

330C

Hydraulic Excavator



Engine

| | | |
|----------------|---------|--------|
| Engine Model | Cat® C9 | |
| Flywheel Power | 184 kW | 247 hp |

Weights

| | | |
|--|-----------|-----------|
| Operating Weight - Long Undercarriage | 34 800 kg | 76,700 lb |
| Operating Weight - Std. Undercarriage | 33 400 kg | 73,600 lb |

330C Hydraulic Excavator

Engine and Hydraulics

- ✓ New to the 330C, the Cat C9 engine combines with proven hydraulics to give the 330C consistently high power and control in the field. **pg. 4**

Structures

Rugged Caterpillar® undercarriage design and proven structural manufacturing techniques assure outstanding durability in the toughest applications. **pg. 5**

Booms and Sticks

Built for good performance and long service life, Caterpillar booms and sticks are large, welded, box-section structures with thick, multi-plate fabrications to resist high stress. Caterpillar offers various front combinations to meet various demands. **pg. 6**

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 and attachment selection to replacement. **pg. 11**

Increased work tool options, improved cycle times, and ease of operation lead to increased productivity and lower operating costs.



Operator Station

- ✓ The 330C operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design and highly efficient ventilation. **pg. 7**

Work Tools - Attachments

- ✓ The Tool Control System of the 330C allows the hydraulic system to handle most hydromechanical tools. Tool setting can be programmed and selected from the monitor. **pg. 8**

Serviceability

Longer service intervals and easier maintenance results in better machine availability and lower owning and operating costs. **pg. 10**



✓ *New Feature*

Engine and Hydraulics

Cat C9 engine and hydraulics give the 330C exceptional power, efficiency and controllability unmatched in the industry for consistently high performance in all applications.



Engine. Six cylinder turbocharged engine built for power, reliability, economy and low emissions will keep the machine up and running.

Automatic Engine Speed Control.

The three-stage, one-touch control maximizes fuel efficiency and reduces sound levels.

Low Sound, Low Vibration. The C9 design improves operator comfort by reducing sound and vibration.

Electronic Control Module. The Electronic Control Module (ECM) works as the “brain” of the engine’s control system, responding quickly to operating variables to maximize engine efficiency. Fully integrated with sensors in the engine’s fuel, air, coolant, and exhaust systems, the ECM stores and relays information on conditions such as rpm, fuel consumption, and diagnostic information.

Hydraulic Cross Sensing System.

Improves productivity with faster implement speeds and quicker, stronger pivot turns.

Optional Fine Swing Control. Optional fine swing control cushions swing start and stop for better implement control.

Hydraulic Cylinder Snubbers. The hydraulic cylinder snubbers at rod-end of boom cylinders and both ends of stick cylinders cushion shocks, reduce sound and increase cylinder life, keeping the machine working longer.

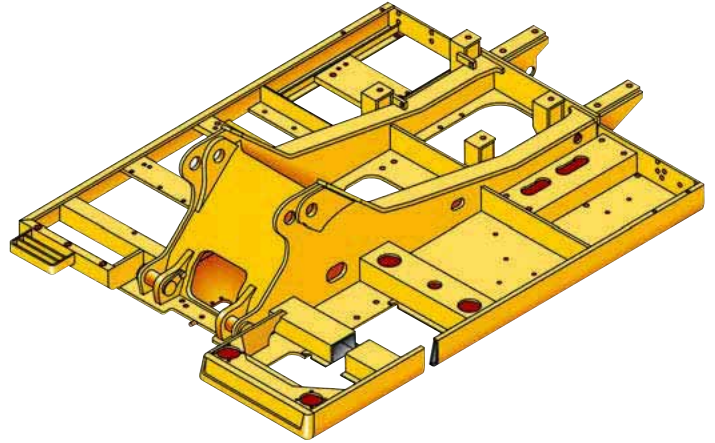
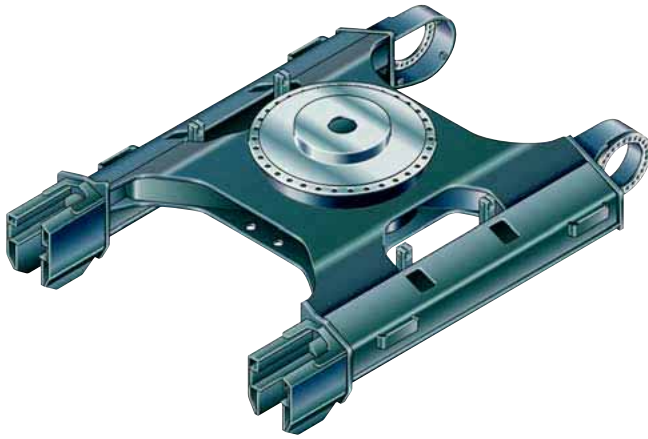
Controllability. The hydraulic system offers precise control to the 330C, reducing operator fatigue, improving operator effectiveness and efficiency, which ultimately translates into enhanced performance.

Boom and Stick Regeneration Circuit.

Boom and stick regeneration circuit increases efficiency and reduces cycle times for higher productivity and lower operating costs.

Structures

330C structural components and undercarriage are the backbone of the machine's durability.



Robotic Welding. Up to 95% of the structural welds on a Caterpillar Excavator are completed by robots. Robotic welds achieve up to three times the penetration of manual welds.

Carbody Design and Track Roller Frames. X-shaped, box-section carbody provides excellent resistance to torsional bending. Robot-welded track roller frames are press-formed, pentagonal units to deliver exceptional strength and service life.

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

Undercarriage. Durable Cat undercarriage absorbs stresses and provides excellent stability.

Rollers and Idlers. Sealed and lubricated track rollers, carrier rollers and idlers provide excellent service life, to keep the machine in the field longer.

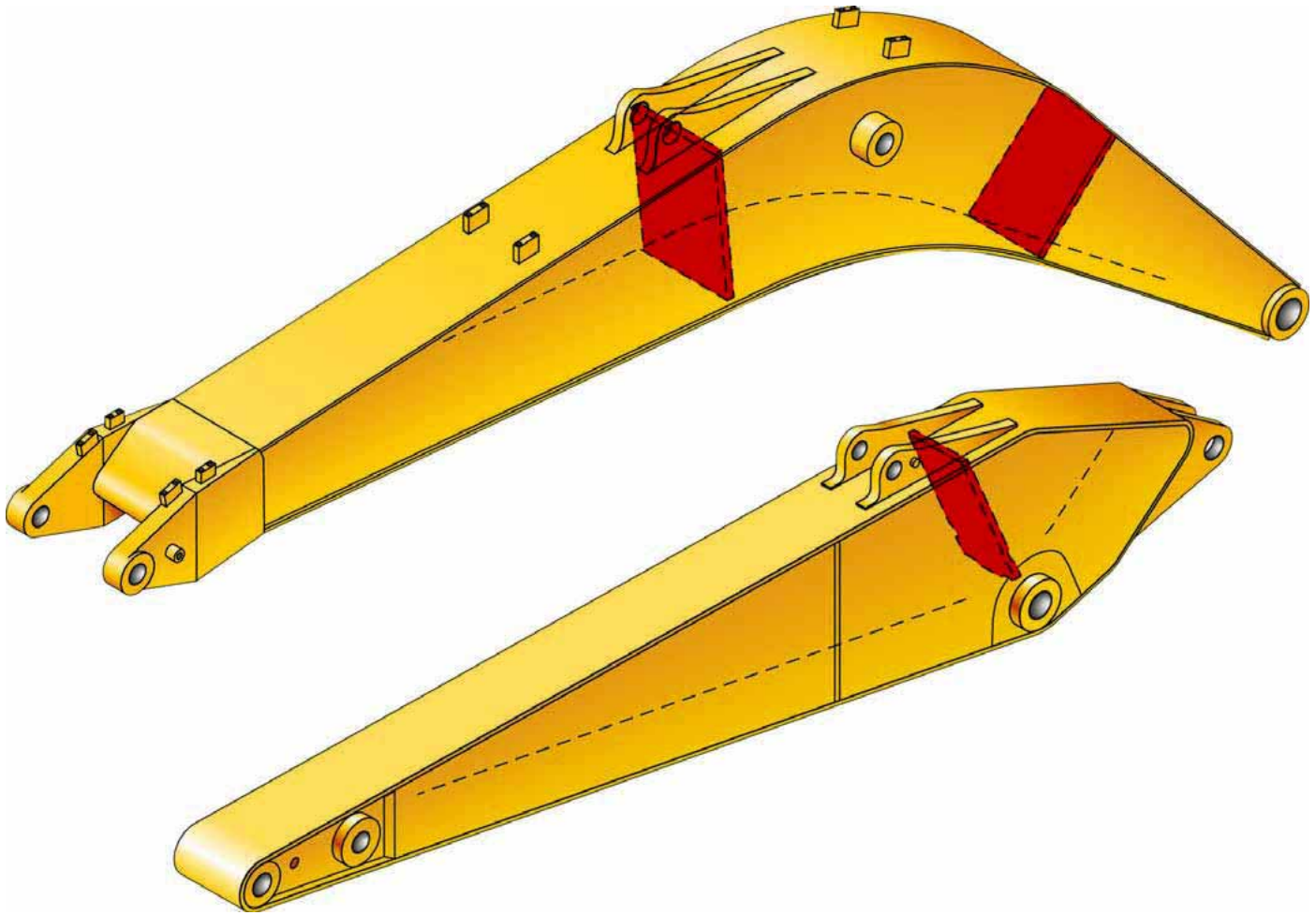
Grease Lubricated Track. The Grease Lubricated Track provides long track pin and bushing wear, and quiet travel.

