315B
315B L

Hydraulic Excavator

CAT®

Operating weight up to:		
315B	16 300 kg	35,900 lb
315B L	16 700 kg	37,000 lb
Travel Speed (maximum)	5.5 km/h	3.4 mph
Cat® 3046T Diesel Engine (Gross)	76 kW	102 hp
(Flywheel power)	74 kW	99 hp

315B Hydraulic Excavator

Improved performance and rugged durability combine to maximize productivity.

Operator Station

✔ *Roomy, quiet, automatically climate controlled cab has excellent sightlines to the work area* to help keep operator fatigue low and production up throughout the entire shift. **pg. 4-5**

Serviceability

Simplified service through many ground level service points, improved filtration and filter access, and electronic diagnostics means increased productivity. **pg. 6**

Electronic Control System

Maximizes fuel efficiency and performance by maintaining the optimum balance between engine speed and hydraulic demand. **pg. 7**

Improved performance.
Better controllability, higher stick and bucket forces, increased lift capacity, simplified service and a more comfortable operator station increase your productivity and lower your operating costs.

Hydraulics

✔ *New higher pressure Caterpillar® hydraulics provide increased break-out and crowd forces to maximize bucket loads and decrease cycle times.* The Cat Electronic Power Control System allows smooth, efficient operation. **pg. 8**

Engine

The 315B is powered by the Cat 3046T engine. This engine includes several design features which enhance performance, efficiency and reliability. **pg. 9**

Undercarriage

Cat designed excavator undercarriage is stable, durable and low maintenance.

✔ *New smoother track roller frames are easier to clean.* **pg. 10**

Booms and Sticks

Three sticks are available to meet your needs. A selection of buckets helps tailor the machine to your application. **pg. 11**

Structures

Caterpillar design and manufacturing techniques assure outstanding durability and service life from these important components. **pg. 11**

✔ *New feature*

Operator Station

Designed for comfort and ease of operation.

This operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design, and highly efficient ventilation. The result is a cab that puts the operator firmly and comfortably in control which can translate into greater productivity.

Excellent viewing area through large, wide windows. A large push-open skylight provides upward visibility. The upper front windshield features a pillar mounted wiper to provide unobstructed front viewing.

The upper left side door window can slide open. The lower window provides a view to the tracks and the ground next to the machine. The rear window offers a good view behind and to the left, aided by a low engine hood profile.

Greater control convenience. Each of the controls is positioned within easy reach of the operator.

The double wall, pressed cab shell is mounted to the swing frame using viscous mounts for reduced sound and vibrations.

1 **Caterpillar Electronic Control System panel** includes fuel level, hydraulic oil temperature and engine coolant temperature gauges, machine condition indicators and operator controls in a single console for ease of use (refer to Electronic Control System on page 7).

2 **Ventilation system.** At the touch of a switch, the operator can choose between fresh, recirculated or (optional) air conditioning.

3 **Joysticks control all implements** and swing functions with minimal effort. The integrated joystick consoles adjust to operator preference. Joystick consoles are suspended as part of the seat arrangement.

4 **Dial throttle** with ten settings for simple, precise engine speed adjustment.

5 **Hand or foot actuated travel controls** allow the operator to move the excavator while working the front-end. Hand levers are easily removable.

6 **Hydraulic activation control lever** deactivates hydraulic functions and prevents start-up when the operator exits the cab.

7 **The fully adjustable standard suspension seat** includes an impressive range of comfort features. It has fore/aft height and weight adjustments and a retractable seat belt.

Serviceability

Simplified service and maintenance features save time and money.

Faster, easier maintenance means improved uptime and a better value.

More ground level service points for fuel-water separator, battery, radiator fluid level, window washer fluid level and pilot system filter.

Improved filters and filter locations makes maintenance easier.

- Hydraulic capsule filter moved to outside hydraulic tank. New design avoids spills and contamination during replacement. Indicator in cab signals when the filter needs to be replaced, extending filter service life. This system includes a Scheduled Oil Sampling port to simplify sampling.
- Radial seal air cleaner has double layered filter core for better filtration. No tools required to change. Operator is alerted to clogs.
- Engine oil filter is located higher in the engine compartment for easier access.
- Pilot hydraulic system filter keeps contaminates away from the pilot system.

Design and layout improvements translate to ease of use.

- Front linkage pin puller holes promote easier disassembly of front linkage.
- Cotter pin retained track master pin simplifies disassembly and assembly.

Water separator removes water from fuel even when under pressure and is located in the pump compartment.

Remote greasing block on the boom and two grease points for the swing bearing deliver grease to hard to reach locations.

Electronic Power Unit Control has diagnostic capabilities for Cat dealer's use.

- Dealer service technicians can quickly and easily diagnose and adjust machine components, maximizing uptime.

Electronic Control System

The Electronic Control System manages the engine and hydraulics for maximum performance.

Electronic Power Unit Control System controls state-of-the-art hydraulics and engine performance for maximized productivity, increased fuel efficiency, and lower emission and sound levels.

Automatic Engine Speed Control reduces engine speed to 1300 rpm during light-load or no-load applications. Button on right control lever engages low idle function reducing engine speed to 1100 rpm. Press again to return to previous setting.

Electronic Engine Underspeed Control balances engine and hydraulic output for maximum performance and fuel efficiency.

- It adjusts hydraulic pump output to maintain engine rpm in optimum range.
- 100 percent of engine power is available for the hydraulic system.

Operator control panel allows optimization of performance in all applications. The high contrast back-lit liquid crystal display includes:

1 **Power Mode Selector changes engine power** and speed at the touch of a button.

- **Economy Mode** sets engine power at 90 percent and is used during normal and utility operations to reduce fuel consumption and sound levels.
- **Power Up Mode** sets engine power at 100 percent for high production truck loading, trenching, and high-speed travel.

Work Mode Selector matches hydraulic characteristics to the application.

2 **Boom Priority Mode** gives priority flow to the boom for deep trenching and truck loading, where there is significant boom movement relative to swing.

3 **Swing Priority Mode** gives swing flow priority and is especially suited to sidewall digging.

4 **Fine Control Mode** optimizes hydraulic pump output for applications like slope finishing or precision lifting which require smoother control.

5 **User Mode** allows the operator to choose from three submodes:

- **Tamping Mode** adjusts boom speed and force to keep machine motion at a minimum when compacting material with the bucket.
- **Hammer Mode** allows pump flow and hydraulic pressure adjustments to enhance hammer effectiveness.
- **Customer Mode** allows a customized combination of a work mode, power mode, and hydraulic output to be selected, recorded, and recalled for later use.

Machine monitoring system uses a progression of indicators, action lamps, and alarms to inform the operator of machine conditions.

Service Mode of the Electronic Power Unit Control delivers fast, detailed diagnosis of machine conditions improving uptime (refer to Serviceability).

Hydraulics

Caterpillar hydraulics deliver power and control to keep material moving at high volume.

Dramatically increased control responsiveness aids operation and improves cycle time.

- Control movements better matched to hydraulic action for improved operator performance.
- Improved swing damping restrains drift and improves positioning during finishing and lifting applications.

Nine percent increase in hydraulic relief pressure increases stick and bucket forces for better productivity, nine percent higher lift capacity (at lifting points limited by hydraulic pressure) and a wider range of workable material.

Hydraulic cross-sensing system improves productivity with faster implement speeds and quicker, stronger pivot turns.

- 100 percent of engine horsepower deliverable as hydraulic power.
- Full power to a single motor for strong, fast turns. Balanced power to two pumps for straight travel.

