345C/345C L

Hydraulic Excavator



Engine		
Engine Model	Cat® C13	
Net Flywheel Power	239 kW	321 hp
Weights		
Operating Weight – Long Undercarriage	44 970 kg	99,150 lb

- Reach Boom, R3.9 (12'10") stick, 1219 mm (48") GP-C Bucket and 750 mm (30") shoes.

345C/345C L Hydraulic Excavator

The 345C/345C L hydraulic excavator's high performance and rugged durability combine to maximize your productivity.

C13 Engine with ACERT™ Technology

✔ ACERT Technology works at the point of combustion to optimize engine performance and provide low exhaust emissions to meet EU Stage II emission regulations, with exceptional performance capabilities and proven reliability. **pg. 4**

Hydraulics

✔ The 345C L hydraulic system has been re-designed to improve reliability and to add a new Tool Control System. **pg. 5**

Operator Station

✔ Provides the maximum space, wider visibility and easy access to switches. The monitor has been changed to a full-color graphical display to allow operator to understand the machine information easily. Overall, the new cab provides a comfortable environment for the operator. **pg. 6**

Boom, Sticks and Attachments

✔ Three length of booms and six types of sticks are available, offering a range of configurations suitable for a wide variety of application conditions. The bucket linkage pins have been enlarged to improve reliability and durability. All booms and stick are stress relieved. **pg. 11**

Work Tools

A variety of work tools, including buckets, couplers, hammers, and shears are available through Cat Work Tools. **pg. 12**



Outstanding performance. Excellent control, high stick and bucket forces, impressive lift capacity, simplified service and a more comfortable operator station to increase your productivity and lower operating costs.

Electronic Control System

ADEM™ A4 electronic engine controller maximizes fuel efficiency and performance by maintaining the optimum balance between engine speed and hydraulic demand. **pg. 8**

Undercarriage

✔ Cat designed excavator undercarriage is stable, durable and low maintenance. Available in Standard Fixed, Variable and Long Fixed gauge configurations to meet lift capacity and bucket size needs. **pg. 9**

Structures

Caterpillar® design and manufacturing techniques assure outstanding durability and service life from these important components. The 345C L uses thicker plates at the boom foot area to improve rigidity. **pg. 10**

Service and Maintenance

✔ Fast, easy service has been designed in with extended service intervals, advanced filtration, convenient filter access and user-friendly electronic diagnostics for increased productivity and reduced maintenance costs. **pg. 14**

Complete Customer Support

Your Cat dealer offers a wide range of services that can be set up under a customer support agreement when you purchase your equipment. The dealer will help you choose a plan that can cover everything from machine configuration to eventual replacement. **pg. 15**



✔ *New Feature*

C13 Engine with ACERT™ Technology

Built for power, reliability, economy and low emissions.



Performance. The C13 with ACERT™ Technology offers 21% greater displacement than the 3176C, and runs at 10% lower speeds for better fuel economy and reduced wear. The 345C L, equipped with the C13 provides 8% more horsepower compared to the 3176C in the 345B Series II.

Fuel Consumption. With ACERT Technology, the C13 meets EU stage 2 emissions while delivering good fuel economy.

Emissions. ACERT Technology is a differentiated technology that reduces emissions at the point of combustion. Caterpillar technology capitalized on the proven leadership in three core engine systems: fuel, air and electronics.

Low Sound and Vibration Levels. The engine mounts are rubber-isolating mounts matched with the engine package to provide optimum sound and vibration reduction. Further noise reduction has been achieved through design changes to the isolated top cover, oil pan, multiple injection strategy, insulated timing cover, sculpted crankcase.

Fuel System. The Cat C13 features electronic controls that govern the mechanically actuated unit fuel injection (MEUI) system. MEUI provides the high-pressure required to help reduce particulate emissions and deliver better fuel economy through finer fuel atomization and more complete combustion.

Cooling System. The 345C L layout separates the cooling system from the engine compartment. The cooling fan is hydraulically driven with a variable speed control that manages fan speed to provide optimized cooling.

Air Cleaner. The radial seal air filter features a double-layered filter core for more efficient filtration and is located in a compartment behind the cab. A warning is displayed on the monitor when dust accumulates above a preset level.

Turbocharger. The Cat C13 uses a wastegate turbocharger for improved performance.

- The wastegate valve controls excessive engine boost pressure by allowing exhaust to bypass the exhaust-side turbine.
- The wastegate all reduces turbine wear in high RPM, low load conditions and optimizes air and fuel delivery for peak performance.
- The turbocharger increases the density of the air, enabling the engine to produce more power with few effects from altitude.

Cold Weather Starting Kit. The kit consists of four batteries, heavy-duty harness, large capacity starting motor and the ether starting aid. With this kit, the 345C L has the capability to start at 32° C (–25.6° F).

Hydraulics

Cat hydraulics deliver power and precise control to keep material moving.

Pilot System. The hydraulic pilot system controls the front linkage, swing and travel operations.

Component Layout. The 345C L hydraulic system and component locations have has been designed to provide a high level of overall system efficiency.

Hydraulic Cross-Sensing System. The two main hydraulic pumps use 100 percent of available horsepower resulting in faster implement speeds and increased productivity.

Boom and Stick Regeneration Circuit. Saves energy during boom-down and stick-in operation, providing shorter cycle times and lower operating costs.

Boom and Swing Priority. The hydraulic system on the 345C L provides automatic priority function for boom-up and swing operations eliminating the need for work mode buttons. When the boom or swing lever is activated, the system automatically assigns priority based on operator demand.

Auxiliary Hydraulic Valve. The auxiliary valve is standard on the 345C L. Control circuits are available as attachments, allowing operation of high and medium pressure tools such as shears, grapples, hammers, pulverizers, multi-processors and vibratory plate compactors.

Hydraulic Cylinder Snubbers. Snubbers are located at the rod-end of the boom cylinders and both ends of the stick cylinders to cushion shocks while reducing sound levels and extending component life.



Operator Station

Designed for simple, easy operation, the 345C L allows the operator to focus on production.



Cab Design. The workstation is spacious, quiet and comfortable, assuring high productivity during a long work day. The air conditioner and attachment switches are conveniently located on the right-hand wall, and the key switch and throttle dial are on the right-hand console. The monitor is easy to see and maximizes visibility.

Seat. A new optional air suspension seat is available in the 345C L. The standard and optional seats provide a variety of adjustments to suit the operator's size and weight including fore/aft, height and weight. Wide adjustable armrests and a retractable seat belt are also included.

Hydraulic Activation Control Lever. For added safety, this lever must be in the operate position to activate the machine control functions.

Climate Control. Positive filtered ventilation with a pressurized cab comes standard on the 345C L. Fresh air or re-circulated air can be selected with a switch on the left console.

Windows. To maximize visibility, all glass is affixed directly to the cab, eliminating window frames. The upper front windshield opens, closes and stores on the roof above the operator with a one-touch action release system.

Wipers. Pillar-mounted wipers increase the operator's viewing area and offer continuous and intermittent modes.

Skylight. An enlarged skylight with sunshade provides excellent visibility and good ventilation.



Console. Redesigned consoles feature a simple, functional design to reduce operator fatigue, ease of switch operation and excellent visibility. Both consoles have attached armrests with height adjustments.

Monitor. The compact, full-color, graphical display monitor, new with the 345C L, displays machine, maintenance, diagnostic and prognostic information, in twenty different languages. Monitor angle can be adjusted to minimize sun glare.

Cab Exterior. The exterior design uses thick steel tubing along the bottom perimeter of the cab, improving the resistance of fatigue and vibration. This design allows the FOGS to be bolted directly to the cab, at the factory or as an attachment later, enabling the machine to meet specifications and job site requirements.

Cab Mounts. The cab shell is attached to the frame with viscous rubber cab mounts, which dampen vibrations and sound levels while enhancing operator comfort.

Standard Cab Equipment. To enhance operator comfort and productivity, the cab includes a lighter, drink holder, coat hook, service meter, literature holder, magazine rack and storage compartment.

Machine Security. An optional Machine Security System is available from the factory on the 345C L. This system controls when the machine can be operated and utilizes specific keys to prevent unauthorized machine use, a significant theft deterrent.

Product Link. Product Link is now an attachment available from the factory on the 345C L.

Electronic Control System

Manages the engine and hydraulics for maximum performance.

Travel Controls. The 345C L uses pilot operated control levers, positioned so the operator can operate with arms on the armrests. The vertical stroke is longer than the horizontal stroke, reducing operator fatigue. The control lever grips are shaped to fit into the operator's hands. The horn switch and one-touch low idle switch are positioned on the left and right grip.

Controllers. The mechanically actuated unit injection system features a high-pressure fuel injection system,proven to significantly reduce fuel consumption and particulate emission. Electronic Unit Injection (EUI) produces high-pressure and affords the integration of electronics with fewer components. The modular design of the electronic control system allows greater update, flexibility, improves serviceability and lowers repair costs.

Keypad. The keypad allows operator to select machine operation conditions and to set view preferences.

ADEM™ A4 Engine Controller. The ADEM A4 electronic control module manages fuel delivery to get the best performance per liter or gallon of fuel used. The engine management system provides flexible fuel mapping, allowing the engine to respond quickly to varying application needs. It tracks engine and machine conditions while keeping the engine operating at peak efficiency.



Monitor Display Screen. The monitor is a full color 400x234 pixels Liquid Crystal Display (LCD) graphic display.

The Master Caution Lamp blinks ON and OFF when one of these critical conditions occur:

- Engine oil pressure low
- Coolant temperature high
- Hydraulic oil temperature high

Under the normal condition or the default condition, the monitor display screen is divided into four areas: clock and throttle dial area, gauge area, event display area and multi-information display area.

Clock and Throttle Dial Area. The clock and the throttle dial position are in this area and the gas-station icon with green color is also displayed.

Gauge Area. Three analog gauges, fuel level, hydraulic oil temperature and coolant temperature, are displayed in this area.

Event Display Area. Machine information is displayed in this area with graphic icons plus written messages in twenty different languages including Czech, Danish, Dutch, English, Finnish, French, German, Greek, Icelandic, Indonesian, Italian, Japanese, Norwegian, Portuguese, Russian, Simplified Chinese, Spanish, Swedish, Thai and Turkish.

Multi-information Display Area. This area is reserved for displaying information that is convenient for the operator. The "CAT" logo mark is displayed when information to display does not exist.

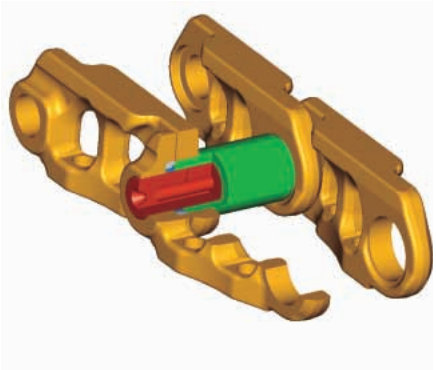
Undercarriage

Durable undercarriage absorbs stresses and provides excellent stability.



Travel Motors. Two-speed axial piston hydraulic motors provide the 345C L drive power and speed selection which is automatic when the high-speed position is selected. This enables the machine to automatically change between computer-controlled high and low speeds depending on drawbar-pull requirements.

