Cat®
308 CR

Mini Hydraulic Excavator

Features:

The Cat® 308 CR Mini Excavator delivers maximum power and performance in a mini size to help you work in a wide range of applications.

ALL DAY COMFORT

- A sealed and pressurized cab is equipped with an improved air conditioning system, adjustable wrist rests and a suspension seat to help keep you working comfortably all day long.

EASY TO OPERATE

- Controls are easy to use and the intuitive Next Generation Monitor provides customizable machine operator preferences and easy to read machine information.

STICK STEER TRAVEL MODE

- Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with a push of a button. The benefit of less effort and improved control is in your hands!

BIG PERFORMANCE IN A MINI DESIGN

- Increased lifting, swinging, travel and multi-functioning performance help you get the job done more efficiently, and dig-to-blade allows for easy clean up.

SAFETY ON THE JOB SITE

- Your safety is our top priority. The Cat Mini Excavator is designed to help keep you safe on the job. A back-up camera, courtesy work lights and a fluorescent retractable seat belt are just a few of the safety features we've built into the machine.

SIMPLE SERVICE FOR LESS DOWNTIME

- Maintenance is quick and easy on the Cat Mini Excavator. Routine check points are easy to access at ground level with grouped service points and robust service panels.

LOWER OPERATING COSTS

- Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat Mini Excavator was designed with reducing your operating costs in mind.

UNMATCHED DEALER SUPPORT

- Your Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.

Specifications

Engine

Engine Model	Cat C3.3B	
Rated Net Power @ 2,200 rpm		
U.S. EPA Tier 4 Final	52.4 kW	70.3 hp
EU Stage V	53.3 kW	71.5 hp
ISO 9249/EEC 80/1269		
Gross Power		
ISO 14396	55.4 kW	74.3 hp
Bore	94 mm	3.7 in
Stroke	120 mm	4.7 in
Displacement	3.33 L	203 in^3

Weights

Minimum Operating Weight with Cab*	8146 kg	17,960 lb
Maximum Operating Weight with Cab**	9380 kg	20,678 lb

*Minimum Weight is based on rubber tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.

**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

Weight Increase from Minimum Configuration

Counterweight	250 kg	552 lb
Long Stick	66 kg	146 lb
Steel Tracks with Pads	645 kg	1,422 lb

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Travel System

Travel Speed – High	5.1 km/h	3.2 mph
Travel Speed – Low	3.1 km/h	1.9 mph
Maximum Traction Force – High Speed	27.8 kN	6,250 lbf
Maximum Traction Force – Low Speed	67.5 kN	15,175 lbf
Ground Pressure – Minimum Weight	35.36 kPa	5 psi
Ground Pressure – Maximum Weight	40.72 kPa	6 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

Cooling System	10.0 L	2.6 gal
Engine Oil	11.2 L	3.0 gal
Fuel Tank	147 L	39 gal
Hydraulic Tank	53 L	14 gal
Hydraulic System	104 L	27 gal

Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump		
Pump Flow @ 2,400 rpm	167 L/min	44 gal/min
Operating Pressure – Equipment	285 bar	4,134 psi
Operating Pressure – Travel	285 bar	4,134 psi
Operating Pressure – Swing	250 bar	3,626 psi
Auxiliary Circuit – Primary		
Flow	131 L/min	35 gal/min
Pressure	285 bar	4,134 psi
Auxiliary Circuit – Secondary		
Flow	33 L/min	9 gal/min
Pressure	285 bar	4,134 psi
Digging Force – Stick (Standard)	42.3 kN	9,509 lbf
Digging Force – Stick (Long)	35.7 kN	8,032 lbf
Digging Force – Bucket	62.0 kN	13,946 lbf

Swing System

Machine Swing Speed	10.6 rpm

Blade

Width (Standard)	2300 mm	90.6 in
Width (Wide)	2450 mm	96.5 in
Height	431 mm	17 in

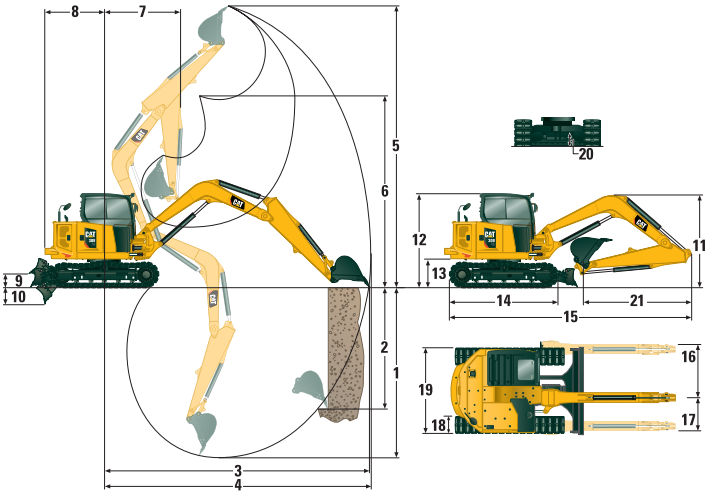
Certification – Cab

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Tip Over Protective Structure (TOPS)	ISO 12117:1997
Top Guard	ISO 10262:1998 (Level II)