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

Long Undercarriage. The long (L) undercarriage maximizes stability and lift capacity. This long, wide and sturdy undercarriage offers a very stable work platform.

Booms and Sticks

Built for performance and long service life, Caterpillar booms and sticks are large, welded, box-section structures with thick, multi-plate fabrications in high-stress areas.



Reach Boom. The reach boom features an optimum design that maximizes digging envelopes with two stick choices.

R3.9D Stick. Made of high-tensile strength steel and designed with the same application needs in mind as the R3.2D, with the added capability of increased reach and depth.

R3.2D Stick. The R3.2D Stick provides the capacity for excellent reach and depth in trenching and general construction applications.

Mass Excavation Boom. The mass excavation boom maximizes productivity. The mass version offers significantly higher digging forces and allows use of larger buckets.

M2.6E Stick. The M2.6E stick is used with the mass excavation boom is designed for truck loading in larger earth moving applications.

Operator Station

Redesigned interior layout maximizes operator space and provides exceptional comfort.

Operator Station. The 330C operator work station is quiet with ergonomic control placement and convenient adjustments, low lever and pedal effort, ergonomic seat design and highly efficient ventilation.

Redesigned Layout. Redesigned cab layout emphasizes simplicity and ease of use. Right-hand wall and console provide easy access to all switches, dials and controls.

Console. Redesigned consoles feature simplicity and functionality. Both consoles have attached adjustable armrests.

Automatic Climate Control. Fully automatic climate control adjusts temperature and flow and determines which air outlet is best in each situation.

Upper Cab Door Window. The upper cab door window slides open, providing extra ventilation and allowing communication with people outside.

Skylight. A large polycarbonate skylight delivers excellent natural lighting and good ventilation. Standard sliding sunshade protects the operator from direct sunlight.

Cab Attachments. A variety of cab attachments for additional functionality, comfort and security are available.



Windshield. The upper front windshield opens, closes and stores below the roof above the operator. Grips on the mid-lower part of the front windshield make opening easy.

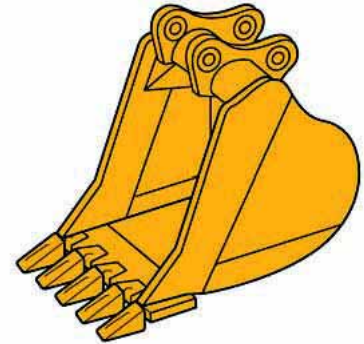
Monitor. New, compact monitor enhances viewing while displaying a variety of easy to read and understand language-based information.

Work Tools - Attachments

Increased offerings of work tools help optimize machine performance.

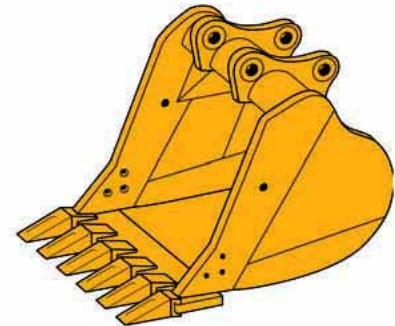


Buckets. Caterpillar buckets provide increased service life with reduced repair costs. All buckets feature dual radius design for increased heel clearance and reduced wear, robot welding of hinge assembly and other critical areas for increased weld penetration and longer life, and high strength.



Excavation Bucket (EX)

Excavation Bucket (EX). Having a large bucket capacity and tip radius, the Excavation Bucket is designed for general-purpose excavation, ranging from low or medium-friction soft earth to hard earth.



Mass Excavation Bucket (MX)

Mass Excavation Bucket (MX). The Mass Excavation Bucket has a high load factor, ensuring high productivity and is designed for mass earthmoving and loading.

Monitor. With optional tool control system, up to five different tool settings may be pre-programmed and selected from the electronic controller through the monitor.

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



Multi-processor



Hammer



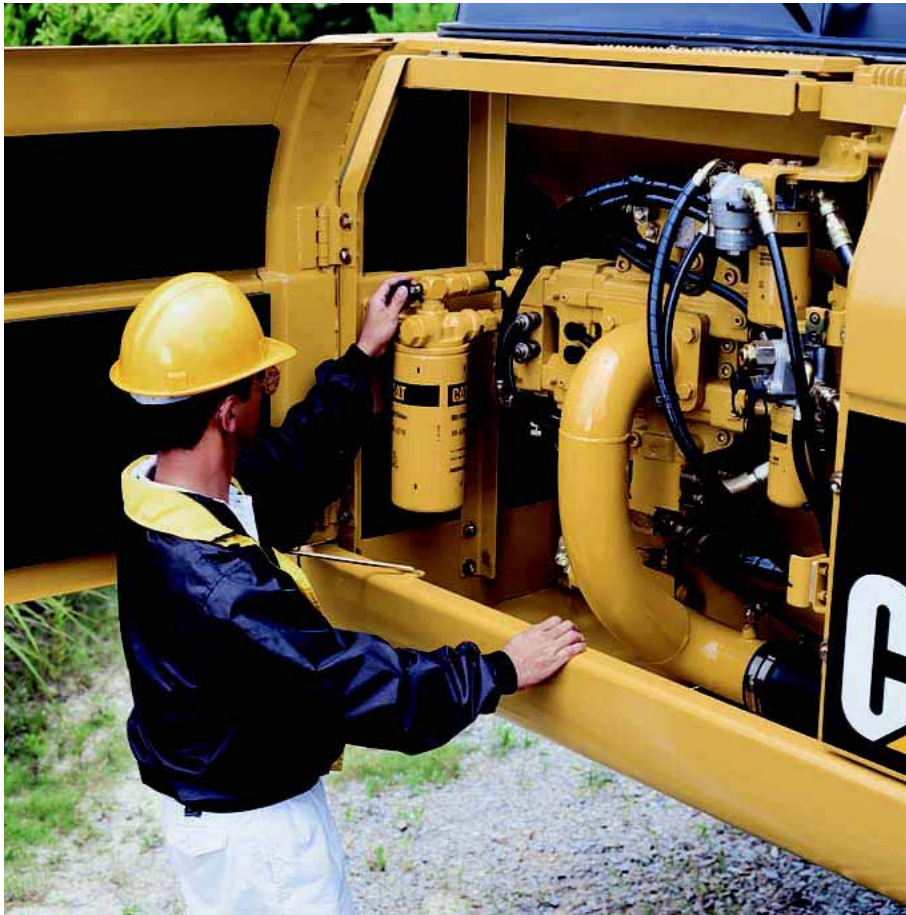
Tool Control System. The optional tool control system maximizes work tool productivity by configuring hydraulic flow, pressure, and operator controls to match a specific work tool. System versatility enables a wide range of tools to be used. Factory installed combined function, hammer and thumb circuits are available as attachments.



Thumb

Serviceability

Simplified service and maintenance features save you time and money.



Extended Service Interval. 330C service and maintenance intervals have been extended to reduce machine service time and increase machine availability.

Radiator Compartment. The left rear service door allows easy access to the engine radiator. A reserve tank and drain cock are attached to the radiator for simplified maintenance.

Air Filter Compartment. The air filter features a double-element construction for superior cleaning efficiency. When the air cleaner plugs, a warning is displayed on the monitor screen inside the cab.

Ground Level Service. The design and layout of the 330C was made with the service technician in mind. Many service locations are easily accessible at ground level allowing critical maintenance to get done quickly and efficiently.

Pump Compartment. A service door on the right side of the upper structure allows ground-level access to the pump and pilot filter.

Capsule Filter. The hydraulic return filter, a capsule filter, is situated outside the hydraulic tank. This filter prevents contaminants from entering the system when hydraulic oil is changed and keeps the operation clean.

Diagnostics and Monitoring. The 330C is equipped with S•O•SSM sampling ports and hydraulic test ports for the hydraulic system, engine oil and for coolant. A test connection for the Electronic Technician (ET) service tool is located behind the cab.

Anti-Skid "Punched Star" Plate.

Anti-skid punched-star plate covers top of storage box and upper structure to prevent slipping during maintenance. The plate can be removed for cleaning.

Fan Guard. Engine radiator fan is completely enclosed by fine wire mesh, reducing the risk of an accident.

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.