Straight-line Travel Circuit. The straight-line travel circuit is incorporated into the hydraulic system, which maintains low-speed, straight-line travel, even when operating the front linkage.



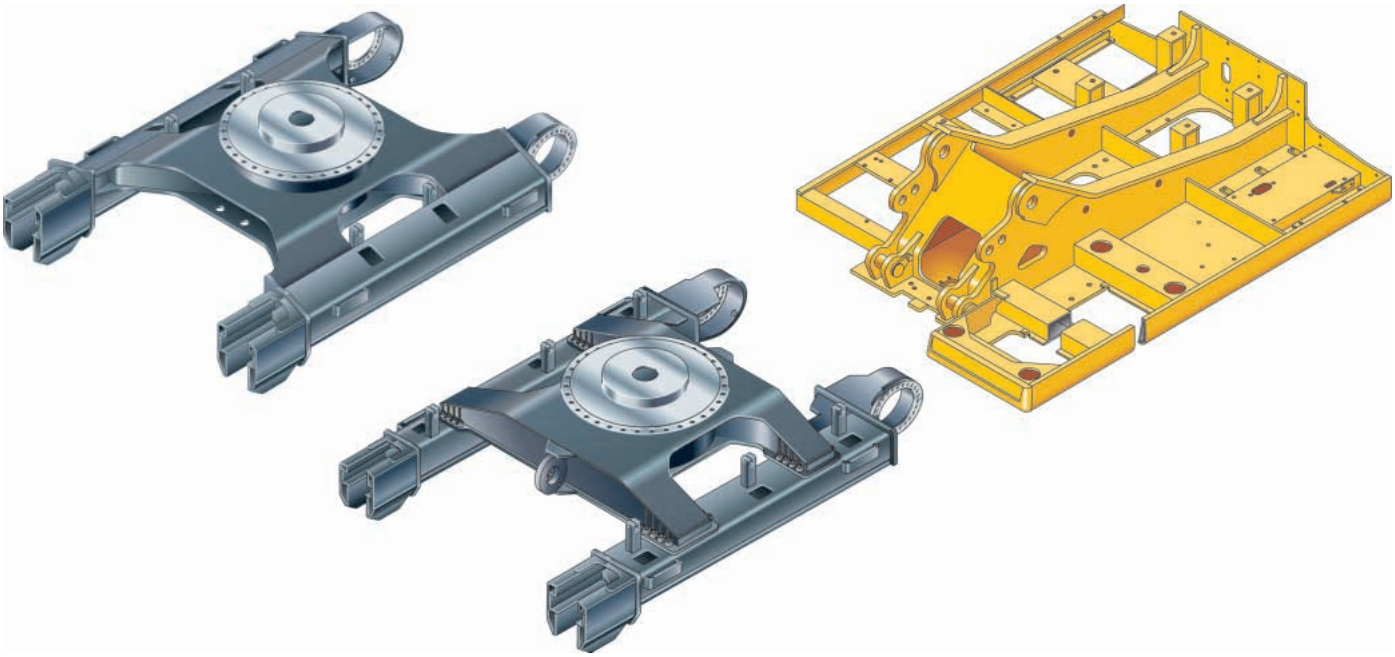
Track. The 345C L comes standard with the new grease lubricated track called GLT4. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

Final Drive. The final drives are a new compact design with three-stage planetary reduction. This design results in a complete drive/brake unit that is compact and delivers excellent performance and reliability.

Track Guards. The idler guard and bolt-on center guard are standard equipment. They help maintain track alignment while traveling or working on slopes. For applications that require additional track protection or alignment, optional guards are available.

Structures

The 345C L structural components are the backbone of the machine's durability.



Carbody. The 345C L has three undercarriage options to meet regional transportation requirements and application needs.

- 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.
- Fixed gauge for narrow transport and weight sensitive areas.
- Variable gauge for increased track and ground clearance and over-side lift.

Track Roller Frame. Fixed Gauge Undercarriage

- Uses a press-formed, pentagonal section for the track frame that is robot-welded for weld consistency and quality. The track frame has been designed so that the top of the track frame has a steep angle to help prevent accumulation of mud and debris.

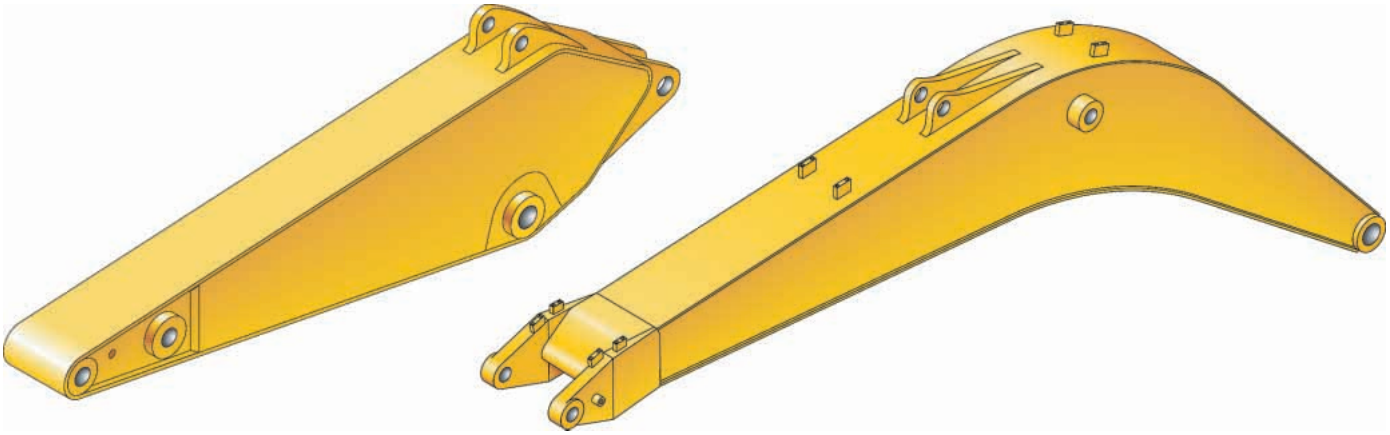
Variable Gauge Undercarriage

- The track roller frame is made of thick steel plate that is bent into a U-shape and welded to the bottom plate to create a box structure. The box structure design for increased rigidity and impact resistance.

Upper Frame. The rugged main frame has been narrowed to improve transportability and is designed for maximum durability. Robot welding is used for consistent, high-quality welds. The main channels are box sections connected by a large diameter tube in the boom foot area to improve rigidity and strength. The outer frame utilizes curved side rails for rigidity against bending and torsional loads.

Boom, Sticks and Attachments

Designed for maximum flexibility to keep productivity and efficiency high on all jobs.



Front Linkage Attachments. Three length of booms and six types of sticks are available, offering a range of configurations suitable for a wide variety of application conditions.

Boom Construction. The 345C L booms have large cross-sections and internal baffle plates to provide long life durability. Forged steel is used in critical high-load areas such as the boom-foot and boom cylinder connection.

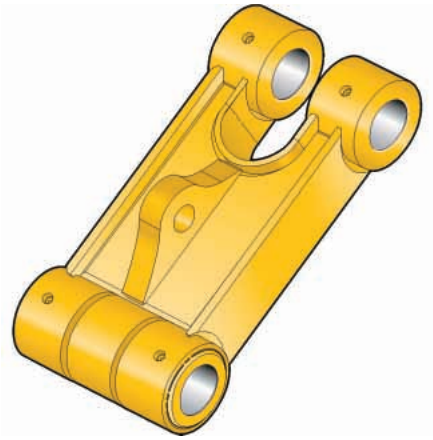
Long Reach Boom – 7.4 m (23 ft 3 in) long. The Long Reach boom is new with the introduction of the 345C L. This boom combined with the new 4.3 m (14 ft 1 in) stick provides a similar digging envelope to the previous 345B. This new boom/stick combination has a significantly reduced transport height, eliminating the need to remove the stick cylinder pin.

Reach Boom – 6.9 m (22 ft 8 in) long. The Reach boom is designed to balance reach, digging force bucket capacity, offering a wide range of applications as digging, loading and trenching.

Mass Excavation Boom – 6.55 m (21 ft 6 in) long. The mass boom is designed to provide maximum digging forces, bucket capacity and truck loading productivity. The mass boom comes with two stick options for further job site versatility.

Stick Construction. The 345C L sticks are made of high-tensile strength steel, using a large box section design, interior baffle plates and an additional bottom guard.

Linkage Pins. The bucket linkage pins have been enlarged and have a thick chrome plating improving reliability, durability, giving them high wear and corrosion resistance. An adapter kit is available for using 345B II buckets.



Power Link. The new 345C L power link improves durability, increases machine-lifting capability in key lifting positions, and is easier to use compared to the previous lift bar design.

Work Tools

The 345C L has extensive selection of work tools to optimize machine performance.



Excavation Buckets. Excavation buckets are designed for general purpose excavation, ranging from low or medium friction soft earth to hard earth. The bucket is designed with a large bucket capacity and tip radius.

Extreme Service Excavation Buckets. These buckets are designed for aggressive bucket loading and digging in abrasive materials. Features include:

- Provides the same wear life as non-extreme service buckets that are used in less abrasive, easy to dig materials.
- Has the same profile as the normal excavation bucket.
- Reinforced with thicker materials for greater wear protection.

V-Type Excavation Buckets. The V-type excavation buckets have a V or spade type cutting edge. This greatly improves penetration in materials that are hard or difficult to load.

Mass Excavation Buckets. Large capacity for production truck loading in low-impact, moderately abrasive materials such as dirt, loam, gravel and clay.

Service Life. Caterpillar buckets increase service life and reduce repair costs.

- Dual radius design for increased life and reduced wear.
- Robot welding of hinge assembly for increased weld penetration and longer life.
- Incorporates the new aggressive and easier to install, K GET system.
- High strength and heat-treated steel that exceeds T-1 in high wear areas.



Caterpillar Ground Engaging Tools (GET). The new Caterpillar K-series GET is featured on the new 345C L buckets. This new GET system uses a hammerless vertical retainer, which is easier to remove and install than the old Cat J-series pin. The new tooth shapes are more aggressive and offer excellent penetration. There are a variety of side cutters and sidebar protectors to match operating conditions.

- A new sidecutter design is more aggressive in trenching applications, improving efficiency and bucket payload.



Tool Control System. The optional tool control system maximizes work tool productivity by configuring hydraulic flow, pressure, and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used.

Work Tools. Choose from a variety of work tools such as hammers, shears, pulverizers, compactors, multi-processors, sorting grapples and couplers. Ask your Cat dealer for information on attachments or special configurations.



Multi-Processor



Hammer

Control Levers. The operator's control lever preferences are diverse in much the same way as different tools. Three types of tool controls are available to ensure that the operator's preferences are met.

- Foot pedal – The hydraulic modulated foot pedal is used in conjunction with the hydraulic controller.

Service and Maintenance

Simplified service and maintenance save you time and money.



Extended Service Intervals.
Extended service and maintenance intervals increase machine availability. The maintenance intervals for engine oil and engine oil filter have been extended to 500 hours.