Boom regeneration circuit diverts oil to lower the boom. Pumps have all pressure and flow available for other circuits.

Stick regeneration circuit diverts oil to assist stick-in operation. Flow from the pumps can be directed to other circuits, saving energy.

Pump flow decreases when controls are in neutral for reduced fuel consumption and sound.

Auxiliary hydraulic valve is standard on the 315B for use with optional hydraulic circuits.

Hydraulic cylinder snubbers at rod-end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life.

Cat XT hose meets the critical flexibility and strength demands of the 315B.

- O-ring face seal couplings provide positive sealing for reliable, leak-free connections.

Cat 3046T Engine

The six cylinder turbo-charged engine is built for power, reliability, economy and low emissions.

Automatic Engine Control with convenient one-touch command (refer to page 7). Three-stage control maximizes fuel efficiency and reduces sound levels.

- When placed in the "OFF" mode, if a no-load condition or light-load condition continues more than three seconds, the automatic engine control reduces engine speed by 100 rpm.
- When placed in the "ON" mode, if a no-load condition or light-load condition continues more than three seconds, the automatic engine control reduces engine speed from high idle to 1300 rpm.
- At any time, the operator can activate a switch on the top of the right control lever to reduce the engine speed to 1100 rpm. This feature, referred to as one-touch idle, can be used both to conserve fuel and to reduce engine sound levels. Activate switch again to return to previous level.

Efficient, direct injection fuel system means lower operating costs.

Turbo-charged to increase engine power by burning fuel with greater efficiency.

Eight balance, one-piece, forged crankshaft enhances balance and decreases vibration and is induction hardened to improve abrasion resistance.

Heat resistant aluminum alloy pistons have a short compression height, reducing weight and improving efficiency.

Forged, high carbon steel connecting rods with smaller connecting rod to crank radius ratio results in a lightweight, powerful, compact engine.

Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.

Precision robotic welding helps ensure quality welds. These welds increase rigidity, reduce internal stresses and enhance durability for the chassis and track roller frames.

Heavy-duty, X-shaped chassis design. Cat undercarriage components are purposely oversized to offer heavy-duty performance and durability.

Strutted track links are sealed for longer life. Track rollers, carrier rollers and idlers are also sealed and lubricated for excellent service life.

Smoother auto shifting two-speed travel motors offer top travel speeds and plenty of pull on slopes or turns.

Two undercarriage choices:

Standard (STD) undercarriage is well suited for applications that require frequent repositioning of the machine, have restricted working space, or have uneven or rocky terrain.

Long (L) undercarriage maximizes stability and lifting capacity. Long and sturdy undercarriage offers a very stable work platform.

The elimination of the ledge at carbody and roller frame juncture reduces material build-up and makes digging out easier.

Standard idler guards maintain track alignment. Optional center section guards (standard on the 315B L) are available for additional protection on side slopes.

Booms and Sticks

The 315B has designed-in flexibility to help bring higher versatility and efficiency to your jobs.

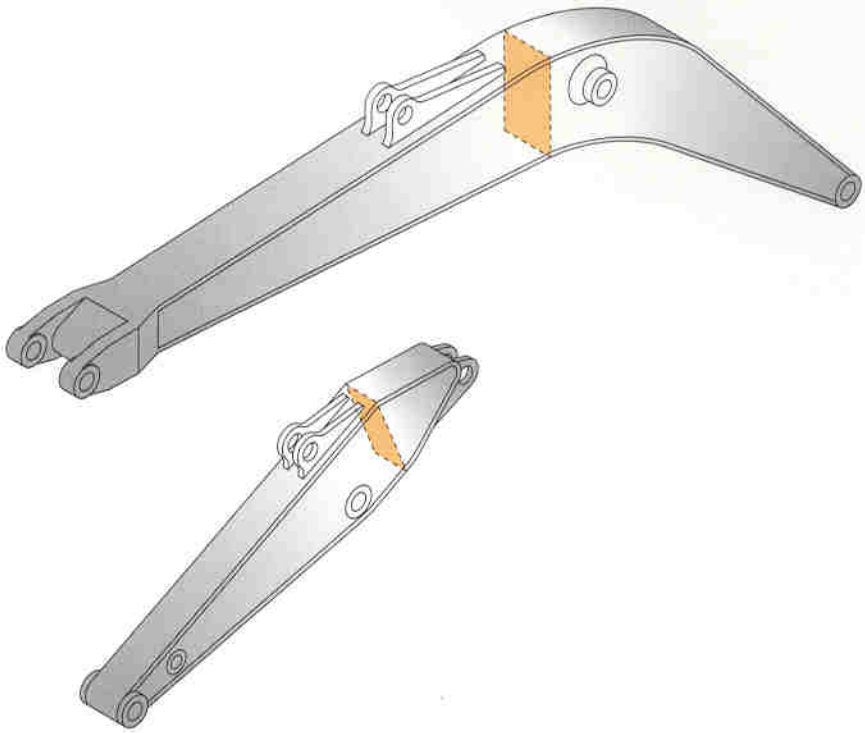
Select the right combination for the job with your Cat dealer and you'll help ensure top production from the start.

Caterpillar excavator booms and sticks are built for performance and long service life.

- Large, welded, box-section structures with thick, multi-plate fabrications in high-stress areas.
- Construction allows structures to flex and dissipate stresses.

The choice of three sticks plus a wide selection of buckets and attachments, means the 315B offers several combinations of reach and digging forces for optimum versatility.

Choose from a variety of work tools such as hammers, compactors, grapples or crushers. Ask your Cat dealer for information on attachments or special configurations.



Structures

The 315B structural components are the backbone of the machine's durability.

Advanced carbody design stands up in the toughest applications.

- Modified X-shaped, box-section carbody provides excellent resistance to torsional bending.
- Upper structure weight and stresses are distributed evenly across the full length of the track roller frame.
- Smooth transitions and long welds reduce stresses at the carbody-to-roller frame junctions for excellent durability.
- Robot welding ensures consistent, high-quality welds throughout the manufacturing process.

Robot-welded track roller frames are press-formed, pentagonal units that deliver exceptional strength and service life.

Rugged main frame is designed for maximum durability and efficient use of materials.

- Outer frame utilizes curved side rails, which are die-formed, for excellent uniformity and strength throughout the length.
- Box-section channels improve upper frame rigidity under the cab.
- Inverted U-channels span the width of the main frame and are formed, rather than fabricated, for superior strength and reduced weight.
- Boom tower and main rails are constructed of solid, high-tensile strength steel plates.
- Boom foot and engine mount areas reinforced for additional strength.
- Sheet metal supporting structure is improved by integrating the mounting into upper frame structure.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. To help you get the best return on your investment, the dealer will help you choose a plan that can cover everything from machine and attachment selection to replacement.

Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements? What production is needed? What is the true cost of lost production? Your Cat dealer can give you precise answers to these questions.

Purchase. Look past initial price. Consider the financing options available as well as day-to-day operating costs. This is also the time to look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training videotapes, literature and other ideas to help you increase productivity.

Maintenance. What is the cost of preventive maintenance? More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Product support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Engine

Caterpillar 3046T turbo-charged six cylinder diesel engine.

