1400	*1250 ***2,750**	1100 **2,450**	8.43 **27.67**
Ground Line	kg **lb**			*8200 ***18,550**	5650 **12,100**	5100 **10,950**	3050 **6,500**	3200 **6,900**	1950 **4,150**	2300 ***4,750**	1400 **2,900**	*1400 ***3,100**	1150 **2,500**	8.17 **26.80**
–1.5 m **–5.0 ft**	kg **lb**	*4000 ***8,950**	*4000 ***8,950**	*8350 ***18,700**	5450 **11,700**	4950 **10,650**	2900 **6,200**	3150 **6,750**	1850 **4,000**	2250 ***4,050**	1350 **2,850**	*1700 ***3,750**	1300 **2,900**	7.55 **24.74**
–3.0 m **–10.0 ft**	kg **lb**	*6550 ***14,700**	*6550 ***14,700**	*8500 ***18,350**	5500 **11,750**	4950 **10,600**	2900 **6,200**	3150 **6,750**	1900 **4,000**			*2300 ***5,050**	1700 **3,800**	6.47 **21.08**
–4.5 m **–15.0 ft**	kg **lb**			*6750 ***14,350**	5700 **12,200**	*4350 ***9,050**	3000 **6,450**					*3700 ***8,100**	2600 **5,950**	4.95 **15.93**

* 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 SAE J1097 DEC2005. 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.

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

312D/312D L Standard Equipment

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

Alternator, 50 amp

Automatic engine speed control

Bolt-on Falling Object Guard System (FOGS) capability

Cab

- AM/FM radio, 24-volt
- Ashtray with cigar lighter
- Coat hook
- Beverage 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 sun shade

Storage compartment

Travel control pedals with removable hand levers

Door locks and cap locks 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

Undercarriage

- Idler section track guiding guards
- Center section track guiding guards (for 312D L)
- Track-type undercarriage with grease lubricated seals

312D/312D L Optional Equipment

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

Fine swing control

Front windshield guard

Hand control pattern changer

Heavy-duty bottom guard

High ambient cooling system

Power supply 7A-12V

Pull down sunscreen

Rain protector

Right side boom lights

Side steel bumper

Secondary exit, rear window

Stick and boom configurations

- 3.0 m (9'10") stick
- 2.8 m (9'2") stick
- 2.5 m (8'2") stick

Sun visor

Swivel guard

Vandalism protection

Water level indicator for water separator

Notes

312D/312D 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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