Capsule Filter. The hydraulic return filters are located in the hydraulic tank. The filter elements are removable without spilling hydraulic oil.

Pilot Hydraulic System Filter.
Pilot hydraulic system filter keeps contaminants from the pilot system and is located in the pump compartment.

Radial Seal Main Air Cleaner.
Radial seal main air cleaner with pre-cleaner has a double-layered filter element for more efficient filtration. No tools are required to change the element.

Fuel-Water Separator. The water separator has a primary fuel filter element and is located in the air cleaner compartment for easy access from the ground.

Service Points. Service points are centrally located with easy access to facilitate routine maintenance.



Oil Sample and Pressure Ports.
Oil sample and pressure ports provide easy checking of machine condition and are standard on every machine.

Greasing Points. A concentrated remote greasing block on the boom delivers grease to hard-to-reach locations.

Complete Customer Support

Cat dealer services help you operate longer with lower costs.



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 downtime. You can save money with Cat remanufactured components.

Machine Selection. Make detailed comparisons of the machines you are considering before you buy. What are the job requirements, machine attachments and operating hours? What production is needed? Your Cat dealer can provide recommendations.

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.

Customer Support Agreements. Cat dealers offer a variety of product support agreements, and work with customers to develop a plan the best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has videotapes, literature and other ideas to help you increase productivity, and Caterpillar offers certified operator training classes to help maximize the return on your investment.

Maintenance Services. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling, Coolant 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.

Engine

Engine Model	Cat C13 ACERT™	
Net Flywheel Power	239 kW	321 hp
ISO 9249	239 kW	321 hp
SAE J1349	239 kW	321 hp
EEC 80/1269	239 kW	321 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	736 in^3

- The 345C/345C L meets the EU Stage II exhaust emission requirements.
- 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 needed up to 2300 m (7,500 ft).

Weights

Operating Weight – Long Undercarriage	44 970 kg	99,150 lb

- Reach Boom, R3.9 (12'10") stick, 1219 mm (48") GP-C Bucket and 750 mm (30") shoes.

Operating Specifications

Maximum Reach at Ground Level	12.96 m	42 ft 6 in
Maximum Digging Depth	8.92 m	29 ft 4 in
Maximum Bucket Capacity	3.8 m^3	5 yd^3
Nominal Bucket Weight	1762 kg	3,880 lb

Track

Number of Shoes Each Side – Long Undercarriage	52
Number of Track Rollers Each Side – Long Undercarriage	9
Number of Carrier Rollers Each Side	2

Swing Mechanism

Swing Speed	8.6 rpm	
Swing Torque	148.5 kN•m	109,560 lb ft

Drive

Maximum Travel Speed	4.4 km/h	2.7 mph
Maximum Drawbar Pull – Long Undercarriage	337.7 kN	75,920 lb

Hydraulic System

Main System – Maximum Flow (Total)	720 L/min	190 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,080 psi
Maximum Pressure – Equipment – Heavy Lift	36 000 kPa	5,220 psi
Maximum Pressure – Travel	35 000 kPa	5,080 psi
Maximum Pressure – Swing	31 400 kPa	4,550 psi
Pilot System – Maximum Flow	43 L/min	11 gal/min
Pilot System – Maximum Pressure	4110 kPa	596 psi
Boom Cylinder – Bore	160 mm	6.3 in
Boom Cylinder – Stroke	1575 mm	62 in
Stick Cylinder – Bore	190 mm	7.5 in
Stick Cylinder – Stroke (for Long Reach and Reach Fronts)	1778 mm	70 in
Stick Cylinder – Stroke (for Mass Excavation Fronts)	1758 mm	69.2 in
TB Family Bucket Cylinder – Bore	160 mm	6.3 in
TB Family Bucket Cylinder – Stroke	1356 mm	53.4 in
UB Family Bucket Cylinder – Bore	170 mm	6.7 in
UB Family Bucket Cylinder – Stroke	1396 mm	55 in
Main Normal Relief Pressure	35 000 kPa	5,080 psi

Service Refill Capacities

Fuel Tank Capacity	705 L	186 gal
Cooling System	61 L	16 gal
Engine Oil	42 L	11 gal
Swing Drive (each)	10 L	2.6 gal
Final Drive (each)	15 L	4 gal
Hydraulic System (including tank)	570 L	150 gal
Hydraulic Tank	243 L	64 gal

Sound Performance

Performance	ANSI/SAE J1166 MAY90 Meets OSHA and MSHA Requirements

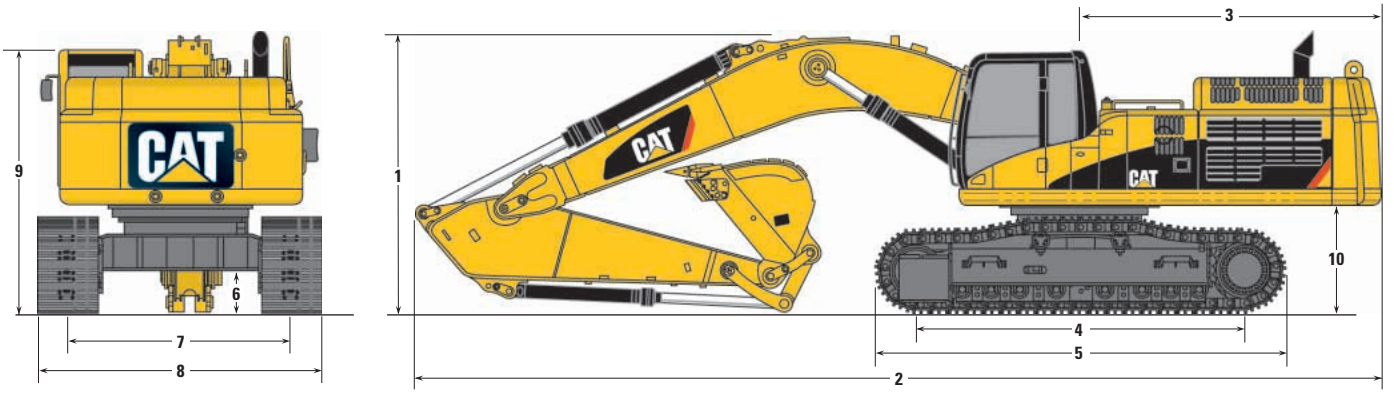
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effects at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

Standards

Brakes	SAE J1026 APR90
Cab/FOGS	SAE J1356 FEB 88 and ISO 10262-1998

345C L Dimensions

All dimensions are approximate.



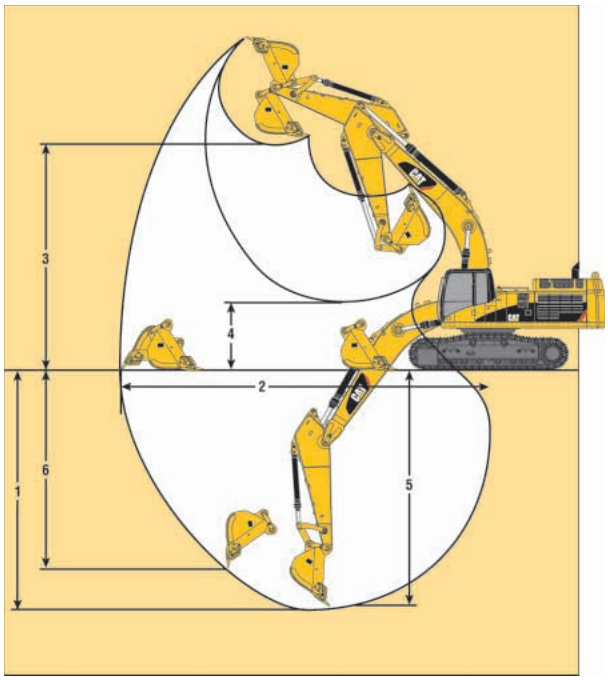
Boom	Long Reach Boom 7.4 m (24'3")		Reach Boom 6.9 m (22'8")			Mass Boom 6.55 m (21'6")	
Stick	**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**R2.9TB (9'6")**	**M3.0VB (9'10")**	**M2.5VB (8'2")**
1 Shipping Height							
Fixed Gauge Undercarriage	3590 mm (11'9")	3720 mm (12'2")	3830 mm (12'7")	3500 mm (11'6")	3630 mm (11'11")	3970 mm (13'0")	3940 mm (12'11")
Variable Gauge Undercarriage	3600 mm (11'10")	3590 mm (11'9")	3820 mm (12'6")	3490 mm (11'5")	3680 mm (12'1")	3990 mm (13'1")	3980 mm (13'1")
2 Shipping Length							
Fixed Gauge Undercarriage	12 390 mm (40'8")	12 410 mm (40'9")	11 920 mm (39'1")	11 840 mm (38'10")	11 870 mm (38'11")	11 550 mm (37'11")	11 630 mm (38'2")
Variable Gauge Undercarriage	12 340 mm (40'6")	12 340 mm (40'6")	11 910 mm (39'1")	11 780 mm (38'8")	11 850 mm (38'10")	11 520 mm (37'10")	11 540 mm (37'10")
3 Tail Swing Radius	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")	3770 mm (12'4")

Undercarriage	Fixed Gauge	Variable Gauge
4 Length to Center of Rollers	4360 mm (14'4")	4340 mm (14'3")
5 Track Length	5360 mm (17'7")	5340 mm (17'6")
6 Ground Clearance	510 mm (1'8")	740 mm (2'5")
7 Track Gauge		
Retracted (Transport) Position	2740 mm (9'0")	2390 mm (7'10")
Extended (Working) Position	2740 mm (9'0")	2890 mm (9'6")
8 Track Width*		
Retracted (Transport) Position	3640 mm (11'11")	3290 mm (10'10")
Extended (Working) Position	3640 mm (11'11")	3790 mm (12'5")
9 Cab Height	3210 mm (10'6")	3360 mm (11'0")
10 Counterweight Height (to bottom)	1280 mm (4'2")	1430 mm (4'8")

* Track Width shown is for 900 mm (36") track shoes. Subtract 150 mm (6") for 750 mm (30") track shoes