Ratings at 2100 rpm*	kW	hp
Gross power	76	102
Net power	74	99

The following ratings apply at 2100 rpm when tested under the specified standard conditions for the specified standard:

Net power	kW	hp
Caterpillar	74	99
ISO 9249	74	99
SAE J1349	74	99
EEC 80/1269	74	99

Dimensions

Bore	94 mm	3.70 in
Stroke	120 mm	4.72 in
Displacement	5.0 liters	305 in^3

***Power rating conditions**

- based on standard air conditions of 25°C (77°F) and 99 kPa (29.32 in Hg) dry barometer
- used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30°C (86°F) [ref. a fuel density of 838.9 g/L (7.001 lb/U.S. gal)]
- 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 1500 m (5000 ft) altitude

Features

- fuel injectors control fuel delivery more efficiently, resulting in better performance, fuel economy, and reduced noise and smoke
- 24-volt electric system with 50-amp alternator and two 100-amp/hr batteries
- low profile, heat-resistant, aluminum alloy pistons
- high carbon, steel forged connecting rods
- precision cast cylinder head with helical intake ports
- one-piece, induction hardened forged alloy crankshaft

Hydraulic System

Two variable displacement, axial-piston pumps power the boom, stick, swing, bucket, auxiliary and travel circuits. One single-section, gear-type pump powers the pilot circuit.

Main Implement System	
Maximum flow	2 x 132 liters/min (2 x 35 gpm)
Maximum pressure	
Implements	350 kg/cm^2 (4980 psi)
Travel	350 kg/cm^2 (4980 psi)
Swing	235 kg/cm^2 (3340 psi)
Pilot System	
Maximum flow	17 liters/min (4.5 gpm)
Maximum pressure	40 kg/cm^3 (570 psi)
Cylinders, Bore and Stroke	
Boom (2)	110 x 1193 mm (4.3" x 47")
Stick (1)	120 x 1131 mm (4.8" x 52.4")
Bucket (1)	100 x 1048 mm (4.0" x 41.3")

Features

- main hydraulic pumps are electronically controlled and dependent on engine speed
- power modes match hydraulic output to application severity
- XT hose

Drive

Drive system is fully hydrostatic.

Ratings		
Maximum drawbar pull	131 kN	(29,480 lb)
Maximum travel speed	5.5 km/h	(3.4 mph)

Features

- each track is driven by one independent, automatic shifting, two-speed axial piston motor via integral planetary final drives
- each drive module is well integrated into the roller frame for total protection

Brakes

Meets the following standards:
SAE J1026 APR90

Service and parking brake features

- wet, multiple-disc brakes are used on the final drive input shafts
- spring-applied, hydraulically released
- actuating a travel control simultaneously releases the brakes
- when the controls are released, the brakes automatically apply

Buckets

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

Width*		Capacity		Number	Weight with Teeth		Tip Radius	
mm	in	m^3	yd^3	of Teeth	kg	lbs	mm	in
610	24	0.37	0.48	3	419	924	1340	53
760	30	0.49	0.64	4	471	1038	1340	53
930	36	0.60	0.78	5	517	1140	1340	53
1070	42	0.69	0.90	6	566	1248	1340	53
1220	48	0.84	1.09	6	609	1343	1340	53

				Recommended Maximum Material Density					
Width*		Capacity		Short Stick		Medium Stick		Long Stick	
mm	in	m^3	yd^3	kg/m^3	lbs/yd^3	kg/m^3	lbs/yd^3	kg/m^3	lbs/yd^3
610	24	0.38	0.50	1800	3000	1800	3000	1800	3000
760	30	0.50	0.65	1800	3000	1800	3000	1800	3000
930	36	0.61	0.80	1800	3000	1800	3000	1500	2500
1070	42	0.69	0.90	1800	3000	1500	2500	1200	2000
1220	48	0.84	1.10	1500	2500	1200	2000	Not recommended	

For densities of other materials see Caterpillar Performance Handbook

* Width across bucket sidewalls. For cutting width add 75 mm (3")

Steering

Two rocker pedals with detachable hand levers control steering and travel functions.

Controls

- controls are pilot-operated for reduced efforts
- left pedal and lever control left track; right pedal and lever control right track
- when idlers are in front, pushing both pedals or levers forward moves the excavator straight ahead
- when the idlers are in front, rocking both pedals or pulling both levers backward moves the excavator straight back
- moving one pedal or lever more than the other, either forward or backward, results in a gradual turn
- moving one pedal or lever forward and the other pedal or lever backward counter-rotates the tracks for spot turns

Undercarriage

Caterpillar designed and built track-type undercarriage.

Track Width	Ground Pressure	
	315B	315B L
500 mm (20") triple grouser	48 kPa (7.02 psi)	33 kPa (6.63 psi)
600 mm (24") triple grouser	41 kPa (6.00 psi)	39 kPa (5.75 psi)
700 mm (28") triple grouser	35 kPa (5.13 psi)	33 kPa (4.87 psi)

Implement Controls

Two joystick hand levers actuate boom, stick, bucket and swing (SAE pattern).

Boom/Bucket Controls (right joystick)

- move forward and backward to lower and raise boom
- move left and right to control bucket curl and dump
- button on top is one-touch low idle

Stick/Swing Controls (left joystick)

- move forward and backward to move stick out and in
- move left and right to control direction of swing
- button on top controls horn

Other Features

- oblique movement of either lever operates two functions simultaneously
- manually applied lever on left console cuts off pilot pressure for joysticks and travel controls and electrical power for engine starting circuit

Service Refill Capacities

	L	Gallons
Fuel Tank	280	74
Cooling System	19	5
Engine Oil	13.0	3.4
Swing Drive	3.0	0.80
Final Drive (each)	2.6	0.70
Hydraulic System (including tank)	188	48.9
Hydraulic Tank	105	27.3

Swing Mechanism

Hydrostatic with independent planetary reduction.

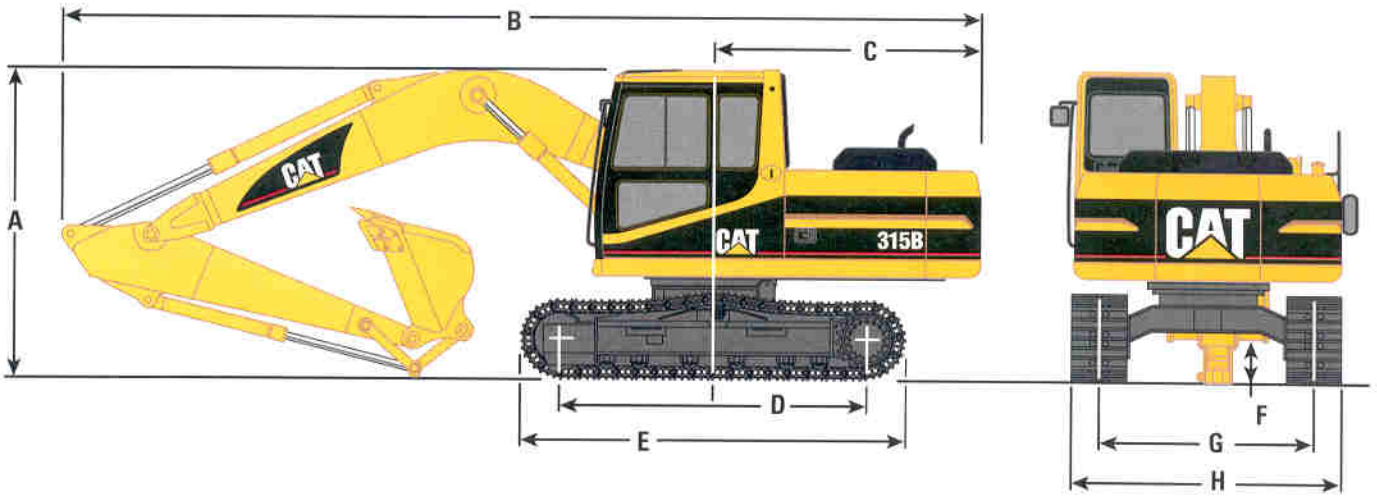
Ratings	
Swing Torque	38.5 kN·m (28,420 lb ft)
Swing Speed	10.1 rpm

Features

- the swing mechanism is driven by a pinion gear sealed in a grease bath through a double-reduction planetary gear set

Dimensions

All dimensions are approximate.



