

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 Cat Stick Steer. 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 blade float 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/EU Stage V	51.8 kW	69.5 hp
ISO 9249:2007/EEC 80/1269		
Gross Power		
SAE J1995:2014	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*	8440 kg	18,610 lb
Maximum Operating Weight with Cab**	9105 kg	20,077 lb

^{*}Minimum Weight is based on rubber tracks, no counterweight, operator, full fuel tank, standard 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	341 kg	752 lb

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	36.9 kPa	5.4 psi
Ground Pressure – Maximum Weight	39.8 kPa	5.8 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

10.0 L	2.6 gal
11.2 L	3.0 gal
147 L	39 gal
53 L	14 gal
110 L	29 gal
	11.2 L 147 L 53 L

Hydraulic System

Load Sensing Hydraulics with Variable Dis	placement Pisto	on 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
Maximum Auxiliary Circuit – Primary		
Flow at Pump*	131 L/min	35 gal/min
Pressure at Pump*	285 bar	4,134 psi
Maximum Auxiliary Circuit – Secondary		
Flow at Pump*	33 L/min	9 gal/min
Pressure at Pump*	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

^{*}Flow and pressure are not combinable. Under load, as flow rises pressure goes down.

Swing System

Machine Swing Speed	10.6 rpm
Boom Swing – Left	60 degrees
Boom Swing – Right	50 degrees

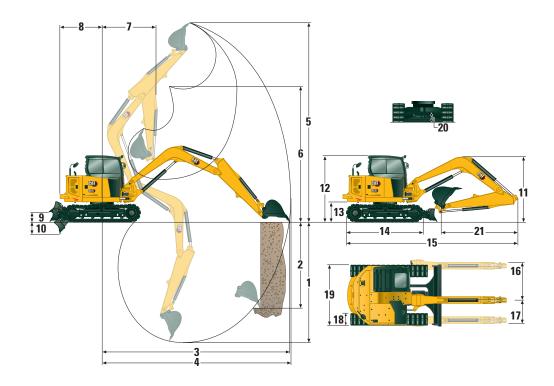
Blade

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 I)

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



Dimensions

	Standard Stick	Long Stick
1 Dig Depth	4108 mm (161.7 in)	4643 mm (182.8 in)
2 Vertical Wall	2991 mm (117.8 in)	3404 mm (134.0 in)
3 Maximum Reach at Ground Level	6949 mm (273.6 in)	7460 mm (293.7 in)
4 Maximum Reach	7141 mm (281.1 in)	7637 mm (300.7 in)
5 Maximum Dig Height	6736 mm (265.2 in)	7039 mm (277.1 in)
6 Maximum Dump Clearance	4760 mm (187.4 in)	5072 mm (199.7 in)
7 Boom in Reach	3059 mm (120.4 in)	3215 mm (126.6 in)
8 Tail Swing		
with Counterweight	1585 mm (62.4 in)	1585 mm (62.4 in)
without Counterweight	1450 mm (57.1 in)	1450 mm (57.1 in)
9 Maximum Blade Height	370 mm (14.6 in)	370 mm (14.6 in)
Maximum Blade Depth	407 mm (16.0 in)	407 mm (16.0 in)
1 Height		
Boom Transport – No Tools*	2430 mm (95.7 in)	2260 mm (89.0 in)
Boom Working – With Tools**	2660 mm (104.7 in)	3050 mm (120.1 in)
2 Cab Height	2541 mm (100.0 in)	2541 mm (100.0 in)
3 Swing Bearing Height	756 mm (29.7 in)	756 mm (29.7 in)
4 Overall Undercarriage Length	2880 mm (113.4 in)	2880 mm (113.4 in)
5 Overall Shipping Length		
with Counterweight	6706 mm (264 in)	6872 mm (270.6 in)***
without Counterweight	6574 mm (258.8 in)	6872 mm (270.6 in)***
6 Boom Swing Right	935 mm (36.8 in)	935 mm (36.8 in)
7 Boom Swing Left	604 mm (23.8 in)	604 mm (23.8 in)
8 Track Belt/Shoe Width	450 mm (17.7 in)	450 mm (17.7 in)
9 Overall Track Width	2300 mm (90.6 in)	2300 mm (90.6 in)
O Ground Clearance	350 mm (13.8 in)	350 mm (13.8 in)
1 Stick Length	1820 mm (71.7 in)	2358 mm (92.8 in)

^{*}Boom Height when stick is pinned in transport position with no attachments.

