308C CR

Hydraulic Excavator

Engine		
Engine Model	4M40E1	
Gross Power	41 kW	55 hp
Flywheel Power	41 kW	54 hp
Drive		
Max. Drawbar Pull	57 kN	12,810 lb

Weights		
Operating Weight	8040 kg	17,730 lb

- Equipped with 2470 mm (8'1") blade, one-piece boom, 2210 mm (7'3") stick, 600 mm (24") shoes, and 600 mm (24") bucket.

308C CR Hydraulic Excavator

The 308C CR offers a compact radius and improved performance, versatility and styling.

Compact Radius

✔ The 308C CR features a compact radius, making it ideal for working in urban construction where space is often restricted. **pg. 4**

Engine

The Mitsubishi 4M40-E1 engine delivers power and performance along with outstanding fuel efficiency and low sound levels. All engine components are designed for maximum wear resistance and durability. **pg. 5**

Hydraulics

The open-center, two-pump hydraulic system provides high efficiency and reliability. The machine's pump flow control improves fuel efficiency, ensures smooth control, reduces sound levels and extends component life. **pg. 6**

Serviceability

Longer service intervals and easier maintenance result in better machine availability and lower owning and operating costs. **pg. 11**

Increased horsepower, better controllability, extended service intervals and a redesigned operator station increase your productivity and lower your operating costs.

Front Linkage

Front linkage variations allow the use of one boom, two sticks and four bucket sizes for maximum productivity on a wide range of jobs. **pg. 7**

Undercarriage and Blade

Rugged Cat® undercarriage design and proven structural manufacturing techniques ensure outstanding durability in the toughest conditions. Blades feature replaceable and reversible cutting edges for long service life and reliability. **pg. 8**

Operator Station

An enlarged cab and new window design enhance visibility and operator comfort. The sliding door system allows easy operator access, even in tight quarters. All operator controls are designed for smooth, low-effort operation and easy reach. **pg. 10**

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. 12**

✔ *New Feature*

Compact Radius

Compact radius design delivers top performance in tight quarters.

Compact Radius Design. The 308C CR is a compact radius version of the 307C. It is designed to work in a 2850 mm (9 ft 8 in) wide area.

Shorter Tail Swing Radius. A shorter tail swing radius makes the 308C CR easier to operate against walls and in other tight areas, reducing the risk of damage to the rear of the machine during operation.

Flexibility in Tight Quarters. The shorter tail measurement allows the excavator to work productively in urban construction, on logging roads and other space-restricted sites.

Dimensions

1)	Front Swing From Center
	1665 mm (5 ft 6 in) stick – 1660 mm (5 ft 5 in)
	2210 mm (7 ft 3 in) stick – 2180 mm (7 ft 2 in)
2)	Rear Swing From Center
	1290 mm (4 ft 3 in)
3)	Overhang
	450 mm (18 in) shoes – 130 mm (5 in)
	600 mm (24 in) shoes – 55 mm (2 in)
4)	Width
	1665 mm (5 ft 6 in) Stick – 2950 mm (9 ft 8 in)
	2210 mm (7 ft 3 in) Stick – 3470 mm (11 ft 5 in)

Engine

The four-cylinder engine is built for power, reliability, economy and low emissions.

4M40-E1 Engine. The Mitsubishi 4M40-E1 engine was developed specifically for construction equipment. It features a long-stroke piston movement for high torque at medium to low speeds, excellent fuel efficiency and low sound levels and vibration.

Low Fuel Consumption. The engine offers low fuel consumption, improved thermal efficiency and reduced resistance between pistons and liners.

Cylinder Block and Head. The cylinder block is made of cast iron for improved wear resistance. The upper part is laser-hardened to reduce oil consumption, increase wear resistance and minimize piston ring scuffing. Aluminum alloy cylinder heads incorporate water directors to ensure efficient cooling.

Pistons and Rings. Heat-resistant aluminum cast alloy pistons feature clearance control struts. A short compression height results in high combustion efficiency and reduced weight. The piston ring set consists of three rings, treated for maximum wear resistance.

Crankshaft and Connecting Rod. The surface of the crankshaft journals and pins are induction-hardened to ensure high reliability. The forged connecting rods are made of a high-tensile strength steel alloy.

Cooling System. A large-diameter fan and full-length, water-cooled cylinders, combined with excellent thermal efficiency, help prevent overheating. The result is longer engine life and the ability to operate at high temperatures and under heavy loads. A mixed flow fan design provides high cooling efficiency. The core radiator is equipped with waved fins to prevent clogging.

Lubrication System. The system utilizes an external gear-type, high-efficiency oil pump. The large oil filter is composed of a main filter and a bypass filter, designed for high performance.

Starting System. The standard 308C CR has a 3.2 kW capacity starting motor, mounted at the right of the engine, and two Cat 100-AH capacity batteries. In this configuration, the machine can be started at –32° C (–25° F) with glow plugs.

Hydraulics

Hydraulics deliver power and precise control to keep material moving at high volume.

Precise Control. Hydraulics deliver smooth changes in speed and outstanding overall control.

Pilot System. Increased pilot hydraulic pressure provides better control to the front linkage, swing and travel operations.