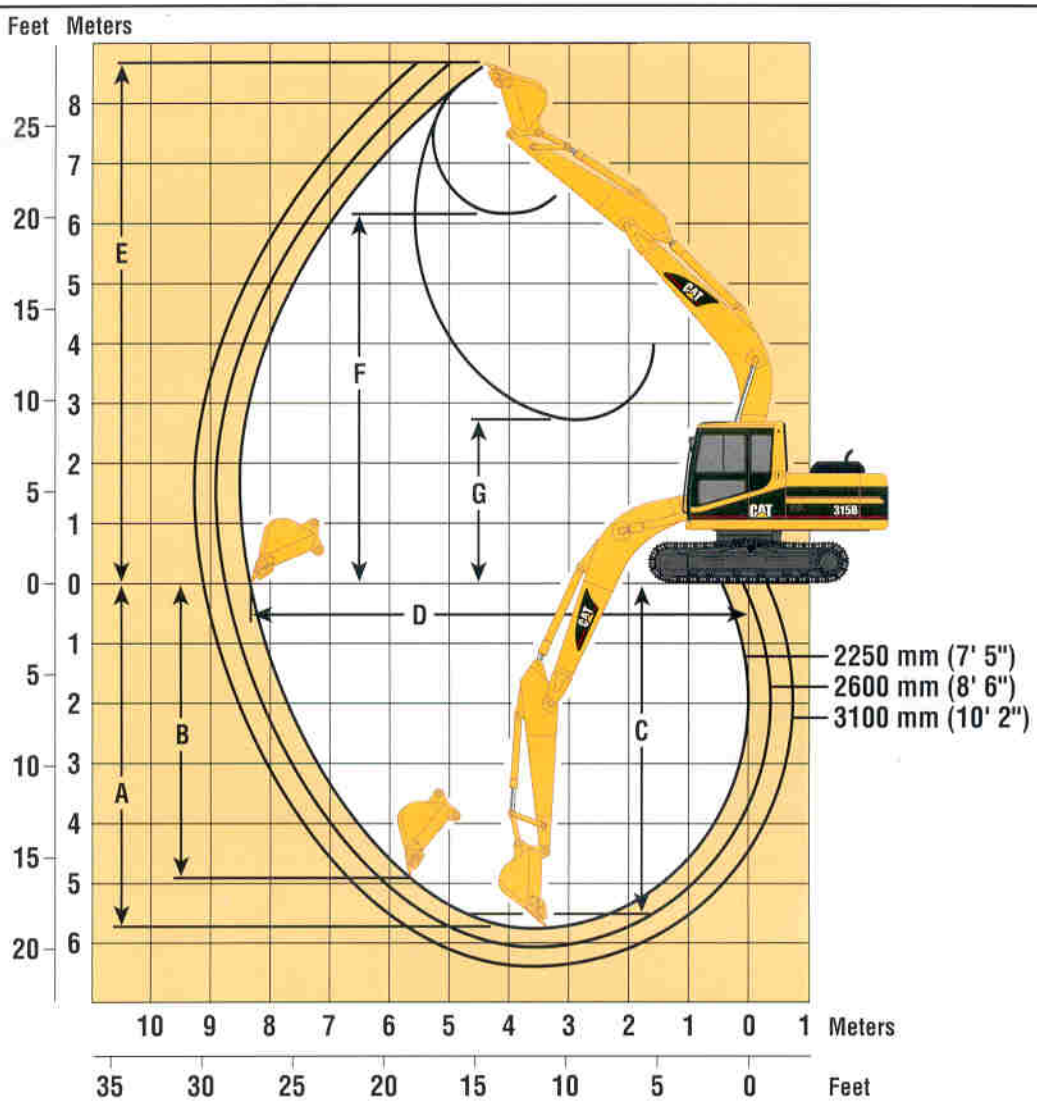
	2250 mm (7'5") Stick	2600 mm (8'6") Stick	3100 mm (10'2") Stick
A Shipping height	2780 mm (9'1.4")	2860 mm (9'4.6")	2990 mm (9'9.7")
B Shipping length	8470 mm (27'9.5")	8500 mm (27'10.6")	8520 mm (27'11.4")
C Tail swing radius	2450 mm (8'0.5")	2450 mm (8'0.5")	2450 mm (8'0.5")
D Length to centers of rollers			
315B	2880 mm (9'5")	2880 mm (9'5")	2880 mm (9'5")
315B L	3170 mm (10'5")	3170 mm (10'5")	3170 mm (10'5")
E Track length			
315B	3685 mm (12'1")	3685 mm (12'1")	3685 mm (12'1")
315B L	3970 mm (13'0.5")	3970 mm (13'0.5")	3970 mm (13'0.5")
F Ground clearance	460 mm (18")	460 mm (18")	460 mm (18")
G Track gauge	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
H Transport width	with 500 mm (20") 2490 mm (8'2")	with 600 mm (24") 2590 mm (8'6")	with 700 mm (28") 2690 mm (8'10")

Machine Weights

Caterpillar designed and built track-type undercarriage.

Track Width		Operating Weight (Short Stick)		Machine Weight (Medium Stick)		Operating Weight (Long Stick)	
315B	500 mm (20") triple grouser	15 800 kg	(34,800 lb)	15 800 kg	(34,800 lb)	15 900 kg	(35,000 lb)
	600 mm (24") triple grouser	16 020 kg	(35,280 lb)	16 020 kg	(35,280 lb)	16 120 kg	(35,480 lb)
	700 mm (28") triple grouser	16 220 kg	(35,720 lb)	16 220 kg	(35,720 lb)	16 320 kg	(35,920 lb)
315B L	500 mm (20") triple grouser	16 160 kg	(35,670 lb)	16 160 kg	(35,670 lb)	16 260 kg	(35,870 lb)
	600 mm (24") triple grouser	16 400 kg	(36,200 lb)	16 400 kg	(36,200 lb)	16 500 kg	(36,400 lb)
	700 mm (28") triple grouser	16 610 kg	(36,670 lb)	16 610 kg	(36,670 lb)	16 710 kg	(36,870 lb)

Working Ranges



Stick Length	3100 mm (10'2") Stick	2600 mm (8'6") Stick	2250 mm (7'5") Stick
A Maximum Digging Depth	6555 mm (21'6")	6055 mm (19'10")	5705 mm (18'9")
B Maximum Reach at Ground Level	9140 mm (30'0")	8740 mm (28'8")	8420 mm (27'7")
C Maximum Cutting Height	8970 mm (29'5")	8910 mm (29'3")	8735 mm (28'8")
D Maximum Loading Height	6410 mm (21'0")	6320 mm (20'9")	6150 mm (20'2")
E Minimum Loading Height	1840 mm (6'0")	2340 mm (7'8")	2690 mm (8'10")
F Maximum Depth Cut for 2440 mm (8') Level Bottom	6330 mm (20'9")	5825 mm (19'1")	5455 mm (17'11")
G Maximum Vertical Wall Digging Depth	5570 mm (18'3")	5335 mm (17'6")	4930 mm (16'2")
Stick Digging Force (SAE)	68 kN (15,280 lb)	76 kN (17,080 lb)	84 kN (18,880 lb)
Bucket Digging Force (SAE)	99 kN (22,250 lb)	99 kN (22,250 lb)	99 kN (22,250 lb)

Standard Equipment

Standard and optional equipment may vary. Consult your Caterpillar dealer for specifics.

