

345C L

Hydraulic Excavator



Engine

Engine Model	Cat® C13 with ACERT™ Technology	
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Net Flywheel Power	257 kW	345 hp
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Weights

Operating Weight	44 970 kg	99,150 lb
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345C L Hydraulic Excavator

The 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 U.S. EPA Tier 3 and EU Stage IIIA emission regulations, with exceptional performance capabilities and proven reliability. **pg. 4**

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**

Hydraulics

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

Work Tools

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

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**

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 Fixed, Variable and Wide Variable 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 these U.S. EPA Tier 3 emissions while delivering good fuel economy.

Emissions. ACERT Technology is a differentiated technology that reduces emissions at the point of combustion. The technology capitalizes on Caterpillar's 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 also reduces turbine wear in high RPM, low load conditions and optimizes air and fuel delivery for peak engine 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 degree C (-25.6 degree 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 been designed to provide a high level of overall system efficiency.

Heavy Lift Standard. The operator can select the heavy lift mode at the push of a button to boost lifting capability and provide improved controllability of heavy loads.

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 with excellent 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. 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 the icon and language.

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

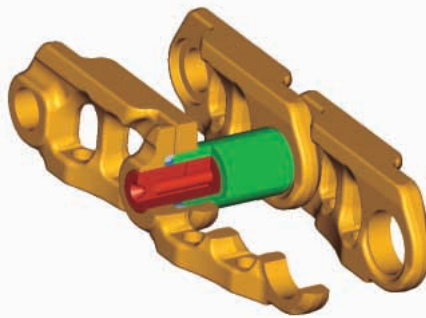
Durable undercarriage absorbs stresses and provides excellent stability.



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.



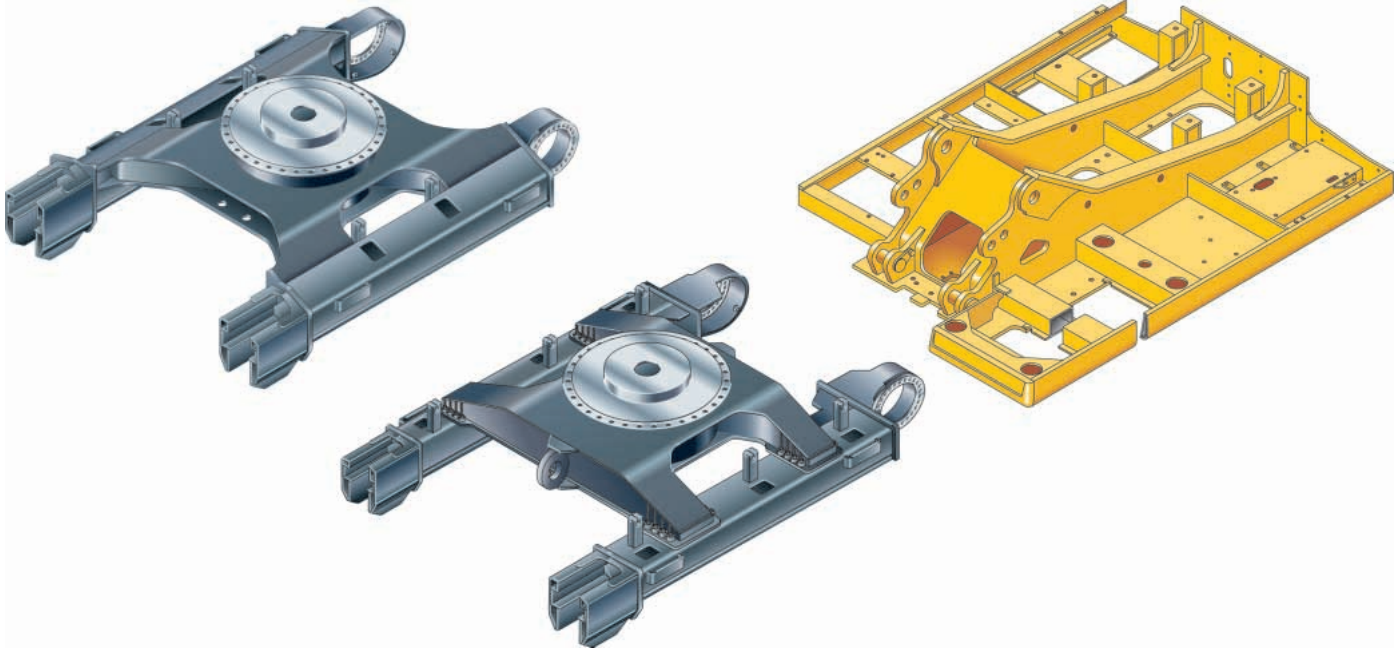
Track. The 345C L comes standard with the new grease lubricated track called GLT4. The track links are assembled and sealed with grease to decrease internal bushing wear, reduce travel noise and extend service life lowering operating costs.

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.

- Fixed gauge for narrow transport and weight sensitive areas.
- Variable gauge for increased track and ground clearance and over-side lift.
- Wide variable gauge with significant increase in over-side lift with the capability for handling larger buckets.

The carbody utilizes a new columnless design that allows the swing bearing to be directly mounted on the top plate for excellent rigidity and strength.

Upper Frame. The rugged main frame 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.

Track Roller Frame. Fixed Gauge Undercarriage

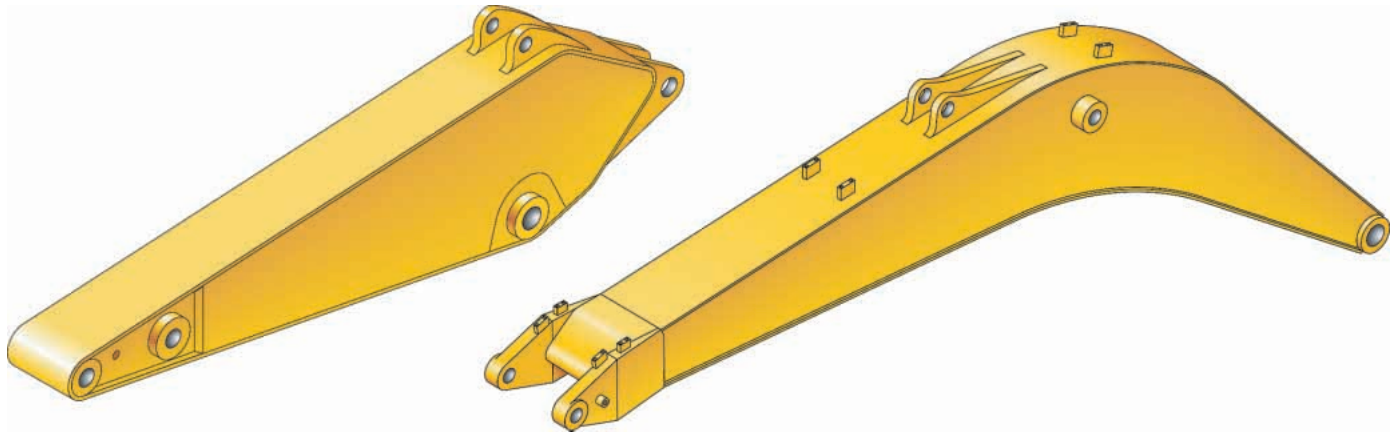
- Uses a press-formed, pentagonal section for the track frame that is robot-welded for weld consistency and quality. The track frame has been designed so that the top of the track frame has a steep angle to help prevent accumulation of mud and debris.

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.

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 (14'1") 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.

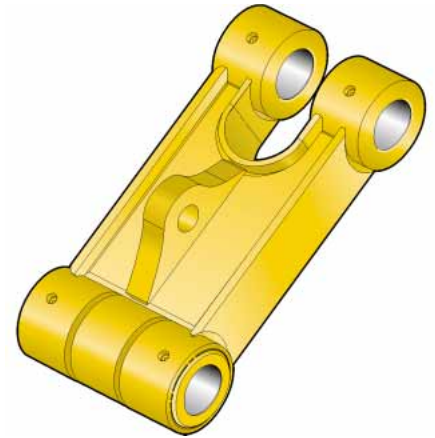
Reach Boom – 6.9 m (22 ft 8 in) long.

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.



General Purpose Buckets. General purpose (GP) buckets for digging in low-impact, moderately abrasive materials such as dirt, loam, gravel and clay.

Heavy Duty Buckets. Heavy duty (HD) buckets for a wide range of moderately abrasive applications such as mixed dirt, clay and rock. HD buckets have best loading and dumping characteristics and will empty easier in cohesive material. More robust construction than the GP buckets.

Heavy-Duty Power (HDP) Buckets. For use in moderately abrasive applications where breakout force and cycle times are critical. Maximizes tip force and improves cycle times in most materials. Not for use in sticky material conditions. Cutting edge and GET are upsized.

Heavy Duty Rock Buckets. Heavy duty rock for aggressive bucket loading in highly abrasive application such as shot rock and granite. Features include:

- Thickest wear plates to extend the life of bucket in severe applications.
- Side wear plated extend further up the side of the bucket for maximum protection in rocky soils.
- Buckets accept sidebar protectors for best sidebar protection, or sidecutters for best fill characteristics and bucket wear protection.

Rock Ripping Buckets. Ruggedly constructed narrow bucket for ripping where material penetration and the inability to blast is the primary problem. The aggressive lip-type ripping design uses five sharp or twin sharp teeth in a staggered position. The staggered design allows one or two tips to penetrate first for higher breakout forces.

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 Series™ 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 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.
- Foot Switch – The electric on/off switch pedal is used in conjunction with either the hydraulic controller or attachment controller. The foot switch is located on cab floor.
- Tool controller joystick – Two types of the tool controller joysticks are available. The joystick with modulation switch has two on/off switches, one trigger switch and one modulation switch. The joystick without the modulation switch has three on/off switches and one trigger switch.

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 with ACERT™ Technology	
Net Flywheel Power	257 kW	345 hp
Net Power – ISO 9249	257 kW	345 hp
Net Power – SAE J1349	257 kW	345 hp
Net Power – EEC 80/1269	260 kW	345 hp
Bore	130 mm	5.1 in
Stroke	157 mm	6.2 in
Displacement	12.5 L	763 in ³

- The 345C L meets U.S. EPA Tier 3 and EU Stage IIIA 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
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- Reach boom, R3.9 (12'10") stick, 1219 mm (48") GP-C bucket and 750 mm (30") shoes.

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

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

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	38 000 kPa	5,511 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

Sound Performance

Performance	ANSI/SAE J1166 MAY90 Meets OSHA and MSHA Requirements
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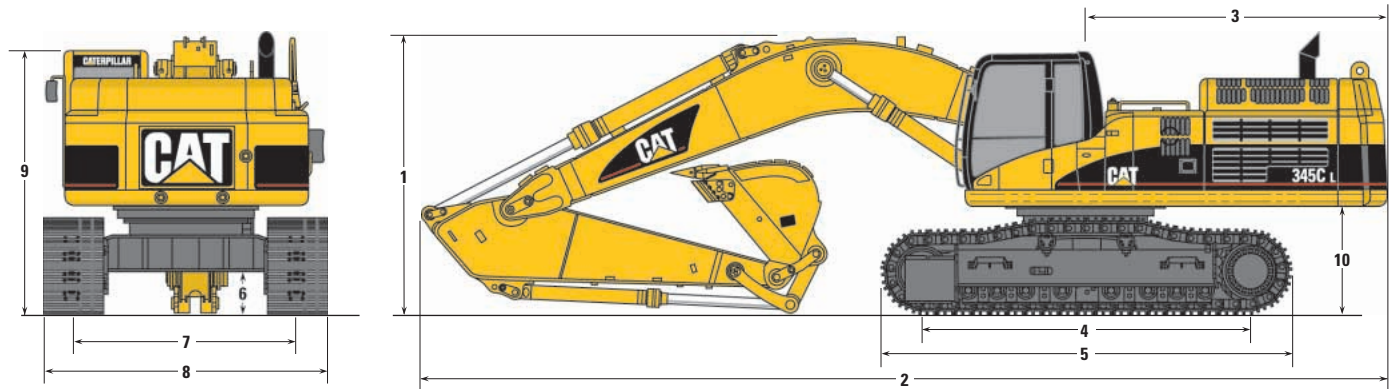
- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT 98, meets OSHA and MSHA requirements for operator sound exposure limits in effects at time of manufacture.
- Hearing protection may be needed when operating 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

Dimensions

All dimensions are approximate.