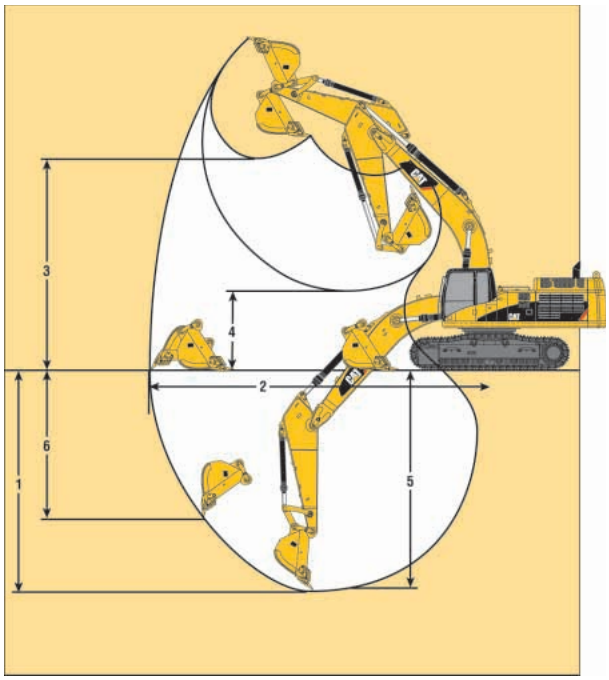
Reach Working Ranges

Reach (R) boom configuration



Mass Working Ranges

Mass (M) boom configuration



345C Working Ranges – Standard Fixed Gauge Undercarriage

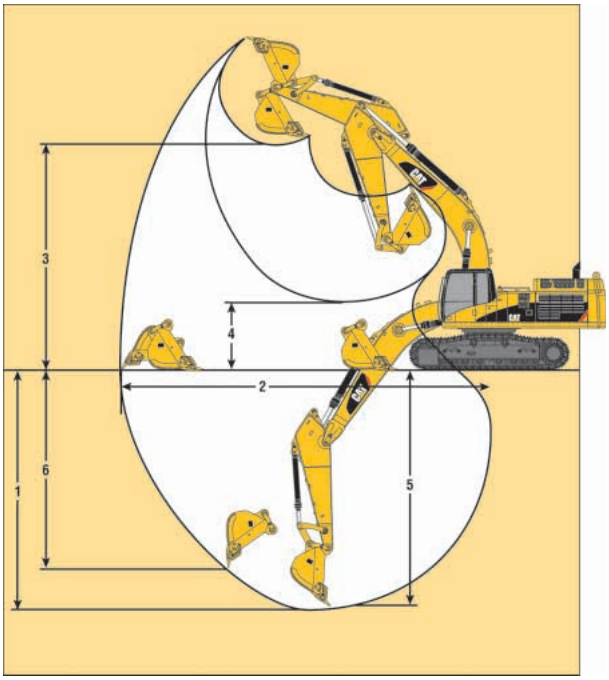
		Long Reach Boom		Reach Boom			Mass Excavation Boom		
Stick		**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**R2.9TB (9'6")**	**M3.0VB (9'10")**	**M2.5VB (8'2")**
Bucket		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**HD 2.8 m³ (3.70 yd³)**	**HD 2.8 m³ (3.70 yd³)**
1	Maximum Digging Depth	8920 mm (29'3")	8520 mm (27'11")	8600 mm (28'3")	8200 mm (26'11")	7650 mm (25'1")	7200 mm (23'7")	7250 mm (23'9")	6740 mm (22'2")
2	Maximum Reach at Ground Level	12 960 mm (42'6")	12 600 mm (41'4")	12 520 mm (41'1")	12 150 mm (39'10")	11 710 mm (38'5")	11 290 mm (37'1")	11 200 mm (36'9")	10 740 mm (35'3")
3	Maximum Loading Height	7930 mm (26'0")	7800 mm (25'7")	7590 mm (24'11")	7460 mm (24'6")	7420 mm (24'4")	7240 mm (23'9")	6790 mm (22'3")	6590 mm (21'8")
4	Minimum Loading Height	2240 mm (7'4")	2640 mm (8'8")	1800 mm (5'11")	2200 mm (7'3")	2750 mm (9'0")	3200 mm (10'6")	2630 mm (8'8")	3130 mm (10'3")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	8790 mm (28'10")	8380 mm (27'6")	8480 mm (27'10")	8070 mm (26'6")	7500 mm (24'7")	7040 mm (23'1")	7100 mm (23'3")	6580 mm (21'7")
6	Maximum Vertical Wall Digging Depth	5960 mm (19'7")	5430 mm (17'10")	5910 mm (19'5")	5400 mm (17'8")	5210 mm (17'1")	4810 mm (15'9")	4910 mm (16'1")	4460 mm (14'8")

345C Working Ranges with Pin Grabber Coupler – Standard Fixed Gauge Undercarriage

		Reach Boom	
Stick		**R3.35TB (11'0")**	**R2.9TB (9'6")**
Bucket with VB-Family Coupler		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**
1	Maximum Digging Depth	7970 mm (26'2")	7520 mm (24'8")
2	Maximum Reach at Ground Level	12 040 mm (39'6")	11 620 mm (38'2")
3	Maximum Loading Height	7100 mm (23'3")	6920 mm (22'8")
4	Minimum Loading Height	2430 mm (8'0")	2880 mm (9'5")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	7840 mm (25'9")	7380 mm (24'2")
6	Maximum Vertical Wall Digging Depth	3990 mm (13'1")	3620 mm (11'10")

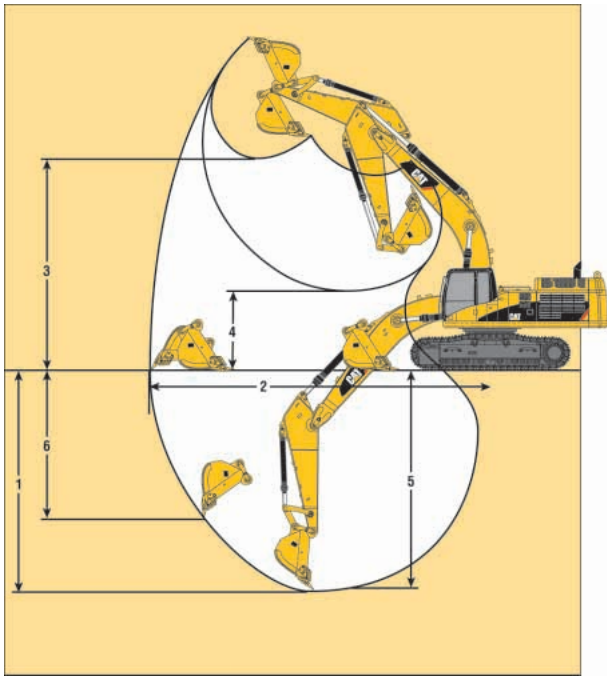
Reach Working Ranges

Reach (R) boom configuration



Mass Working Ranges

Mass (M) boom configuration



345C L Working Ranges – Long Fixed Gauge Undercarriage

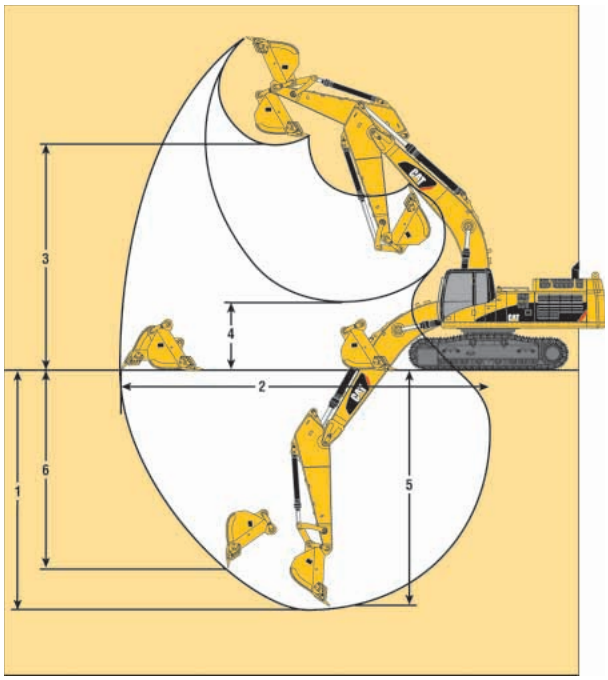
		Long Reach Boom		Reach Boom				Mass Excavation Boom	
Stick		**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**R2.9TB (9'6")**	**M3.0VB (9'10")**	**M2.5VB (8'2")**
Bucket		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**HD 2.8 m³ (3.70 yd³)**	**HD 2.8 m³ (3.70 yd³)**
1	Maximum Digging Depth	8920 mm (29'3")	8520 mm (27'11")	8600 mm (28'3")	8200 mm (26'11")	7650 mm (25'1")	7200 mm (23'7")	7250 mm (23'9")	6740 mm (22'2")
2	Maximum Reach at Ground Level	12 960 mm (42'6")	12 600 mm (41'4")	12 520 mm (41'1")	12 150 mm (39'10")	11 710 mm (38'5")	11 290 mm (37'1")	11 200 mm (36'9")	10 740 mm (35'3")
3	Maximum Loading Height	7930 mm (26'0")	7800 mm (25'7")	7590 mm (24'11")	7460 mm (24'6")	7420 mm (24'4")	7240 mm (23'9")	6790 mm (22'3")	6590 mm (21'8")
4	Minimum Loading Height	2240 mm (7'4")	2640 mm (8'8")	1800 mm (5'11")	2200 mm (7'3")	2750 mm (9'0")	3200 mm (10'6")	2630 mm (8'8")	3130 mm (10'3")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	8790 mm (28'10")	8380 mm (27'6")	8480 mm (27'10")	8070 mm (26'6")	7500 mm (24'7")	7040 mm (23'1")	7100 mm (23'3")	6580 mm (21'7")
6	Maximum Vertical Wall Digging Depth	5960 mm (19'7")	5430 mm (17'10")	5910 mm (19'5")	5400 mm (17'8")	5210 mm (17'1")	4810 mm (15'9")	4910 mm (16'1")	4460 mm (14'8")

345C L Working Ranges with Pin Grabber Coupler – Long Fixed Gauge Undercarriage

		Reach Boom	
Stick		**R3.35TB (11'0")**	**R2.9TB (9'6")**
Bucket with VB-Family Coupler		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**
1	Maximum Digging Depth	7970 mm (26'2")	7520 mm (24'8")
2	Maximum Reach at Ground Level	12 040 mm (39'6")	11 620 mm (38'2")
3	Maximum Loading Height	7100 mm (23'3")	6920 mm (22'8")
4	Minimum Loading Height	2430 mm (8'0")	2880 mm (9'5")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	7840 mm (25'9")	7380 mm (24'2")
6	Maximum Vertical Wall Digging Depth	3990 mm (13'1")	3620 mm (11'10")