- Alternator, 50-amp
- Automatic engine speed control
- Automatic swing parking brake
- Auxiliary hydraulic valve
- Cab
  - Ash tray with cigar lighter
  - Coat hook
  - Drink holder
  - Floor mat
  - Heater and defroster
  - Horn
  - Instrument panel with gauges
    - Gauges and indicator lights for fuel level, coolant temperature and hydraulic oil temperature
  - Joysticks, adjustable pilot-operated
  - Light, interior
  - Literature compartment
  - Low fuel indicator light
  - Metal roof hatch
  - Positive filtered ventilation
  - Seat, suspension, fully adjustable
  - Seat belt, retractable
  - Storage compartment suitable for a lunch box cooler
  - Travel control pedals
    - Two-speed auto shift travel
  - Windshield wiper and washer
- Counterweight, 3000 kg (6600 lb)
- Door locks and caps locks with Caterpillar one-key security system
- Hydraulic neutralizer lever for all controls
- Light, working, frame mounted, one
- Mirrors, frame and cab
- Muffler
- Pre-start monitoring system
- Power Mode Selector
- Power train
  - CAT 3046T Diesel engine with 24-volt electric starting and air intake heater
- Undercarriage
  - Hydraulic track adjusters
  - Track-type sealed undercarriage
  - Idler section track guiding guards
  - 315B 500 mm (20") triple grouser shoes
  - 315B L 600 mm (24") triple grouser shoes and center section track guiding guards
- Work Mode Selector

Optional Equipment

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

- Air conditioner, with automatic climate control
- Alarm, travel (required in U.S.)
- Boom, with light, left side
- Boom lowering check valve
- Buckets
- Bucket linkage
- Bucket sidecutters and tips
- Bumpers, steel side protectors
- Cabs, optional:
  - Cab, with polycarbonate windows (required in the U.S.)
  - Cab, with radio mount and vandal bosses
- Cooling, high ambient 52°C (125°F)
- Fuel tank, additional capacity (20 hr)
- Guards:
  - Center section track guiding, for 315B (standard on 315B L)
  - Heavy-duty bottom
  - Track guiding, front section
  - Track guiding, rear section
  - Vandalism protection
- Hand control pattern changer:
  - 2 ways (SAE/STD BHL)
- Headrest for standard seat
- Hydraulic arrangements, auxiliary:
  - Single function arrangement
  - Double function arrangement
  - Combined function arrangement, includes two pump flow
  - Two pump flow arrangement
- Hydraulic lines, auxiliary for boom and sticks
- Lights, working, cab mounted, two
- Power supply, 12V-5A
- Radio, AM/FM, stereo
- Rain protection, cab front
- Seat, suspension, fully adjustable KAB524
- Skylight, push-open
- Starting aid, cold weather
- Starting system, cold weather
- Sticks:
  - 3100 mm (10'2")
  - 2600 mm (8'6")
  - 2250 mm (7'5")
- Sun visor, windshield
- Track:
  - 500 mm (20") triple grouser
  - 600 mm (24") triple grouser
  - 700 mm (28") triple grouser
- Water separator
- Wiper and washer, lower windshield

Lift Capacities - 2250 mm (7'5") Stick, 500 mm (20") Shoes, Standard Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.25 STICK – 2250 mm (7'5")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m 25.0 ft	kg lb									*2000 *4400	*2000 *4400	5.80 18.55
6.0 m 20.0 ft	kg lb							*3150 *6900	2750 6100	*1800 *3950	*1800 *3950	7.15 23.25
4.5 m 15.0 ft	kg lb					*4300 *9250	*4300 *9250	3900 8350	2700 5750	*1750 *3900	1650 3650	7.89 25.81
3.0 m 10.0 ft	kg lb			*8650 *18,350	7850 16,950	*5550 *11,900	4150 8900	3750 8100	2600 5550	*1850 *4000	1450 3200	8.23 26.97
1.5 m 5.0 ft	kg lb					5700 12,250	3800 8150	3600 7750	2450 5200	*2000 *4350	1400 3100	8.22 26.96
Ground Line	kg lb			*5500 *12,700	*5500 *12,700	5450 11,700	3600 7700	3500 7450	2300 4950	*2250 *5000	1500 3250	7.86 25.80
–1.5 m –5.0 ft	kg lb	*5300 *11,850	*5300 *11,850	*9600 *21,850	6700 14,350	5400 11,550	3500 7550	3450 7350	2300 4900	2700 5900	1800 3900	7.11 23.28
–3.0 m –10.0 ft	kg lb	*9650 *21,700	*9650 *21,700	*10 050 *21,700	6850 14,750	5450 11,700	3600 7650			*3250 *7000	2550 5700	5.79 18.79
–4.5 m –15.0 ft	kg lb			*7000 *15,400	*7000 *15,400					*5000 *11,350	4450 10,600	4.08 12.69

Lift Capacities - 2600 mm (8'6") Stick, 500 mm (20") Shoes, Standard Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.6 STICK – 2600 mm (8'6")
BUCKET – 0.69 m³ (0.9 yd³)

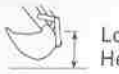
UNDERCARRIAGE – Standard
SHOES – 500 mm (20") triple grouser

BOOM – 5200 mm (16'9")

		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											*1700 *3700	*1700 *3700	6.27 20.15
6.0 m 20.0 ft	kg lb							*3250 *6650	2800 6000			*1550 *3350	*1550 *3350	7.52 24.48
4.5 m 15.0 ft	kg lb							*3650 *7900	2750 5850			*1500 *3300	*1500 *3300	8.22 26.90
3.0 m 10.0 ft	kg lb			*7650 *16,300	*7650 *16,300	*5150 *11,050	4200 9050	3800 8100	2600 5550	2550 *5200	1700 3600	*1550 *3400	1350 2950	8.54 28.01
1.5 m 5.0 ft	kg lb			*5600 *13,450	*5600 *13,450	5750 12,350	3850 8250	3600 7750	2450 5200	2500 5300	1650 3500	*1700 *3700	1300 2850	8.53 28.01
Ground Line	kg lb			*5900 *13,600	*5900 *13,600	5500 11,750	3600 7700	3500 7450	2300 4950	2400 5300	1600 3450	*1950 *4250	1350 3000	8.20 26.90
–1.5 m –5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9000 *20,500	6650 14,250	5350 11,500	3500 7500	3400 7300	2250 4800			*2400 *5250	1600 3500	7.49 24.52
–3.0 m –10.0 ft	kg lb	*8450 *19,000	*8450 *19,000	*10 550 *22,800	6800 14,550	5400 11,600	3500 7550	3450 7400	2300 4900			3300 7350	2200 4900	6.26 20.36
–4.5 m –15.0 ft	kg lb			*8000 *17,000	7100 15,250	*5200 *11,400	3700 8150					*4900 *10,800	3550 8100	4.65 14.92

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3100 mm (10'2") Stick, 500 mm (20") Shoes, Standard Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

3.1 STICK – 3100 mm (10'2")
BUCKET – 0.49 m³ (0.64 yd³)

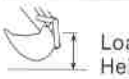
UNDERCARRIAGE – Standard
SHOES – 500 mm (20") triple grouser

BOOM – 5200 mm (16'9")