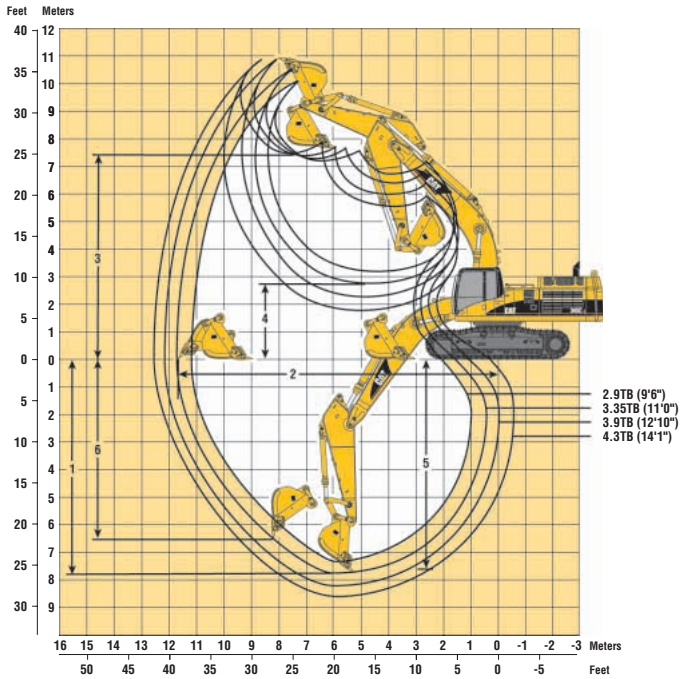


Boom	Long Reach Boom 7.4 m (24'3")			Reach Boom 6.9 m (22'8")			Mass Boom 6.55 m (21'6")	
Stick	R4.3TB (14'1")	R3.9TB (12'10")	R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	M3.0UB (9'10")	M2.5UB (8'2")
1 Shipping Height								
Fixed Gauge Undercarriage	3590 mm (11'9")	3510 mm (11'6")	3770 mm (12'4")	3630 mm (11'11")	3320 mm (10'11")	3520 mm (11'7")	3970 mm (13'0")	3940 mm (12'11")
Variable Gauge Undercarriage	3600 mm (11'10")	3520 mm (11'7")	3760 mm (12'4")	3730 mm (12'3")	3340 mm (11'0")	3580 mm (11'9")	3990 mm (13'1")	3980 mm (13'1")
2 Shipping Length								
Fixed Gauge Undercarriage	12 390 mm (40'8")	12 410 mm (40'9")	11 910 mm (39'1")	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")	11 920 mm (39'1")	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")	3770 mm (12'4")
Undercarriage				Fixed Gauge		Variable Gauge	Wide Variable Gauge	
4 Length to Center of Rollers				4360 mm (14'4")		4340 mm (14'3")	4340 mm (14'3")	
5 Track Length				5360 mm (17'7")		5340 mm (17'6")	5340 mm (17'6")	
6 Ground Clearance				510 mm (1'8")		740 mm (2'5")	740 mm (2'5")	
7 Track Gauge								
Retracted (Transport) Position				2740 mm (9'0")		2640 mm (8'8")	2760 mm (9'1")	
Extended (Working) Position				2740 mm (9'0")		2890 mm (9'6")	3240 mm (10'8")	
8 Track Width*								
Retracted (Transport) Position				3640 mm (11'11")		3540 mm (11'7")	3660 mm (12'0")	
Extended (Working) Position				3640 mm (11'11")		3790 mm (12'5")	4140 mm (13'7")	
9 Cab Height				3210 mm (10'6")		3360 mm (11'0")	3360 mm (11'0")	
10 Counterweight Height (to bottom)				1320 mm (4'4")		1470 mm (4'10")	1470 mm (4'10")	

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

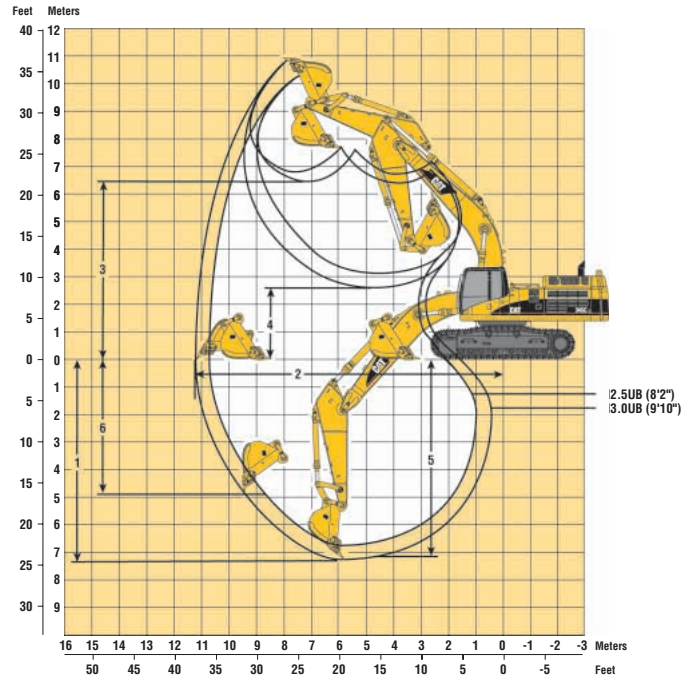
Reach Working Ranges

Reach (R) boom configuration



Mass Working Ranges

Mass (M) boom configuration



345C L Working Ranges – Long Fixed Gauge Undercarriage

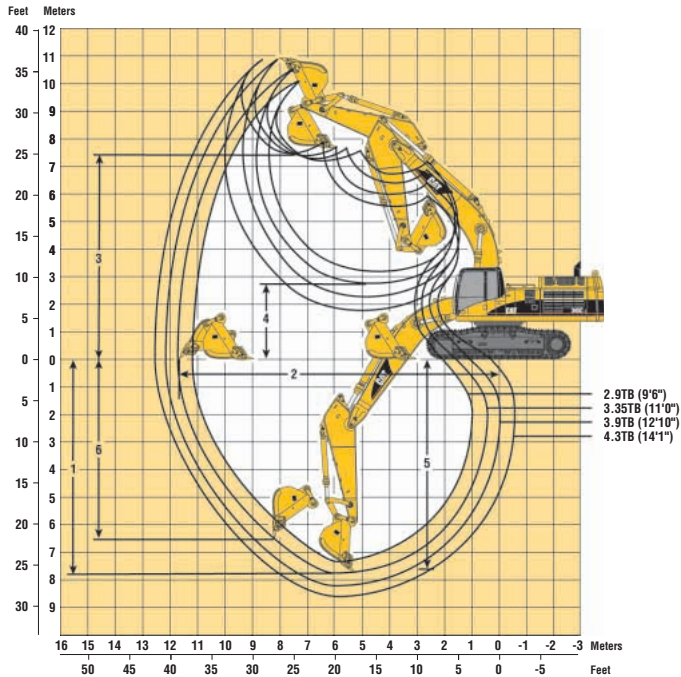
Stick	Long Reach Boom			Reach Boom			Mass Excavation Boom	
	R4.3TB (14'1")	R3.9TB (12'10")	R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	M3.0UB (9'10")	M2.5UB (8'2")
Bucket	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	HD 2.8 m ³ (3.70 yd ³)	HD 2.8 m ³ (3.70 yd ³)
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

Stick	Reach Boom	
	R3.35TB (11'0")	R2.9TB (9'6")
Bucket with TB-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")

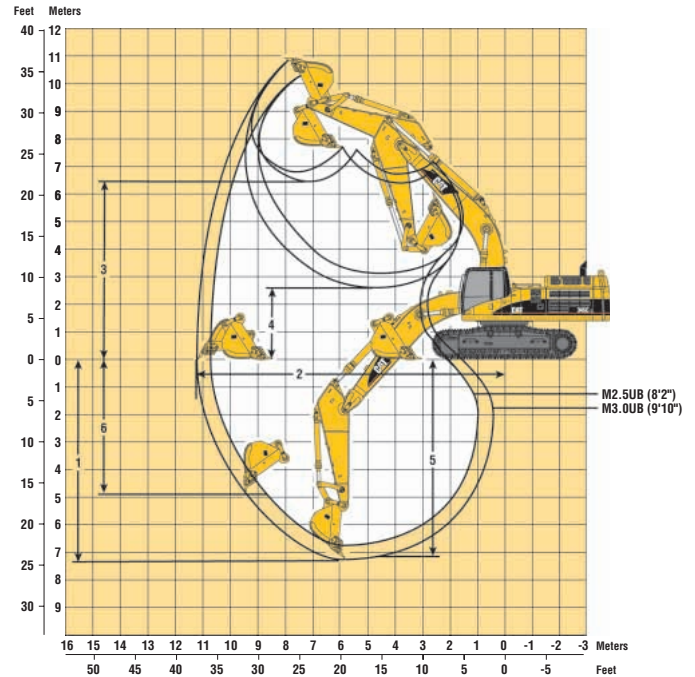
Reach Working Ranges

Reach (R) boom configuration



Mass Working Ranges

Mass (M) boom configuration



345C L Working Ranges – Long Variable Gauge Undercarriage

Stick	Long Reach Boom		Reach Boom				Mass Excavation Boom	
	R4.3TB (14'1")	R3.9TB (12'10")	R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	M3.0UB (9'10")	M2.5UB (8'2")
Bucket	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)	HD 2.8 m ³ (3.70 yd ³)	HD 2.8 m ³ (3.70 yd ³)
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

Stick	Reach Boom	
	R3.35TB (11'0")	R2.9TB (9'6")
Bucket with TB-Family Coupler	GP-C 1.9 m ³ (2.46 yd ³)	GP-C 1.9 m ³ (2.46 yd ³)
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		kg	lb
Complete machine equipped with:			Differences for other buckets:		
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	See bucket specification chart		
Differences for other booms:			Differences for other undercarriages:		
7.4 m (24'3") long reach boom	+180	+400	Long variable gauge undercarriage	+2195	+4,840
6.9 m (22'8") heavy duty reach boom	+515	+1,130	Long wide variable gauge undercarriage	+2975	+6,550
6.55 m (21'6") mass excavation boom	+520	+1,150	Differences for other track shoes:		
Differences for other sticks:			600 mm (24") double grouser (DG)	-645	-1,420
R4.3m (14'1") stick with TB bucket linkage and bucket cylinder	+110	+245	750 mm (30") single grouser (SG)	-110	-250
R3.35m (11'0") stick with TB bucket linkage and bucket cylinder	-110	-245	750 mm (30") double grouser (DG)	+140	+305
R2.9m (9'6") stick with TB bucket linkage and bucket cylinder	-105	-230	900 mm (36") double grouser (DG)	+920	+2,030
M3.0m (9'10") stick with UB bucket linkage and bucket cylinder	+320	+705	900 mm (36") triple grouser (TG)	+750	+1,660
M2.5m (8'2") stick with UB bucket linkage and bucket cylinder	+140	+310	1000 mm (40") triple grouser (TG)	+1360	+3,000
			Differences for other counterweights:		
			8.1 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.