Sound

Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)

• European Union Directive "2000/14/EC"



Dimensions

		Standard Stick	Long Stick
1	Dig Depth	4109 mm (161.8 in)	4644 mm (182.8 in)
2	Vertical Wall	2992 mm (117.8 in)	3405 mm (134.1 in)
3	Maximum Reach at Ground Level	6949 mm (273.6 in)	7461 mm (293.7 in)
4	Maximum Reach	7141 mm (281.1 in)	7637 mm (300.7 in)
5	Maximum Dig Height	6735 mm (265.2 in)	7038 mm (277.1 in)
6	Maximum Dump Clearance	4759 mm (187.4 in)	5071 mm (199.6 in)
7	Boom in Reach	3059 mm (120.4 in)	3215 mm (126.6 in)
8	Tail Swing with Counterweight	1645 mm (64.8 in)	1645 mm (64.8 in)
	Tail Swing without Counterweight	1450 mm (57.1 in)	1450 mm (57.1 in)
9	Maximum Blade Height	369 mm (14.5 in)	369 mm (14.5 in)
10	Maximum Blade Depth	408 mm (16.1 in)	408 mm (16.1 in)
11	Transport Height	2487 mm (97.9 in)	2522 mm (99.3 in)
12	Cab Height	2520 mm (99.2 in)	2520 mm (99.2 in)
13	Swing Bearing Height	735 mm (28.9 in)	735 mm (28.9 in)
14	Overall Undercarriage Length	2892 mm (113.9 in)	2892 mm (113.9 in)
15	Overall Shipping Length	6571 mm (258.7 in)	6656 mm (262.0 in)
16	Boom Swing Right	963 mm (38 in)	963 mm (38 in)
17	Boom Swing Left	503 mm (20 in)	503 mm (20 in)
18	Track Belt/Shoe Width	450 mm (17.7 in)	450 mm (17.7 in)
19	Overall Track Width	2300 mm (90.6 in)	2300 mm (90.6 in)
20	Ground Clearance	349 mm (13.7 in)	349 mm (13.7 in)
21	Stick Length	1823 mm (71.8 in)	2358 mm (92.8 in)

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.0 kg of refrigerant which has a CO_2 equivalent of 1.430 metric tonnes.

Lift Capacities – Minimum Configuration*

Lift Point Height			3 m (9.8 ft)			4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	Standard Stick	kg (lb)				2331 (5,139)	1852 (4,083)	1637 (3,609)	2006 (4,422)	1401 (3,089)	1242 (2,738)	5.29 (17.4)
	Long Stick	kg (lb)							1520 (3,351)	1170 (2,579)	1036 (2,284)	5.89 (19.3)
3 m (9.8 ft)	Standard Stick	kg (lb)				2681 (5,911)	1787 (3,940)	1575 (3,472)	1960 (4,321)	1107 (2,441)	980 (2,161)	6.03 (19.8)
	Long Stick	kg (lb)				2301 (5,073)	1805 (3,979)	1590 (3,505)	1488 (3,280)	955 (2,105)	843 (1,858)	6.55 (21.5)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				3306 (7,288)	1668 (3,677)	1461 (3,221)	2123 (4,680)	1014 (2,235)	896 (1,975)	6.26 (20.5)
	Long Stick	kg (lb)				3017 (6,651)	1669 (3,680)	1460 (3,219)	1590 (3,505)	880 (1,940)	773 (1,704)	6.75 (22.1)
0 m (0 ft)	Standard Stick	kg (lb)	3780 (8,333)	2920 (6,437)	2463 (5,430)	3576 (7,884)	1581 (3,486)	1378 (3,038)	2342 (5,163)	1045 (2,304)	920 (2,028)	6.03 (19.8)
	Long Stick	kg (lb)	3945 (8,697)	2877 (6,343)	2420 (5,335)	3492 (7,699)	1552 (3,422)	1349 (2,974)	1863 (4,107)	896 (1,975)	785 (1,731)	6.55 (21.5)

*Minimum Weight includes rubber tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.