^{**}Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.

^{***}With blade positioned at the rear of the machine.

$\underline{\textbf{Lift Capacities}-\textbf{Minimum Configuration}}$

			Lift Point Radius 3 m (9.8 ft) Lift Point Radius 4.5 m (1			m (14.8 ft)	Lift	Point Radi	us (Maxim	um)				
			0ver	Front		0ver	Front	Over Front		ront Over Front		Over Front		
	100 8 1 - 11 1 1 -		Blade	Blade	0ver	Blade	Blade	Over	Blade	Blade	Over	m		
	Lift Point Height		Down	Up	Side	Down	Up	Side	Down	Up	Side	(ft)		
4.5 m	Standard Stick	kg (lb)				*2445 (*5,391)	1870 (4,123)	1630 (3,594)	*2195 (*4,840)	1490 (3,285)	1300 (2,867)	5.13 (16.8)		
(14.8 ft)	Long Stick	kg (lb)							*1625 (*3,583)	1235 (2,723)	1075 (2,370)	5.74 (18.8)		
3 m	Standard Stick	kg (lb)				*2770 (*6,108)	1805 (3,980)	1565 (3,451)	*2130 (*4,697)	1160 (2,558)	1010 (2,227)	5.90 (19.4)		
(9.8 ft)	Long Stick	kg (lb)				*2400 (*5,292)	1825 (4,024)	1580 (3,484)	*1585 (*3,495)	995 (2,194)	865 (1,907)	6.42 (21.1)		
1.5 m	Standard Stick	kg (lb)				*3345 (*7,376)	1685 (3,715)	1450 (3,197)	*2305 (*5,083)	1060 (2,337)	915 (2,018)	6.13 (20.1)		
(4.9 ft)	Long Stick	kg (lb)				*3080 (*6,791)	1685 (3,715)	1450 (3,197)	*1695 (*3,737)	915 (2,018)	790 (1,742)	6.63 (21.8)		
0 m	Standard Stick	kg (lb)	*3750 (*8,269)	2970 (6,549)	2460 (5,424)	*3535 (*7,795)	1600 (3,528)	1370 (3,021)	*2365 (*5,215)	1090 (2,403)	945 (2,084)	5.89 (19.3)		
(0 ft)	Long Stick	kg (lb)	*3845 (*8,478)	2920 (6,439)	2405 (5,303)	*3480 (*7,673)	1570 (3,462)	1340 (2,955)	*1990 (*4,388)	935 (2,062)	805 (1,775)	6.42 (21.1)		

Minimum Weight includes rubber belts, cab, operator, full fuel tank, no counterweight and no bucket.