Component Layout. The 308C CR hydraulic system was designed to provide a high level of efficiency. With all major components located close together, shorter tubes and lines are needed, resulting in less friction loss in the lines and reduced pressure drops.

Hydraulic Cross-Sensing System. The system utilizes each of the main hydraulic pumps to 100 percent of engine power under all operating conditions, resulting in faster implement speeds and pivot turns.

Flow Control System. Pump flow decreases when controls are in neutral for reduced fuel consumption and sound levels.

Stick Regeneration Circuit. Saves energy while the stick is in use, providing shorter cycle times and lower operating costs.

Boom Drift Reducing Valve. This valve reduces the natural drift of the boom, so lifted material will remain suspended for long periods with virtually no drift.

Auxiliary Hydraulic Valve. The auxiliary hydraulic valve is standard on the 308C CR for use with optional hydraulic circuits.

Stackable Valves. One stackable valve can be used in combination with the main control valve, allowing additional tools to be added.

Auxiliary Hydraulic Arrangements. For maximum flexibility, three arrangements are available on the 308C CR: single function for a dedicated hammer, double function for a thumb or a combined function circuit.

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 cylinder life.

Front Linkage

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

Front Linkage Attachments. Allows the use of one boom, two sticks and four buckets. Using these combinations makes the excavator productive in a wide range of applications.

One-Piece Boom. The one-piece boom features a fabricated box-section design. Robotic welding and high-tensile strength steel on upper, lower and side plates provide high durability and consistency.

Sticks. Two stick attachments are available: a long stick to maximize reach or a medium stick for the most versatile front linkage. Both sticks use a box-section design made of high tensile-strength steel and a buffer plate.

Linkage Bearings. A self-lubricated, sintered bearing greatly extends the greasing interval on front linkage pins by reducing pin friction. Greasing intervals on the bucket swing pin connection are also extended using a mesh bearing design.

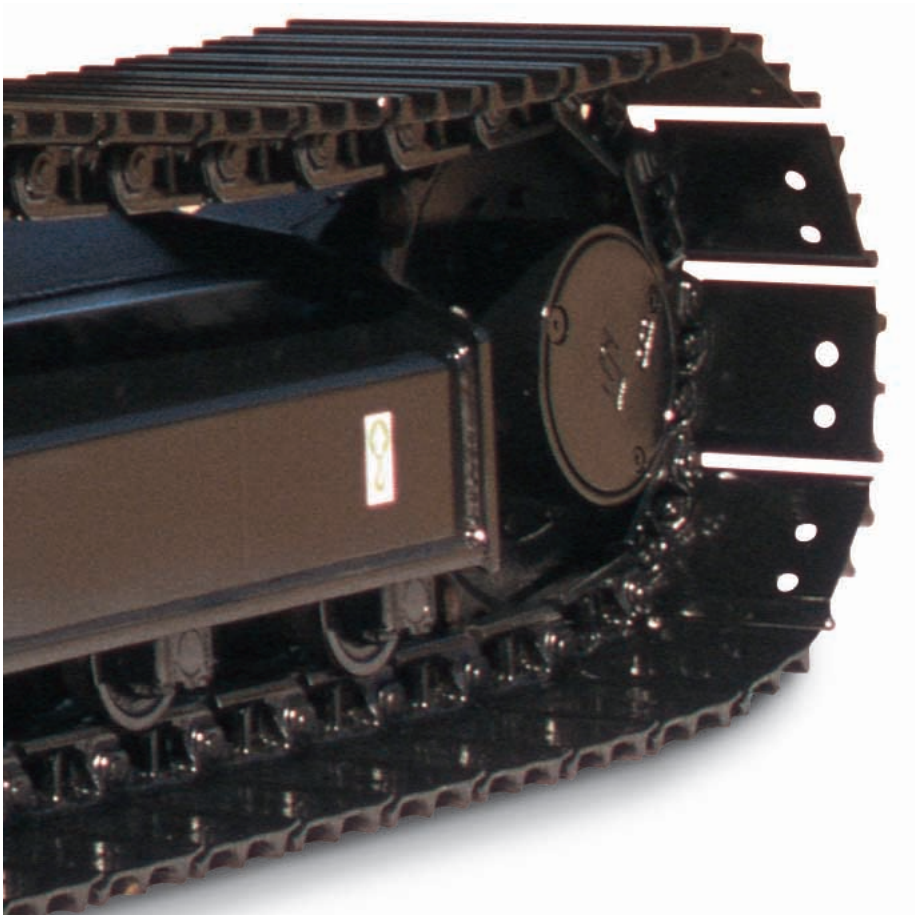
Linkage Pins. Linkage pins are used with high-stress parts such as at the boom foot and boom cylinders. They feature a thick chrome finish to maximize durability. The 308C CR pin diameters are the same as on the 307C, except for boom cylinder-frame pin size.

Buckets. High-tensile-strength steel is used in high-stress areas for excellent wear and shock resistance. The side plates are tapered to prevent contact of the bucket sidewalls during trenching operations. All four bucket sizes have a general-purpose design and share a common side profile.

Bucket-Flop Adjustment Mechanism. Allows the operator or service person to reduce the side play at the bucket to stick-nose connection. This attachment is only available when Cat buckets are ordered.