Lift Capacities – Maximum Configuration**

Lift Point Height			3 m (9.8 ft)			4.5 m (14.8 ft)			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m (ft)
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.5 m (14.8 ft)	Standard Stick	kg (lb)				2332 (5,141)	2332 (5,141)	1954 (4,308)	1687 (3,719)	1686 (3,717)	1491 (3,287)	5.31 (17.4)
	Long Stick	kg (lb)							1518 (3,347)	1518 (3,347)	1256 (2,769)	5.90 (19.4)
3 m (9.8 ft)	Standard Stick	kg (lb)				2151 (4,742)	2150 (4,740)	1889 (4,165)	1355 (2,987)	1355 (2,987)	1197 (2,639)	6.04 (19.8)
	Long Stick	kg (lb)				2314 (5,101)	2314 (5,101)	1905 (4,200)	1180 (2,601)	1179 (2,599)	1040 (2,293)	6.56 (21.5)
1.5 m (4.9 ft)	Standard Stick	kg (lb)				2032 (4,480)	2031 (4,478)	1775 (3,913)	1255 (2,767)	1254 (2,765)	1106 (2,438)	6.26 (20.5)
	Long Stick	kg (lb)				2033 (4,482)	2032 (4,480)	1774 (3,911)	1099 (2,423)	1098 (2,421)	966 (2,130)	6.75 (22.1)
0 m (0 ft)	Standard Stick	kg (lb)	3825 (8,433)	3825 (8,433)	3016 (6,649)	1947 (4,292)	1946 (4,290)	1694 (3,735)	1299 (2,864)	1298 (2,862)	1142 (2,518)	6.02 (19.8)
	Long Stick	kg (lb)	3962 (8,735)	3962 (8,735)	2971 (6,550)	1918 (4,228)	1917 (4,226)	1664 (3,668)	1126 (2,482)	1125 (2,480)	987 (2,176)	6.54 (21.4)

**Maximum Weight includes steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

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EQUIPMENT

ENGINE
- Cat C3.3B Diesel Engine (U.S. EPA Tier 4 Final/ EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)
- Automatic Engine Idle
- Automatic Engine Shutdown
- Automatic Swing Brake
- Automatic Two Speed Travel
- Fuel Water Separator with Indicator
- Radial Seal – Double Element Air Filter
- Extended Life Coolant, –37° C (–35° F)
- Ecology Drain

HYDRAULICS
- Smart Tech Electronic Pump
- Variable Displacement Piston Pump
- Load Sensing/Flow Sharing Hydraulics
- Power On Demand
- Hydraulic Temperature Monitoring
- Certified Accumulator
- Hydro Advanced Hydraulic Oil

OPERATOR ENVIRONMENT
- Sealed and Pressurized Cab
- Operator Sound Pressure 72 dB(A) ISO 6396:2008
- Stick Steer Mode
- Travel Cruise Control
- Control Pattern Changer
- Adjustable Wrist Rests
- Molded Footrests
- Removable, Washable Floor Mat
- Travel Pedals and Hand Levers
- Cat Key with Passcode Option
- HVAC with Automatic Temperature Control
- Hydraulic Lockout Controls
- Integrated Lower Front Window
- Assisted Front Window Overhead Storage
- Rear Window Emergency Exit
- Fabric, High Back, Suspension Seat
- Retractable Seat Belt (75 mm/3 in)
- Coat Hook
- Cup Holder
- LED Interior Light
- Literature Holder
- 12V Power Socket
- Radio – Bluetooth®, USB, Auxiliary, Microphone
- Skylight
- Mounting Bosses for Top and Front Guards
- ROPS – ISO 12117-2:2008
- TOPS – ISO 12117:1997
- Top Guard – ISO 10262:1998 (Level II)
- Color LCD Monitor
  - Fuel Level and Coolant Temperature Gauges
  - Maintenance and Machine Monitoring
  - Performance and Machine Adjustments
  - Numeric Security Code
  - Multiple Languages
  - Camera Ready
  - Hour Meter with Wake Up Switch
  - Jog Dial Control Interface

UNDERCARRIAGE
- Greased and Lubricated Track
- Hydraulic Track Adjusters
- Tie Down Eyes on Track Frame
- Dozer Blade
- Dozer Float
- Bolt-on, Reversible Wear Edge
- Rubber Tracks

BOOM, STICK AND LINKAGES
- One Piece Boom (3400 mm/133.9 in)
- Standard Stick (1820 mm/71.7 in)
- Long Stick (2360 mm/92.9 in)
- Front Shovel Capable (Pin-On/ Manual Coupler/Hydraulic Coupler – not available in all regions)
- Thumb Ready (not available in all regions)
- Certified Lifting Eye (not available in all regions)

ELECTRICAL
- 12 Volt Electrical System
- 90 Ampere Alternator
- 850 CCA Maintenance Free Battery
- Circuit Breaker
- Ignition Key Stop Switch
- Signaling/Warning Horn
- Product Link™ Elite Lite (regulations apply)
- Travel Alarm

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT
- Rain Visor
- Air Suspension Heated Seat

ELECTRICAL
- Rearview Camera
- Rotating Beacon

OTHER
- Attachments including Buckets, Augers and Hammers
- Steel Tracks (450 mm/17.7 in wide)
- Steel Track with Rubber Pads
- Wide Steel Tracks (600 mm/23.6 in)
- Wide Dozer Blade
- 2nd Auxiliary Hydraulic Lines
- Additional Counterweight
- Boom and Stick Hose Burst Check Valves
- Bucket Linkage with Lift Eye
- Track Guides
- Water Jacket Heater
- Refueling Pump
- Variable Angle Boom (please see 308 CR VAB brochure for VAB specs and additional information)
- Cab Guarding

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

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