Lift Capacities – Maximum Configuration

			Lift Poir	nt Radius 3	adius 3 m (9.8 ft) Lift Point Radius 4.5 m (14.8			m (14.8 ft)) Lift Point Radius (Maximum)			
			Over Front			Over Front			Over Front			
	Lift Point Height		Blade Down	Blade Up	Over Side	Blade Down	Blade Up	Over Side	Blade Down	Blade Up	Over Side	m (ft)
4.5 m	Standard Stick	kg (lb)				*2445 (*5,391)	2090 (4,608)	1820 (4,013)	*2195 (*4,840)	1675 (3,693)	1460 (3,219)	5.13 (16.8)
(14.8 ft)	Long Stick	kg (lb)							*1625 (*3,583)	1395 (3,076)	1215 (2,679)	5.74 (18.8)
3 m	Standard Stick	kg (lb)				*2770 (*6,108)	2025 (4,465)	1760 (3,881)	*2130 (*4,697)	1315 (2,900)	1145 (2,525)	5.90 (19.4)
(9.8 ft)	Long Stick	kg (lb)				*2400 (*5,292)	2045 (4,509)	1775 (3,914)	*1585 (*3,495)	1135 (2,503)	990 (2,183)	6.42 (21.1)
1.5 m	Standard Stick	kg (lb)				*3345 (*7,376)	1905 (4,201)	1645 (3,627)	*2305 (*5,083)	1205 (2,657)	1050 (2,315)	6.13 (20.1)
(4.9 ft)	Long Stick	kg (lb)				*3080 (*6,791)	1905 (4,201)	1640 (3,616)	*1695 (*3,737)	1050 (2,315)	910 (2,007)	6.63 (21.8)
0 m	Standard Stick	kg (lb)	*3750 (*8,269)	*3750 (*8,269)	2795 (6,163)	*3535 (*7,795)	1820 (4,013)	1565 (3,451)	*2365 (*5,215)	1250 (2,756)	1080 (2,381)	5.89 (19.3)
(0 ft)	Long Stick	kg (lb)	*3845 (*8,478)	*3845 (*8,478)	2745 (6,053)	*3480 (*7,673)	1790 (3,947)	1535 (3,385)	*1990 (*4,388)	1075 (2,370)	930 (2,051)	6.42 (21.1)

Maximum Weight includes steel tracks with pads, cab, operator, full fuel tank, counterweight and no bucket.

^{*}The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567:2007 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. The excavator bucket weight is not included on this chart.

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
ENGINE			OPERATOR ENVIRONMENT (continued)		
Cat® C3.3 Diesel Engine (U.S. EPA Tier 4 Final/	✓		LED Interior Light	✓	
EU Stage V) – Electronic Engine, Turbo,			Literature Holder	✓	
Diesel Particulate Filter (DPF)			Mounting Bosses for Top and Front Guards	✓	
Automatic Engine Idle	√		12V Power Socket	✓	
Automatic Engine Shutdown	√		Radio – Bluetooth, Auxiliary, Microphone,	✓	
Automatic Swing Brake	√		USB (charging only)		
Automatic Two Speed Travel	√		Skylight	✓	
Fuel Water Separator with Indicator	✓		Signaling/Warning Horn	✓	
Radial Seal – Double Element Air Filter	✓		Cab and (left side) Boom Work Lights	✓	
Extended Life Coolant, –37° C (–37° F)	✓		Utility Space for Mobile Phone	✓	
HYDRAULICS			Rain Visor		✓
Electronic Variable Displacement	✓		Next Generation Color LCD Monitor (IP66)	✓	
Piston Pump			– Jog Dial Interface	✓	
Load Sensing/Flow Sharing Hydraulics			– Fuel Level and Coolant	✓	
Power On Demand	√		Temperature Gauges		
Hydraulic Temperature Monitoring	✓		- Maintenance and Machine Monitoring	✓	
Certified Accumulator			- Performance and Machine Adjustments	✓	
HYDO Advanced Hydraulic Oil	✓		 Numeric Security Code 	✓	
OPERATOR ENVIRONMENT	,		– Multiple Languages	✓	
Top Guard ISO 10262 1998 Level I	√		Camera Ready (IP68 & IP69K)	✓	
ROPS ISO 12117-2:2008	— Hour Weter With Wake op Switch		✓		
Stick Steer Mode	✓		Next Generation Advanced Monitor		✓
Travel Cruise Control	✓		(below are all included with Next Generation		
Control Pattern Changer	✓		Advanced Monitor option)		
Adjustable Wrist Rests	✓		- Touch Screen		
Molded Footrests	✓		- Site Reference System		
Removable, Washable Floor Mat	✓		 High Definition Camera Capable (IP68 & IP69K) 		
Travel Pedals and Hand Levers	✓		- Numeric Security Code		
Cat Key with Passcode Option	✓		UNDERCARRIAGE		
Push to Start with Bluetooth® Key		✓	Greased and Lubricated Track	√	
HVAC with Automatic Temperature Control	✓			√	
Hydraulic Lockout Controls	✓		Tie Down Eyes on Track Frame Dozer Blade	→	
Integrated Lower Front Window	✓			V	
Assisted Front Window Overhead Storage	✓		Wide Dozer Blade		✓
Rear Window Emergency Exit	✓		Dozer Float	√	
Fabric, High Back, Suspension Seat	✓		Bolt-on, Reversible Wear Edge	✓	
Air Suspension Heated Seat		✓	Steel Tracks (450 mm/17.7 in wide)		√
Retractable Seat Belt (75 mm/3 in)	✓		Wide Steel Tracks (600 mm/23.6 in)		√
Coat Hook	✓		Steel Track with Rubber Pads		√
Cup Holder	√		Track Guides	(continued of	✓