345C L Bucket and Stick Forces

Stick Forces									
TB-Family Buckets	Sticks								
	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				
UB-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	TB-Family Buckets		UB-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		

345C L Bucket Specifications and Compatibility

Fixed Gauge Undercarriage

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth Qty	Reach Boom Stick				Long Reach Boom Stick	
	m ³	yd ³	mm	in	mm	in	kg	lb		R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	R4.3TB (14'1")	R3.9TB (12'10")
TB Buckets															
General Purpose – Capacity (GP-C)	1.0	1.36	762	30	1869	73.6	1342	2,960	3	●	●	●	●	●	●
	1.3	1.73	914	36	1869	73.6	1498	3,300	4	●	●	●	●	●	●
	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	○	●	●	●	○	○
	2.2	2.85	1372	54	1869	73.6	1886	4,150	5	○	○	○	●	○	○
	2.5	3.23	1524	60	1869	73.6	2032	4,480	6	○	○	○	○	○	○
	2.8	3.62	1676	66	1869	73.6	2179	4,800	7	○	○	○	○	○	○
	3.1	4.00	1829	72	1869	73.6	2306	5,080	7	○	○	○	○	○	○
Heavy Duty (HD)	1.1	1.49	914	36	1869	73.6	1532	3,370	4	●	●	●	●	●	●
	1.4	1.82	1067	42	1869	73.6	1652	3,640	4	●	●	●	●	●	●
	1.6	2.14	1219	48	1869	73.6	1792	3,950	5	●	●	●	●	○	●
	1.9	2.47	1372	54	1869	73.6	1917	4,220	5	○	●	●	●	○	○
	2.2	2.81	1524	60	1869	73.6	2064	4,550	6	○	○	○	●	○	○
	2.4	3.15	1676	66	1869	73.6	2211	4,870	7	○	○	○	○	○	○
	2.7	3.48	1829	72	1869	73.6	2335	5,140	7	○	○	○	○	○	○
Heavy Duty Rock (HDR)	0.9	1.18	762	30	1869	73.6	1471	3,240	3	●	●	●	●	●	●
	1.1	1.49	914	36	1869	73.6	1636	3,600	4	●	●	●	●	●	●
	1.4	1.82	1067	42	1869	73.6	1769	3,900	4	●	●	●	●	●	●
	1.6	2.15	1219	48	1869	73.6	1920	4,230	5	●	●	●	●	○	○
	1.9	2.48	1372	54	1869	73.6	2057	4,530	5	○	○	●	●	○	○
	2.2	2.81	1524	60	1869	73.6	2224	4,900	6	○	○	○	●	○	○
	2.4	3.15	1676	66	1869	73.6	2375	5,230	7	○	○	○	○	○	○
	2.7	3.48	1829	72	1869	73.6	2512	5,530	7	○	○	○	○	○	○
Heavy Duty-Power (HD-P)	1.5	1.96	1219	48	1725	67.9	1758	3,870	4	●	●	●	●	○	●
	1.7	2.22	1372	54	1725	67.9	1907	4,200	4	●	●	●	●	○	○
	1.9	2.49	1524	60	1725	67.9	2071	4,560	5	○	○	●	●	○	○

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth Qty	Mass Boom Stick	
	m ³	yd ³	mm	in	mm	in	kg	lb		M3.0UB (9'10")	M2.5UB (8'2")
UB Buckets											
General Purpose (GP)	1.6	2.09	1016	40	2140	84.3	1812	3,990	3	●	●
	2.8	3.61	1524	60	2140	84.3	2375	5,230	5	○	○
	3.8	5.00	1905	75	2183	85.9	2789	6,140	6	○	○
Heavy Duty (HD)	1.9	2.42	1219.2	48	2050	80.7	2068	4,560	4	●	●
	2.8	3.68	1676.4	66	2050	80.7	2587	5,700	5	○	○
	3.3	4.30	1905	75	2050	80.7	2804	6,180	6	○	○
Heavy Duty Rock (HDR)	1.4	1.83	1016	40	2050	80.7	1924	4,240	3	●	●
	2.5	3.20	1524	60	2050	80.7	2538	5,590	5	○	○
	3.3	4.30	1905	75	2050	80.7	2973	6,550	6	○	○

Assumptions for maximum material density rating

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Capacities based on SAE J296. Some calculations of capacity fall on borderlines. Rounding may allow two buckets to have the same English rating but different metric ratings.

- 2100 kg/m³ (3,500 lb/yd³) max material density
- 1800 kg/m³ (3,000 lb/yd³) max material density
- 1500 kg/m³ (2,500 lb/yd³) max material density
- 1200 kg/m³ (2,000 lb/yd³) max material density
- 900 kg/m³ (1,500 lb/yd³) max material density

345C L Bucket Specifications and Compatibility

Variable Gauge Undercarriage

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth Qty	Reach Boom Stick				Long Reach Boom Stick	
	m ³	yd ³	mm	in	mm	in	kg	lb		R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	R4.3TB (14'1")	R3.9TB (12'10")
TB Buckets															
General Purpose – Capacity (GP-C)	1.0	1.36	762	30	1869	73.6	1342	2,960	3	●	●	●	●	●	●
	1.3	1.73	914	36	1869	73.6	1498	3,300	4	●	●	●	●	●	●
	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	●	●	●	●	●	●
	2.2	2.85	1372	54	1869	73.6	1886	4,150	5	●	●	●	●	○	●
	2.5	3.23	1524	60	1869	73.6	2032	4,480	6	○	●	●	●	○	○
	2.8	3.62	1676	66	1869	73.6	2179	4,800	7	○	○	●	●	○	○
	3.1	4.00	1829	72	1869	73.6	2306	5,080	7	○	○	○	○	○	○
Heavy Duty (HD)	1.1	1.49	914	36	1869	73.6	1532	3,370	4	●	●	●	●	●	●
	1.4	1.82	1067	42	1869	73.6	1652	3,640	4	●	●	●	●	●	●
	1.6	2.14	1219	48	1869	73.6	1792	3,950	5	●	●	●	●	●	●
	1.9	2.47	1372	54	1869	73.6	1917	4,220	5	●	●	●	●	●	●
	2.2	2.81	1524	60	1869	73.6	2064	4,550	6	●	●	●	●	○	○
	2.4	3.15	1676	66	1869	73.6	2211	4,870	7	○	○	●	●	○	○
	2.7	3.48	1829	72	1869	73.6	2335	5,140	7	○	○	○	○	○	○
Heavy Duty Rock (HDR)	0.9	1.18	762	30	1869	73.6	1471	3,240	3	●	●	●	●	●	●
	1.1	1.49	914	36	1869	73.6	1636	3,600	4	●	●	●	●	●	●
	1.4	1.82	1067	42	1869	73.6	1769	3,900	4	●	●	●	●	●	●
	1.6	2.15	1219	48	1869	73.6	1920	4,230	5	●	●	●	●	●	●
	1.9	2.48	1372	54	1869	73.6	2057	4,530	5	●	●	●	●	●	●
	2.2	2.81	1524	60	1869	73.6	2224	4,900	6	●	●	●	●	○	○
	2.4	3.15	1676	66	1869	73.6	2375	5,230	7	○	○	○	○	○	○
	2.7	3.48	1829	72	1869	73.6	2512	5,530	7	○	○	○	○	○	○
Heavy Duty-Power (HD-P)	1.5	1.96	1219	48	1725	67.9	1758	3,870	4	●	●	●	●	●	●
	1.7	2.22	1372	54	1725	67.9	1907	4,200	4	●	●	●	●	●	●
	1.9	2.49	1524	60	1725	67.9	2071	4,560	5	●	●	●	●	●	●
UB Buckets															
General Purpose (GP)	1.6	2.09	1016	40	2140	84.3	1812	3,990	3	●	●				
	2.8	3.61	1524	60	2140	84.3	2375	5,230	5	●	●				
	3.8	5.00	1905	75	2183	85.9	2789	6,140	6	●	●				
Heavy Duty (HD)	1.9	2.42	1219.2	48	2050	80.7	2068	4,560	4	●	●				
	2.8	3.68	1676.4	66	2050	80.7	2587	5,700	5	●	●				
	3.3	4.30	1905	75	2050	80.7	2804	6,180	6	●	○				
Heavy Duty Rock (HDR)	1.4	1.83	1016	40	2050	80.7	1924	4,240	3	●	●				
	2.5	3.20	1524	60	2050	80.7	2538	5,590	5	●	●				
	3.3	4.30	1905	75	2050	80.7	2973	6,550	6	●	○				

Assumptions for maximum material density rating

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Capacities based on SAE J296. Some calculations of capacity fall on borderlines. Rounding may allow two buckets to have the same English rating but different metric ratings.

- 2100 kg/m³ (3,500 lb/yd³) max material density
- 1800 kg/m³ (3,000 lb/yd³) max material density
- 1500 kg/m³ (2,500 lb/yd³) max material density
- 1200 kg/m³ (2,000 lb/yd³) max material density
- 900 kg/m³ (1,500 lb/yd³) max material density