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

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

Maintenance. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as Scheduled Oil Sampling and Technical Analysis help you avoid unscheduled repairs.

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

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers utilize a worldwide computer network to find in-stock parts to minimize machine down time. Save money with remanufactured components.

Acquisition. Look past initial price, look at the value the 330C offers. Consider the financing options available as well as day-to-day operating costs.



Engine

| | | |
|----------------|--------|---------------------|
| Engine Model | CAT C9 | |
| Flywheel Power | 184 kW | 247 hp |
| ISO 9249 | 184 kW | 247 hp |
| SAE J1349 | 182 kW | 244 hp |
| EEC 80/1269 | 184 kW | 247 hp |
| Bore | 112 mm | 4.41 in |
| Stroke | 149 mm | 5.87 in |
| Displacement | 8.8 L | 537 in ³ |

Weights

| | | |
|---|-----------|-----------|
| Operating Weight - Long Undercarriage | 34 800 kg | 76,700 lb |
| <ul style="list-style-type: none">6.5 m (21'4") boom, 3.9 m (12'10") stick, D1.3X bucket, and 750 mm (30") track shoes. | | |
| Operating Weight - Std. Undercarriage | 33 400 kg | 73,600 lb |
| <ul style="list-style-type: none">6.5 m (21'4") boom, 3.9 m (12'10") stick, D1.3X bucket, and 600 mm (24") track shoes. | | |

Service Refill Capacities

| | | |
|-----------------------------------|-------|---------|
| Fuel Tank Capacity | 618 L | 163 gal |
| Cooling System | 38 L | 10 gal |
| Engine Oil | 36 L | 9.4 gal |
| Swing Drive | 19 L | 5 gal |
| Final Drive (each) | 15 L | 4 gal |
| Hydraulic System (including tank) | 410 L | 108 gal |
| Hydraulic Tank | 175 L | 46 gal |

Sound Performance

| Performance | ANSI/SAE |
|--|----------|
| <ul style="list-style-type: none">• The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 74 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.• Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment. | |

Standards

| | | |
|----------|------------------------------|--|
| Brakes | SAE J1026 APR90 | |
| Cab/FOGS | SAE J1356 FEB88 ISO 10262 | |

Hydraulic System

| | | |
|---|------------|------------|
| Main Implement System - Maximum Flow (2x) | 280 L/min | 74 gal/min |
| Max. pressure - Implements (Full Time) | 34 300 kPa | 4,974 psi |
| Max. pressure - Travel | 34 300 kPa | 4,974 psi |
| Max. pressure - Swing | 27 900 kPa | 4,046 psi |
| Pilot System - Maximum flow | 37 L/min | 10 gal/min |
| Pilot System - Maximum pressure | 4120 kPa | 597 psi |
| Boom Cylinder - Bore | 150 mm | 5.91 in |
| Boom Cylinder - Stroke | 1440 mm | 57 in |
| Stick Cylinder - Bore | 170 mm | 6.69 in |
| Stick Cylinder - Stroke | 1738 mm | 68 in |
| D Family Bucket Cylinder - Bore | 150 mm | 5.91 in |
| D Family Bucket Cylinder - Stroke | 1156 mm | 46 in |
| E Family Bucket Cylinder - Bore | 160 mm | 6.3 in |
| E Family Bucket Cylinder - Stroke | 1356 mm | 53 in |

Drive

| | | |
|----------------------|--------|-----------|
| Maximum Drawbar Pull | 294 kN | 66,094 lb |
| Maximum Travel Speed | 5 kph | 3.1 mph |

Swing Mechanism

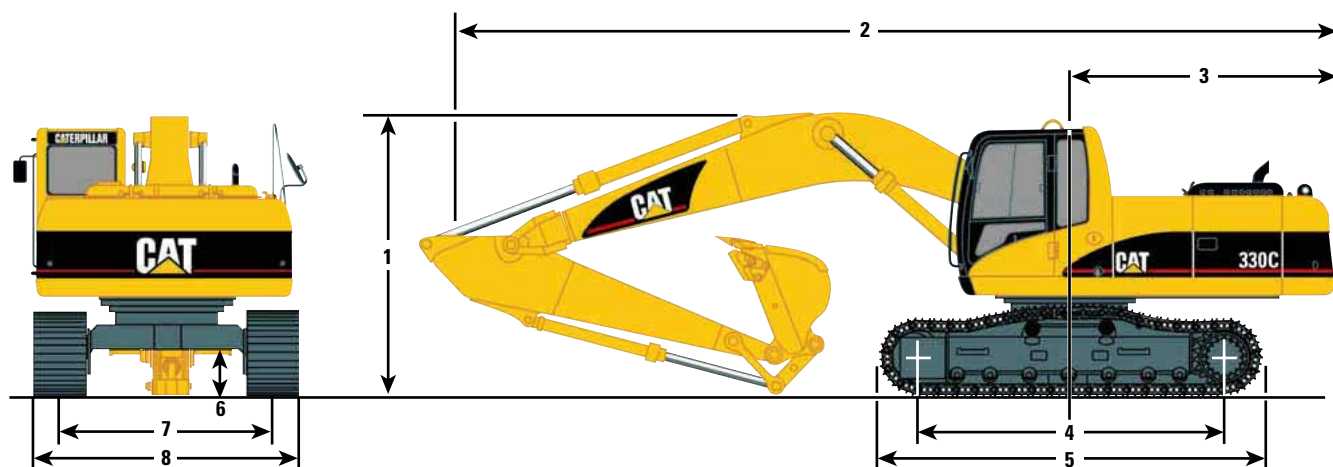
| | | |
|--------------|----------|--------------|
| Swing Speed | 10 RPM | |
| Swing Torque | 108 kN•m | 79,657 lb ft |

Track

| | | |
|-----------------------------------|--------|-------|
| Standard w/Standard Undercarriage | 600 mm | 24 in |
| Standard w/Long Undercarriage | 750 mm | 30 in |
| Optional | 750 mm | 30 in |
| Optional | 850 mm | 34 in |

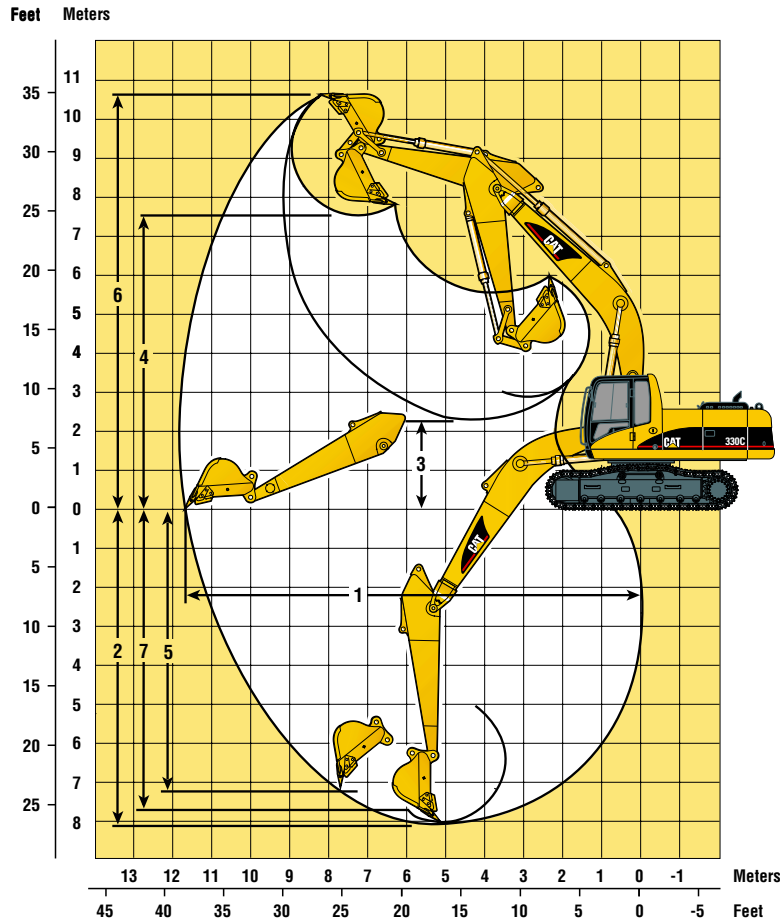
Dimensions

All dimensions are approximate.