		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 ***3300**	*1500 ***3300**	6.84 **22.05**
6.0 m **20.0 ft**	kg **lb**							*3000 ***6500**	2900 **6200**			*1400 ***3050**	*1400 ***3050**	7.98 **25.99**
4.5 m **15.0 ft**	kg **lb**							*3300 ***7200**	2850 **6050**	*2250 ***4100**	1850 **3850**	*1400 ***3000**	*1400 ***3000**	8.64 **28.26**
3.0 m **10.0 ft**	kg **lb**			*6350 ***14,000**	*6350 ***14,000**	*4600 ***9900**	4350 **9350**	*3900 **8300**	2700 **5750**	2600 **5600**	1750 **3750**	*1450 ***3150**	1300 **2800**	8.94 **29.31**
1.5 m **5.0 ft**	kg **lb**			*9800 ***21,300**	7300 **15,750**	5850 **12,600**	3950 **8450**	3700 **7900**	2500 **5350**	2550 **5400**	1700 **3600**	*1550 ***3450**	1250 **2700**	8.93 **29.30**
Ground Line	kg **lb**			*7000 ***16,100**	6700 **14,400**	5500 **11,850**	3600 **7750**	3500 **7500**	2350 **5000**	2450 **5250**	1600 **3450**	*1800 ***3950**	1300 **2800**	8.61 **28.26**
–1.5 m **–5.0 ft**	kg **lb**	*4750 ***10,600**	*4750 ***10,600**	*8900 ***20,300**	6550 **14,050**	5350 **11,450**	3450 **7450**	3400 **7300**	2250 **4800**	2400 **5300**	1600 **3450**	*2200 ***4850**	1450 **3200**	7.95 **26.03**
–3.0 m **–10.0 ft**	kg **lb**	*7600 ***17,000**	*7600 ***17,000**	11 000 **23,600**	6600 **14,250**	5350 **11,450**	3450 **7400**	3400 **7300**	2250 **4800**			2850 **6350**	1900 **4250**	6.82 **22.22**
–4.5 m **–15.0 ft**	kg **lb**	*11 500 ***26,000**	*11 500 ***26,000**	*9100 ***19,500**	6900 **14,800**	5500 **11,800**	3600 **7750**					*3000 ***7300**	*3000 ***7300**	4.89 **15.69**

Should the chart below have 600 mm shoes to match the following charts on pg 20?

Lift Capacities - 2250 mm (7'5") Stick, 600 mm (24") Shoes, Long Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.25 STICK – 2250 mm (7'5")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*2000 ***4400**	*2000 ***4400**	5.80 **18.55**
6.0 m **20.0 ft**	kg **lb**							*3150 ***6900**	2850 **6300**	*1800 ***3950**	*1800 ***3950**	7.15 **23.25**
4.5 m **15.0 ft**	kg **lb**					*4300 ***9250**	*4300 ***9250**	*3900 ***8550**	2800 **6000**	*1750 ***3900**	1700 **3800**	7.89 **25.81**
3.0 m **10.0 ft**	kg **lb**			*8650 ***18,350**	8100 **17,500**	*5550 ***11,900**	4300 **9200**	4450 **9500**	2700 **5750**	*1850 ***4000**	1550 **3250**	8.23 **26.97**
1.5 m **5.0 ft**	kg **lb**					6800 **14,600**	3950 **8450**	4250 **9150**	2550 **5400**	*2000 ***4350**	1500 **3250**	8.22 **26.96**
Ground Line	kg **lb**			*5500 ***12,700**	*5500 ***12,700**	6550 **14,050**	3700 **7850**	4150 **8850**	2400 **5200**	*2250 ***5000**	1550 **3450**	7.86 **25.80**
–1.5 m **–5.0 ft**	kg **lb**	*5300 ***11,850**	*5300 ***11,850**	*9600 ***21,850**	6950 **14,900**	6450 **13,850**	3650 **7850**	4100 **8750**	2400 **5100**	*2800 ***6150**	1850 **4100**	7.11 **23.28**
–3.0 m **–10.0 ft**	kg **lb**	*9650 ***21,700**	*9650 ***21,700**	*10 050 ***21,700**	7100 **15,250**	6550 **14,000**	3700 **8000**			*3250 ***7000**	2650 **5900**	5.79 **18.79**
–4.5 m **–15.0 ft**	kg **lb**			*7000 ***15,400**	*7000 ***15,400**					*5000 ***11,350**	4600 **11,000**	4.08 **12.69**

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2600 mm (8'6") Stick, 600 mm (24") Shoes, Long Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

2.6 STICK – 2600 mm (8'6")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		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											*1700 ***3700**	*1700 ***3700**	6.27 **20.15**
6.0 m **20.0 ft**	kg lb							*3250 ***6650**	2900 **6200**			*1550 ***3350**	*1550 ***3350**	7.52 **24.48**
4.5 m **15.0 ft**	kg lb							*3650 ***7900**	2850 **6200**			*1500 ***3300**	*1500 ***3300**	8.22 **26.90**
3.0 m **10.0 ft**	kg lb			*7650 ***16,300**	*7650 ***16,300**	*5150 ***11,050**	4350 **9350**	*4200 ***9100**	2700 **5750**	*2900 ***5200**	1800 **3750**	*1550 ***3400**	1400 **3100**	8.54 **28.01**
1.5 m **5.0 ft**	kg lb			*5600 ***13,450**	*5600 ***13,450**	*6500 ***14,000**	4000 **8550**	4300 **9150**	2550 **5450**	2950 **6300**	1800 **3650**	*1700 ***3700**	1350 **3000**	8.53 **28.01**
Ground Line	kg lb			*5900 ***13,600**	*5900 ***13,600**	6550 **14,050**	3750 **8000**	4150 **8850**	2400 **5150**	2900 **6350**	1650 **3650**	*1950 ***4250**	1450 **3150**	8.20 **26.90**
–1.5 m **–5.0 ft**	kg lb	*4900 ***10,900**	*4900 ***10,900**	*9000 ***20,500**	6900 **14,800**	6450 **13,800**	3650 **7800**	4050 **8700**	2350 **5000**			*2400 ***5250**	1700 **3700**	7.49 **24.52**
–3.0 m **–10.0 ft**	kg lb	*8450 ***19,000**	*8450 ***19,000**	*10 550 ***22,800**	7050 **15,100**	6500 **13,900**	3650 **7850**	4100 **8800**	2400 **5100**			*3350 ***7450**	2300 **5100**	6.26 **20.36**
–4.5 m **–15.0 ft**	kg lb			*8000 ***17,000**	7350 **15,800**	*5200 ***11,400**	3850 **8400**					*4900 ***10,800**	3700 **8400**	4.65 **14.92**

Lift Capacities - 3100 mm (10'2") Stick, 600 mm (24") Shoes, Long Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

3.1 STICK – 3100 mm (10'2")
BUCKET – 0.49 m³ (0.64 yd³)

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

BOOM – 5200 mm (16'9")