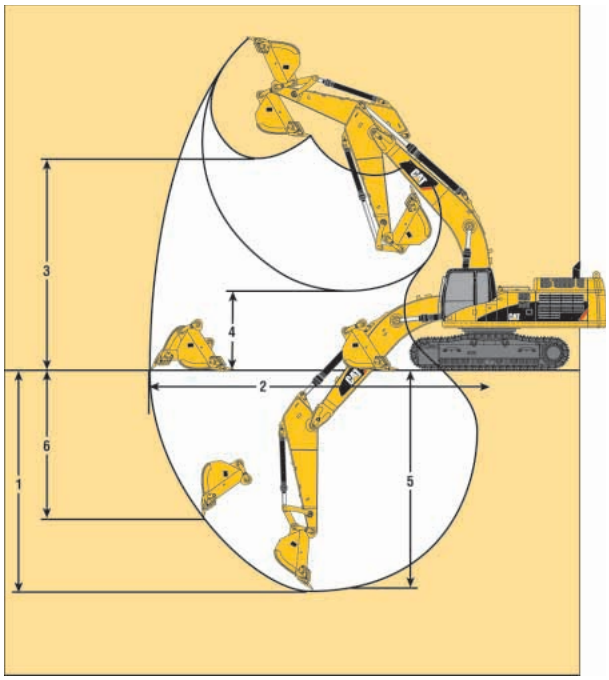
Reach Working Ranges

Reach (R) boom configuration



Mass Working Ranges

Mass (M) boom configuration



345C L Working Ranges – Long Variable Gauge Undercarriage

		Long Reach Boom		Reach Boom			Mass Excavation Boom		
Stick		**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R4.3TB (14'1")**	**R3.9TB (12'10")**	**R3.35TB (11'0")**	**R2.9TB (9'6")**	**M3.0VB (9'10")**	**M2.5VB (8'2")**
Bucket		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (2.46 yd³)**	**HD 2.8 m³ (3.70 yd³)**	**HD 2.8 m³ (3.70 yd³)**
1	Maximum Digging Depth	8770 mm (28'9")	8370 mm (27'6")	8450 mm (27'9")	8050 mm (26'5")	7500 mm (24'7")	7050 mm (23'2")	7100 mm (23'4")	6600 mm (21'8")
2	Maximum Reach at Ground Level	12 940 mm (42'5")	12 570 mm (41'3")	12 490 mm (41'0")	12 120 mm (39'9")	11 680 mm (38'4")	11 260 mm (36'11")	11 180 mm (36'8")	10 710 mm (35'2")
3	Maximum Loading Height	8070 mm (26'6")	7940 mm (26'1")	7740 mm (25'5")	7600 mm (24'11")	7570 mm (24'10")	7390 mm (24'3")	6930 mm (22'9")	6740 mm (22'1")
4	Minimum Loading Height	2380 mm (7'10")	2780 mm (9'1")	1950 mm (6'5")	2350 mm (7'9")	2900 mm (9'6")	3350 mm (11'0")	2780 mm (9'1")	3280 mm (10'9")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	8650 mm (28'4")	8240 mm (27'0")	8330 mm (27'4")	7920 mm (26'0")	7360 mm (24'2")	6900 mm (22'8")	6950 mm (22'10")	6430 mm (21'1")
6	Maximum Vertical Wall Digging Depth	5810 mm (19'1")	5290 mm (17'4")	5770 mm (18'11")	5250 mm (17'3")	5070 mm (16'7")	4670 mm (15'4")	4770 mm (15'8")	4310 mm (14'2")

345C L Working Ranges with Pin Grabber Coupler – Long Variable Gauge Undercarriage

		Reach Boom	
Stick		**R3.35TB (11'0")**	**R2.9TB (9'6")**
Bucket with VB-Family Coupler		**GP-C 1.9 m³ (2.46 yd³)**	**GP-C 1.9 m³ (GP-C 2.46 yd³)**
1	Maximum Digging Depth	7830 mm (25'8")	7380 mm (24'3")
2	Maximum Reach at Ground Level	12 010 mm (39'4")	11 590 mm (38'0")
3	Maximum Loading Height	7240 mm (23'9")	7060 mm (23'2")
4	Minimum Loading Height	2570 mm (8'5")	3020 mm (9'11")
5	Maximum Depth Cut for 2440 mm (8') Level Bottom	7690 mm (25'3")	7230 mm (23'9")
6	Maximum Vertical Wall Digging Depth	3840 mm (12'7")	3470 mm (11'5")

Operating Weight*

	kg	lb
Complete machine equipped with:		
6.9 m (22'8") reach boom, R3.9m (12'10") stick, 1219 mm (48") GP-C bucket, long fixed gauge undercarriage with 750 mm (30") TG track shoes, 7610 kg (16,780 lb) counterweight without removal device	44 970	99,150
Differences for other booms:		
7.4 m (24'3") long reach boom	+180	+400
6.9 m (22'8") heavy duty reach boom	+515	+1,130
6.55 m (21'6") mass excavation boom	+520	+1,150
Differences for other sticks:		
R4.3m (14'1") stick with TB bucket linkage and bucket cylinder	+110	+245
R3.35m (11'0") stick with TB bucket linkage and bucket cylinder	–110	–245
R2.9m (9'6") stick with TB bucket linkage and bucket cylinder	–105	–230
M3.0m (9'10") stick with VB bucket linkage and bucket cylinder	+320	+705
M2.5m (8'2") stick with VB bucket linkage and bucket cylinder	+140	+310

	kg	lb
Differences for other buckets:		
See bucket specification chart		
Differences for other undercarriages:		
STD fixed undercarriage**	–610	–1,360
Long variable gauge undercarriage***	+2195	+4,840
Differences for other track shoes:		
600 mm (24") double grouser (DG)	–645	–1,420
750 mm (30") single grouser (SG)	–110	–250
750 mm (30") double grouser (DG)	+140	+305
900 mm (36") double grouser (DG)	+920	+2,030
900 mm (36") triple grouser (TG)	+750	+1,660
Differences for other counterweights:		
8.0 MT counterweight without removal device	+500	+1,100
9.0 MT counterweight without removal device	+1400	+3,080
Counterweight removal device	+315	+690

* Operating weight includes full fuel tank and 75 kg (165 lb) operator. Subtract 380 kg (840 lb) for 50% fuel and no operator.
** APD offers not only 345C L but also 345C.
*** APD will offer Long VG undercarriage with H/D upper frame (+405 kg).

Bucket Specifications
345C (Standard Undercarriage) and 345C L (Long Undercarriage)

Contact your Caterpillar dealer for special bucket requirements.

TB Buckets for Reach Linkage	Capacity*		Width		Tip Radius		Weight (without tips)		Teeth	345C – Reach Boom Stick			345C L – Reach Boom Stick		
	m^3	yd^3	mm	in	mm	in	kg	lb	Qty	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")
Excavation	1.6	2.09	1067	42	1869	73.6	1616	3,560	4	◒	●	●	◒	●	●
	1.9	2.46	1219	48	1869	73.6	1762	3,880	5	○	◒	●	○	●	●
	2.0	2.62	1590	63	1870	73.6	1700	3,740	6	◒	●	●	●	●	●
	2.2	2.88	1735	68	1870	73.6	1810	3,990	6	○	◒	●	◒	◒	●
Extreme Service Excavation	1.9	2.50	1560	61	1862	73.3	1825	4,020	5	◒	●	●	●	●	●
	2.0	2.62	1605	63	1862	73.3	1870	4,120	5	◒	●	●	◒	●	●
	2.1	2.75	1665	66	1862	73.3	1915	4,220	5	◒	◒	●	◒	●	●

VB Buckets for Mass EX Linkage	Capacity*		Width		Tip Radius		Weight (without tips)		Teeth	345C – Mass Boom Stick		345C L – Mass Boom Stick	
	m^3	yd^3	mm	in	mm	in	kg	lb	Qty	M3.0VB (9'10")	M2.5VB (8'2")	M3.0VB (9'10")	M2.5VB (8'2")
Excavation	2.1	2.75	1360	54	2020	79.5	1900	4,189	5	◒	●	●	●
Mass Excavation	2.6	3.50	1895	75	1958	77.1	2320	5,110	6	∴	○	◒	◒
V-Type Excavation	2.1	2.75	1830	72	1860	73.2	2235	4,920	6	◒	●	●	●
	2.2	2.88	1750	69	1958	77.1	2400	5,280	6	○	◒	●	●
	2.4	3.00	1880	74	1958	77.1	2500	5,510	6	○	◒	◒	●

Assumptions for maximum material density rating:
1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Based on SAE J296, some calculations of capacity specs fall on borderlines. Rounding may allow two buckets to have the same English rating, but different metric ratings.

● 2100 kg/m^3 (3,500 lb/yd^3) max material density
◒ 1800 kg/m^3 (3,000 lb/yd^3) max material density
○ 1500 kg/m^3 (2,500 lb/yd^3) max material density
∴ 1200 kg/m^3 (2,000 lb/yd^3) max material density

345C/345C L Bucket and Stick Forces

Stick Forces								
	Sticks							
TB-Family Buckets	**R4.3**		**R3.9**		**R3.35**		**R2.9**	
	kN	lb	kN	lb	kN	lb	kN	lb
GP-C, HD, HDR								
Stick Digging Force (ISO)	173	38,800	186	41,800	201	45,100	221	49,600
Stick Digging Force (SAE)	169	37,900	181	40,800	195	43,900	214	48,000
HD-P								
Stick Digging Force (ISO)	178	39,900	191	43,000	207	46,600	229	51,400
Stick Digging Force (SAE)	173	38,800	186	41,800	201	45,100	220	49,500
GP-C, HD, HDR with coupler								
Stick Digging Force (ISO)	163	36,600	175	39,300	187	42,100	205	46,000
Stick Digging Force (SAE)	160	36,000	172	38,700	184	41,300	200	45,000
HD-P with coupler								
Stick Digging Force (ISO)	167	37,500	179	40,300	193	43,300	211	47,400
Stick Digging Force (SAE)	164	36,800	176	39,500	188	42,400	206	46,200

	Sticks			
VB-Family Buckets	**M3.0**		**M2.5**	
	kN	lb	kN	lb
GP				
Stick Digging Force (ISO)	207	46,400	234	52,500
Stick Digging Force (SAE)	199	44,700	224	50,300
HD, HDR with coupler				
Stick Digging Force (ISO)	210	47,300	238	53,600
Stick Digging Force (SAE)	203	45,500	228	51,300

Bucket Forces				
	TB-Family Buckets		**VB-Family Buckets**	
	kN	lb	kN	lb
GP-C, HD, HDR				
Bucket Digging Force (ISO)	268	60,200	279	62,700
Bucket Digging Force (SAE)	238	53,500	248	55,700
HD-P				
Bucket Digging Force (ISO)	300	67,300	293	65,800
Bucket Digging Force (SAE)	258	58,000	259	58,300
GP-C, HD, HDR with coupler				
Bucket Digging Force (ISO)	220	49,400		
Bucket Digging Force (SAE)	203	45,600		
HD-P with coupler				
Bucket Digging Force (ISO)	239	53,700		
Bucket Digging Force (SAE)	217	48,700		

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

BOOM – 6.9 m (22'8")
STICK – 3.9 m (12'10")