| Boom Options | | Reach — 6.5 m (21'4") | Reach — 6.5 m (21'4") | Reach — 6.5 m (21'4") | Mass — 6.18 m (20'3") | | |
|--------------------------|--|--------------------------|--------------------------|--------------------------|--------------------------|--------|--------|
| Stick Options | | R3.9D m (12'10") | R3.2D m (10'6") | R2.8D m (9'2") | M2.55E (8'4") | | |
| 1 | Shipping height | 3730 mm (12'3") | 3350 mm (11'0") | 3590 mm (11'9") | 3490 mm (11'5") | | |
| 2 | Shipping length | 11 190 mm (36'9") | 11 140 mm (36'7") | 11 200 mm (36'9") | 10 840 mm (35'7") | | |
| 3 | Tail swing radius | 3500 mm (11'6") | 3500 mm (11'6") | 3500 mm (11'6") | 3500 mm (11'6") | | |
| 4 | Length to centers of rollers | | | | | | |
| | Standard undercarriage | 3610 mm (11'10") | 3610 mm (11'10") | 3610 mm (11'10") | 3610 mm (11'10") | | |
| | Long undercarriage | 4040 mm (13'3") | 4040 mm (13'3") | 4040 mm (13'3") | 4040 mm (13'3") | | |
| 5 | Track length | | | | | | |
| | Standard undercarriage | 4580 mm (15'0") | 4580 mm (15'0") | 4580 mm (15'0") | 4580 mm (15'0") | | |
| | Long undercarriage | 5020 mm (16'6") | 5020 mm (16'6") | 5020 mm (16'6") | 5020 mm (16'6") | | |
| 6 | Ground clearance | 510 mm (1'8") | 510 mm (1'8") | 510 mm (1'8") | 510 mm (1'8") | | |
| 7 | Track gauge | | | | | | |
| | Standard undercarriage | 2590 mm (8'6") | 2590 mm (8'6") | 2590 mm (8'6") | 2590 mm (8'6") | | |
| | Long undercarriage | 2590 mm (8'6") | 2590 mm (8'6") | 2590 mm (8'6") | 2590 mm (8'6") | | |
| 8 | Shipping width with 600 mm (24") Shoes | | | | | | |
| | Standard undercarriage | 3190 (10'6") | 3190 (10'6") | 3190 (10'6") | 3190 (10'6") | | |
| | Long undercarriage | 3190 (10'6") | 3190 (10'6") | 3190 (10'6") | 3190 (10'6") | | |
| | Shipping width with 750 mm (30") Shoes | | | | | | |
| | Standard undercarriage | 3340 (10'11") | 3340 (10'11") | 3340 (10'11") | 3340 (10'11") | | |
| | Long undercarriage | 3340 (10'11") | 3340 (10'11") | 3340 (10'11") | 3340 (10'11") | | |
| | Shipping width with 850 mm (34") Shoes | | | | | | |
| | Standard undercarriage | 3440 (11'3") | 3440 (11'3") | 3440 (11'3") | 3440 (11'3") | | |
| | Long undercarriage | 3440 (11'3") | 3440 (11'3") | 3440 (11'3") | 3440 (11'3") | | |
| Operating Weight | | 600 mm (24") Shoes — STD | | 750 mm (30") Shoes — LC | | | |
| Reach Boom 6.5 m (21'4") | | Bucket | kg | lb | Bucket | kg | lb |
| Sticks: 3.9 m (12'10") | | 1.3 m³ (1.7 yd³) | 33 400 | 73,600 | 1.3 m³ (1.7 yd³) | 34 800 | 76,700 |
| 3.2 m (10'6") | | 1.4 m³ (1.8 yd³) | 33 300 | 73,400 | 1.5 m³ (2.0 yd³) | 34 700 | 76,500 |
| 2.8 m (9'2") | | 1.5 m³ (2.0 yd³) | 33 200 | 73,200 | 1.6 m³ (2.1 yd³) | 34 700 | 76,500 |
| Mass Boom 6.18 m (20'3") | | | | | | | |
| Sticks: 2.55 m (8'4") | | 1.7 m³ (2.2 yd³) | 33 900 | 74,700 | 1.9 m³ (2.5 yd³) | 35 400 | 78,000 |

Working Ranges



Major Component Weights

Booms: including lines, boom cylinders, stick cylinders and left side light

| | kg | lb |
|-------|------|------|
| Reach | 3880 | 8600 |
| Mass | 3950 | 8700 |

Sticks: including bucket cylinder and bucket linkage

| | kg | lb |
|---------|------|------|
| R3.9 m | 1340 | 3000 |
| R3.2 m | 1210 | 2700 |
| R2.8 m | 1110 | 2400 |
| M2.55 m | 1180 | 2600 |

| | | |
|---------------|------|--------|
| Counterweight | 6020 | 13,300 |
|---------------|------|--------|

| | Reach Boom 6.5 m (21'4") | Reach Boom 6.5 m (21'4") | Reach Boom 6.5 m (21'4") | Mass Boom 6.18 m (20'3") |
|---|---|---|---|---|
| Stick Length | R3.9 (12'10") | R3.2 (10'6") | R2.8 (9'2") | M2.55E (8'4") |
| Bucket | 1.3 m ³ (1.7 yd ³) | 1.4 m ³ (1.8 yd ³) | 1.5 m ³ (2 yd ³) | 1.7 m ³ (2.2 yd ³) |
| 1 Maximum Reach at Ground Level | 11.64 m (38'2") | 10.92 m (35'10") | 10.62 m (34'10") | 10.21 m (33'6") |
| 2 Maximum Digging Depth | 8.09 m (26'7") | 7.39 m (24'3") | 6.99 m (22'11") | 6.60 m (21'8") |
| 3 Minimum Loading Height | 2.01 m (6'7") | 2.71 m (8'11") | 3.11 m (10'2") | 2.97 m (9'9") |
| 4 Maximum Loading Height | 7.64 m (25'1") | 7.20 m (23'7") | 7.20 m (23'7") | 6.67 m (21'11") |
| 5 Maximum Vertical Wall Digging Depth | 7.35 m (24'1") | 6.49 m (21'4") | 6.16 m (20'3") | 5.85 m (19'2") |
| 6 Maximum Cutting Height | 10.81 m (35'6") | 10.34 m (33'11") | 10.35 m (33'11") | 10.17 m (33'4") |
| 7 Maximum Depth Cut for 2440 mm (8') Level Bottom | 7.74 m (25'5") | 7.04 m (23'1") | 6.64 m (21'9") | 6.19 m (20'4") |
| Bucket Digging Force (ISO/New JIS) | 216 kN (48,600 lb) | 215 kN (48,300 lb) | 214 kN (48,100 lb) | 259 kN (58,200 lb) |
| Bucket Digging Force (SAE/Old JIS) | 190 kN (42,700 lb) | 190 kN (42,700 lb) | 189 kN (42,500 lb) | 228 kN (51,300 lb) |
| Stick Digging Force (ISO/New JIS) | 144 kN (32,400 lb) | 166 kN (37,300 lb) | 185 kN (41,600 lb) | 187 kN (42,000 lb) |
| Stick Digging Force (SAE/Old JIS) | 140 kN (31,500 lb) | 161 kN (36,200 lb) | 180 kN (40,500 lb) | 180 kN (40,500 lb) |

330C Bucket Specifications and Compatibility (600 mm, 24" triple grouser shoes)

| | Capacity* | | Width | | Tip Radius | | Weight (w/o tips) | | Teeth | Reach 6.5 m (21'4") | | | Mass 6.18 m (20'3") |
|-------------------------|-----------|-----|-------|----|------------|----|-------------------|------|-------|------------------------|---------|--------|------------------------|
| | m³ | yd³ | mm | in | mm | in | kg | lb | Qty | R3.9D | R3.2D | R2.8D | M2.6E |
| | | | | | | | | | | (12'10") | (10'6") | (9'2") | (8'6") |
| D-Buckets | | | | | | | | | | | | | |
| Excavation Buckets | 1.3 | 1.7 | 1345 | 53 | 1660 | 65 | 1033 | 2277 | 5 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1430 | 56 | 1660 | 65 | 1075 | 2370 | 5 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1450 | 57 | 1703 | 67 | 1300 | 2866 | 5 | ◐ | ● | ● | — |
| | 1.5 | 2.0 | 1500 | 59 | 1660 | 65 | 1135 | 2502 | 5 | ◑ | ● | ● | — |
| Mass Excavation Buckets | 1.6 | 2.1 | 1520 | 60 | 1660 | 65 | 1180 | 2601 | 6 | ◑ | ● | ● | — |
| | 1.9 | 2.5 | 1700 | 67 | 1660 | 65 | 1260 | 2778 | 6 | ◑ | ◑ | ◑ | — |
| Heavy Duty Buckets | 0.7 | 0.9 | 775 | 31 | 1762 | 69 | 985 | 2172 | 3 | ● | ● | ● | — |
| | 0.9 | 1.2 | 925 | 36 | 1762 | 69 | 1090 | 2403 | 3 | ● | ● | ● | — |
| | 1.2 | 1.6 | 1098 | 43 | 1762 | 69 | 1200 | 2646 | 4 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1225 | 48 | 1762 | 69 | 1207 | 2661 | 5 | ● | ● | ● | — |
| | 1.7 | 2.2 | 1400 | 55 | 1762 | 69 | 1307 | 2881 | 5 | ◑ | ● | ● | — |
| | 1.8 | 2.4 | 1540 | 61 | 1762 | 69 | 1408 | 3104 | 6 | ◑ | ◑ | ◑ | — |
| | 2.0 | 2.6 | 1690 | 67 | 1762 | 69 | 1494 | 3294 | 6 | ○ | ◑ | ◑ | — |
| | 2.2 | 2.9 | 1820 | 72 | 1761 | 69 | 1650 | 3638 | 7 | ∴ | ○ | ◑ | — |
| E-Buckets | | | | | | | | | | | | | |
| Excavation Buckets | 1.7 | 2.2 | 1470 | 58 | 1845 | 73 | 1421 | 3133 | 5 | — | — | — | ● |
| | 1.9 | 2.5 | 1560 | 63 | 1845 | 73 | 1499 | 3305 | 5 | — | — | — | ● |
| Mass Excavation Buckets | 2.1 | 2.7 | 1735 | 68 | 1845 | 73 | 1606 | 3541 | 6 | — | — | — | ◑ |