Undercarriage and Blade

Durable undercarriage absorbs stresses and provides excellent stability.



Undercarriage Design. The 308C CR uses a standard undercarriage with the same basic design as the 307C, ensuring high reliability.

Grease-Lubricated Track. Grease-lubricated seals protect the track link and provide longer wear life by helping to keep dirt and debris from entering the pin and bushing joint.

Roller Lubrication. All rollers, sprockets and idler joints are closed with floating seals. Lubricating oil from the seals prevents water and dirt from entering. The seals also make lubrication maintenance-free.

Master Pin. The standard master pin is the split-pin type, which makes track attachment and removal easier.

Carbody and Track Roller Frame. X-shaped, box-section carbody provides high rigidity and excellent resistance to torsional bending. The track frame is made from a press-formed pentagonal section for maximum strength and long service life. The carbody and track roller frames use robotic welding to ensure continuous, high-quality welds. Long welds contribute to smoother transition of loads and increased durability.

Travel Motors. Automatic speed selection enables the machine to automatically shift up and down from high and low speeds in a smooth, controlled manner. An “anti-hunt” feature eliminates the hunting often associated with auto shifting when operating near the shift point.

Travel Motor Routing. The travel motors are routed along the rear of the carbody, protecting the lines from damage.

Travel Brake Valves. An improved counterbalance valve eliminates sudden starts and stops during travel. A cross-over relief valve helps reduce shocks during acceleration and deceleration and decreases wear on the travel motors.

Idler Guard. An idler guard is integral to the track roller frame. This standard guard helps maintain track alignment while traveling or working on slopes.

Triple Grouser Shoes with Rubber Pads. The 308C CR standard shoe has four extra holes for installation of steel-backed rubber street pads. Optional rubber pads are attached to the track shoes, eliminating potential damage to paved road surfaces. (Pads are installed by your local Caterpillar® dealer or can be purchased through the dealer for later installation.)

Segment-type Rubber Track. Optional segment-type rubber track prevents damage to concrete and other road surfaces, especially in urban areas.

Blades. Two blade widths are available as attachments. The bolt-on cutting edge consists of three pieces, which can be reused by turning them upside down. Replaceable bolt-on edges protect the blade from damage and wear. Mesh bearings in the pin joints of the blade cylinder extend the greasing interval.

Operator Station

Designed for simple, easy operation, the 308C CR allows the operator to focus on production.

Cab Design. An enlarged cab with curved styling gives the operator a comfortable, spacious working environment and improved visibility.

Seat. The low-back seat slides forward and backward independent of the consoles, so it can be adjusted to the operator's comfort level.

Sliding Door. The cab door slides alongside the cab and takes less space to open and close than a hinged door. This unique design allows the operator to easily get in and out of the cab when working against walls on job sites, even when attachments are added.

Consoles. Redesigned consoles feature a simple, functional design. Both consoles have attached adjustable armrests and slide forward and backward.

Monitor. The conveniently located compact monitor displays instrument panel gauges and indicators in an easy-to-read and understand format.

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.

Travel Control Levers. The two travel control levers have a reverse-L shape, making them easier to operate. Lever stroke and force have been adjusted to improve fine control and to prevent jolting during machine impact.

Hydraulic Activation Control Lever. For added safety, this lever must be in the locked position before the operator can leave the cab. This feature prevents the machine from operating without the operator in the cab.

Climate Control. Fully automatic climate control adjusts temperature and flow.

Windows. Window glass is attached directly to the window frame with adhesive to improve visibility. To protect the operator from falling objects, the upper front window is made of laminated glass. An enlarged skylight with sunshade improves overhead visibility.

Windshield. The front windshield can be opened and closed using a one-touch action release system and autolock system.

Serviceability

Simplified service and maintenance save you time and money.

Extended Service Intervals. Extended service and maintenance intervals reduce service time and machine availability. Use of oil-free bearing extends front linkage greasing interval to 1,000 hours, except in bucket area.

Ground-Level Maintenance. For operator convenience, all daily maintenance areas can be easily reached from ground level.

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

DT Electrical Connectors. Connectors are water- and vibration-resistant, improving electrical system reliability.

Radiator and Pump Compartment. Opening the engine hood allows easy access to the engine radiator and the oil cooler. A reserve tank and drain cock are attached to the radiator to simplify maintenance.

Air Filter. Cat radial seal provides superior cleaning efficiency.

Engine Inspection. The engine can be accessed from the upper structure or from under the machine. The engine hood incorporates a gas cylinder-assist mechanism, making the hood easy to open. A steel wall separates the engine and pump compartments, preventing hydraulic oil from spraying on the engine in the event of a hydraulic line failure.

Engine Maintenance. To make daily servicing easier, the oil level gauge, oil filter, fuel filter and priming pump are grouped on the left side of the engine.

Fuel Tank. A drain cock is installed at the bottom of the tank, making it easier to remove water and sediment during maintenance.

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

Storage Box. The storage box is located at the right front of the upper structure and can be locked. Tools and other repair equipment can be stored in this space.

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, machine attachments and operating hours? What production is needed? What is the true cost of lost production? Your Cat dealer can give precise answers to these questions.