345C L Bucket Specifications and Compatibility

Wide Variable Gauge Undercarriage

	Capacity*		Width		Tip Radius		Weight w/o tips		Teeth Qty	Reach Boom Stick				Long Reach Boom Stick		
	m ³	yd ³	mm	in	mm	in	kg	lb		R4.3TB (14'1")	R3.9TB (12'10")	R3.35TB (11'0")	R2.9TB (9'6")	R4.3TB (14'1")	R3.9TB (12'10")	
TB Buckets																
General Purpose – Capacity (GP-C)	1.0	1.36	762	30	1869	73.6	1342	2,960	3	●	●	●	●	●	●	
	1.3	1.73	914	36	1869	73.6	1498	3,300	4	●	●	●	●	●	●	
	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	●	●	●	●	●	●	
	2.2	2.85	1372	54	1869	73.6	1886	4,150	5	●	●	●	●	●	●	
	2.5	3.23	1524	60	1869	73.6	2032	4,480	6	●	●	●	●	○	○	
	2.8	3.62	1676	66	1869	73.6	2179	4,800	7	○	○	●	●	○	○	
	3.1	4.00	1829	72	1869	73.6	2306	5,080	7	○	○	○	●	○	○	
Heavy Duty (HD)	1.1	1.49	914	36	1869	73.6	1532	3,370	4	●	●	●	●	●	●	
	1.4	1.82	1067	42	1869	73.6	1652	3,640	4	●	●	●	●	●	●	
	1.6	2.14	1219	48	1869	73.6	1792	3,950	5	●	●	●	●	●	●	
	1.9	2.47	1372	54	1869	73.6	1917	4,220	5	●	●	●	●	●	●	
	2.2	2.81	1524	60	1869	73.6	2064	4,550	6	●	●	●	●	●	●	
	2.4	3.15	1676	66	1869	73.6	2211	4,870	7	●	●	●	●	○	○	
	2.7	3.48	1829	72	1869	73.6	2335	5,140	7	○	●	●	●	○	○	
Heavy Duty Rock (HDR)	0.9	1.18	762	30	1869	73.6	1471	3,240	3	●	●	●	●	●	●	
	1.1	1.49	914	36	1869	73.6	1636	3,600	4	●	●	●	●	●	●	
	1.4	1.82	1067	42	1869	73.6	1769	3,900	4	●	●	●	●	●	●	
	1.6	2.15	1219	48	1869	73.6	1920	4,230	5	●	●	●	●	●	●	
	1.9	2.48	1372	54	1869	73.6	2057	4,530	5	●	●	●	●	●	●	
	2.2	2.81	1524	60	1869	73.6	2224	4,900	6	●	●	●	●	○	●	
	2.4	3.15	1676	66	1869	73.6	2375	5,230	7	○	●	●	●	○	○	
	2.7	3.48	1829	72	1869	73.6	2512	5,530	7	○	○	●	●	○	○	
Heavy Duty-Power (HD-P)	1.5	1.96	1219	48	1725	67.9	1758	3,870	4	●	●	●	●	●	●	
	1.7	2.22	1372	54	1725	67.9	1907	4,200	4	●	●	●	●	●	●	
	1.9	2.49	1524	60	1725	67.9	2071	4,560	5	●	●	●	●	●	●	
UB Buckets																
										Mass Boom Stick						
											M3.0UB (9'10")	M2.5UB (8'2")				
General Purpose (GP)	1.6	2.09	1016	40	2140	84.3	1812	3,990	3	●	●					
	2.8	3.61	1524	60	2140	84.3	2375	5,230	5	●	●					
	3.8	5.00	1905	75	2183	85.9	2789	6,140	6	○	○					
Heavy Duty (HD)	1.9	2.42	1219.2	48	2050	80.7	2068	4,560	4	●	●					
	2.8	3.68	1676.4	66	2050	80.7	2587	5,700	5	●	●					
	3.3	4.30	1905	75	2050	80.7	2804	6,180	6	○	●					
Heavy Duty Rock (HDR)	1.4	1.83	1016	40	2050	80.7	1924	4,240	3	●	●					
	2.5	3.20	1524	60	2050	80.7	2538	5,590	5	●	●					
	3.3	4.30	1905	75	2050	80.7	2973	6,550	6	○	●					

Assumptions for maximum material density rating

1. Front linkage fully extended at ground line
2. Bucket curled
3. 100% bucket fill factor

* Capacities based on SAE J296. Some calculations of capacity fall on borderlines. Rounding may allow two buckets to have the same English rating but different metric ratings.

- 2100 kg/m³ (3,500 lb/yd³) max material density
- 1800 kg/m³ (3,000 lb/yd³) max material density
- 1500 kg/m³ (2,500 lb/yd³) max material density
- 1200 kg/m³ (2,000 lb/yd³) max material density
- 900 kg/m³ (1,500 lb/yd³) max material density

Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach – Bucket Curled



Load at Maximum Reach

BOOM – 7.40 m (24'3")
STICK – 4.30 m (14'1")

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

		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			m ft	
10.5 m 35.0 ft	kg lb															*4170	*4170	9.77
9.0 m 30.0 ft	kg lb							*6580 *12,950	*6580 *12,950			*5220 *11,550	*5220 *11,550	9.43 30.57	*3940 *8700	*3940 *8700	10.98 35.70	
7.5 m 25.0 ft	kg lb							*7060 *15,450	6620 14,100			*5080 *11,200	4750 10,600	10.37 33.81	*3870 *8550	3700 8300	11.82 38.58	
6.0 m 20.0 ft	kg lb							*7470 *16,300	6440 13,750	*7060 *14,300	4570 9,700	*5100 *11,250	4020 8,950	11.03 36.06	*3910 *8600	3190 7,100	12.37 40.50	
4.5 m 15.0 ft	kg lb					*9230 *20,000	8690 18,650	*8120 *17,650	6150 13,150	*7380 *16,100	4430 9,400	*5270 *11,600	3570 7,900	11.45 37.51	*4050 *8900	2870 6,350	12.69 41.60	
3.0 m 10.0 ft	kg lb	*18 480 *39,650	*18 480 *39,650	*13 220 *28,500	11 740 25,300	*10 510 *22,750	8080 17,350	*8880 *19,250	5800 12,450	7690 16,450	4230 9,000	*5580 *12,250	3300 7,300	11.66 38.24	*4290 *9450	2710 5,950	12.80 41.98	
1.5 m 5.0 ft	kg lb	*21 970 *47,350	16 590 35,750	*15 210 *32,850	10 700 23,050	*11 710 *25,300	7490 16,100	*9610 *20,800	5450 11,700	7470 16,000	4030 8,600	*6060 *13,350	3170 7,000	11.67 38.30	*4660 *10,250	2670 5,900	12.69 41.65	
Ground Line	kg lb	*18 630 *43,150	15 500 33,350	*16 520 *35,700	9970 21,450	*12 600 *27,250	7020 15,100	9470 20,350	5160 11,050	7280 15,600	3850 8,250	6210 13,700	7190 7,950	11.49 37.69	*5180 *11,450	2760 6,100	12.38 40.61	
-1.5 m -5.0 ft	kg lb	*20 530 *45,700	15 100 32,400	*17 000 *36,800	9550 20,550	12 460 26,750	6720 14,400	9250 19,850	4950 10,600	7160 15,350	3740 8,000	6520 14,400	3360 7,450	11.10 36.38	5910 13,050	3010 6,650	11.83 38.79	
-3.0 m -10.0 ft	kg lb	*20 880 *46,500	15 080 32,350	*16 660 *36,050	9420 20,250	12 310 26,450	6580 14,150	9150 19,650	4870 10,450			7180 15,900	3750 8,300	10.47 34.28	6700 14,850	3510 7,800	11.03 36.07	
-4.5 m -15.0 ft	kg lb	*20 480 *44,250	15 330 32,900	*15 450 *33,300	9500 20,400	*11 970 *25,700	6620 14,250	9220 *19,750	4930 10,600			*8260 *18,250	4460 9,950	9.57 31.24				
-6.0 m -20.0 ft	kg lb	*17 090 *36,600	15 830 34,050	*13 060 *27,850	9800 21,100	*9910 *20,900	6860 14,800					*8270 *18,200	5870 13,250	8.3 26.93				

* 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.

BOOM – 7.40 m (24'3")
STICK – 3.90 m (12'10")

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

		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			m ft
9.0 m 30.0 ft	kg lb											*6030 *13,350	*6030 *13,350	8.97 29.06	*4500 *9950	*4500 *9950	10.54 34.25
7.5 m 25.0 ft	kg lb							*7530 *16,550	6530 13,900			*5860 *12,950	5170 11,600	9.96 32.46	*4420 *9750	4010 8950	11.42 37.27
6.0 m 20.0 ft	kg lb							*7900 *17,250	6380 13,650	*6670 *14,300	4510 9,700	*5880 *12,950	4360 9,700	10.64 34.80	*4460 *9800	3450 7,650	11.99 39.26
4.5 m 15.0 ft	kg lb					*9740 *21,100	8580 18,450	*8510 *18,500	6100 13,050	*7720 *16,800	4400 9,350	*6080 *13,350	3860 8,550	11.08 36.30	*4620 *10,150	3110 6,900	12.33 40.40
3.0 m 10.0 ft	kg lb	*19 680 *42,200	18 060 39,000	*13 890 *29,950	11 520 24,850	*10 970 *23,700	7990 17,200	*9230 *20,000	5770 12,350	7680 16,450	4220 9,000	*6440 *14,150	3570 7,900	11.30 37.05	*4890 *10,750	2930 6,450	12.43 40.79
1.5 m 5.0 ft	kg lb	*19 060 *45,450	16 210 34,950	*15 730 *33,950	10 550 22,750	*12 080 *26,150	7430 16,000	9780 21,000	5440 11,650	7480 16,050	4040 8,600	6530 14,400	3440 7,600	11.31 37.11	*5290 *11,650	2890 6,350	12.33 40.45
Ground Line	kg lb	*17 530 *40,600	15 360 33,000	*16 820 *36,400	9890 21,300	12 770 27,450	7000 15,050	9480 20,350	5170 11,100	7310 15,700	3890 8,300	6620 14,600	3470 7,650	11.12 36.48	5840 12,850	3000 6,600	12.00 39.37
-1.5 m -5.0 ft	kg lb	*20 900 *47,900	15 110 32,450	*17 080 *36,950	9560 20,550	12 480 26,800	6740 14,500	9290 19,950	5000 10,700	7220 15,500	3810 8,150	6990 15,450	3670 8,100	10.71 35.13	6330 13,950	3290 7,300	11.44 37.49
-3.0 m -10.0 ft	kg lb	*22 050 *47,750	15 190 32,600	*16 500 *35,700	9490 20,400	12 380 26,600	6650 14,300	9240 19,850	4950 10,650			7740 17,150	4110 9,100	10.07 32.95	*7240 *15,950	3860 8,550	10.59 34.65
-4.5 m -15.0 ft	kg lb	*19 660 *42,450	15 510 33,350	*15 020 *32,350	9630 20,700	*11 660 *25,000	6740 14,500	*8860 *19,750	5060 10,600			*8610 *19,000	4960 11,050	9.13 29.77			
-6.0 m -20.0 ft	kg lb	*15 850 *33,850	*15 850 *33,850	*12 230 *25,950	9990 21,550	*9090 *18,900	7060 15,250					*8460 *18,600	6680 15,100	7.78 25.19			

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Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach – Bucket Curled



Load at Maximum Reach

BOOM – 6.90 m (22'8")
STICK – 3.35 m (11')

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8.1 mt (17,840 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															
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	kg	lb	m	ft						
9.0 m 30.0 ft															*6380 *14,200	*6380 *14,200	7.85 25.32	*4550 *10,100	*4550 *10,100	9.44 30.59				
7.5 m 25.0 ft															*6030 *13,350	*6030 *13,350	8.96 29.16	*4370 *9650	*4370 *9650	10.44 34.02				
6.0 m 20.0 ft															*9530 *20,750	9070 19,450	*8860 *19,400	6350 13,550	*5970 *13,150	5350 11,900	9.72 31.75	*4360 *9600	4220 9,400	11.08 36.24
4.5 m 15.0 ft					*12 520 *27,050	*12 520 *27,050	*10 540 *22,850	8660 18,600	*9340 *20,350	6170 13,200	*6100 *13,450	4720 10,450	10.19 33.39	*4460 *9850	3810 8,450	11.44 37.50								
3.0 m 10.0 ft			*20 570 *44,150	18 450 39,800	*14 670 *31,650	11 760 25,350	*11 710 *25,350	8170 17,550	*9970 *21,650	5910 12,650	*6430 *14,150	4380 9,700	10.43 34.21	*4700 *10,350	3610 7,950	11.56 37.92								
1.5 m 5.0 ft			*23 540 *50,900	16 820 36,250	*16 480 *35,600	10 920 23,500	*12 780 *27,650	7700 16,550	9990 21,450	5650 12,100	*6980 *15,350	4250 9,400	10.45 34.28	*5070 *11,150	3600 7,950	11.44 37.56								
Ground Line			*21 980 *51,050	16 090 34,600	*17 500 *37,850	10 360 22,300	13 130 28,200	7340 15,800	9760 20,950	5440 11,700	*7830 *17,250	4330 9,550	10.24 33.60	*5640 *12,450	3770 8,300	11.09 36.38								
1.5 m -5.0 ft	kg lb	*13 850 *31,300	*13 850 *31,300	*23 000 *51,300	15 920 34,200	*17 590 *38,050	10 100 21,700	12 910 27,750	7150 15,350	9640 20,750	5340 11,450	8430 18,600	4640 10,250	9.80 32.11	*6500 *14,350	4210 9,300	10.47 34.29							
-3.0 m -10.0 ft	kg lb	*21 050 *46,700	*21 050 *46,700	*22 180 *48,000	16 070 34,500	*16 690 *36,050	10 090 21,700	12 890 27,700	7130 15,350	9690 20,950	5380	9560 21,200	5310 11,750	9.08 29.71	*7900 *17,450	5060 11,250	9.52 31.10							
-4.5 m -15.0 ft	kg lb	*22 160 *49,250	*22 160 *49,250	*19 050 *41,000	16 470 35,400	*14 540 *31,200	10 310 22,200	*10 910 *23,100	7320 15,800			*9590 *21,100	6640 14,850	8.03 26.13										
-6.0 m -20.0 ft	kg lb			*13 710 *28,850	*13 710 *28,850	*10 060 *20,650	*10 060 *20,650																	

* 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.