330C L Bucket Specifications and Compatibility (750 mm, 30" triple grouser shoes)

| | Capacity* | | Width | | Tip Radius | | Weight (w/o tips) | | Teeth | Reach | | | Mass |
|-------------------------|-----------|-----|-------|----|------------|----|-------------------|------|-------|-------------------|------------------|-----------------|-----------------|
| | m³ | yd³ | mm | in | mm | in | kg | lb | Qty | 6.5 m (21'4") | | | 6.18 m (20'3") |
| | | | | | | | | | | R3.9D (12'10") | R3.2D (10'6") | R2.8D (9'2") | M2.6E (8'6") |
| D-Buckets | | | | | | | | | | | | | |
| Excavation Buckets | 1.3 | 1.7 | 1345 | 53 | 1660 | 65 | 1033 | 2277 | 5 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1430 | 56 | 1660 | 65 | 1075 | 2370 | 5 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1450 | 57 | 1703 | 67 | 1300 | 2866 | 5 | ● | ● | ● | — |
| | 1.5 | 2.0 | 1500 | 59 | 1660 | 65 | 1135 | 2502 | 5 | ● | ● | ● | — |
| Mass Excavation Buckets | 1.6 | 2.1 | 1520 | 60 | 1660 | 65 | 1180 | 2601 | 6 | ◐ | ● | ● | — |
| | 1.9 | 2.5 | 1700 | 67 | 1660 | 65 | 1260 | 2778 | 6 | ◐ | ◐ | ● | — |
| Heavy Duty Buckets | 0.7 | 0.9 | 775 | 31 | 1762 | 69 | 985 | 2172 | 3 | ● | ● | ● | — |
| | 0.9 | 1.2 | 925 | 36 | 1762 | 69 | 1090 | 2403 | 3 | ● | ● | ● | — |
| | 1.2 | 1.6 | 1098 | 43 | 1762 | 69 | 1200 | 2646 | 4 | ● | ● | ● | — |
| | 1.4 | 1.8 | 1225 | 48 | 1762 | 69 | 1207 | 2661 | 5 | ● | ● | ● | — |
| | 1.7 | 2.2 | 1400 | 55 | 1762 | 69 | 1307 | 2881 | 5 | ◐ | ● | ● | — |
| | 1.8 | 2.4 | 1540 | 61 | 1762 | 69 | 1408 | 3104 | 6 | ◐ | ◐ | ● | — |
| | 2.0 | 2.6 | 1690 | 67 | 1762 | 69 | 1494 | 3294 | 6 | ○ | ◐ | ◐ | — |
| | 2.2 | 2.9 | 1820 | 72 | 1761 | 69 | 1650 | 3638 | 7 | ○ | ◐ | ◐ | — |
| E-Buckets | | | | | | | | | | | | | |
| Excavation Buckets | 1.7 | 2.2 | 1470 | 58 | 1845 | 73 | 1421 | 3133 | 5 | — | — | — | ● |
| | 1.9 | 2.5 | 1560 | 63 | 1845 | 73 | 1499 | 3305 | 5 | — | — | — | ● |
| Mass Excavation Buckets | 2.1 | 2.7 | 1735 | 68 | 1845 | 73 | 1606 | 3541 | 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 (3500 lbs/yd³)
- 1800 kg/m³ (3000 lbs/yd³)
- 1500 kg/m³ (2500 lbs/yd³)
- 1200 kg/m³ (2000 lbs/yd³)
- ∴ 900 kg/m³ (1500 lbs/yd³)
- Not Available

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side

















Load at
Maximum Reach

R2.8D STICK – 2800 mm (9'2")
BUCKET – 1.5 m³ (1.96 yd³)

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

BOOM – 6500 mm (21'4")

















|  | | 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 | kg | | | | | | | | | | | *4950 | *4950 | 7.74 |
| 7.5 m 25.0 ft | kg lb | | | | | | | *6900 *15,200 | 6050 13,350 | | | *4600 *10,200 | 4450 10,000 | 9.02 29.32 |
| 6.0 m 20.0 ft | kg lb | | | | | | | *7200 *15,700 | 5950 12,700 | | | *4500 *9900 | 3650 8150 | 9.82 32.08 |
| 4.5 m 15.0 ft | kg lb | | | *11 600 *24,850 | *11 600 *24,850 | *9050 *19,550 | 8500 18,250 | *7750 *16,850 | 5750 12,350 | 5800 12,800 | 4050 8850 | *4550 *10,000 | 3250 7150 | 10.28 33.68 |
| 3.0 m 10.0 ft | kg lb | | | *14 800 *31,700 | 12 350 26,600 | *10 550 *22,800 | 7950 17,050 | 7850 16,900 | 5500 11,800 | 5750 12,250 | 3950 8400 | 4500 9850 | 3050 6700 | 10.46 34.32 |
| 1.5 m 5.0 ft | kg lb | | | *16 650 *36,500 | 11 400 24,550 | 10 850 23,300 | 7450 16,000 | 7600 16,300 | 5250 11,250 | 5600 12,000 | 3850 8150 | 4450 9800 | 3000 6600 | 10.38 34.05 |
| Ground Line | kg lb | | | 16 850 36,150 | 11 050 23,700 | 10 500 22,550 | 7150 15,300 | 7400 15,850 | 5050 10,850 | 5500 11,800 | 3750 8000 | 4700 10,300 | 3150 6950 | 10.02 32.87 |
| -1.5 m -5.0 ft | kg lb | *11 000 *25,050 | *11 000 *25,050 | 16 800 36,000 | 11 000 23,600 | 10 350 22,250 | 7000 15,050 | 7300 15,700 | 5000 10,650 | | | 5250 11,600 | 3600 7900 | 9.36 30.66 |
| -3.0 m -10.0 ft | kg lb | *19 400 *44,050 | *19 400 *44,050 | *15 650 *33,900 | 11 150 23,950 | 10 450 22,400 | 7050 15,200 | 7350 15,850 | 5050 10,850 | | | 6450 14,300 | 4450 9850 | 8.31 27.13 |
| -4.5 m -15.0 ft | kg lb | *17 300 *37,250 | *17 300 *37,250 | *13 000 *27,850 | 11 550 24,800 | *9600 *20,300 | 7350 15,800 | | | | | *5900 *13,000 | *5900 *13,000 | 6.70 21.79 |

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

R3.9D STICK – 3900 mm (12'10")
BUCKET – 1.3 m³ (1.7 yd³)

UNDERCARRIAGE – Long
SHOES – 750 mm (30") triple grouser

BOOM – 6500 mm (21'4")