Purchase. Look past the initial price; look at the value the 308C CR offers. Consider the resale value and compare productivity and day-to-day operating costs. Consult your local Cat dealer for financing options.

Operation. For the best operating techniques to increase productivity and your profit, turn to your Cat dealer for the latest training literature and trained staff.

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 downtime. You can save money with Cat remanufactured components.

Warranty. Your local Cat dealer is there to support and protect you. Extended warranty options are also available.

Engine

Engine Model	4M40E1	
Gross Power	41 kW	55 hp
Flywheel Power	41 kW	54 hp
ISO 9249	41 kW	54 hp
SAE J1349	41 kW	54 hp
EEC 80/1269	41 kW	54 hp
Bore	95 mm	3.7 in
Stroke	100 mm	4 in
Displacement	2.84 L	173 in^3

Weights

Operating Weight	8040 kg	17,730 lb

- Equipped with 2470 mm (8'1") blade, one-piece boom, 2210 mm (7'3") stick, 600 mm (24") shoes, and 600 mm (24") bucket.

Swing Mechanism

Swing Torque	16 000 N•m	11,800 lb ft
Swing Speed	11.5 rpm	

Drive

Max. Drawbar Pull	57 kN	12,810 lb
Travel Speed	5.3 kph	3.3 mph

Hydraulic System

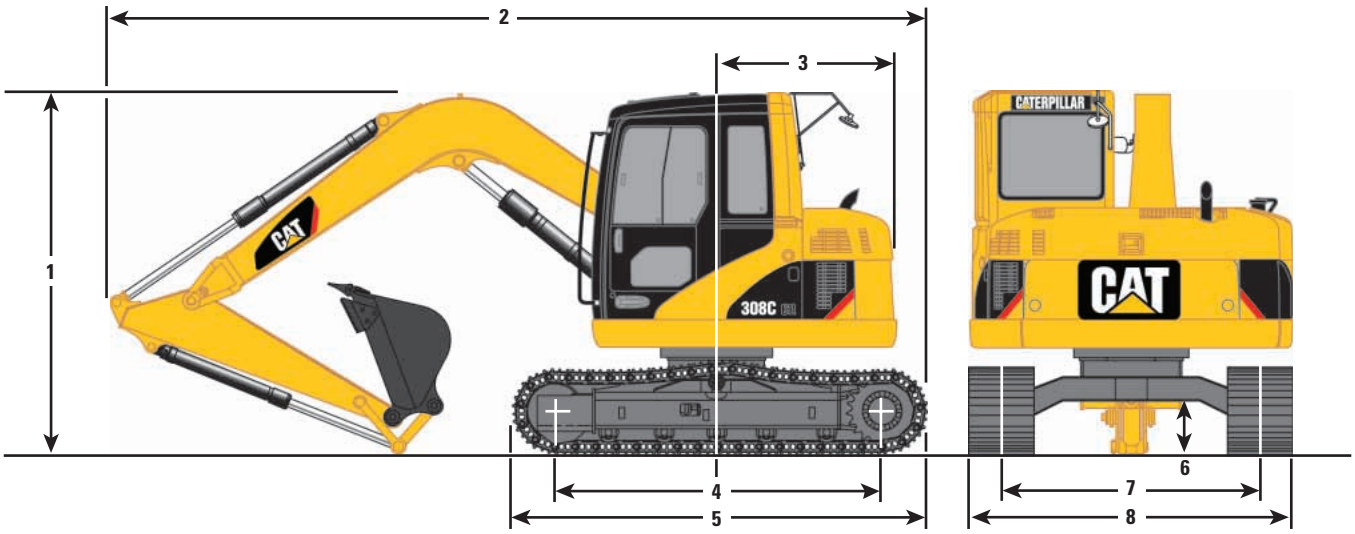
Main Implement System – Max. Flow (2x)	64 L/min	17 gal/min
Max. Pressure – Implements	27 460 kPa	3,980 psi
Max. Pressure – Travel	31 380 kPa	4,550 psi
Max Pressure – Swing	24 030 kPa	3,480 psi
Pilot System – Max. Flow	18.7 L/min	4.9 gal/min
Pilot System – Max. Pressure	4120 kPa	597 psi
Blade – Max. Flow	34 L/min	9 gal/min
Blade System – Max Pressure	20 600 kPa	2,990 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	985 mm	38.8 in
Stick Cylinder – Bore	90 mm	3.5 in
Stick Cylinder – Stroke	932 mm	36.7 in
Bucket Cylinder – Bore	80 mm	3.1 in
Bucket Cylinder – Stroke	742 mm	29.2 in

Service Refill Capacities

Fuel Tank	115 L	30.4 gal
Cooling System	15 L	4 gal
Engine Oil	10 L	2.6 gal
Swing Drive	1.5 L	0.4 gal
Final Drive (Each)	1.3 L	0.34 gal
Hydraulic System (Including Tank)	92 L	24.3 gal
Hydraulic Tank	55 L	14.5 gal

Dimensions

All dimensions are approximate.