BOOM – 6.90 m (22'8")
STICK – 3.90 m (12'10")

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

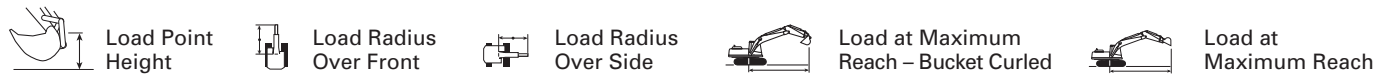
UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

	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												
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	kg	lb	m	ft			
9.0 m 30.0 ft															*5830 *12,950	*5830 *12,950	8.41 27.20	*4300 *9550	*4300 *9550	9.99 32.41	
7.5 m 25.0 ft															*5570 *12,300	*5570 *12,300	9.46 30.81	*4170 *9200	*4170 *9200	10.92 35.63	
6.0 m 20.0 ft															*5540 *12,200	4920 10,950	10.18 33.27	*4170 *9200	3900 8,650	11.53 37.73	
4.5 m 15.0 ft					*9830 *21,300	8810 18,900	*8790 *19,150	6260 13,400	*6570 4490			*5680 *12,500	4360 9,650	10.63 34.83	*4300 *9450	3520 7,800	11.88 38.93				
3.0 m 10.0 ft	kg lb	*18 900 *40,600	*18 900 *40,600	*13 740 *29,650	12 020 25,900	*11 090 *24,000	8290 17,800	*9500 *20,600	5970 12,800	7820 *16,250	4360 9,300	*6000 *13,200	4040 8,900	10.86 35.62	*4540 *10,000	3330 7,350	11.99 39.34				
1.5 m 5.0 ft	kg lb	*22 540 *48,600	17 270 37,200	*15 780 *34,100	11 100 23,900	*12 280 *26,600	7770 16,700	10 020 21,500	5670 12,150	7650 16,400	4210 9,000	*6520 *14,350	3910 8,650	10.87 35.68	*4920 *10,850	3300 7,300	11.88 38.99				
Ground Line	kg lb	*24 240 *52,450	16 250 34,950	*17 120 *37,050	10 430 22,450	*13 150 *28,250	7360 15,800	9750 20,950	5430 11,650	7520 16,150	4090 8,750	*7310 *16,100	3960 8,750	10.68 35.03	*5490 *12,100	3440 7,600	11.54 37.86				
-1.5 m -5.0 ft	kg lb	*24 150 *52,600	15 870 34,100	*17 560 *38,000	10 070 21,650	12 870 27,650	7100 15,250	9580 20,600	5270 11,300			7760 17,100	4210 9,300	10.25 33.61	*6350 *14,050	3800 8,400	10.95 35.88				
-3.0 m -10.0 ft	kg lb	*23 030 *49,850	15 880 34,100	*17 050 *36,850	9970 21,450	12 770 27,450	7020 15,100	9550 20,550	5240 11,250			8670 19,200	4750 10,550	9.57 31.32	*7710 *17,150	4490 9,950	10.05 32.87				
-4.5 m -15.0 ft	kg lb	*20 460 *44,100	16 170 34,750	*15 410 *33,150	10 100 21,750	*11 770 *25,150	7120 15,350					*9400 *20,750	5800 12,950	8.58 27.95							
6.0 m -20.0 ft	kg lb	*16 040 *34,050	*16 040 *34,050	*12 020 *25,300	10 500 22,650																

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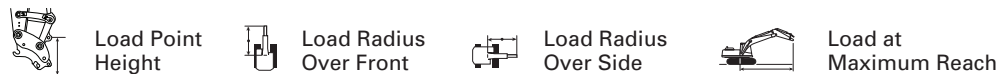
Reach Boom Lift Capacities



BOOM – 6.90 m (22'8") **BUCKET** – 1219 mm (48") GP-C with HD long tips **UNDERCARRIAGE** – Long – fixed gauge
STICK – 4.30 m (14'1") **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 lb)

	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			m ft		
19.0 m 30.0 ft	kg lb												*5020 *11,150	*5020 *11,150	8.89 28.77	*3750 *8300	*3750 *8300	10.44 33.92
7.5 m 25.0 ft	kg lb						*7430 *15,650	6650 14,150					*4810 *10,600	*4810 *10,600	9.88 32.20	*3630 *8000	*3630 *8000	11.33 36.98
6.0 m 20.0 ft	kg lb						*7740 *16,950	6540 13,950	*5150	4610			*4780 *10,550	4530 10,100	10.57 34.56	*3640 *8000	3610 *8000	11.91 38.99
4.5 m 15.0 ft	kg lb					*9270 *20,100	8910 19,150	*8350 *18,200	6310 13,500	*7350 *14,550	4530 9,600		*4910 *10,800	4030 8,950	11.01 36.06	*3760 *8250	3270 7,250	12.25 40.15
3.0 m 10.0 ft	kg lb	*17 610 *37,850	*17 610 *37,850	*13 010 *28,100	12 220 26,300	*10 590 *22,950	8370 18,000	*9110 *19,800	6000 12,850	7830 16,750	4370 9,300		*5180 *11,400	3740 8,250	11.23 36.82	*3970 *8750	3090 6,800	12.36 40.54
1.5 m 5.0 ft	kg lb	*21 630 *46,600	17 640 38,000	*15 200 *32,850	11 250 24,200	*11 870 *25,700	7830 16,850	*9870 *21,400	5690 12,200	7650 16,400	4200 8,950		*5620 *12,350	3620 8,000	11.24 36.89	*4310 *9500	3050 6,750	12.25 40.20
Ground Line	kg lb	*23 370 *51,550	16 410 35,300	*16 760 *36,250	10 510 22,600	*12 870 *27,850	7380 15,850	9740 20,900	5410 11,600	7480 16,050	4050 8,650		*6280 *13,850	3650 8,050	11.05 36.25	*4820 *10,600	3170 7,000	11.92 39.11
-1.5 m -5.0 ft	kg lb	*22 130 *49,400	15 880 34,100	*17 440 *37,750	10 070 21,650	12 850 27,600	7080 15,200	9540 20,500	5220 11,200	7390 16,200	3960		7230 15,950	3870 8,550	10.64 34.89	*5570 *12,300	3480 7,700	11.35 37.21
-3.0 m -10.0 ft	kg lb	*22 400 *50,000	15 790 33,900	*17 200 *37,200	9900 21,300	12 700 27,300	6940 14,900	9460 20,350	5150 11,050				8010 17,750	4330 9,600	9.99 32.69	*6740 *14,950	4070 9,050	10.50 34.34
-4.5 m -15.0 ft	kg lb	*21 310 *45,950	16 000 34,350	*15 900 *34,250	9970 21,450	*12 180 *26,100	6990 15,050	*9110	5250				*9020 *19,900	5220 11,650	9.04 29.48			
-6.0 m -20.0 ft	kg lb	*17 450 *37,250	16 500 35,500	*13 080 *27,750	10 290 22,200	*9460	7280						*9000 *19,800	7030 15,900	7.68 24.86			

* 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.



BOOM – 6.90 m (22'8") **BUCKET** – Bare pin grabber coupler – no bucket **UNDERCARRIAGE** – Long – fixed gauge
STICK – 3.35 m (11') **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 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												*6920 *15,400	*6920 *15,400	7.85 25.32
7.5 m 25.0 ft	kg lb												*6530 *14,450	*6530 *14,450	8.96 29.16
6.0 m 20.0 ft	kg lb							*10 110 *22,050	9530 20,500	*9480 *20,800	6860 14,700		*6430 *14,200	5890 13,100	9.72 31.75
4.5 m 15.0 ft	kg lb					*13 070 *28,250	*13 070 *28,250	*11 120 *24,150	9130 19,650	*9950 *21,700	6670 14,300		*6530 *14,400	5260 11,650	10.19 33.39
3.0 m 10.0 ft	kg lb			*21 220 *45,600	18 960 40,950	*15 270 *33,000	12 240 26,400	*12 310 *26,700	8650 18,650	*10 580 *23,000	6410 13,800		*6830 *15,000	4920 10,850	10.43 34.21
1.5 m 5.0 ft	kg lb			*24 330 *52,600	17 480 37,650	*17 130 *37,050	11 450 24,700	*13 400 *29,000	8210 17,650	10 480 22,550	6160 13,250		*7340 *16,150	4790 10,550	10.45 34.28
Ground Line	kg lb			*22 680 *52,100	16 810 36,150	*18 190 *39,350	10 930 23,550	13 640 29,350	7870 16,950	10 260 22,100	5960 12,800		*8150 *17,950	4860 10,700	10.24 33.60
-1.5 m -5.0 ft	kg lb	*14 390 *32,500	*14 390 *32,500	*23 280 *52,050	16 640 35,750	*18 280 *39,600	10 680 23,000	13 430 28,850	7680 16,550	10 150 21,850	5860 12,600		8940 19,750	5160 11,400	9.80 32.11
-3.0 m -10.0 ft	kg lb	*20 650 *45,700	*20 650 *45,700	*22 960 *49,750	16 740 36,000	*17 380 *37,600	10 660 22,950	13 400 28,800	7660 16,500	10 190 22,300	5890		10 060 22,300	5820 12,900	9.08 29.71
-4.5 m -15.0 ft	kg lb	*22 190 *49,400	*22 190 *49,400	*19 780 *42,600	17 090 36,750	*15 200 *32,650	10 860 23,400	*11 540 *24,450	7830 16,900				*10 200 *22,450	7140 15,950	8.03 26.13
-6.0 m -20.0 ft	kg lb			*14 380 *30,300	*14 380 *30,300	*10 680 *21,950	*10 680 *21,950						*9410 *20,500	*9410 *20,500	6.45 20.75

* 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.