|  | 1.5 m (5.0 ft) | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | 9.0 m (30.0 ft) | |  | | m ft |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  | |
| 9.0 m 30.0 ft kg lb | | | | | | | | | | | | | *3100 *6850 | *3100 *6850 | 9.13 29.53 |
| 7.5 m 25.0 ft kg lb | | | | | | | | | | | | | *2900 *6400 | *2900 *6400 | 10.19 33.22 |
| 6.0 m 20.0 ft kg lb | | | | | | | | | *6000 *13,050 | *6000 *13,050 | *5900 *12,600 | 4500 9600 | *2850 *6250 | *2850 *6250 | 10.89 35.62 |
| 4.5 m 15.0 ft kg lb | | | | | | | | | *6700 *14,550 | *6250 13,400 | *6200 *13,550 | 4400 9400 | *2900 *6350 | 2850 6350 | 11.30 37.04 |
| 3.0 m 10.0 ft kg lb | | | | | *12 300 *26,400 | *12 300 *26,400 | *9200 *19,850 | 8600 18,500 | *7600 *16,500 | 5950 12,700 | *6700 *14,550 | 4250 9100 | *3000 *6600 | 2700 5950 | 11.46 37.61 |
| 1.5 m 5.0 ft kg lb | | | | | *15 250 *32,800 | 12 400 26,750 | *10 800 *23,300 | 8000 17,200 | *8550 *18,500 | 5600 12,000 | 6950 14,900 | 4100 8700 | *3250 *7100 | 2650 5850 | 11.39 37.37 |
| Ground Line kg lb | | | *6750 *15,400 | *6750 *15,400 | *16 900 *36,550 | 11 650 25,100 | *11 950 *25,850 | 7550 16,200 | 9100 19,550 | 5300 11,400 | 6800 14,550 | 3900 8400 | *3600 *7850 | 2750 6050 | 11.07 36.32 |
| -1.5 m -5.0 ft kg lb | *6600 *14,700 | *6600 *14,700 | *10 450 *23,700 | *10 450 *23,700 | *17 350 *37,550 | 11 350 24,400 | *12 500 *27,050 | 7300 15,600 | 8950 19,150 | 5150 11,050 | 6700 14,350 | 3850 8200 | *4100 *9050 | 3050 6650 | 10.49 34.38 |
| -3.0 m -10.0 ft kg lb | *10 800 *24,250 | *10 800 *24,250 | *15 400 *34,800 | *15 400 *34,800 | *16 800 *36,300 | 11 350 24,350 | *12 300 *26,600 | 7200 15,450 | 8900 19,050 | 5100 10,950 | 6700 14,750 | 3850 8450 | *5000 *11,050 | 3550 7900 | 9.59 31.35 |
| -4.5 m -15.0 ft kg lb | *15 800 *35,600 | *15 800 *35,600 | *21 600 *46,550 | *21 600 *46,550 | *15 150 *32,600 | 11 550 24,800 | *11 250 *24,100 | 7300 15,700 | *8400 *17,750 | 5200 11,200 | | | *6100 *13,400 | 4700 10,500 | 8.26 26.83 |
| -6.0 m -20.0 ft kg lb | | | *16 500 *35,050 | *16 500 *35,050 | *11 850 *25,100 | *11 850 *25,100 | *8450 *17,450 | 7650 16,550 | | | | | *7250 *15,900 | 6800 15,500 | 6.50 20.92 |

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

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



















Load at
Maximum Reach

R3.2D STICK – 3200 mm (10'6")
BUCKET – 1.5 m³ (2.0 yd³)

UNDERCARRIAGE – Long
SHOES – 750 mm (30") triple grouser

BOOM – 6500 mm (21'4")















|  | | 1.5 m (5.0 ft) | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | 9.0 m (30.0 ft) | |  | | m ft | |
|---|----------|---|---|---|---|---|---|---|---|--|---|---|---|---|---|------------------|----------------|
| | |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
| 9.0 m | kg | | | | | | | | | | | | | | *3900 | *3900 | 8.18 |
| 7.5 m 25.0 ft | kg lb | | | | | | | | | *6350 *13,950 | *6350 13,700 | | | | *3700 *8100 | *3700 *8100 | 9.38 30.51 |
| 6.0 m 20.0 ft | kg lb | | | | | | | | | *6700 *14,650 | *6300 13,400 | | | | *3600 *7950 | 3600 *7950 | 10.14 33.15 |
| 4.5 m 15.0 ft | kg lb | | | | | | | *8500 *18,300 | *8500 *18,300 | *7350 *15,950 | 6050 13,000 | *6750 *14,650 | 4250 9100 | | *3700 *8100 | 3200 7100 | 10.59 34.69 |
| 3.0 m 10.0 ft | kg lb | | | | | *13 800 *29,650 | *13 050 28,150 | *10 050 *21,650 | 8350 17,900 | *8200 *17,700 | 5750 12,350 | 7000 15,000 | 4150 8850 | | *3850 *8500 | 3000 6600 | 10.76 35.29 |
| 1.5 m 5.0 ft | kg lb | | | | | *16 300 *35,100 | 11 950 25,800 | *11 450 *24,700 | 7800 16,750 | *8950 *19,400 | 5500 11,750 | 6850 14,700 | 4000 8550 | | *4150 *9150 | 3000 6550 | 10.67 35.03 |
| Ground Line | kg lb | | | | *13,750 *13,750 | *17 300 *37,400 | 11 450 24,600 | *12 300 *26,650 | 7400 15,900 | 9050 19,400 | 5250 11,250 | 6750 14,450 | 3900 8300 | | *4650 *10,250 | 3100 6850 | 10.33 33.89 |
| -1.5 m -5.0 ft | kg lb | *7900 *17,600 | *7900 *17,600 | *11 600 *26,300 | *11 600 *26,300 | *17 150 *37,150 | 11 300 24,300 | *12 550 *27,100 | 7250 15,550 | 8900 19,150 | 5150 11,000 | 6700 14,750 | 3850 8450 | | *5400 *11,950 | 3450 7650 | 9.69 31.76 |
| -3.0 m -10.0 ft | kg lb | *13 300 *29,850 | *13 300 *29,850 | *18 200 *41,300 | *18 200 *41,300 | *16 100 *34,800 | 11 450 24,550 | *12 000 *25,850 | 7250 15,600 | 8950 19,200 | 5150 11,100 | | | | *6700 *14,700 | 4250 9350 | 8.70 28.41 |
| -4.5 m -15.0 ft | kg lb | | | *18 950 *40,800 | *18 950 *40,800 | *13 800 *29,700 | 11 750 25,250 | *10 300 *21,950 | 7450 16,050 | | | | | | *4700 *10,000 | *4700 *10,000 | 7.16 23.20 |

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

R2.8D STICK – 2800 mm (9'2")
BUCKET – 1.6 m³ (2.12 yd³)

UNDERCARRIAGE – Long
SHOES – 750 mm (30") triple grouser

BOOM – 6500 mm (21'4")

|  | 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 kg | | | | | | | | | | | | *4850 | *4850 | 7.77 |
| 7.5 m 25.0 ft kg lb | | | | | | | *6700 *14,700 | 6350 14,000 | | | | *4550 *10,050 | *4550 *10,050 | 9.04 29.38 |
| 6.0 m 20.0 ft kg lb | | | | | | | *7100 *15,500 | 6150 13,200 | | | | *4450 *9800 | 3800 8400 | 9.83 32.13 |
| 4.5 m 15.0 ft kg lb | | | *11 550 *24,700 | *11 550 *24,700 | *9000 *19,400 | 8800 18,900 | *7700 *16,700 | 6000 12,800 | *7050 *15,500 | 4200 9250 | *4500 *9900 | 3350 7400 | 10.29 33.72 | |
| 3.0 m 10.0 ft kg lb | | | *14 700 *31,550 | 12 800 27,650 | *10 500 *22,650 | 8250 17,700 | *8500 *18,400 | 5700 12,250 | 6950 14,900 | 4100 8750 | *4700 *10,300 | 3150 6950 | 10.47 34.34 | |
| 1.5 m 5.0 ft kg lb | | | *16 700 *36,350 | 11 850 25,550 | *11 800 *25,500 | 7750 16,650 | *9250 19,900 | 5450 11,700 | 6850 14,650 | 4000 8500 | *5000 *11,000 | 3150 6850 | 10.38 34.07 | |
| Ground Line kg lb | | | *17 500 *37,850 | 11 500 24,700 | *12 550 *27,100 | 7450 15,950 | 9050 19,450 | 5250 11,300 | 6750 14,450 | 3900 8350 | *5550 *12,200 | 3300 7250 | 10.02 32.87 | |
| -1.5 m -5.0 ft kg lb | *10 900 *24,750 | *10 900 *24,750 | *17 050 *36,900 | 11 450 24,600 | *12 550 *27,150 | 7300 15,700 | 8950 19,250 | 5200 11,150 | | | *6400 *14,100 | 3750 8200 | 9.35 30.64 | |
| -3.0 m -10.0 ft kg lb | *19 150 *43,550 | *19 150 *43,550 | *15 650 *33,900 | 11 600 24,950 | *11 750 *25,350 | 7350 15,850 | *8850 *18,850 | 5250 11,300 | | | *6650 *14,650 | 4650 10,300 | 8.30 27.09 | |
| -4.5 m -15.0 ft kg lb | *17 400 *37,400 | *17 400 *37,400 | *13 000 *27,900 | 12 000 25,800 | *9600 *20,300 | 7600 16,450 | | | | | *5800 *12,750 | *5800 *12,750 | 6.76 22.06 | |

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

Reach Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



















Load at
Maximum Reach

R3.9D STICK – 3900 mm (12'10")
BUCKET – 1.3 m³ (1.7 yd³)