BUCKET – 1.6 m³ (2.09 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Standard gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft				
																		m ft
9.0 m **30.0 ft**	kg **lb**															*4200 ***9,300**	*4200 ***9,300**	9.90 **32.12**
7.5 m **25.0 ft**	kg **lb**											*7150 ***14,100**	6450 **13,700**			*4100 ***8,950**	*4100 ***8,950**	10.83 **35.33**
6.0 m **20.0 ft**	kg **lb**											*7850 ***17,200**	6350 **13,550**			*4100 ***8,950**	3900 **8,700**	11.44 **37.42**
4.5 m **15.0 ft**	kg **lb**									*9400 ***20,350**	8600 **18,450**	*8400 ***18,250**	6150 **13,100**	*6150	4450	*4200 ***9,250**	3550 **7,850**	11.78 **38.61**
3.0 m **10.0 ft**	kg **lb**					*18 050 ***38,750**	*18 050 ***38,750**	*13 100 ***28,300**	11 650 **25,100**	*10 600 ***22,900**	8100 **17,350**	9050 **19,400**	5850 **12,500**	6850 **14,600**	4300 **9,150**	*4450 ***9,750**	3350 **7,400**	11.89 **39.02**
1.5 m **5.0 ft**	kg **lb**					*21 450 ***46,250**	16 700 **35,950**	*15 050 ***32,450**	10 750 **23,150**	*11 700 ***25,300**	7550 **16,250**	8750 **18,700**	5550 **11,900**	6650 **14,250**	4150 **8,850**	*4800 ***10,600**	3350 **7,300**	11.78 **38.66**
Ground Line	kg **lb**			*8650 ***19,600**	*8650 ***19,600**	*23 000 ***49,750**	15 700 **33,750**	*16 300 **35,000**	10 100 **21,750**	11 350 **24,400**	7150 **15,400**	8450 **18,150**	5300 **11,350**	6550	4050	*5400 ***11,850**	3450 **7,600**	11.44 **37.54**
–1.5 m **–5.0 ft**	kg **lb**	*9250 ***20,600**	*9250 ***20,600**	*13 300 ***30,000**	*13 300 ***30,000**	*23 000 ***49,800**	15 350 **33,000**	15 900 **34,150**	9800 **21,000**	11 100 **23,850**	6900 **14,850**	8300 **17,800**	5150 **11,050**			6200 **13,700**	3800 **8,400**	10.85 **35.56**
–3.0 m **–10.0 ft**	kg **lb**	*14 200 ***31,700**	*14 200 ***31,700**	*19 000 ***42,850**	*19 000 ***42,850**	*21 800 ***47,150**	15 400 **33,000**	15 800 **33,950**	9700 **20,800**	11 000 **23,650**	6850 **14,700**	8300 **17,800**	5150 **11,050**			7200 **15,950**	4500 **9,950**	9.96 **32.56**
–4.5 m **–15.0 ft**	kg **lb**			*23 100 ***51,400**	*23 100 ***51,400**	*19 300 ***41,600**	15 700 **33,650**	*14 550 ***31,300**	9800 **21,100**	11 150 ***23,750**	6950 **14,950**					*6450 ***13,850**	5850 **13,050**	8.67 **28.18**
–6.0 m **–20.0 ft**	kg **lb**			*20 150 ***42,700**	*20 150 ***42,700**	*15 050 ***31,900**	*15 050 ***31,900**	*11 300 ***23,700**	10 250 **22,050**							*8800 ***19,250**	8050 **18,250**	7.04 **22.72**

BOOM – 6.9 m (22'8")
STICK – 3.9 m (12'10")

BUCKET – 1.6 m³ (2.09 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		10.5 m/35.0 ft				
																		m ft
9.0 m **30.0 ft**	kg **lb**															*4200 ***9,300**	*4200 ***9,300**	9.90 **32.12**
7.5 m **25.0 ft**	kg **lb**											*7150 ***14,100**	6550 **13,900**			*4100 ***8,950**	*4100 ***8,950**	10.83 **35.33**
6.0 m **20.0 ft**	kg **lb**											*7850 ***17,200**	6450 **13,800**			*4100 ***8,950**	4000 **8,850**	11.44 **37.42**
4.5 m **15.0 ft**	kg **lb**									*9400 ***20,350**	8750 **18,750**	*8400 ***18,250**	6250 **13,350**	*6150	4500	*4200 ***9,250**	3650 **8,000**	11.78 **38.61**
3.0 m **10.0 ft**	kg **lb**					*18 050 ***38,750**	*18 050 ***38,750**	*13 100 ***28,300**	11 850 **25,500**	*10 600 ***22,900**	8200 **17,650**	*9050 ***19,650**	5950 **12,750**	7750 ***15,150**	4400 **9,350**	*4450 ***9,750**	3450 **7,550**	11.89 **39.02**
1.5 m **5.0 ft**	kg **lb**					*21 450 ***46,250**	16 950 **36,500**	*15 050 ***32,450**	10 950 **23,550**	*11 700 ***25,300**	7700 **16,550**	*9700 ***21,050**	5650 **12,100**	7600 **16,250**	4250 **9,050**	*4800 ***10,600**	3400 **7,500**	11.78 **38.66**
Ground Line	kg **lb**			*8650 ***19,600**	*8650 ***19,600**	*23 000 ***49,750**	16 000 **34,350**	*16 300 ***35,200**	10 300 **22,150**	*12 500 ***27,050**	7300 **15,700**	9650 **20,650**	5400 **11,600**	7450	4100	*5400 ***11,850**	3550 **7,800**	11.44 **37.54**
–1.5 m **–5.0 ft**	kg **lb**	*9250 ***20,600**	*9250 ***20,600**	*13 300 ***30,000**	*13 300 ***30,000**	*23 000 ***49,800**	15 650 **33,550**	*16 650 ***36,050**	9950 **21,400**	12 650 **27,200**	7050 **15,150**	9450 **20,300**	5250 **11,300**			*6250 ***13,750**	3900 **8,550**	10.85 **35.56**
–3.0 m **–10.0 ft**	kg **lb**	*14 200 ***31,700**	*14 200 ***31,700**	*19 000 ***42,850**	*19 000 ***42,850**	*21 800 ***47,150**	15 650 **33,600**	*16 150 ***34,900**	9850 **21,200**	*12 500 ***26,900**	7000 **15,000**	9450 **20,300**	5250 **11,250**			*7600 ***16,700**	4600 **10,150**	9.96 **32.56**
–4.5 m **–15.0 ft**	kg **lb**			*23 100 ***51,400**	*23 100 ***51,400**	*19 300 ***41,600**	15 950 **34,250**	*14 550 ***31,300**	10 000 **21,500**	*11 150 ***23,750**	7100 **15,250**					*6450 ***13,850**	5950 **13,300**	8.67 **28.18**
–6.0 m **–20.0 ft**	kg **lb**			*20 150 ***42,700**	*20 150 ***42,700**	*15 050 ***31,900**	*15 050 ***31,900**	*11 300 ***23,700**	10 400 **22,450**							*8800 ***19,250**	8200 **18,550**	7.04 **22.72**

* Limited to hydraulic capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity rating standard SAE J/ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

All lifts with heavy lift on.

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

BOOM – 6.9 m (22'8")
STICK – 3.4 m (11'2")

BUCKET – 1.9 m³ (2.49 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Standard gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*4350 ***9,600**	*4350 ***9,600**	9.35 **30.30**
7.5 m **25.0 ft**	kg **lb**											*4150 ***9,150**	*4150 ***9,150**	10.34 **33.72**
6.0 m **20.0 ft**	kg **lb**							*9000 ***19,600**	8800 **18,850**	*8400 ***18,350**	6150 **13,100**	*4150 ***9,100**	4150 ***9,100**	10.98 **35.93**
4.5 m **15.0 ft**	kg **lb**					*11 900 ***25,650**	*11 900 ***25,650**	*10 000 ***21,650**	8400 **18,000**	*8850 ***19,200**	5950 **12,750**	*4250 ***9,350**	3750 **8,250**	11.34 **37.18**
3.0 m **10.0 ft**	kg **lb**			*19 600 ***42,000**	17 800 **38,350**	*13 950 ***30,000**	11 350 **24,450**	*11 100 ***24,000**	7900 **16,950**	8900 **19,100**	5700 **12,250**	*4500 ***9,850**	3550 **7,800**	11.46 **37.60**
1.5 m **5.0 ft**	kg **lb**			*21 900 ***48,300**	16 200 **34,950**	*15 650 ***33,750**	10 550 **22,700**	11 650 **25,050**	7450 **16,000**	8650 **18,500**	5450 **11,700**	*4850 ***10,650**	3550 **7,750**	11.35 **37.24**
Ground Line	kg **lb**	***16,100**	***16,100**	*20 800 ***48,300**	15 550 **33,350**	16 150 **34,700**	10 000 **21,500**	11 300 **24,250**	7100 **15,250**	8400 **18,050**	5250 **11,250**	*5400 ***11,900**	3700 **8,150**	10.99 **36.06**
–1.5 m **–5.0 ft**	kg **lb**	*13 300 ***30,000**	*13 300 ***30,000**	*22 600 ***49,000**	15 400 **33,000**	15 900 **34,100**	9750 **20,950**	11 100 **23,800**	6900 **14,850**	8300 **17,850**	5150 **11,050**	*6300 ***13,850**	4150 **9,100**	10.37 **33.98**
–3.0 m **–10.0 ft**	kg **lb**	*20 200 ***45,600**	*20 200 ***45,600**	*20 900 ***45,250**	15 550 **33,350**	*15 750 ***34,000**	9750 **20,950**	11 050 **23,800**	6900 **14,800**	8350	5200	*7600 ***16,700**	4950 **11,000**	9.42 **30.80**
–4.5 m **–15.0 ft**	kg **lb**	*22 650 ***50,500**	*22 650 ***50,500**	*17 900 ***38,500**	15 950 **34,250**	*13 650 ***29,250**	10000 **21,500**	*10 200 ***21,550**	7100 **15,300**			*6150 ***13,550**	*6150 ***13,550**	8.04 **26.11**
–6.0 m **–20.0 ft**	kg **lb**			*12 750 ***26,750**	*12 750 ***26,750**	*9300 ***18,900**	*9300 ***18,900**					*8350 ***18,100**	*8350 ***18,100**	6.35 **20.42**

BOOM – 6.9 m (22'8")
STICK – 3.4 m (11'2")

BUCKET – 2 m³ (2.62 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*4350 ***9600**	*4350 ***9,600**	9.35 **30.30**
7.5 m **25.0 ft**	kg **lb**											*4200 ***9200**	*4200 ***9,200**	10.34 **33.72**
6.0 m **20.0 ft**	kg **lb**							*9050 ***19,650**	8950 **19,150**	*8400 ***18,350**	6250 **13,350**	*4150 ***9150**	*4150 ***9,150**	10.98 **35.93**
4.5 m **15.0 ft**	kg **lb**					*11 900 ***25,650**	*11 900 ***25,650**	*10 000 ***21,650**	8550 **18,300**	*8850 ***19,250**	6100 **13,000**	*4300 ***9400**	3850 **8,450**	11.34 **37.18**
3.0 m **10.0 ft**	kg **lb**			*19 600 ***42,050**	18 050 **38,950**	*13 950 ***30,050**	11 550 **24,850**	*11 100 ***24,050**	8050 **17,250**	*9450 ***20,500**	5850 **12,500**	*4500 ***9900**	3650 **8,000**	11.46 **37.60**
1.5 m **5.0 ft**	kg **lb**			*21 900 ***48,350**	16 500 **35,550**	*15 650 ***33,750**	10 750 **23,100**	*12 100 ***26,200**	7600 **16,300**	9800 **21,000**	5600 **11,950**	*4900 ***10,700**	3650 **7,950**	11.35 **37.24**
Ground Line	kg **lb**	***16,100**	***16,100**	*20 800 ***48,350**	15 800 **34,000**	*16 600 ***35,850**	10 200 **21,900**	*12 750 ***27,550**	7250 **15,550**	9600 **20,550**	5400 **11,500**	*5450 ***11,950**	3800 **8,350**	10.99 **36.06**
–1.5 m **–5.0 ft**	kg **lb**	*13 300 ***30,000**	*13 300 ***30,000**	*22 650 ***49,050**	15 650 **33,600**	*16 650 ***36,000**	9950 **21,350**	12 650 **27,150**	7050 **15,150**	9450 **20,350**	5300 **11,300**	*6300 ***13,900**	4250 **9,300**	10.37 **33.98**
–3.0 m **–10.0 ft**	kg **lb**	*20 200 ***45,600**	*20 200 ***45,600**	*20 950 ***45,300**	15 800 **33,950**	*15 750 ***34,050**	9950 **21,350**	*12 200 ***26,200**	7050 **15,100**	*9250	5350	*7600 ***16,750**	5100 **11,250**	9.42 **30.80**
–4.5 m **–15.0 ft**	kg **lb**	*22 650 ***50,450**	*22 650 ***50,450**	*17 900 ***38,550**	16 200 **34,850**	*13 700 ***29,300**	10 150 **21,900**	*10 250 ***21,550**	7250 **15,600**			*6200 ***13,600**	*6200 ***13,600**	8.04 **26.11**
–6.0 m **–20.0 ft**	kg **lb**			*12 750 ***26,750**	*12 750 ***26,750**	*9300 ***18,950**	*9300 ***18,950**					*8350 ***18,150**	*8350 ***18,150**	6.35 **20.42**

* Limited to hydraulic capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity rating standard SAE J/ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

All lifts with heavy lift on.