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Reach Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side

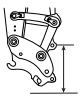
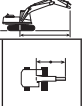
















Load at Maximum Reach

BOOM – 6.90 m (22'8")
STICK – 3.90 m (12'10")

BUCKET – Bare pin grabber coupler – no bucket
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 8.1 mt (17,840 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		10.5 m/35.0 ft				m ft	
																
9.0 m 30.0 ft	kg lb													*6380 *14,150	*6380 *14,150	8.41 27.20
7.5 m 25.0 ft	kg lb								*8050 *16,050	7090 15,100				*6090 *13,450	*6090 *13,450	9.46 30.81
6.0 m 20.0 ft	kg lb								*8840 *19,350	6980 14,950				*6040 *13,300	5460 12,150	10.18 33.27
4.5 m 15.0 ft	kg lb							*10 410 *22,600	9280 19,950	*9400 *20,500	6760 14,500	*7040 5030		*6150 *13,550	4900 10,850	10.63 34.83
3.0 m 10.0 ft	kg lb			*19 490 *41,900	*19 490 *41,900	*14 330 *30,950	12 480 26,900	*11 690 *25,350	8770 18,900	*10 110 *22,000	6470 13,900	8340 *17,200	4900 10,450	*6440 *14,200	4580 10,100	10.86 35.62
1.5 m 5.0 ft	kg lb			*23 250 *50,150	17 850 38,450	*16 420 *35,500	11 610 25,000	*12 900 *27,950	8280 17,800	10 520 22,600	6190 13,300	8170 17,550	4740 10,150	*6930 *15,250	4450 9,800	10.87 35.68
Ground Line	kg lb	*9540 *21,650	*9540 *21,650	*25 010 *54,100	16 910 36,350	*17 790 *38,500	10 990 23,650	13 670 29,400	7890 16,950	10 260 22,050	5950 12,800	8040 *17,150	4620 9,900	*7680 *16,950	4490 9,900	10.68 35.03
-1.5 m -5.0 ft	kg lb	*14 410 *32,500	*14 410 *32,500	*24 700 *54,300	16 550 35,550	*18 250 *39,500	10 640 22,900	13 390 28,800	7640 16,450	10 090 21,700	5800 12,450			8270 18,250	4740 10,450	10.25 33.61
-3.0 m -10.0 ft	kg lb	*20 360 *45,950	*20 360 *45,950	*23 790 *51,500	16 540 35,550	*17 730 *38,350	10 540 22,700	13 290 28,600	7550 16,250	10 060 21,650	5770 12,400			9180 20,350	5270 11,700	9.57 31.33
-4.5 m -15.0 ft	kg lb	*22 480 *50,050	*22 480 *50,050	*21 190 *45,700	16 790 36,100	*16 080 *34,600	10 650 22,950	*12 400 *26,550	7640 16,500					*10 030 *22,100	6320 14,100	8.58 27.96
-6.0 m -20.0 ft	kg lb	*22 280 *47,400	*22 280 *47,400	*16 720 *35,550	*16 720 *35,550	*12 660 *26,700	11 020 23,800							*9800 *21,500	8580 19,450	7.13 23.02

* 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.



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach – Bucket Curled

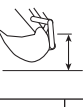
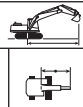
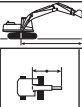
















Load at Maximum Reach

BOOM – 7.40 m (24'3")
STICK – 4.30 m (14'1")

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

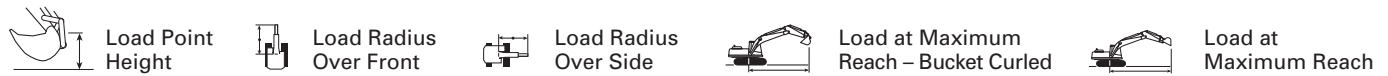
UNDERCARRIAGE – Long – variable gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

	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							*6830 *13,650	*6830 *13,650			*5200 *11,500	*5200 *11,500	9.53 30.93	*4140 *9200	*4140 *9200	9.91 31.97		
7.5 m 25.0 ft	kg lb							*7080 *15,500	*7080 *15,500			*5070 *11,200	*5070 *11,200	10.45 34.07	*3930 *8700	*3930 *8700	11.07 36.02		
6.0 m 20.0 ft	kg lb							*7520 *16,400	7170 15,350	*7080 *14,800	5170 11,000	*5110 *11,250	4540 10,100	11.08 36.23	*3870 *8550	*3870 *8550	11.88 38.80		
4.5 m 15.0 ft	kg lb							*9350 *20,250	*9350 *20,250	*8190 *17,800	6870 14,750	*7420 *16,150	5020 10,700	*5290 *11,650	4080 9,050	11.48 37.61	*3920 *8600	3650 8,100	12.41 40.64
3.0 m 10.0 ft	kg lb	*18 890 *40,550	*18 890 *40,550	*13 430 *28,950	12 980 27,950	*10 630 *23,000	8990 19,350	*8950 *19,400	6520 13,950	*7850 *17,050	4820 10,300	*5610 *12,350	3810 8,400	11.67 38.28	*4070 *8950	3330 7,350	12.71 41.67		
1.5 m 5.0 ft	kg lb	*22 120 *47,850	18 610 40,100	*15 380 *33,200	11 950 25,750	*11 810 *25,550	8400 18,050	*9670 *20,950	6170 13,200	7830 16,800	4620 9,850	*6110 *13,450	3700 8,150	11.66 38.27	*4320 *9500	3170 7,000	12.79 41.98		
Ground Line	kg lb	*18 660 *43,150	17 570 37,750	*16 600 *35,900	11 230 24,150	*12 660 *27,400	7940 17,050	9900 21,250	5870 12,600	7640 16,400	4450 9,500	6560 14,450	3740 8,250	11.46 37.60	*4700 *10,350	3150 6,950	12.67 41.58		
-1.5 m -5.0 ft	kg lb	*20 530 *45,700	17 210 36,950	*17 010 *36,800	10 850 23,300	13 020 27,950	7650 16,450	9690 20,800	5680 12,200	7530 16,150	4340 9,300	6920 15,300	3960 8,750	11.05 36.22	*5240 *11,550	3270 7,200	12.34 40.47		
-3.0 m -10.0 ft	kg lb	*20 960 *46,650	17 220 36,950	*16 590 *35,850	10 730 23,050	*12 820 *27,650	7530 16,200	9610 20,650	5610 12,050			7640 16,900	4410 9,750	10.40 34.04	*6040 *13,350	3570 7,900	11.77 38.58		
-4.5 m -15.0 ft	kg lb	*20 220 *43,650	17 500 37,550	*15 280 *32,900	10 830 23,300	*11 830 *25,400	7580 16,300	*9120 *19,350	5680 12,250			*8280 *18,250	5250 11,700	9.47 30.89	*6980 *15,400	4150 9,200	10.93 35.76		
-6.0 m -20.0 ft	kg lb	*16 670 *35,650	*16 670 *35,650	*12 750 *27,150	11 160 24,050	*9610 *20,150	7850 16,950					*8250 *18,150	6920 15,600	8.16 26.43					

* 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.

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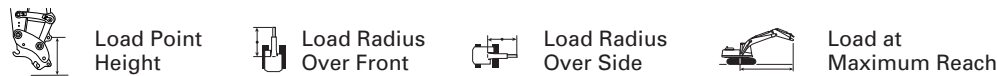
Reach Boom Lift Capacities



BOOM – 6.90 m (22'8") **BUCKET** – 1219 mm (48") GP-C with HD long tips **UNDERCARRIAGE** – Long – variable gauge
STICK – 3.90 m (12'10") **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 lb)

Load Point Height	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		Load at Maximum Reach – Bucket Curled			Load at Maximum Reach						
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft	kg	lb	m	ft		
9.0 m 30.0 ft															*5790 *12,850	*5790 *12,850	8.53 27.61	*4280 *9500	*4280 *9500	10.10 32.78
7.5 m 25.0 ft							*7810 *15,650	7310 15,550							*5560 *12,250	*5560 *12,250	9.54 31.09	*4160 *9200	*4160 *9200	10.99 35.87
6.0 m 20.0 ft							*8270 *18,100	7210 15,400							*5540 *12,200	5480 12,200	10.23 33.45	*4180 *9200	*4180 *9200	11.57 37.88
4.5 m 15.0 ft						*9950 *21,550	9740 20,900	*8850 *19,250	6980 14,950	*6800 5090					*5710 *12,550	4920 10,900	10.66 34.94	*4320 *9500	4020 8,900	11.90 39.00
3.0 m 10.0 ft	*19 320 *41,500	*19 320 *41,500	*13 960 *30,100	13 280 28,600	*11 210 *24,250	9200 19,800	*9570 *20,750	6690 14,350	8180 *16,550	4960 10,600					*6040 *13,300	4600 10,150	10.87 35.66	*4570 *10,050	3840 8,450	11.99 39.34
1.5 m 5.0 ft	*22 790 *49,150	19 300 41,550	*15 950 *34,450	12 360 26,600	*12 380 *26,800	8690 18,700	*10 240 *22,200	6390 13,700	8010 17,200	4810 10,300					*6580 *14,500	4490 9,900	10.86 35.65	*4970 *10,950	3830 8,450	11.86 38.91
Ground Line	*24 310 *52,600	18 340 39,400	*17 200 *37,200	11 710 25,200	*13 210 *28,600	8280 17,800	10 180 21,900	6150 13,200	7890 17,200	4690					*7400 *16,300	4570 10,100	10.65 34.93	*5560 *12,250	4010 8,850	11.49 37.71
-1.5 m -5.0 ft	*24 170 *52,450	18 000 38,650	*17 550 *38,000	11 370 24,450	13 430 28,850	8040 17,300	10 030 21,550	6000 12,900							8210 18,150	4880 10,750	10.20 33.43	*6450 *14,250	4430 9,800	10.87 35.64
-3.0 m -10.0 ft	*22 840 *49,450	18 040 38,750	*16 940 *36,600	11 290 24,300	*13 070 *28,200	7970 17,150	10 010 21,550	5990 12,900							9230 20,450	5520 12,200	9.49 31.06	*7830 *17,250	5240 11,600	9.95 32.52
-4.5 m -15.0 ft	*20 130 *43,400	18 370 39,450	*15 180 *32,600	11 450 24,650	*11 550 *24,650	8090 17,450									*9410 *20,750	6760 15,100	8.46 27.56			
-6.0 m -20.0 ft	*15 470 *32,800	*15 470 *32,800	*11 540 *24,200	*11 540 *24,200																

* 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.



BOOM – 6.90 m (22'8") **BUCKET** – Bare pin grabber coupler – no bucket **UNDERCARRIAGE** – Long – variable gauge
STICK – 3.35 m (11') **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 lb)

Load Point Height	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		Load at Maximum Reach			
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	m	ft
9.0 m 30.0 ft														
7.5 m 25.0 ft														
6.0 m 20.0 ft														
4.5 m 15.0 ft														
3.0 m 10.0 ft														
1.5 m 5.0 ft														
Ground Line	*8480 *19,300	*8480 *19,300	*22 950 *51,950	18 920 40,650	*18 240 *39,500	12 220 26,300	*14 140 30,500	8800 18,950	10 700 23,050	6690 14,400				
-1.5 m -5.0 ft	*15 040 *33,950	*15 040 *33,950	*23 350 *52,200	18 780 40,350	*18 240 *39,500	11 990 25,800	13 990 30,100	8620 18,550	10 600 22,800	6590 14,200				
-3.0 m -10.0 ft	*20 740 *45,950	*20 740 *45,950	*22 720 *49,200	18 910 40,600	*17 230 *37,250	11 990 25,800	*13 420 *28,900	8610 18,550						
-4.5 m -15.0 ft	*22 430 *50,000	*22 430 *50,000	*19 380 *41,700	19 290 41,450	*14 900 *31,950	12 210 26,300	*11 220 *23,700	8810 19,050						
-6.0 m -20.0 ft			*13 660 *29,980	*13 660 *29,980										

* 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.