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

BOOM – 6500 mm (21'4")

|  | 1.5 m (5.0 ft) | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | 9.0 m (30.0 ft) | |  | | m ft | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|----------------|----------------|
| |  |  |  |  |  |  |  |  |  |  |  |  |  |  | | |
| 9.0 m 30.0 ft | kg lb | | | | | | | | | | | | *3100 *6850 | *3100 *6850 | 9.13 29.53 | |
| 7.5 m 25.0 ft | kg lb | | | | | | | | | | | | *2900 *6400 | *2900 6400 | 10.19 33.22 | |
| 6.0 m 20.0 ft | kg lb | | | | | | | | *6000 *13,050 | *6000 *13,050 | *5900 *12,600 | 4300 9200 | *2850 *6250 | *2850 *6250 | 10.89 35.62 | |
| 4.5 m 15.0 ft | kg lb | | | | | | | | *6700 *14,550 | 6000 12,850 | 6050 12,850 | 4200 9000 | *2900 *6350 | 2700 6000 | 11.30 37.04 | |
| 3.0 m 10.0 ft | kg lb | | | | | *12 300 *26,400 | *12 300 *26,400 | *9200 *19,850 | 8250 17,800 | *7600 *16,500 | 5700 12,150 | 5850 12,500 | 4050 8650 | *3000 *6600 | 2550 5600 | 11.46 37.61 |
| 1.5 m 5.0 ft | kg lb | | | | | *15 250 *32,800 | 11 950 25,700 | *10 800 *23,300 | 7650 16,450 | 7700 16,550 | 5350 11,450 | 5650 12,100 | 3900 8250 | *3250 *7100 | 2500 5500 | 11.39 37.37 |
| Ground Line | kg lb | | | *6750 *15,400 | *6750 *15,400 | *16 900 36,550 | 11 200 24,050 | 10 600 22,750 | 7200 15,500 | 7400 15,900 | 5100 10,900 | 5500 11,800 | 3750 7950 | *3600 *7850 | 2600 5700 | 11.07 36.32 |
| -1.5 m -5.0 ft | kg lb | *6600 *14,700 | *6600 *14,700 | *10 450 *23,700 | *10 450 *23,700 | 16 700 35,750 | 10 900 23,350 | 10 300 22,150 | 6950 14,900 | 7250 15,500 | 4900 10,500 | 5400 11,600 | 3650 7750 | *4100 *9050 | 2850 6300 | 10.49 34.38 |
| -3.0 m -10.0 ft | kg lb | *10 800 *24,250 | *10 800 *24,250 | *15 400 *34,800 | *15 400 *34,800 | 16 700 35,700 | 10 850 23,300 | 10 250 21,950 | 6900 14,750 | 7200 15,400 | 4850 10,400 | 5400 11,900 | 3650 8000 | *5000 *11,050 | 3400 7500 | 9.59 31.35 |
| -4.5 m -15.0 ft | kg lb | *15 800 *35,600 | *15 800 *35,600 | *21 600 *46,550 | *21 600 *46,550 | *15 150 *32,600 | 11 050 23,750 | 10 350 22,250 | 7000 15,000 | 7300 15,700 | 4950 10,700 | | | *6100 *13,400 | 4500 10,050 | 8.26 26.83 |
| -6.0 m -20.0 ft | kg lb | | | *16 500 *35,050 | *16 500 *35,050 | *11 850 *25,100 | 11 550 24,800 | *8450 *17,450 | 7350 15,850 | | | | | *7250 *15,900 | 6550 14,850 | 6.50 20.92 |

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

R3.2D STICK – 3200 mm (10'6")
BUCKET – 1.4 m³ (1.83 yd³)

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

BOOM – 6500 mm (21'4")

| | 1.5 m (5.0 ft) | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | 9.0 m (30.0 ft) | | | | m ft | |
|--------------------|----------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|----------------|-----------------|----------------|----------------|------------------|------------------|---------------|
| | | | | | | | | | | | | | | | | |
| 9.0 m | kg | | | | | | | | | | | | *3950 | *3950 | 8.18 | |
| 7.5 m 25.0 ft | kg lb | | | | | | | | *6400 *14,050 | 6200 13,300 | | | *3700 *8200 | *3700 *8200 | 9.38 30.51 | |
| 6.0 m 20.0 ft | kg lb | | | | | | | | *6750 *14,750 | 6100 13,000 | | | *3650 *8050 | 3500 7750 | 10.14 33.15 | |
| 4.5 m 15.0 ft | kg lb | | | | | | *8550 *18,400 | *8550 *18,400 | *7400 *16,050 | 5850 12,550 | 5900 12,600 | 4100 8750 | *3750 *8200 | 3100 6800 | 10.59 34.69 | |
| 3.0 m 10.0 ft | kg lb | | | | *13 850 *29,750 | 12 600 27,200 | *10 100 *21,750 | 8050 17,300 | 7950 17,050 | 5550 11,950 | 5800 12,350 | 4000 8500 | *3900 *8550 | 2900 6350 | 10.76 35.29 | |
| 1.5 m 5.0 ft | kg lb | | | | *16 350 *35,200 | 11 500 24,800 | 10 900 23,400 | 7500 16,100 | 7650 16,350 | 5250 11,300 | 5650 12,050 | 3850 8200 | *4200 *9250 | 2850 6250 | 10.67 35.03 | |
| Ground Line | kg lb | | | *13,850 *13,850 | 16 850 36,100 | 11 000 23,650 | 10 500 22,550 | 7100 15,300 | 7400 15,850 | 5050 10,800 | 5500 11,800 | 3750 8000 | 4450 9750 | 3000 6550 | 10.33 33.89 | |
| -1.5 m -5.0 ft | kg lb | *7950 *17,700 | *7950 *17,700 | *11 700 *26,400 | *11 700 *26,400 | 16 700 35,750 | 10 850 23,350 | 10 300 22,150 | 6950 14,950 | 7250 15,600 | 4950 10,600 | 5450 12,050 | 3700 8100 | 4950 10,850 | 3350 7350 | 9.69 31.76 |
| -3.0 m -10.0 ft | kg lb | *13 400 *29,950 | *13 400 *29,950 | *18 300 *41,400 | *18 300 *41,400 | *16 100 *34,900 | 11 000 23,600 | 10 300 22,150 | 6950 14,950 | 7300 15,650 | 4950 10,650 | | | 5950 13,150 | 4050 9000 | 8.70 28.41 |
| -4.5 m -15.0 ft | kg lb | | | *19 000 *40,850 | *19 000 *40,850 | *13 850 *29,800 | 11 300 24,300 | *10 350 *22,050 | 7150 15,450 | | | | | *4700 *10,000 | *4700 *10,000 | 7.16 23.20 |

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

Mass Excavation Boom Lift Capacities



Load Point
Height



Load Radius
Over Front



Load Radius
Over Side



Load at
Maximum Reach

M2.55E STICK – 2550 mm (8'4")
BUCKET – 1.7 m³ (2.22 yd³)

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

BOOM – 6180 mm (20'3")

| | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | | | m ft |
|--------------------|----------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|----------------|------------------|----------------|----------------|
| | | | | | | | | | | | | |
| 7.5 m 25.0 ft | kg lb | | | | | | | | | *3900 *8650 | *3900 *8650 | 8.50 27.59 |
| 6.0 m 20.0 ft | kg lb | | | | | *8050 *17,450 | *8050 *17,450 | *7500 *16,300 | 5650 12,100 | *3850 *8400 | 3800 *8400 | 9.35 30.53 |
| 4.5 m 15.0 ft | kg lb | | | *11 650 *25,000 | *11 650 *25,000 | *9200 *19,850 | 8300 17,850 | 7900 16,950 | 5550 11,800 | *3900 *8550 | 3300 7350 | 9.83 32.18 |
| 3.0 m 10.0 ft | kg lb | | | *14 700 *31,500 | 12 300 26,450 | *10 600 *22,900 | 7800 16,700 | 7650 16,450 | 5300 11,350 | *4100 *8950 | 3100 6800 | 10.00 32.79 |
| 1.5 m 5.0 ft | kg lb | | | *16 800 *36,200 | 11 300 24,350 | 10 700 23,000 | 7300 15,650 | 7400 15,900 | 5050 10,850 | *4400 *9700 | 3100 6800 | 9.88 32.44 |
| Ground Line | kg lb | | | 16 750 35,900 | 10 900 23,450 | 10 350 22,250 | 7000 15,000 | 7250 15,500 | 4900 10,500 | 4950 10,900 | 3300 7250 | 9.48 31.09 |
| -1.5 m -5.0 ft | kg lb | *14 500 *32,850 | *14 500 *32,850 | 16 700 35,800 | 10 900 23,350 | 10 250 22,000 | 6900 14,800 | 7200 15,400 | 4850 10,400 | 5700 12,600 | 3850 8500 | 8.73 28.60 |
| -3.0 m -10.0 ft | kg lb | *20 450 *44,350 | *20 450 *44,350 | *15 050 *32,500 | 11 100 23,800 | 10 350 22,250 | 7000 15,000 | | | *6500 *14,250 | 5100 11,350 | 7.53 24.55 |
| -4.5 m -15.0 ft | kg lb | *15 500 *33,150 | *15 500 *33,150 | *11 650 *24,750 | 11 550 *24,750 | | | | | *8050 *17,600 | 7500 16,950 | 5.93 19.20 |

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

M2.55E STICK – 2550 mm (8'4")
BUCKET – 1.9 m³ (2.5 yd³)