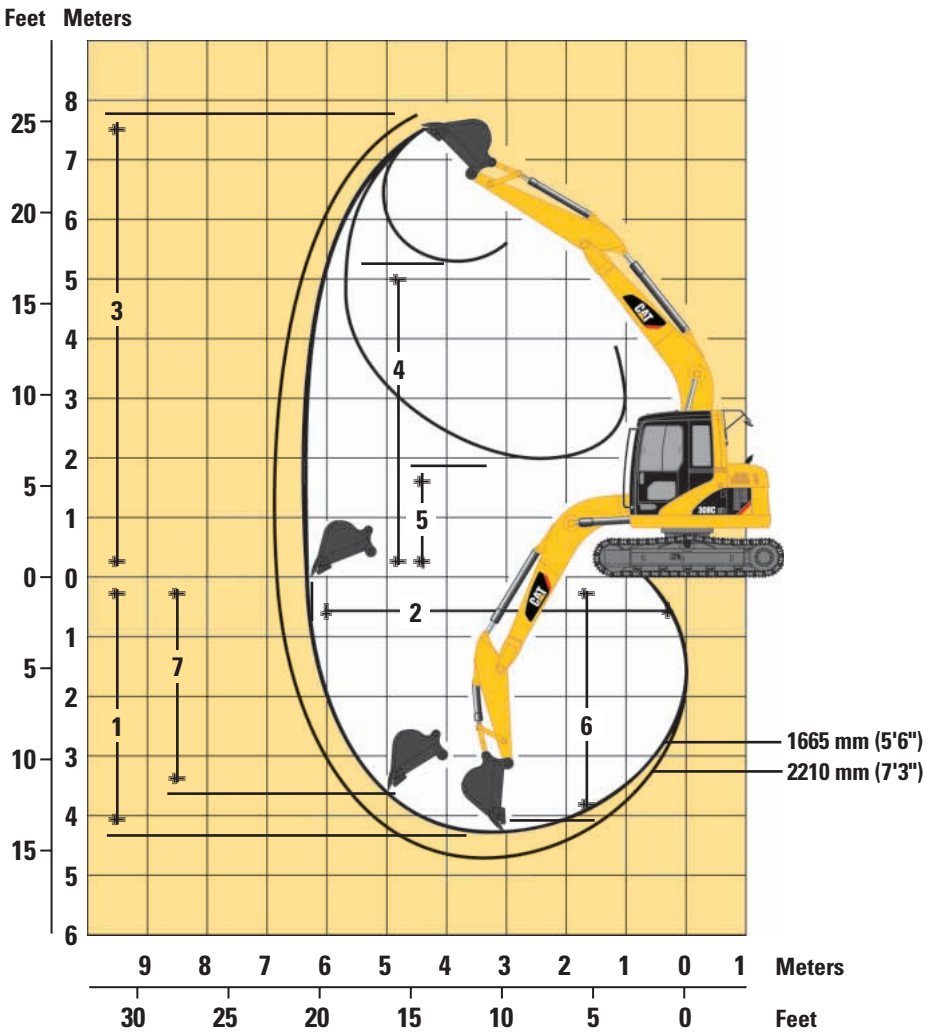
Boom 3.7 m (12'2")	1665 mm (5'6") Stick	2210 mm (7'3") Stick
1 Shipping height	2610 mm (8'7")	2740 mm (9'0")
2 Shipping length	5830 mm (19'2")	5850 mm (19'2")
3 Tail swing radius	1290 mm (4'3")	1290 mm (4'3")
4 Length to centers of rollers	2280 mm (7'6")	2280 mm (7'6")
5 Track length	2910 mm (9'7")	2910 mm (9'7")
6 Ground clearance	384 mm (15")	384 mm (15")
7 Track gauge	1870 mm (6'2")	1870 mm (6'2")
8 Transport width		
450 mm (18") shoes	2320 mm (7'7")	2320 mm (7'7")
600 mm (24") shoes	2470 mm (8'1")	2470 mm (8'1")

Operating Weights

Caterpillar designed and built track-type undercarriage.

Track width	Operating Weight (medium stick)		Operating Weight (long stick)	
standard 450 mm (18") triple grouser	7430 kg	(16,370 lb)	7470 kg	(16,470 lb)
optional 600 mm (24") triple grouser	7600 kg	(16,760 lb)	7650 kg	(16,860 lb)
2320 mm Blade: add	380 kg	(850 lb)		
2470 mm Blade: add			390 kg	(870 lb)
With 450 mm (18") Segmented Rubber Track: add	23 kg	(100 lb)		

Working Ranges



Stick Length	1665 mm (5'6")	2210 mm (7'3")
1 Maximum Digging Depth	4140 mm (13'7")	4690 mm (15'5")
2 Maximum Reach at Ground Level	6250 mm (20'6")	6770 mm (22'3")
3 Maximum Cutting Height	7390 mm (24'3")	7810 mm (25'7")
4 Maximum Loading Height	5250 mm (17'3")	5670 mm (18'7")
5 Minimum Loading Height	2400 mm (7'10")	2060 mm (6'9")
6 Maximum Depth Cut for 2440 mm (8') Level Bottom	3800 mm (12'6")	4380 mm (14'4")
7 Maximum Vertical Wall Digging Depth	3600 mm (11'10")	4120 mm (13'6")
Minimum Front Swing Radius	1660 mm (5'5")	2180 mm (7'2")
Stick Digging Force (SAE)	35 kN (7850 lb)	31 kN (6880 lb)
Bucket Digging Force (SAE)	44 kN (9820 lb)	44 kN (9840 lb)

Buckets

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

				Recommended Maximum Material Density			
Width		Capacity		Medium Stick		Long Stick	
mm	in	m^3	yd^3	kg/m^3	lbs/yd^3	kg/m^3	lbs/yd^3
460	18	0.15	0.2	1800	3000	1800	3000
610	24	0.23	0.3	1800	3000	1800	3000
760	30	0.31	0.4	1800	3000	1500	2500
910	36	0.34	0.45	1500	2500	1200	2000

Undercarriage

Caterpillar designed and built track-type undercarriage.