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

Reach Boom Lift Capacities



BOOM – 6.90 m (22'8")
STICK – 3.90 m (12'10")

BUCKET – Bare pin grabber coupler – no bucket
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – variable gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

	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											*6340 *14,050	*6340 *14,050	8.53 27.61
7.5 m 25.0 ft	kg lb						*8310 *16,750	7840 16,750				*6080 *13,450	*6080 *13,450	9.54 31.09
6.0 m 20.0 ft	kg lb						*8880 *19,450	7720 16,550				*6040 *13,300	6030 *13,300	10.23 33.45
4.5 m 15.0 ft	kg lb					*10 530 *22,850	10 200 21,950	*9460 *20,600	7480 16,050	*7260	5630	*6170 *13,600	5460 12,100	10.66 34.94
3.0 m 10.0 ft	kg lb	*19 920 *42,800	*19 920 *42,800	*14 550 *31,400	13 740 29,600	*11 810 *25,600	9680 20,850	*10 180 *22,150	7190 15,450	8700 *17,500	5490 11,750	*6480 *14,250	5140 11,350	10.87 35.66
1.5 m 5.0 ft	kg lb	*23 510 *50,700	19 900 42,850	*16 590 *35,850	12 870 27,750	*13 000 *28,150	9190 19,800	*10 870 *23,550	6900 14,850	8530 18,350	5340 11,450	*6990 *15,400	5030 11,100	10.87 35.65
Ground Line	kg lb	*25 080 *54,250	19 000 40,850	*17 870 *38,700	12 270 26,400	*13 850 *30,000	8810 18,950	*10 690 *23,000	6670 14,350	8410	5220	*7780 *17,150	5100 11,250	10.65 34.93
-1.5 m -5.0 ft	kg lb	*24 720 *54,150	18 680 40,100	*18 240 *39,500	11 940 25,700	13 950 30,000	8570 18,450	10 540 22,650	6530 14,050			8730 19,250	5410 11,950	10.20 33.43
-3.0 m -10.0 ft	kg lb	*23 600 *51,100	18 700 40,150	*17 630 *38,100	11 860 25,550	*13 710 *29,600	8500 18,300	*10 520 22,650	6510 14,050			9730 21,550	6040 13,350	9.49 31.06
-4.5 m -15.0 ft	kg lb	*20 860 *44,950	18 980 40,800	*15 840 *34,100	12 000 25,850	*12 190 *26,050	8610 18,600					*10 030 *22,100	7270 16,200	8.46 27.56
-6.0 m -20.0 ft	kg lb	*16 140 *34,250	*16 140 *34,250	*12 170 *25,550	*12 170 *25,550							*9730 *21,300	*9730 *21,300	6.96 22.43

* 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.

BOOM – 7.40 m (24'3")
STICK – 4.30 m (14'1")

BUCKET – 1219 mm (48") GP-C with HD long tips
SHOES – 900 mm (36") triple grouser

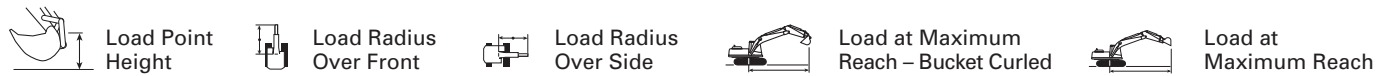
UNDERCARRIAGE – Long – wide variable gauge
COUNTERWEIGHT – 8.1 mt (17,840 lb)

	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		
10.5 m 35.0 ft	kg lb													*4140 *9200	*4140 *9200	9.91 31.97	
9.0 m 30.0 ft	kg lb						*6830 *13,650	*6830 *13,650				*5200 *11,500	*5200 *11,500	9.53 30.93	*3930 *8700	*3930 *8700	11.07 36.02
7.5 m 25.0 ft	kg lb						*7080 *15,500	*7080 *15,500				*5070 *11,200	*5070 *11,200	10.45 34.07	*3870 *8550	*3870 *8550	11.88 38.80
6.0 m 20.0 ft	kg lb						*7520 *16,400	*7520 *16,400	*7080 *14,800	6120 13,050		*5110 *11,250	*5110 *11,250	11.08 36.23	*3920 *8600	*3920 *8600	12.41 40.64
4.5 m 15.0 ft	kg lb					*9350 *20,250	*9350 *20,250	*8190 *17,800	8060 17,300	*7420 *16,150	5970 12,750	*5290 *11,650	4910 10,900	11.48 37.61	*4070 *8950	4060 *8950	12.71 41.67
3.0 m 10.0 ft	kg lb	*18 890 *40,550	*18 890 *40,550	*13 430 *28,950	*13 430 *28,950	*10 630 *23,000	10 550 22,700	*8950 *19,400	7690 16,500	*7850 *17,050	5770 12,350	*5610 *12,350	4630 10,200	11.67 38.28	*4320 *9500	3890 8,600	12.79 41.98
1.5 m 5.0 ft	kg lb	*22 120 *47,850	*22 120 *47,850	*15 380 *33,200	14 180 30,500	*11 810 *25,550	9940 21,400	*9670 *20,950	7330 15,750	7980 17,100	5560 11,900	*6110 *13,450	4520 9,950	11.66 38.27	*4700 *9500	3880 8,600	12.67 41.98
Ground Line	kg lb	*18 660 *43,150	*18 660 *43,150	*16 600 *35,900	13 430 28,900	*12 660 *27,400	9470 20,350	10 090 21,050	7040 15,100	7790 16,700	5380 11,550	6700 14,750	4570 10,100	11.46 37.60	*4700 *11,550	3880 8,850	12.67 40.47
-1.5 m -5.0 ft	kg lb	*20 530 *45,700	*20 530 *44,950	*17 010 *36,800	13 030 28,000	*13 030 *28,200	9160 19,700	9880 21,200	6840 14,700	7680 16,500	5270 11,300	7070 15,600	4830 10,650	11.05 36.22	*6040 *13,350	4380 9,650	11.77 38.58
-3.0 m -10.0 ft	kg lb	*20 960 *46,650	*20 960 *43,150	*16 590 *35,850	12 910 27,750	*12 820 *27,650	9040 19,450	9790 21,050	6760 14,550			7800 17,250	5360 11,850	10.40 34.04	*6980 *15,400	5030 11,150	10.93 35.76
-4.5 m -15.0 ft	kg lb	*20 220 *43,650	*20 220 *43,650	*15 280 *32,900	13 010 28,000	*11 830 *25,400	9100 19,600	*9120 *19,350	6840 14,750			*8280 *18,250	6330 14,100	9.47 30.89			
-6.0 m -20.0 ft	kg lb	*16 670 *35,650	*16 670 *35,650	*12 750 *27,150	*12 750 *27,150	*9610 *20,150	9380 *20,150					*8250 *18,150	*8250 *18,150	8.16 26.43			

* 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.

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

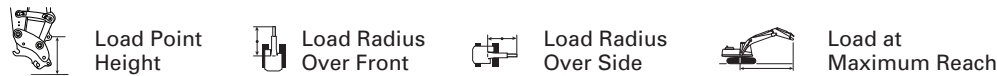
Reach Boom Lift Capacities



BOOM – 6.90 m (22'8") **BUCKET** – 1219 mm (48") GP-C with HD long tips **UNDERCARRIAGE** – Long – wide variable gauge
STICK – 3.90 m (12'10") **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 lb)

Load Point Height	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		Load at Maximum Reach – Bucket Curled		Load at Maximum Reach				
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft	Over Front	Over Side	m ft	
9.0 m 30.0 ft	kg lb											*5780 *12,850	*5780 *12,850	8.54 27.64	*4280 *9500	*4280 *9500	10.10 32.80
7.5 m 25.0 ft	kg lb						*7830 *15,700	*7830 *15,700				*5550 *12,250	*5550 *12,250	9.55 31.10	*4160 *9200	*4160 *9200	11.00 35.89
6.0 m 20.0 ft	kg lb						*8270 *18,100	*8270 *18,000				*5540 *12,200	*5540 *12,200	10.24 33.46	*4180 *9200	*4180 *9200	11.58 37.89
4.5 m 15.0 ft	kg lb					*9950 *21,600	*9950 *21,600	*8860 *19,250	8160 17,500	*6820 6040		*5710 *12,550	*5710 *12,550	10.67 34.95	*4320 *9500	*4320 *9500	11.90 39.01
3.0 m 10.0 ft	kg lb	*19 340 *41,550	*19 340 *41,550	*13 970 *30,150	*13 970 *30,150	*11 220 *24,300	10 760 23,150	*9570 *20,800	7860 16,850	8330 *16,550	5900 12,600	*6040 *13,300	5500 12,150	10.87 35.66	*4580 *10,050	*4580 *10,050	11.99 39.34
1.5 m 5.0 ft	kg lb	*22 810 *49,200	*22 810 *49,200	*15 960 *34,450	14 590 31,400	*12 390 *26,800	10 230 22,000	*10 250 *22,200	7560 16,250	8170 17,500	5740 12,300	*6580 *14,500	5390 11,850	10.86 35.65	*4970 *10,950	4630 10,200	11.85 38.91
Ground Line	kg lb	*24 310 *52,600	22 160 47,550	*17 210 *37,200	13 920 29,950	*13 210 *28,600	9810 21,100	10 370 22,250	7310 15,700	8040 5620		*7410 *16,350	5490 12,100	10.64 34.92	*5570 *12,250	4840 10,650	11.49 37.70
-1.5 m -5.0 ft	kg lb	*24 170 *52,450	21 800 46,750	*17 550 *38,000	13 570 29,150	*13 500 *29,200	9560 20,550	10 210 21,950	7160 15,400			8370 18,500	5850 12,950	10.20 33.42	*6460 *14,300	5320 11,750	10.87 35.62
-3.0 m -10.0 ft	kg lb	*22 830 *49,400	21 840 46,850	*16 940 *36,600	13 490 29,000	*13 060 *28,150	9490 20,400	*10 180 *21,800	7150 15,400			*9270 *20,450	6600 14,600	9.49 31.04	*7830 *17,250	6260 13,900	9.94 32.49
-4.5 m -15.0 ft	kg lb	*20 110 *43,350	*20 110 *43,350	*15 160 *32,600	13 650 29,350	*11 540 *24,600	9620 20,750					*9410 *20,750	8040 17,950	8.45 27.54			
-6.0 m -20.0 ft	kg lb	*15 420 *32,700	*15 420 *32,700	*11 510 *24,100	*11 510 *24,100												

* 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.