		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 ***3300**	*1500 ***3300**	6.84 **22.05**
6.0 m **20.0 ft**	kg lb							*3000 ***6500**	*3000 **6400**			*1400 ***3050**	*1400 ***3050**	7.98 **25.99**
4.5 m **15.0 ft**	kg lb							*3300 ***7200**	2950 **6250**	*2250 ***4100**	1900 **4000**	*1400 ***3000**	*1400 ***3000**	8.64 **28.26**
3.0 m **10.0 ft**	kg lb			*6350 ***14,000**	*6350 ***14,000**	*4600 ***9900**	4500 **9650**	*3900 ***8400**	2800 **5950**	3100 **6600**	1850 **3900**	*1450 ***3150**	1350 **2950**	8.94 **29.31**
1.5 m **5.0 ft**	kg lb			*9800 ***21,300**	7550 **16,250**	*6050 ***13,050**	4050 **8750**	4350 **9300**	2600 **5500**	3000 **6400**	1750 **3750**	*1550 ***3450**	1300 **2800**	8.93 **29.30**
Ground Line	kg lb			*7000 ***16,100**	6950 **14,950**	6600 **14,150**	3750 **8100**	4150 **8900**	2450 **5200**	2900 **6250**	1700 **3600**	*1800 ***3950**	1350 **2950**	8.61 **28.26**
–1.5 m **–5.0 ft**	kg lb	*4750 ***10,600**	*4750 ***10,600**	*8900 ***20,300**	6800 **14,600**	6450 **13,750**	3750 **7750**	4050 **8700**	2350 **5000**	2850 **6300**	1650 **3600**	*2200 ***4850**	1550 **3350**	7.95 **26.03**
–3.0 m **–10.0 ft**	kg lb	*7600 ***17,000**	*7600 ***17,000**	*11 100 ***23,950**	6900 **14,750**	6400 **13,750**	3600 **7750**	4050 **8700**	2350 **5000**			*2050 ***6750**	2000 **4400**	6.82 **22.22**
–4.5 m **–15.0 ft**	kg lb	*11 500 ***26,000**	*11 500 ***26,000**	*9100 ***19,500**	7150 **15,350**	*6100 ***12,950**	3750 **8050**					*3000 ***7300**	*3000 ***7300**	4.89 **15.69**

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2250 mm (7'5") Stick, 700 mm (28") Shoes, Standard Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.25 STICK – 2250 mm (7'5")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m **25.0 ft**	kg **lb**									*2000 ***4400**	*2000 ***4400**	5.80 **18.55**
6.0 m **20.0 ft**	kg **lb**							*3150 ***6900**	2850 **6250**	*1800 ***3950**	*1800 ***3950**	7.15 **23.25**
4.5 m **15.0 ft**	kg **lb**					*4300 ***9250**	*4300 ***9250**	*3900 ***8550**	2800 **5950**	*1750 ***3900**	1700 **3750**	7.89 **25.81**
3.0 m **10.0 ft**	kg **lb**			*8650 ***18,350**	8050 **17,350**	*5550 ***11,900**	4250 **9150**	3850 **8300**	2650 **5700**	*1850 ***4000**	1500 **3300**	8.23 **26.97**
1.5 m **5.0 ft**	kg **lb**					5850 **12,600**	3900 **8400**	3700 **7950**	2500 **5350**	*2000 ***4350**	1450 **3200**	8.22 **26.96**
Ground Line	kg **lb**			*5500 ***12,700**	*5500 ***12,700**	5600 **12,050**	3700 **7900**	3600 **7700**	2400 **5100**	*2250 ***5000**	1550 **3400**	7.86 **25.80**
–1.5 m **–5.0 ft**	kg **lb**	*5300 ***11,850**	*5300 ***11,850**	*9600 ***21,850**	6900 **14,750**	5550 **11,900**	3600 **7750**	3550 **7600**	2350 **5050**	2750 **6100**	1850 **4050**	7.11 **23.28**
–3.0 m **–10.0 ft**	kg **lb**	*9650 ***21,700**	*9650 ***21,700**	*10 050 ***21,700**	7050 **15,100**	5600 **12,050**	3700 **7900**			*3250 ***7000**	2600 **5850**	5.79 **18.79**
–4.5 m **–15.0 ft**	kg **lb**			*7000 ***15,400**	*7000 ***15,400**					*5000 ***11,350**	4550 **10,900**	4.08 **12.69**

Lift Capacities - 2600 mm (8'6") Stick, 700 mm (28") Shoes, Standard Undercarriage

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.6 STICK – 2600 mm (8'6")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		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**											*1700 ***3700**	*1700 ***3700**	6.27 **20.15**
6.0 m **20.0 ft**	kg **lb**							*3250 ***6650**	2850 **6150**			*1550 ***3350**	*1550 ***3350**	7.52 **24.48**
4.5 m **15.0 ft**	kg **lb**							*3650 ***7900**	2800 **6000**			*1500 ***3300**	*1500 ***3300**	8.22 **26.90**
3.0 m **10.0 ft**	kg **lb**			*7650 ***16,300**	*7650 ***16,300**	*5150 ***11,050**	4300 **9250**	3900 **8350**	2650 **5700**	2600 ***5200**	1750 **3700**	*1550 ***3400**	1400 **3050**	8.54 **28.01**
1.5 m **5.0 ft**	kg **lb**			*5600 ***13,450**	*5600 ***13,450**	5900 **12,700**	3950 **8450**	3700 **7950**	2500 **5350**	2550 **5450**	1700 **3600**	*1700 ***3700**	1350 **2950**	8.53 **28.01**
Ground Line	kg **lb**			*5900 ***13,600**	*5900 ***13,600**	5650 **12,050**	3700 **7900**	3600 **7650**	2400 **5100**	2500 **5500**	1650 **3600**	*1950 ***4250**	1400 **3100**	8.20 **26.90**
–1.5 m **–5.0 ft**	kg **lb**	*4900 ***10,900**	*4900 ***10,900**	*9000 ***20,500**	6850 **14,650**	5500 **11,850**	3600 **7700**	3500 **7500**	2300 **4950**			*2400 ***5250**	1650 **3650**	7.49 **24.52**
–3.0 m **–10.0 ft**	kg **lb**	*8450 ***19,000**	*8450 ***19,000**	*10 550 ***22,800**	6950 **14,950**	5550 **11,900**	3600 **7750**	3550 **7600**	2350 **5050**			*3350 ***7450**	2250 **5050**	6.26 **20.36**
–4.5 m **–15.0 ft**	kg **lb**			*8000 ***17,000**	7300 **15,650**	*5200 ***11,400**	3800 **8400**					*4900 ***10,800**	3650 **8300**	4.65 **14.92**

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 3100 mm (10'2") Stick, 700 mm (28") Shoes, Standard Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

3.1 STICK – 3100 mm (10'2")
BUCKET – 0.49 m³ (0.64 yd³)

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

BOOM – 5200 mm (16'9")

		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 *3300	*1500 *3300	6.84 22.05
6.0 m 20.0 ft	kg lb							*3000 *6500	2950 6350			*1400 *3050	*1400 *3050	7.98 25.99
4.5 m 15.0 ft	kg lb							*3300 *7200	2900 6200	*2250 *4100	1900 4000	*1400 *3000	*1400 *3000	8.64 28.26
3.0 m 10.0 ft	kg lb			*6350 *14,000	*6350 *14,000	*4600 *9900	4450 9550	*3900 *8400	2750 5900	2700 5750	1850 3900	*1450 *3150	1300 2900	8.94 29.31
1.5 m 5.0 ft	kg lb			*9800 *21,300	7500 16,100	6000 12,900	4050 8650	3800 8100	2550 5550	2600 5550	1750 3700	*1550 *3450	1250 2800	8.93 29.30
Ground Line	kg lb			*7000 *16,100	6900 14,800	5650 12,150	3700 8000	3600 7750	2400 5150	2550 5400	1650 3550	*1800 *3950	1300 2900	8.61 28.26
–1.5 m –5.0 ft	kg lb	*4750 *10,600	*4750 *10,600	*8900 *20,300	6750 14,450	5500 11,800	3550 7650	3500 7500	2300 4950	2500 5450	1650 3550	*2200 *4850	1500 3300	7.95 26.03
–3.0 m –10.0 ft	kg lb	*7600 *17,000	*7600 *17,000	*11 100 *23,950	6800 14,600	5500 11,750	3550 7650	3550 7550	2300 4950			2950 6550	1950 4350	6.82 22.22
–4.5 m –15.0 ft	kg lb	*11 500 *26,000	*11 500 *26,000	*9100 *19,500	7050 15,200	5600 12,100	3700 7950					*3000 *7300	*3000 *7300	4.89 15.69