UNDERCARRIAGE – Long
SHOES – 750 mm (30") triple grouser

BOOM – 6180 mm (20'3")

| | | 3.0 m (10.0 ft) | | 4.5 m (15.0 ft) | | 6.0 m (20.0 ft) | | 7.5 m (25.0 ft) | | | | m ft |
|--------------------|----------|--------------------|--------------------|--------------------|--------------------|--------------------|------------------|------------------|----------------|------------------|-----------------|----------------|
| | | | | | | | | | | | | |
| 7.5 m 25.0 ft | kg lb | | | | | | | | | *3850 *8550 | *3850 *8550 | 8.50 27.59 |
| 6.0 m 20.0 ft | kg lb | | | | | *8000 *17,350 | *8000 *17,350 | *7400 *16,200 | 5850 12,500 | *3750 *8300 | *3750 *8300 | 9.35 30.53 |
| 4.5 m 15.0 ft | kg lb | | | *11 600 *24,900 | *11 600 *24,900 | *9150 *19,750 | 8600 18,450 | *7850 *17,100 | 5750 12,250 | *3850 *8400 | 3450 7600 | 9.83 32.18 |
| 3.0 m 10.0 ft | kg lb | | | *14 650 *31,400 | 12 750 27,400 | *10 550 *22,800 | 8050 17,300 | *8550 *18,550 | 5500 11,750 | *4000 *8800 | 3200 7100 | 10.00 32.79 |
| 1.5 m 5.0 ft | kg lb | | | *16 750 *36,050 | 11 750 25,300 | *11 800 *25,450 | 7600 16,300 | 9100 19,450 | 5250 11,250 | *4350 *9600 | 3200 7050 | 9.88 32.44 |
| Ground Line | kg lb | | | *17 300 *37,450 | 11 350 24,350 | *12 400 *26,850 | 7250 15,600 | 8900 19,050 | 5100 10,900 | *4900 *10,800 | 3450 7550 | 9.48 31.09 |
| -1.5 m -5.0 ft | kg lb | *14 400 *32,700 | *14 400 *32,700 | *16 700 *36,150 | 11 300 24,300 | *12 300 *26,550 | 7150 15,400 | 8850 18,950 | 5050 10,800 | *5850 *12,900 | 4000 8850 | 8.73 28.60 |
| -3.0 m -10.0 ft | kg lb | *20 400 *44,200 | *20 400 *44,200 | *15 000 *32,400 | 11 550 24,750 | *11 150 *23,950 | 7250 15,600 | | | *6450 *14,100 | 5300 11,800 | 7.53 24.55 |
| -4.5 m -15.0 ft | kg lb | *15 450 *33,050 | *15 450 *33,050 | *11 600 *24,600 | *11 600 *24,600 | | | | | *8000 *17,450 | 7800 *17,450 | 5.93 19.20 |

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

Standard Equipment

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

Electrical

- Alternator, 70A
- Boom Lights, Right and Left Side
- Horn, Signaling/Warning
- Working Light, Frame Mounted

Operator Environment

- Bolt-on FOGS Capability
- Cab
 - Ashtray with Lighter
 - Beverage Holder
 - Bi-level Air Conditioner
 - with Auto Climate Control And Defroster
 - Coat Hook
 - Floor Mat, Washable
 - Hydraulic Neutralizer Lever for All Controls
 - Joystick Type Controls, Pilot Operated
 - Language Display Monitor with Gauges
 - Warning Messages
 - Filter/Fluid Change Information
 - Start-up Fluid Level Check for:
 - Hydraulic Oil
 - Engine Oil and Coolant
 - Working Hour Information
 - Machine Condition
 - Error Code and Tool Mode Setting Information
 - Full Time Clock
 - Light, Interior
 - Literature Holder
 - Pop-up Skylight, Polycarbonate with Sunshade
 - Positive Filtered Ventilation
 - Pressurized Cab
 - Radio Ready Cab
 - Pre-wired Mounting Areas
 - Speakers
 - 24V to 12V Converter
 - Antennae
 - Rear Window, Emergency Exit
 - Removable Lower Window with in-cab storage bracket
 - Retractable Front Windshield with Assist Device
 - Seat, Suspension Type
 - Four-way Adjustable
 - Adjustable Armrests - 95 mm (3.74") wide
 - Retractable Seatbelt - 76 mm (3.0") wide
 - Sliding Upper Door Window
 - Storage Compartment
 - Travel Control Pedals with Removable Hand Levers
 - Capability to install two additional pedals
 - Windshield Wiper with Washer, Pillar Mounted Upper
 - Windshield Split by 7:3, Front

Power Train

- Cat C9 Diesel Engine
 - Air Intake Heater
 - Air-to-air Aftercooling (ATAAC)
 - 24V Electric Starting
 - HEUI™ Fuel System
 - Tier II Emissions Package
- 2300 m (7500 ft) Altitude Capability
- Automatic Engine Speed Control
 - One Touch Low Idle
- Cooling
 - Protection of 43° C to -18° C at 50% Concentration
- Straight Line Travel
- Two Speed Auto-shift Travel
- Two 2-Micron Fuel Filters
- Water Separator in fuel line

Undercarriage

- Hydraulic Track Adjusters
- Idler and Center Section Track Guiding Guards
- Towing Eye on Baseframe
- Track-type Undercarriage with Grease Lubricated Seals
 - 600 mm (24") Triple Grouser Shoes - 330C
 - 750 mm (30") Triple Grouser Shoes - 330C L

Other Standard Equipment

- Adopt Cat data link with capability of using Cat ET
- Automatic Swing Parking Brake
- Automatic Work Modes
- Auxiliary Hydraulic Valve (one)
- Boom Drift Reducing Valve
- Boom Lowering Device for Backup
- Capability of Stackable Valve for Main Valve
 - (Maximum of Three Valves)
- Capability of Auxiliary Circuit
 - (Aux. Pump and Valves)
- Capability of Boom and Stick Lowering Control Device
- Capability of Bio using Hydraulic Oil System
- Counterweight with Lifting Eyes 6020 kg (13,300 lb)
- Door Locks and Caps Locks with One-key Security System
- Mirrors (Frame-right, Cab-left)
- Regeneration Circuit for Boom and Stick
- Reverse Swing Damping Valve
- Steel Wall between Engine and Pump Compartment
- Stick Drift Reducing Valve
- Wave Fin Radiator

Optional Equipment

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

Mandatory in Certain Countries

- Cab with Tempered Windows
 - Front Windshield, Laminated
- Monitor with Asian Language, Including:
 - English
 - Indonesian
 - Chinese
 - Thai
 - Japanese

Electrical

- Electric Refueling Pump
- Mounted Working Lights
- Power Supply, 12V-10A
 - 1 or 2 Sockets
- Travel Alarm

Hydraulic

- Auxiliary Hydraulic Lines for Booms and Sticks
- Pump Flow Controls
- 3 Auxiliary Hydraulic Arrangement Options
(*Including Boom and Stick Lines)
 - Hammer Circuit
 - Thumb Circuit
 - Combined Circuit

Operator Environment

- Bolt-on FOGS
- Cab
 - Fan
 - Hand Control Pattern Changer
 - Heater and Defroster without AC
 - Rain Protector, Cab Front
- Seat
 - High Back
 - High Back and Seat Heater
 - Headrest
- Storage Compartment with Lid
- Straight Travel Third Pedal
- Sun Visor, Windshield
- Windshield Wiper with Washer, Lower Windows
 - Polycarbonate

Power Train

- Cooling System
 - High Ambient Cooling Package (up to 52° C)
- Starting Aid
 - Cold Weather (down to -32° C)
- Water Separator Level Indicator

Undercarriage

- Sprocket Guiding Guard
- Track Guiding Guard, Full Length
- Track Options
 - 600 mm (24") Triple Grouser Shoes
 - 750 mm (30") Triple Grouser Shoes
 - 850 mm (34") Triple Grouser Shoes

Other Optional Equipment

- Air Prefilter
- Buckets
 - Side cutters and tips
- Bucket Linkage
 - D-family - Reach
 - E-family - Mass
- Drive for Auxiliary Pump
- Fine Swing Control
- Guards
 - Bottom, Heavy Duty
- Cab Top
 - Upper and Lower Front Windshield
 - Vandalism Protection
- Rubber Bumpers
- Stick and Boom Combinations:
 - Reach Boom 6.5 m (21'4")
 - Heavy Duty Reach Boom 6.5 m (21'4")
 - R3.9D 3900 mm (12'10")
 - R3.2D 3200 mm (10'6")
 - R2.8D 2800 mm (9'2")
 - R3.2D HD 3300 mm (10'10")
 - R2.8D HD 2800 mm (9'2")
 - Mass Boom 6.18 m (20'3")
 - M2.6E 2600 mm (8'6")

330C Hydraulic Excavator

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.CAT.com

© 2001 Caterpillar
Printed in U.S.A.

AEHQ5452 (10-01)

(CAPL/COFA/CCL) Replaces AEHQ5176

Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
See your Caterpillar dealer for available options.

CATERPILLAR®