Standard and Optional Equipment (continued)

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
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)	✓	
Attachments including Buckets, Augers and Hammers		✓
2nd Auxiliary Hydraulic Lines		✓
Boom Lowering Check Valve		✓
Stick Lowering Check Valve		✓
Certified Lifting Eye		✓
ELECTRICAL		
12 Volt Electrical System	✓	
60 Ampere Alternator	✓	
Circuit Breaker	✓	
900 CCA Maintenance Free Battery	✓	
Battery Disconnect	✓	
Ignition Key Stop Switch	✓	
Product Link™ Elite (regulations apply)		✓
Travel Alarm		✓
Rearview Camera		✓
Rotating Beacon		✓

	Standard	Optional
GUARDING		
Mesh Front Guard ISO 10262 1998 Level I		✓
Heavy Duty Front Guard ISO 10262 1998 Level II		✓
Overhead Cab Guard ISO 10262 1998 Level II		✓
Polycarbonate Front Window EN356 P5A		✓
Track Guards		✓
OTHER		
Additional Counterweight		✓
Locks on External Enclosure Doors	✓	
Lockable Fuel Cap	✓	
Beacon Socket	✓	
Rear Reflectors	✓	
Water Jacket Heater		✓
Refueling Pump		✓
Variable Angle Boom (refer to 308 CR VAB brochure for VAB specs and additional information)		✓

308 CR Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit https://www.caterpillar.com/en/company/sustainability.

Engine

- The Cat® C3.3B engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - √ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel.

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 CO₂ equivalent of 1.430 metric tonnes.

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
- Barium < 0.01%
- Cadmium < 0.01%
- − Chromium < 0.01%
- Lead < 0.01%

Sound Performance

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

European Union Directive "2000/14/EC"

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Power On Demand provides full time efficiency and power when you need it, and is transparent to the operator
 - Auto idle and auto engine shutdown
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot (if equipped)
- Mini Hydraulic Excavator Ease of Use features improve operator efficiency minimizing fuel consumption (if equipped)
- Cat Grade with Advanced 2D and 3D improves operator efficiency minimizing fuel consumption (if equipped)

Recycling

• The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	65.52%
Iron	21.19%
Rubber	3.50%
Mixed Metal	2.20%
Other	1.89%
Nonferrous Metal	1.81%
Plastic	1.55%
Fluid	1.47%
Mixed-Metal and Nonmetal	0.85%
Mixed Nonmetallic	0.01%
Uncategorized	0.00%
Total	100.00%

A machine with higher recyclability rate will ensure more efficient
usage of valuable natural resources and enhance End-of-Life
value of the product. According to ISO 16714 (Earth-moving
machinery – Recyclability and recoverability – Terminology and
calculation method), recyclability rate is defined as percentage by
mass (mass fraction in percent) of the new machine potentially
able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following values in the table may vary.

Recyclability - 96%

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

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