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

BOOM – 6.9 m (22'8")
STICK – 2.9 m (9'7")

BUCKET – 2 m³ (2.62 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Standard gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*5150 ***11,350**	*5150 ***11,350**	8.82 **28.52**
7.5 m **25.0 ft**	kg **lb**							*9050 ***19,800**	8800 **18,850**			*4950 ***10,850**	*4950 ***10,850**	9.88 **32.18**
6.0 m **20.0 ft**	kg **lb**							*9550 ***20,750**	8600 **18,450**	*8850 ***16,250**	6000 **12,750**	*4900 ***10,800**	4450 **9,900**	10.55 **34.50**
4.5 m **15.0 ft**	kg **lb**			*16 650 ***35,650**	*16 650 ***35,650**	*12 550 ***27,050**	12 000 **25,850**	*10 450 ***22,600**	8200 **17,650**	9050 **19,350**	5850 **12,500**	*5050 ***11,050**	4000 **8,800**	10.93 **35.81**
3.0 m **10.0 ft**	kg **lb**			*20 600 ***44,200**	17 050 **36,850**	*14 450 ***31,150**	11 050 **23,800**	*11 450 ***24,750**	7750 **16,600**	8800 **18,850**	5600 **12,000**	*5300 ***11,650**	3800 **8,300**	11.05 **36.25**
1.5 m **5.0 ft**	kg **lb**			*17 700 ***42,500**	15 700 **33,800**	*15 950 ***34,400**	10 300 **22,150**	11 500 **24,750**	7300 **15,700**	8550 **18,300**	5400 **11,500**	*5700 ***12,550**	3750 **8,300**	10.93 **35.87**
Ground Line	kg **lb**			*19 800 ***46,050**	15 250 **32,750**	15 950 **34,300**	9800 **21,100**	11 200 **24,000**	7000 **15,000**	8350 **17,950**	5200 **11,150**	*6350 ***14,000**	4000 **8,750**	10.56 **34.64**
–1.5 m **–5.0 ft**	kg **lb**	*13 900 ***31,400**	*13 900 ***31,400**	*21 900 ***47,500**	15 250 **32,700**	15 800 **33,850**	9650 **20,750**	11 050 **23,700**	6850 **14,700**	8300 **17,850**	5150 **11,050**	7200 **15,900**	4500 **9,850**	9.90 **32.45**
–3.0 m **–10.0 ft**	kg **lb**	*20 550 ***45,400**	*20 550 ***45,400**	*19 850 ***42,950**	15 500 **33,250**	*15 200 ***32,800**	9750 **20,900**	11 100 **23,800**	6900 **14,850**			*7650 ***16,850**	5500 **12,200**	8.90 **29.08**
–4.5 m **–15.0 ft**	kg **lb**	*20 950 ***45,100**	*20 950 ***45,100**	*16 400 ***35,200**	16 000 **34,400**	*12 650 ***26,950**	10 050 **21,650**					*6350 ***13,900**	*6350 ***13,900**	7.44 **24.22**

BOOM – 6.9 m (22'8")
STICK – 2.9 m (9'7")

BUCKET – 2.2 m³ (2.88 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*5100 ***11,250**	*5100 ***11,250**	8.82 **28.52**
7.5 m **25.0 ft**	kg **lb**							*9000 ***19,700**	8900 **19,000**			*4850 ***10,750**	*4850 ***10,750**	9.88 **32.18**
6.0 m **20.0 ft**	kg **lb**							*9500 ***20,600**	8700 **18,650**	*8800 ***16,150**	6050 **12,900**	*4850 ***10,650**	4500 **9,950**	10.55 **34.50**
4.5 m **15.0 ft**	kg **lb**			*16 600 ***35,600**	*16 600 ***35,600**	*12 500 ***26,950**	12 150 **26,150**	*10 400 ***22,500**	8300 **17,850**	*9150 ***19,850**	5900 **12,600**	*5000 ***10,950**	4050 **8,900**	10.93 **35.81**
3.0 m **10.0 ft**	kg **lb**			*20 550 ***44,100**	17 300 **37,300**	*14 400 ***31,050**	11 200 **24,100**	*11 400 ***24,650**	7850 **16,800**	*9650 ***20,900**	5700 **12,150**	*5250 ***11,500**	3800 **8,400**	11.05 **36.25**
1.5 m **5.0 ft**	kg **lb**			*17 650 ***42,350**	15 900 **34,250**	*15 900 ***34,300**	10 400 **22,400**	*12 250 ***26,550**	7400 **15,900**	9650 **20,750**	5450 **11,650**	*5650 ***12,450**	3800 **8,350**	10.93 **35.87**
Ground Line	kg **lb**			*19 750 ***45,900**	15 450 **33,200**	*16 550 ***35,800**	9950 **21,400**	12 700 **27,300**	7100 **15,200**	9500 **20,350**	5300 **11,300**	*6300 ***13,900**	4000 **8,850**	10.56 **34.64**
–1.5 m **–5.0 ft**	kg **lb**	*13 850 ***31,300**	*13 850 ***31,300**	*21 850 ***47,350**	15 450 **33,150**	*16 350 ***35,300**	9800 **21,000**	12 550 **26,950**	6950 **14,900**	9400 **20,250**	5250 **11,200**	*7300 ***16,150**	4550 **9,950**	9.90 **32.45**
–3.0 m **–10.0 ft**	kg **lb**	*20 550 ***45,450**	*20 550 ***45,450**	*19 800 ***42,850**	15 700 **33,700**	*15 150 ***32,650**	9850 **21,200**	*11 650 ***25,050**	7000 **15,050**			*7600 ***16,700**	5550 **12,300**	8.90 **29.08**
–4.5 m **–15.0 ft**	kg **lb**	*20 850 ***44,950**	*20 850 ***44,950**	*16 350 ***35,100**	16 250 **34,850**	*12 600 ***26,850**	10 200 **21,950**					*6300 ***13,800**	*6300 ***13,800**	7.44 **24.22**

* Limited to hydraulic capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity rating standard SAE J/ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

All lifts with heavy lift on.

Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

BOOM – 6.55 m (21'6")
STICK – 3 m (9'11")

BUCKET – 2.1 m³ (2.75 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Standard gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*4650	*4650	8.70
7.5 m **25.0 ft**	kg **lb**							*8550 ***18,800**	8450 **17,900**			*4400 ***9,750**	*4400 ***9,750**	9.79 **31.88**
6.0 m **20.0 ft**	kg **lb**							*8950 ***19,450**	8300 **17,700**	*6750	5500	*4400 ***9,650**	4100 **9,150**	10.47 **34.23**
4.5 m **15.0 ft**	kg **lb**					*11 700 ***25,200**	*11 700 ***25,200**	*9800 ***21,200**	7900 **16,950**	*8650 **18,450**	5400 **11,500**	*4500 ***9,900**	3650 **8,000**	10.84 **35.53**
3.0 m **10.0 ft**	kg **lb**			*19 050 ***40,900**	17 400 **37,550**	*13 550 ***29,250**	10 950 **23,550**	*10 800 ***23,300**	7450 **15,900**	8400 **17,950**	5200 **11,050**	*4800 ***10,450**	3400 **7,500**	10.95 **35.93**
1.5 m **5.0 ft**	kg **lb**			*21 650 ***46,700**	15 650 **33,750**	*15 100 ***32,650**	10 050 **21,600**	11 250 **24,100**	6950 **14,900**	8150 **17,450**	4950 **10,550**	*5200 ***11,450**	3400 **7,450**	10.81 **35.47**
Ground Line	kg **lb**			*22 350 ***48,350**	14 900 **31,950**	15 700 **33,700**	9450 **20,350**	10 850 **23,250**	6600 **14,150**	7950 **17,000**	4750 **10,150**	*5900 ***12,950**	3600 **7,950**	10.40 **34.11**
–1.5 m **–5.0 ft**	kg **lb**	*14 950 ***33,850**	*14 950 ***33,850**	*21 600 ***46,750**	14 700 **31,550**	15 400 **33,050**	9200 **19,800**	10 650 **22,850**	6400 **13,750**	7900	4700	*6950 ***15,300**	4200 **9,200**	9.69 **31.76**
–3.0 m **–10.0 ft**	kg **lb**	*23 600 ***53,450**	*23 600 ***53,450**	*19 600 ***42,350**	14 950 **32,050**	*14 650 ***31,550**	9250 **19,850**	10 700 **22,950**	6450 **13,850**			*7050 ***15,450**	5350 **11,900**	8.61 **28.11**
–4.5 m **–15.0 ft**	kg **lb**	*21 150 ***45,400**	*21 150 ***45,400**	*15 950 ***34,200**	15 500 **33,250**	*11 900 ***25,250**	9600 **20,650**					*5950 ***19,450**	*5950 **16,450**	7.11 **23.22**

BOOM – 6.55 m (21'6")
STICK – 3 m (9'11")