Track width	(with triple grouser shoes)	Ground Pressure (Average)
standard	450 mm (18") triple grouser	32.4 kPa (4.70 psi)
optional	600 mm (24") triple grouser	24.9 kPa (3.61 psi)
	450 mm (18") segmented rubber track	32.6 kPa (4.73 psi)

Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

1.67 STICK – 1665 mm (5'6")
BUCKET – 750 mm (30")

UNDERCARRIAGE – Standard
SHOES – 450 mm (18") triple grouser

BOOM – 3700 mm (12'2")
BLADE – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*750 ***1650***	*750 ***1650***	3.80 **11.95**
4.5 m **15.0 ft**	kg **lb**			*2050 ***4500***	*2050 ***4500***			*600 ***1350***	*600 ***1350***	5.32 **17.29**
3.0 m **10.0 ft**	kg **lb**			*2600 ***5600***	*2600 ***5600***	1650 **3550**	1350 **2850**	*600 ***1300***	*600 ***1300***	5.98 **19.58**
1.5 m **5.0 ft**	kg **lb**			3100 **6600**	2400 **5200**	1600 **3400**	1300 **2700**	*650 ***1350***	*650 ***1350***	6.13 **20.11**
Ground Line	kg **lb**			2900 **6250**	2250 **4850**	1550 **3250**	1200 **2600**	*750 ***1600***	*750 ***1600***	5.82 **19.08**
–1.5 m **–5.0 ft**	kg **lb**	*3900 ***8750***	*3900 ***8750***	2900 **6200**	2250 **4800**	1500 **3250**	1200 **2550**	*1000 ***2150***	*1000 ***2150***	4.95 **16.16**
–3.0 m **–10.0 ft**	kg **lb**			*1600 ***3150***	*1600 ***3150***			*1300 ***2750***	*1300 ***2750***	3.26 **10.48**

* 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.

1.67 STICK – 1665 mm (5'6")
BUCKET – 750 mm (30")

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

BOOM – 3700 mm (12'2")
BLADE – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*750 ***1650***	*750 ***1650***	3.80 **11.95**
4.5 m **15.0 ft**	kg **lb**			*2050 ***4500***	*2050 ***4500***			*600 ***1350***	*600 ***1350***	5.32 **17.29**
3.0 m **10.0 ft**	kg **lb**			*2600 ***5600***	*2600 ***5600***	1700 **3650**	1400 **2950**	*600 ***1300***	*600 ***1300***	5.98 **19.58**
1.5 m **5.0 ft**	kg **lb**			3150 **6800**	2500 **5300**	1650 **3500**	1300 **2800**	*650 ***1300***	*650 ***1350***	6.13 **20.11**
Ground Line	kg **lb**			3000 **6400**	2300 **4950**	1550 **3350**	1250 **2650**	*750 ***1600***	*750 ***1600***	5.82 **19.08**
–1.5 m **–5.0 ft**	kg **lb**	*3900 ***8750***	*3900 ***8750***	3000 **6350**	2300 **4900**	1550 **3350**	1250 **2650**	*1000 ***2150***	*1000 ***2150***	4.95 **16.16**
–3.0 m **–10.0 ft**	kg **lb**			*1600 ***3150***	*1600 ***3150***			*1300 ***2750***	*1300 ***2750***	3.26 **10.48**

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Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.21 STICK – 2210 mm (7'3")
BUCKET – 600 mm (24")

UNDERCARRIAGE – Standard
SHOES – 450 mm (18") triple grouser

BOOM – 3700 mm (12'2")
BLADE – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*800 ***1750**	*800 ***1750**	4.66 **14.89**
4.5 m **15.0 ft**	kg **lb**					*1650 ***3450**	1400 **3000**	*700 ***1500**	*700 ***1500**	5.91 **19.26**
3.0 m **10.0 ft**	kg **lb**			*2200 ***4750**	*2200 ***4750**	1700 **3600**	1350 **2900**	*650 ***1450**	*650 ***1450**	6.50 **21.30**
1.5 m **5.0 ft**	kg **lb**			*3100 ***6650**	2500 **5300**	1600 **3400**	1300 **2750**	*700 ***1500**	650 **1450**	6.64 **21.78**
Ground Line	kg **lb**			2900 **6200**	2250 **4800**	1500 **3250**	1200 **2550**	*800 ***1750**	700 **1500**	6.36 **20.85**
–1.5 m **–5.0 ft**	kg **lb**	*3150 ***7100**	*3150 ***7100**	2850 **6050**	2200 **4650**	1500 **3150**	1150 **2450**	*1000 ***2250**	850 **1850**	5.59 **18.28**
–3.0 m **–10.0 ft**	kg **lb**	*3800 ***8100**	*3800 ***8100**	*2300 ***4900**	2250 **4800**			*850 ***1800**	*850 ***1800**	4.01 **12.92**

* 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.