Lift Capacities - 2250 mm (7'5") Stick, 700 mm (28") Shoes, Long Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

2.25 STICK – 2250 mm (7'5")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				
												m ft
7.5 m 25.0 ft	kg lb									*2000 *4400	*2000 *4400	5.80 18.55
6.0 m 20.0 ft	kg lb							*3150 *6900	2900 6350	*1800 *3950	*1800 *3950	7.15 23.25
4.5 m 15.0 ft	kg lb					*4300 *9250	*4300 *9250	*3900 *8550	2850 6050	*1750 *3900	1750 3850	7.89 25.81
3.0 m 10.0 ft	kg lb			*8650 *18,350	8200 17,700	*5550 *11,900	4350 9350	*4450 9600	2700 5800	*1850 *4000	1550 3400	8.23 26.97
1.5 m 5.0 ft	kg lb					*6800 *14,650	4000 8600	4300 9250	2550 5500	*2000 *4350	1500 3300	8.22 26.96
Ground Line	kg lb			*5500 *12,700	*5500 *12,700	6650 14,200	3700 7950	4200 9000	2450 5250	*2250 *5000	1600 3500	7.86 25.80
–1.5 m –5.0 ft	kg lb	*5300 *11,850	*5300 *11,850	*9600 *21,850	7050 15,100	6550 14,000	3700 7900	4150 8900	2400 5150	*2800 *6150	1900 4150	7.11 23.28
–3.0 m –10.0 ft	kg lb	*9650 *21,700	*9650 *21,700	*10 050 *21,700	7200 15,450	6600 14,200	3750 8100			*3250 *7000	2700 6000	5.79 18.79
–4.5 m –15.0 ft	kg lb			*7000 *15,400	*7000 *15,400					*5000 *11,350	4650 11,150	4.08 12.69

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Lift Capacities - 2600 mm (8'6") Stick, 700 mm (28") Shoes, Long Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

2.6 STICK – 2600 mm (8'6")
BUCKET – 0.69 m³ (0.9 yd³)

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

BOOM – 5200 mm (16'9")

		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	kg											*1700	*1700	6.27
25.0 ft	**lb**											***3700**	***3700**	**20.15**
6.0 m	kg							*3250	2950			*1550	*1550	7.52
20.0 ft	**lb**							***6650**	**6250**			***3350**	***3350**	**24.48**
4.5 m	kg							*3650	2850			*1550	*1550	8.22
15.0 ft	**lb**							***7900**	**6100**			***3300**	***3300**	**26.90**
3.0 m	kg			*7650	*7650	*5150	4400	*4200	2750	*2900	1800	*1550	1450	8.54
10.0 ft	**lb**			***16,300**	***16,300**	***11,050**	**9450**	***9100**	**5850**	***5200**	**3800**	***3400**	**3150**	**28.01**
1.5 m	kg			*5600	*5600	*6500	4050	4350	2600	3000	1750	*1700	1400	8.53
5.0 ft	**lb**			***13,450**	***13,450**	***14,000**	**8650**	**9300**	**5500**	**6400**	**3700**	***3700**	**3050**	**28.01**
Ground	kg			*5900	*5900	6650	3800	4200	2450	2950	1700	*1950	1450	8.20
Line	**lb**			***13,600**	***13,600**	**14,250**	**8100**	**8950**	**5250**	**6400**	**3700**	***4250**	**3200**	**26.90**
–1.5 m	kg	*4900	*4900	*9000	7000	6550	3700	4100	2400			*2400	1700	7.49
–5.0 ft	**lb**	***10,900**	***10,900**	***20,500**	**15,000**	**14,000**	**7900**	**8800**	**5100**			***5250**	**3750**	**24.52**
–3.0 m	kg	*8450	*8450	*10 550	7150	6550	3700	4150	2400			*3350	2350	6.26
–10.0 ft	**lb**	***19,000**	***19,000**	***22,800**	**15,250**	**14,050**	**7950**	**8900**	**5200**			***7450**	**5200**	**20.36**
–4.5 m	kg			*8000	7450	*5200	3900					*4900	3750	4.65
–15.0 ft	**lb**			***17,000**	**16,000**	***11,400**	**8600**					***10,800**	**8500**	**14.92**

Lift Capacities - 3100 mm (10'2") Stick, 700 mm (28") Shoes, Long Undercarriage

 Load Point Height
 Load at Maximum Reach
 Load Radius Over Front
 Load Radius Over Side

3.1 STICK – 3100 mm (10'2")
BUCKET – 0.49 m³ (0.64 yd³)

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

BOOM – 5200 mm (16'9")

		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	kg											*1500	*1500	6.84
25.0 ft	**lb**											***3300**	***3300**	**22.05**
6.0 m	kg							*3000	*3000			*1400	*1400	7.98
20.0 ft	**lb**							***6500**	***6500**			***3050**	***3050**	**25.99**
4.5 m	kg							*3300	2950	*2250	1950	*1400	*1400	8.64
15.0 ft	**lb**							***7200**	**6350**	***4100**	**4100**	***3000**	***3000**	**28.26**
3.0 m	kg			*6350	*6350	*4600	4550	*3900	2800	3150	1900	*1450	1350	8.94
10.0 ft	**lb**			***14,000**	***14,000**	***9900**	**9750**	***8400**	**6050**	***6650**	**4000**	***3150**	**3000**	**29.31**
1.5 m	kg			*9800	7600	*6050	4100	4400	2650	3050	1800	*1550	1300	8.93
5.0 ft	**lb**			***21,300**	**16,450**	***13,050**	**8850**	**9400**	**5650**	**6500**	**3800**	***3450**	**2850**	**29.30**
Ground	kg			*7000	*7000	6700	3800	4200	2450	2950	1700	*1800	1350	8.61
Line	**lb**			***16,100**	**15,150**	**14,350**	**8200**	**9050**	**5300**	**6300**	**3650**	***3950**	**3000**	**28.26**
–1.5 m	kg	*4750	*4750	*8900	6900	6500	3650	4100	2400	2900	1700	*2200	1550	7.95
–5.0 ft	**lb**	***10,600**	***10,600**	***20,300**	**14,800**	**13,950**	**7850**	**8800**	**5100**	**6400**	**3650**	***4850**	**3400**	**26.03**
–3.0 m	kg	*7600	*7600	*11 100	7000	6500	3650	4100	2350			*3050	2000	6.82
–10.0 ft	**lb**	***17,000**	***17,000**	***23,950**	**14,950**	**13,950**	**7850**	**8800**	**5100**			***6750**	**4500**	**22.22**
–4.5 m	kg	*11 500	*11 500	*9100	7250	*6100	3800					*3000	*3000	4.89
–15.0 ft	**lb**	***26,000**	***26,000**	***19,500**	**15,550**	***12,950**	**8150**					***7300**	***7300**	**15.69**

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

315B Hydraulic Excavator

AEHQ5282-01 (11-97)
Replaces AEHQ5282

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