BUCKET – 2.2 m³ (2.88 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
9.0 m **30.0 ft**	kg **lb**											*4750	*4750	8.70
7.5 m **25.0 ft**	kg **lb**							*8650 ***19,000**	8650 **18,350**			*4550 ***10,000**	*4550 ***10,000**	9.79 **31.88**
6.0 m **20.0 ft**	kg **lb**							*9050 ***19,650**	8500 **18,150**	*6800	5700	*4500 ***9,900**	4300 **9,550**	10.47 **34.23**
4.5 m **15.0 ft**	kg **lb**					*11 750 ***25,350**	*11 750 ***25,350**	*9850 ***21,350**	8100 **17,400**	*8750 ***19,050**	5600 **11,850**	*4600 ***10,150**	3800 **8,400**	10.84 **35.53**
3.0 m **10.0 ft**	kg **lb**			*19 150 ***41,100**	17 750 **38,300**	*13 650 ***29,400**	11 200 **24,050**	*10 850 ***23,500**	7650 **16,350**	*9200 ***20,000**	5350 **11,450**	*4900 ***10,700**	3600 **7,900**	10.95 **35.93**
1.5 m **5.0 ft**	kg **lb**			*21 800 ***46,950**	16 050 **34,500**	*15 200 ***32,850**	10 300 **22,150**	*11 750 ***25,400**	7150 **15,350**	9400 **20,100**	5150 **10,950**	*5300 ***11,700**	3550 **7,850**	10.81 **35.47**
Ground Line	kg **lb**			*22 450 ***48,600**	15 250 **32,750**	*16 000 ***34,650**	9750 **20,900**	*12 250 ***26,500**	6800 **14,550**	9200 **19,700**	4950 **10,550**	*6000 ***13,200**	3800 **8,350**	10.40 **34.11**
–1.5 m **–5.0 ft**	kg **lb**	*15 050 ***34,000**	*15 050 ***34,000**	*21 700 ***47,050**	15 100 **32,350**	*15 900 ***34,400**	9500 **20,350**	*12 150 ***26,250**	6600 **14,200**	9100	4900	*7050 ***15,550**	4400 **9,650**	9.69 **31.76**
–3.0 m **–10.0 ft**	kg **lb**	*23 700 ***53,650**	*23 700 ***53,650**	*19 700 ***42,600**	15 300 **32,800**	*14 750 ***31,800**	9500 **20,400**	*11 150 ***23,800**	6650 **14,300**			*7150 ***15,700**	5550 **12,350**	8.61 **28.11**
–4.5 m **–15.0 ft**	kg **lb**	*21 250 ***45,650**	*21 250 ***45,650**	*16 050 ***34,400**	15 850 **34,000**	*12 000 ***25,450**	9850 **21,200**					*6050 ***19,600**	*6050 **16,900**	7.11 **23.22**

* Limited to hydraulic capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity rating standard SAE J/ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

All lifts with heavy lift on.

Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

BOOM – 6.55 m (21'6")
STICK – 2.5 m (8'3")

BUCKET – 2.4 m³ (3.14 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Standard gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**							*9400	8250			*5850 ***12,900**	5650 **12,750**	9.26 **30.14**
6.0 m **20.0 ft**	kg **lb**							*9700 ***21,100**	8200 **17,450**			*5800 ***12,800**	4650 **10,300**	9.99 **32.65**
4.5 m **15.0 ft**	kg **lb**			*16 700 ***35,800**	*16 700 ***35,800**	*12 600 ***27,150**	11 750 **25,250**	*10 450 ***22,600**	7850 **16,800**	8600	5350	*5950 ***13,100**	4100 **9,000**	10.38 **34.03**
3.0 m **10.0 ft**	kg **lb**			*20 400 ***43,800**	16 850 **36,350**	*14 350 ***30,950**	10 800 **23,250**	*11 350 ***24,550**	7400 **15,850**	8400 **17,950**	5200 **11,050**	*6300 ***13,800**	3850 **8,400**	10.50 **34.44**
1.5 m **5.0 ft**	kg **lb**			*20 000 ***48,250**	15 350 **33,100**	*15 700 ***33,850**	10 000 **21,500**	11 250 **24,100**	7000 **14,950**	8200 **17,550**	5000 **10,650**	6450 **14,150**	3850 **8,400**	10.34 **33.95**
Ground Line	kg **lb**			*22 300 ***48,400**	14 900 **31,950**	15 750 **33,750**	9500 **20,450**	10 900 **23,400**	6700 **14,300**	8050	4850	6900 **15,150**	4100 **9,050**	9.91 **32.52**
–1.5 m **–5.0 ft**	kg **lb**	*15 750 ***35,700**	*15 750 ***35,700**	*21 050 ***45,700**	14 900 **32,000**	15 550 **33,400**	9350 **20,100**	10 800 **23,150**	6550 **14,100**			7950 **17,500**	4800 **10,650**	9.16 **30.02**
–3.0 m **–10.0 ft**	kg **lb**	*24 100 ***52,350**	*24 100 ***52,350**	*18 600 ***40,200**	15 250 **32,750**	*14 150 ***30,450**	9500 **20,400**	*10 450 ***22,150**	6700 **14,450**			*7100 ***15,550**	6300 **14,050**	8.01 **26.12**
–4.5 m **–15.0 ft**	kg **lb**			*14 300 ***30,450**	*14 300 ***30,450**	*10 550 ***22,000**	10 000 **21,550**					*9050 ***19,800**	8850 ***19,800**	6.49 **21.06**

BOOM – 6.55 m (21'6")
STICK – 2.5 m (8'3")

BUCKET – 2.4 m³ (3.14 yd³)
SHOES – 600 mm (23.62") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8 ton (17,637 lb)

		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				
														m ft
7.5 m **25.0 ft**	kg **lb**							*9400	8400			*5850 ***12,900**	5750 ***12,900**	9.26 **30.14**
6.0 m **20.0 ft**	kg **lb**							*9700 ***21,100**	8300 **17,750**			*5800 ***12,800**	4750 **10,500**	9.99 **32.65**
4.5 m **15.0 ft**	kg **lb**			*16 700 ***35,800**	*16 700 ***35,800**	*12 600 ***27,150**	11 900 **25,650**	*10 450 ***22,600**	8000 **17,100**	*9200	5450	*5950 ***13,100**	4150 **9,200**	10.38 **34.03**
3.0 m **10.0 ft**	kg **lb**			*20 400 ***43,800**	17 100 **36,950**	*14 350 ***30,950**	10 950 **23,600**	*11 350 ***24,550**	7550 **16,150**	*9550 **20,500**	5300 **11,300**	*6300 ***13,800**	3900 **8,600**	10.50 **34.44**
1.5 m **5.0 ft**	kg **lb**			*20 000 ***48,250**	15 650 **33,650**	*15 700 ***33,850**	10 150 **21,850**	*12 100 ***26,150**	7100 **15,250**	9350 **20,050**	5100 **10,900**	*6850 ***15,000**	3900 **8,600**	10.34 **33.95**
Ground Line	kg **lb**			*22 300 ***48,400**	15 150 **32,550**	*16 200 ***35,000**	9700 **20,850**	*12 400 **26,800**	6800 **14,600**	9250	5000	*7650 ***16,850**	4200 **9,250**	9.91 **32.52**
–1.5 m **–5.0 ft**	kg **lb**	*15 750 ***35,700**	*15 750 ***35,700**	*21 050 ***45,700**	15 200 **32,550**	*15 750 ***34,050**	9550 **20,500**	*12 050 ***25,950**	6700 **14,400**			*8000 ***17,550**	4900 **10,850**	9.16 **30.02**
–3.0 m **–10.0 ft**	kg **lb**	*24 100 ***52,350**	*24 100 ***52,350**	*18 600 ***40,200**	15 500 **33,300**	*14 150 ***30,450**	9700 **20,800**	*10 450 ***22,150**	6850 **14,700**			*7100 ***15,550**	6450 **14,350**	8.01 **26.12**
–4.5 m **–15.0 ft**	kg **lb**			*14 300 ***30,450**	*14 300 ***30,450**	*10 550 ***22,000**	10 150 **21,900**					*9050 ***19,800**	9050 ***19,800**	6.49 **21.06**

* Limited to hydraulic capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity rating standard SAE J/ISO 10567. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

All lifts with heavy lift on.

Standard Equipment

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

Air conditioner, heater, defroster with
  automatic climate control
Auto-lube ready
Auxiliary hydraulic valve and auxiliary pump drive location
Ashtray with lighter
Bolt-on FOGS capability
Coat hook
Counterweight 7611 kg (16,780 lb)
Engine
  Cat C13 with ACERT™ Technology
  Speed control, automatic
Floor mat
Fuel-water separator
Hydraulic neutralizer lever for all controls
Light, interior
Lights, working
  Frame mounted
  Boom, both sides
Literature compartment
Mirrors, frame and cab
Monitor, full graphic color display
Positive filtered ventilation
Radio mounting (DIN size)
Seat belt, retractable
Seat, suspension
Skylight, openable, with sunshade
S•O•S℠ analysis, engine and hydraulic sampling ports
Start-up level checks (engine oil & coolant, hydraulic oil)
Storage compartment suitable for a lunch box cooler
Swing parking brake, automatic
Track
  600 mm (24 in) triple grouser shoes for variable
    undercarriage
  750 mm (30 in) triple grouser shoes for standard
    and long fixed undercarriage
  Grease lubricated
  Guiding guards, idler and center sections
Windshield wiper and washer

Optional Equipment

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

- Auto-lube system
- Auxiliary controls
  - Hammer (one-way), thumb (two-way), combined (tool control)
- Auxiliary hydraulic lines for reach booms and sticks
- Auxiliary hydraulic valve and pump attachments
- Booms
  - Long reach 7.4 m (24 ft 3 in) – (on demand only)
  - Mass excavation 6.55 m (21 ft 6 in)
  - Reach, Special Application 6.9 m (22 ft 8 in)
- Buckets (see pages 12, 22, 23 and 24)
  - Bucket linkage:
    - TB family (with lift eye)
    - VB family
  - Bucket sidecutters and tips
- Cab
  - Tempered glass windows
  - Polycarbonate windows
  - Power supply, 12V – 7A (1)
  - Rear window emergency exit
  - Seat, high-back air suspension
  - Seat, high-back air suspension with heater
  - Seat, high-back mechanical suspension
  - Seat, low-back suspension seat without headrest
  - Headrest
  - Sunscreen
  - Windshield wiper, lower with washer
- Check valves
  - Boom lowering
  - Stick lowering
- Counterweight
  - Counterweight 8110 kg (17,880 lb)
  - Counterweight 9013 kg (19,870 lb)
- Coupler
  - Coupler control with piping (on demand only)
- Electric refueling pump
- Engine
  - Auto-reverse cooling fan
  - Cold weather starting aid (ether aid, heavy-duty batteries and jump receptacle)
  - High ambient cooling package 52° C (125° F)
  - Pre-cleaner
  - Radiator screen
- Guards
  - Falling Object, for cab
  - Front window
  - Heavy-duty, under house
  - Net front guard
  - Swivel guard
  - Vandalism protection
  - Guiding, full length
  - Guiding, sprocket end
- Hand control pattern changer
- Heavy lift mode
- Lights, cab mounted
- Product Link ready
- Sticks
  - 2.5 m (8 ft 2 in) M
  - 2.9 m (9 ft 6 in) R/SA
  - 3.0 m (9 ft 10 in) M
  - 3.35 m (10 ft 10 in) R/SA
  - 3.9 m (12 ft 10 in) LR/R/SA
  - 4.3 m (14 ft 1 in) LR/R/SA (on demand only)
- Track
  - 600 mm (24 in) double-grouser shoes
  - 750 mm (30 in) double-grouser shoes
  - 750 mm (30 in) triple-grouser shoes
  - 900 mm (36 in) triple-grouser shoes
- Undercarriage
  - Standard fixed
  - Long fixed
  - Variable
- Water level indicator for water separator

345C/345C L Hydraulic Excavator

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