BOOM – 6.90 m (22'8") **BUCKET** – Bare pin grabber coupler – no bucket **UNDERCARRIAGE** – Long – wide variable gauge
STICK – 3.35 m (11') **SHOES** – 900 mm (36") triple grouser **COUNTERWEIGHT** – 8.1 mt (17,840 lb)

Load Point Height	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		Load at Maximum Reach			
	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	Over Front	Over Side	m ft	
9.0 m 30.0 ft	kg lb										*6860 *15,250	*6860 *15,250	7.98 25.76	
7.5 m 25.0 ft	kg lb								*6880 *14,400	*6880 *14,400	*6510 *14,400	*6510 *14,400	9.05 29.46	
6.0 m 20.0 ft	kg lb						*10 190 *22,200	*10 190 *22,200	*9510 *20,850	8780 18,850	*6430 *14,200	*6430 *14,200	9.78 31.95	
4.5 m 15.0 ft	kg lb					*13 280 *28,700	*13 280 *28,700	*11 230 *24,400	*11 230 *24,400	*10 010 *21,800	8570 18,400	*6550 *14,450	*6550 *14,450	10.23 33.50
3.0 m 10.0 ft	kg lb		*21 610 *46,450	*21 610 *46,450	*15 480 *33,400	*15 480 *33,400	*12 430 *26,950	11 120 23,950	*10 640 *23,100	8300 17,850	*6870 *15,100	6450 14,250	10.44 34.25	
1.5 m 5.0 ft	kg lb		*23 620 *53,000	23 390 50,300	*17 280 *37,350	14 940 32,150	*13 480 *29,200	10 660 22,950	11 100 23,850	8050 17,300	*7400 *16,300	6340 13,950	10.44 34.25	
Ground Line	kg lb	*8480 *19,300	*8480 *19,300	*22 950 *51,950	22 730 48,800	*18 240 *39,500	14 420 31,050	*14 140 *30,600	10 320 22,200	10 890 23,450	7850 16,900	*8250 *18,200	6470 14,250	10.21 33.49
-1.5 m -5.0 ft	kg lb	*15 040 *33,950	*15 040 *33,950	*23 350 *52,200	22 580 48,450	*18 240 *39,500	14 180 30,500	*14 190 *30,600	10 140 21,850	10 780 23,200	7750 16,700	9600 21,200	6910 15,250	9.74 31.93
-3.0 m -10.0 ft	kg lb	*20 740 *45,950	*20 740 *45,950	*22 720 *49,200	*22 720 *48,750	*17 230 *37,250	14 180 30,500	*13 420 *28,900	10 130 21,850			*10 270 *22,650	7810 17,300	9.00 29.43
-4.5 m -15.0 ft	kg lb	*22 430 *50,000	*22 430 *50,000	*19 380 *41,700	*19 380 *41,700	*14 900 *31,950	14 410 31,050	*11 220 *23,700	10 340 22,350			*10 170 *22,400	9620 21,500	7.9 25.71
-6.0 m -20.0 ft	kg lb			*13 660 *29,900	*13 660 *29,900	*9980 *21,900						*9240 *20,400	*9240 *20,400	6.26

* 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.

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

Mass Boom Lift Capacities



Load Point Height



Load Radius Over Front



Load Radius Over Side



Load at Maximum Reach - Bucket Curled




















Load at Maximum Reach

BOOM – 6.55 m (21'6")
STICK – 2.50 m (8'2")

BUCKET – 1905 mm (75") HDR V-edge with HD long tips
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 9.0 mt (19,820 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			m ft	
9.0 m 30.0 ft	kg lb													*5790 *12,850	*5790 *12,850	8.10 26.08	
7.5 m 25.0 ft	kg lb						*9300 8460					*8500 *18,800	8010 18,100	7.67 24.87	*5480 *12,100	*5480 *12,100	9.29 30.23
6.0 m 20.0 ft	kg lb						*9590 *20,900	8500 18,100				*8380 *18,450	6250 13,950	8.54 27.87	*5440 *12,000	4560 10,150	10.02 32.76
4.5 m 15.0 ft	kg lb		*17 100 *36,600	*17 100 *36,600	*12 720 *27,400	12 500 26,850	*10 410 *22,550	8200 17,550	*9070 5440			*8630 *19,000	5310 11,750	9.08 29.72	*5600 *12,300	3970 8,800	10.42 34.14
3.0 m 10.0 ft	kg lb		*20 940 *44,950	18 260 39,450	*14 580 *31,450	11 540 24,850	*11 380 *24,600	7770 16,650	*9470 *20,550	5300 11,250		9100 20,100	4830 10,650	9.35 30.65	*5940 *13,050	3710 8,200	10.54 34.57
1.5 m 5.0 ft	kg lb		*20 320 *49,400	16 650 35,900	*15 980 *34,500	10 700 23,000	*12 190 *26,350	7340 15,750	9640 20,600	5120 10,900		8930 19,700	4680 10,300	9.36 30.72	*6490 *14,300	3730 8,200	10.39 34.09
Ground Line	kg lb		*22 960 *49,800	16 120 34,650	*16 520 *35,750	10 200 21,900	*12 530 *27,100	7030 15,100	9500 4990			9250 20,400	4840 10,700	9.13 29.96	*7350 *16,200	4040 8,900	9.96 32.67
-1.5 m -5.0 ft	kg lb	*15 730 *35,750	*15 730 *35,750	*21 660 *47,000	16 160 34,700	*16 070 *34,750	10 040 21,550	*12 160 *26,200	6920 14,850			*9660 *21,300	5400 11,950	8.63 28.28	*7670 *16,900	4810 10,650	9.21 30.17
-3.0 m -10.0 ft	kg lb	*22 800 *50,400	*22 800 *50,400	*19 120 *41,350	16 550 35,550	*14 420 *31,050	10 180 21,900	*10 520 *22,250	7040 15,150			*9640 *21,250	6600 14,650	7.81 25.51			
-4.5 m -15.0 ft	kg lb			*14 660 *31,300	*14 660 *31,300	*10 690 *22,350	10 680 *22,350					*9010 *19,700	*9010 *19,700	6.54 21.21			

* 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.

BOOM – 6.55 m (21'6")
STICK – 3.00 m (9'10")

BUCKET – 1905 mm (75") HDR V-edge with HD long tips
SHOES – 900 mm (36") triple grouser

UNDERCARRIAGE – Long – fixed gauge
COUNTERWEIGHT – 9.0 mt (19,820 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			m ft	
9.0 m 30.0 ft	kg lb											*6610 *6610	6.99	*4280 *9500	*4280 *9500	8.72 28.17	
7.5 m 25.0 ft	kg lb						*8400 *18,450	*8400 *18,450				*6130 *13,550	*6130 *13,550	8.22 26.71	*4030 *8900	*4030 *8900	9.81 31.97
6.0 m 20.0 ft	kg lb						*8840 *19,250	8630 18,400	*6470 5570			*6060 *13,350	5500 12,250	9.04 29.53	*4000 *8800	*4000 *8800	10.50 34.34
4.5 m 15.0 ft	kg lb				*11 780 *25,400	*11 780 *25,400	*9740 *21,100	8280 17,700	*8510 *18,500	5520 11,700		*6250 *13,750	4700 10,400	9.55 31.28	*4120 *9050	3530 7,800	10.88 35.65
3.0 m 10.0 ft	kg lb		*19 590 *42,050	18 910 40,800	*13 780 *29,700	11 710 25,200	*10 810 *23,400	7810 16,700	*9030 *19,550	5320 11,300		*6680 *14,700	4270 9,450	9.81 32.16	*4400 *9650	3290 7,250	10.99 36.06
1.5 m 5.0 ft	kg lb		*22 340 *48,200	17 070 36,750	*15 430 *33,300	10 800 23,200	*11 760 *25,400	7330 15,700	*9490 *20,550	5080 10,850		*7410 *16,300	4130 9,100	9.82 32.23	*4850 *10,650	3280 7,250	10.85 35.60
Ground Line	kg lb		*23 070 *49,950	16 220 34,850	*16 290 *35,200	10 190 21,900	*12 310 *26,600	6970 14,900	9410 20,150	4900 10,450		8340 18,400	4260 9,400	9.60 31.50	*5550 *12,250	3540 7,800	10.44 34.26
-1.5 m -5.0 ft	kg lb	*14 920 *33,800	*14 920 *33,800	*22 290 *48,200	16 050 34,450	*16 190 *35,000	9930 21,300	*12 220 *26,350	6780 14,550	*9220 4830		*8950 *19,750	4700 10,400	9.13 29.91	*6640 *14,700	4150 9,200	9.74 31.91
-3.0 m -10.0 ft	kg lb	*23 050 *51,050	*23 050 *51,050	*20 220 *43,700	16 280 34,950	*14 980 *32,300	9960 21,400	*11 140 *23,800	6810 14,600			*9060 *19,950	5660 12,550	8.35 27.31			
-4.5 m -15.0 ft	kg lb	*21 990 *47,250	*21 990 *47,250	*16 450 *35,250	*16 450 *35,250	*12 130 *25,750	10 310 22,200					*8790 *19,300	7680 17,250	7.19 23.15			

* 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.

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

Standard Equipment

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

Auto-lube ready

Auxiliary hydraulic valve and auxiliary pump drive location

Cab

Air conditioner, heater, defroster with automatic climate control

Ashtray with lighter

Bolt-on FOGS capability

Coat hook

Floor mat

Light, interior

Literature compartment

Polycarbonate side windows

Positive filtered ventilation

Radio mounting (DIN size)

Seat belt, retractable

Seat, suspension, with high back and head rest

Skylight, openable, with sunshade

Storage compartment suitable for a lunch box cooler

Sunscreen

Windshield wiper and washer (upper and lower)

Counterweight (7611 kg, 16,780 lbs)

Engine

Cat C13 with ACERT™ Technology

Precleaner

Speed control, automatic

Fine swing control

Fuel-water separator

Heavy lift mode

Hydraulic neutralizer lever for all controls

Lights, working

Frame mounted

Boom, both sides

Cab mounted, two

Mirrors, frame and cab

Monitor, full graphic color display

Product Link ready

Radio, AM/FM with two speakers

S•O•SSM analysis, engine and hydraulic sampling ports

Start-up level checks (engine oil & coolant, hydraulic oil)

Swing parking brake, automatic

Track

900 mm (36") triple grouser shoes

Grease lubricated

Guiding guards, idler and center sections

Travel alarm

Optional Equipment

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

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 (24'3")

- Mass excavation 6.55 m (21'6")

- Reach 6.9 m (22'8")

- Reach, Special Application 6.9 m (22'8")

Buckets (see pages 12, 22, 23 and 24)

Bucket linkage:

- TB family (with lift eye)

- UB family

- Bucket pin adapter kit, for using 345B series buckets

- Bucket sidecutters and tips

Cab

- Power supply, 12V – 10A (2)

- Rear window emergency exit

Check valves

- Boom lowering

- Stick lowering

Counterweight

- Counterweight 8110 kg (17,880 lb)

- Counterweight 9013 kg (19,870 lb)

- Counterweight removal device for 7611 kg (16,780 lb) and 8810 kg (17,880 lb) counterweight

Guards

- Falling Object, for cab

- Front window

- Heavy-duty, under house

- Swivel guard

- Vandalism protection

- Guiding, full length

- Guiding, sprocket end

Coupler

- Pin grabber type, controls, lines

Engine

- Cold weather starting aid (ether aid, heavy-duty batteries and jump receptacle)

Hand control pattern changer

Machine Security System (MSS)

Sticks

- 2.5 m (8'2") M

- 2.9 m (9'6") R/SA

- 3.0 m (9'10") M

- 3.35 m (11') R/SA

- 3.9 m (12'10") LR/R/SA

- 4.3 m (14'1") LR/R/SA

Straight travel pedal

Track

- 600 mm (24") double-grouser shoes

- 750 mm (30") single-grouser shoes

- 750 mm (30") double-grouser shoes

- 750 mm (30") triple-grouser shoes

- 900 mm (36") double-grouser shoes

Undercarriage

- Fixed

- Variable

- Wide variable

345C L Hydraulic Excavator

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