2.21 STICK – 2210 mm (7'3")
BUCKET – 600 mm (24")

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

BOOM – 3700 mm (12'2")
BLADE – Up (or Without Blade)

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*800 ***1750**	*800 ***1750**	4.66 **14.89**
4.5 m **15.0 ft**	kg **lb**					*1650 ***3450**	1450 **3100**	*700 ***1500**	*700 ***1500**	5.91 **19.26**
3.0 m **10.0 ft**	kg **lb**			*2200 ***4750**	*2200 ***4750**	1750 **3700**	1400 **3000**	*650 ***1450**	*650 ***1450**	6.50 **21.30**
1.5 m **5.0 ft**	kg **lb**			*3100 ***6650**	2550 **5450**	1650 **3500**	1300 **2800**	*700 ***1500**	700 **1500**	6.64 **21.78**
Ground Line	kg **lb**			3000 **6400**	2300 **4950**	1550 **3350**	1250 **2650**	*800 ***1750**	700 **1550**	6.36 **20.85**
–1.5 m **–5.0 ft**	kg **lb**	*3150 ***7100**	*3150 ***7100**	2900 **6250**	2250 **4800**	1500 **3250**	1200 **2550**	*1000 ***2250**	900 **1900**	5.59 **18.28**
–3.0 m **–10.0 ft**	kg **lb**	*3800 ***8100**	*3800 ***8100**	*2300 ***4900**	2300 ***4900**			*850 ***1800**	*850 ***1800**	4.01 **12.92**

* 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 at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

1.67 STICK – 1665 mm (5'6")
BUCKET – 750 mm (30")

UNDERCARRIAGE – Standard
SHOES – 450 mm (18") triple grouser

BOOM – 3700 mm (12'2")
BLADE – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*750 ***1650***	*750 ***1650***	3.80 **11.95**
4.5 m **15.0 ft**	kg **lb**			*2050 ***4500***	*2050 ***4500***			*600 ***1350***	*600 ***1350***	5.32 **17.29**
3.0 m **10.0 ft**	kg **lb**			*2600 ***5600***	*2600 ***5600***	*2000 ***4350***	1550 **3300**	*600 ***1300***	*600 ***1300***	5.98 **19.58**
1.5 m **5.0 ft**	kg **lb**			*3400 ***7300***	2800 **6000**	*2250 ***4800***	1450 **3150**	*650 ***1350***	*650 ***1350***	6.13 **20.11**
Ground Line	kg **lb**			*3600 ***7800***	2650 **5650**	*2300 ***4950***	1400 **3000**	*750 ***1600***	*750 ***1600***	5.82 **19.08**
–1.5 m **–5.0 ft**	kg **lb**	*3900 ***8750***	*3900 ***8750***	*3150 ***6750***	2600 **5600**	*1900 ***4000***	1400 **3000**	*1000 ***2150***	*1000 ***2150***	4.95 **16.16**
–3.0 m **–10.0 ft**	kg **lb**			*1600 ***3150***	*1600 ***3150***			*1300 ***2750***	*1300 ***2750***	3.26 **10.48**

* 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.

1.67 STICK – 1665 mm (5'6")
BUCKET – 750 mm (30")

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

BOOM – 3700 mm (12'2")
BLADE – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*750 ***1650***	*750 ***1650***	3.80 **11.95**
4.5 m **15.0 ft**	kg **lb**			*2050 ***4500***	*2050 ***4500***			*600 ***1350***	*600 ***1350***	5.32 **17.29**
3.0 m **10.0 ft**	kg **lb**			*2600 ***5600***	*2600 ***5600***	*2000 ***4350***	1650 **3550**	*600 ***1300***	*600 ***1300***	5.98 **19.58**
1.5 m **5.0 ft**	kg **lb**			*3400 ***7300***	3000 **6500**	*2250 ***4800***	1600 **3400**	*650 ***1350***	*650 ***1350***	6.13 **20.11**
Ground Line	kg **lb**			*3600 ***7800***	2850 **6100**	*2300 ***4950***	1500 **3250**	*750 ***1600***	*750 ***1600***	5.82 **19.08**
–1.5 m **–5.0 ft**	kg **lb**	*3900 ***8750***	*3900 ***8750***	*3150 ***6750***	2850 **6050**	*1900 ***4000***	1500 **3200**	*1000 ***2150***	*1000 ***2150***	4.95 **16.16**
–3.0 m **–10.0 ft**	kg **lb**			*1600 ***3150***	*1600 ***3150***			*1300 ***2750***	*1300 ***2750***	3.26 **10.48**

* 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 at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

2.21 STICK – 2210 mm (7'3")
BUCKET – 600 mm (24")

UNDERCARRIAGE – Standard
SHOES – 450 mm (18") triple grouser

BOOM – 3700 mm (12'2")
BLADE – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*800 ***1750**	*800 ***1750**	4.66 **14.89**
4.5 m **15.0 ft**	kg **lb**					*1650 ***3450**	1600 **3450**	*700 ***1500**	*700 ***1500**	5.91 **19.26**
3.0 m **10.0 ft**	kg **lb**			*2200 ***4750**	*2200 ***4750**	*1800 ***3900**	1550 **3350**	*650 ***1450**	*650 ***1450**	6.50 **21.30**
1.5 m **5.0 ft**	kg **lb**			*3100 ***6650**	2850 **6150**	*2100 ***4500**	1500 **3150**	*700 ***1500**	*700 ***1500**	6.64 **21.78**
Ground Line	kg **lb**			*3550 ***7700**	2650 **5650**	*2300 ***4900**	1400 **2950**	*800 ***1750**	*800 ***1750**	6.36 **20.85**
–1.5 m **–5.0 ft**	kg **lb**	*3150 ***7100**	*3150 ***7100**	*3350 ***7200**	2550 **5500**	*2100 ***4550**	1350 **2900**	*1000 ***2250**	1000 **2200**	5.59 **18.28**
–3.0 m **–10.0 ft**	kg **lb**	*3800 ***8100**	*3800 ***8100**	*2300 ***4900**	*2300 ***4900**			*850 ***1800**	*850 ***1800**	4.01 **12.92**

* 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.

2.21 STICK – 2210 mm (7'3")
BUCKET – 600 mm (24")

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

BOOM – 3700 mm (12'2")
BLADE – Down

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)				
										m ft
6.0 m **20.0 ft**	kg **lb**							*800 ***1750**	*800 ***1750**	4.66 **14.89**
4.5 m **15.0 ft**	kg **lb**					*1650 ***3450**	*1650 ***3450**	*700 ***1500**	*700 ***1500**	5.91 **19.26**
3.0 m **10.0 ft**	kg **lb**			*2200 ***4750**	*2200 ***4750**	*1800 ***3900**	1700 **3600**	*650 ***1450**	*650 ***1450**	6.50 **21.30**
1.5 m **5.0 ft**	kg **lb**			*3100 ***6650**	3100 **6600**	*2100 ***4500**	1600 **3400**	*700 ***1500**	*700 ***1500**	6.64 **21.78**
Ground Line	kg **lb**			*3550 ***7700**	2850 **6100**	*2300 ***4900**	1500 **3200**	*800 ***1750**	*800 ***1750**	6.36 **20.85**
–1.5 m **–5.0 ft**	kg **lb**	*3150 ***7100**	*3150 ***7100**	*3350 ***7200**	2800 **5950**	*2100 ***4550**	1450 **3150**	*1000 ***2250**	*1000 ***2250**	5.59 **18.28**
–3.0 m **–10.0 ft**	kg **lb**	*3800 ***8100**	*3800 ***8100**	*2300 ***4900**	*2300 ***4900**			*850 ***1800**	*850 ***1800**	4.01 **12.92**

* 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.

Standard Equipment

Alternator, 35 amp
Automatic swing parking brake
Auxiliary hydraulic valve
Batteries, heavy-duty
Cab:
- Air conditioner with defroster
- AM/FM radio
- Ash tray
- Beverage holder
- Coat hook
- Floor mat
- Horn
- Instrument panel and gauges
- Joysticks, pilot-operated
- KAB T1P seat with adjustable armrest, without head rest
- Lighting, interior
- Literature compartment
- Neutral lever (lockout) for all controls
- Openable front windshield
- Openable skylight
- Pillar mounted windshield wiper and washer
- Rear window emergency exit
- Seat belt
- Travel control pedals with hand levers
- Utility space for magazines

Door and caps lock with one-key security system
Mirrors (cab rear and left)
Power Train:
- MMC 4M40 Diesel engine
- 24-volt electric starting
- One touch low idle
- Cooling system
- Water separator
- Two speed auto-shift travel
- Straight line travel
- Muffler

Reverse swing damping valve
Undercarriage:
- Hydraulic track adjusters
- Track-type undercarriage with grease lubricated seals
- Idler end track guiding guards
- 450 mm (18") triple grouser shoes with additional holes for mounting rubber street pads

Working light, chassis mounted

Optional Equipment

Auxiliary hydraulic lines for sticks and boom
Blade, 2320 mm (7'7"), for use with 450 mm (18") steel or segment rubber track
Blade, 2470 mm (8'1"), for use with 600 mm (24") track
Buckets
Bucket linkage
Cab mounted working lights
Coolant, extended life –50° C (–58° F)
Front windshield guard
Hand control pattern changer
Hydraulic arrangements, auxiliary:
- single-function capability
- double-function capability
- combined single and double function capability

Power supply 12V-5A (cigar lighter type)
Right-side boom lights
Sidecutters
Stick and boom combinations:
- 3.7 m (12'2") boom with left side light
- 2.21 m (7'3") stick
- 1.67 m (5'6") stick

Track:
- 600 mm (24") triple grouser
- 450 mm (18") segment rubber track

Travel alarm (mandatory in certain countries)
Vandalism guard

Notes

308C CR Hydraulic Excavator

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