



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.



308 CR Mini Hydraulic Excavator

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.

**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	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

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	110 L	29 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
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

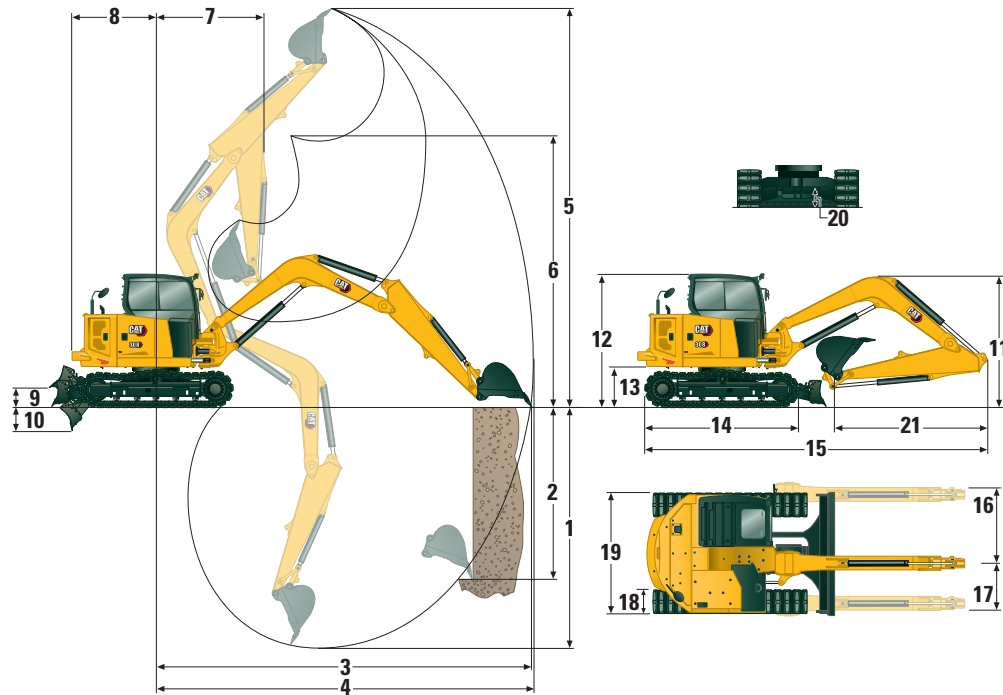
Blade

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)

308 CR Mini Hydraulic Excavator



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)
10 Maximum Blade Depth	407 mm (16.0 in)	407 mm (16.0 in)
11 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)
12 Cab Height	2541 mm (100.0 in)	2541 mm (100.0 in)
13 Swing Bearing Height	756 mm (29.7 in)	756 mm (29.7 in)
14 Overall Undercarriage Length	2880 mm (113.4 in)	2880 mm (113.4 in)
15 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)***
16 Boom Swing Right	935 mm (36.8 in)	935 mm (36.8 in)
17 Boom Swing Left	604 mm (23.8 in)	604 mm (23.8 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	350 mm (13.8 in)	350 mm (13.8 in)
21 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.

308 CR Mini Hydraulic Excavator

Lift Capacities – Minimum Configuration

Lift Point Height			Lift Point Radius 3 m (9.8 ft)			Lift Point Radius 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)				*2445 (*5,391)	1870 (4,123)	1630 (3,594)	*2195 (*4,840)	1490 (3,285)	1300 (2,867)	5.13 (16.8)
	Long Stick	kg (lb)							*1625 (*3,583)	1235 (2,723)	1075 (2,370)	5.74 (18.8)
3 m (9.8 ft)	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)
	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 (4.9 ft)	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)
	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 (0 ft)	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)
	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 Point Height			Lift Point Radius 3 m (9.8 ft)			Lift Point Radius 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)				*2445 (*5,391)	2090 (4,608)	1820 (4,013)	*2195 (*4,840)	1675 (3,693)	1460 (3,219)	5.13 (16.8)
	Long Stick	kg (lb)							*1625 (*3,583)	1395 (3,076)	1215 (2,679)	5.74 (18.8)
3 m (9.8 ft)	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)
	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 (4.9 ft)	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)
	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 (0 ft)	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)
	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 <i>(continued)</i>		
Cat® C3.3 Diesel Engine (U.S. EPA Tier 4 Final/ EU Stage V) – Electronic Engine, Turbo, Diesel Particulate Filter (DPF)	✓		LED Interior Light	✓	
Automatic Engine Idle	✓		Literature Holder	✓	
Automatic Engine Shutdown	✓		Mounting Bosses for Top and Front Guards	✓	
Automatic Swing Brake	✓		12V Power Socket	✓	
Automatic Two Speed Travel	✓		Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)	✓	
Fuel Water Separator with Indicator	✓		Skylight	✓	
Radial Seal – Double Element Air Filter	✓		Signaling/Warning Horn	✓	
Extended Life Coolant, –37° C (–37° F)	✓		Cab and (left side) Boom Work Lights	✓	
HYDRAULICS			Utility Space for Mobile Phone	✓	
Electronic Variable Displacement Piston Pump	✓		Rain Visor		✓
Load Sensing/Flow Sharing Hydraulics	✓		Next Generation Color LCD Monitor (IP66)	✓	
Power On Demand	✓		– Jog Dial Interface	✓	
Hydraulic Temperature Monitoring	✓		– Fuel Level and Coolant Temperature Gauges	✓	
Certified Accumulator	✓		– Maintenance and Machine Monitoring	✓	
HYDO Advanced Hydraulic Oil	✓		– Performance and Machine Adjustments	✓	
OPERATOR ENVIRONMENT			– Numeric Security Code	✓	
Top Guard ISO 10262 1998 Level I	✓		– Multiple Languages	✓	
ROPS ISO 12117-2:2008	✓		– Camera Ready (IP68 & IP69K)	✓	
Stick Steer Mode	✓		– Hour Meter with Wake Up Switch	✓	
Travel Cruise Control	✓		Next Generation Advanced Monitor <i>(below are all included with Next Generation Advanced Monitor option)</i>		✓
Control Pattern Changer	✓		– Touch Screen		
Adjustable Wrist Rests	✓		– Site Reference System		
Molded Footrests	✓		– High Definition Camera Capable (IP68 & IP69K)		
Removable, Washable Floor Mat	✓		– Numeric Security Code		
Travel Pedals and Hand Levers	✓		UNDERCARRIAGE		
Cat Key with Passcode Option	✓		Greased and Lubricated Track	✓	
Push to Start with Bluetooth® Key		✓	Tie Down Eyes on Track Frame	✓	
HVAC with Automatic Temperature Control	✓		Dozer Blade	✓	
Hydraulic Lockout Controls	✓		Wide Dozer Blade		✓
Integrated Lower Front Window	✓		Dozer Float	✓	
Assisted Front Window Overhead Storage	✓		Bolt-on, Reversible Wear Edge	✓	
Rear Window Emergency Exit	✓		Steel Tracks (450 mm/17.7 in wide)		✓
Fabric, High Back, Suspension Seat	✓		Wide Steel Tracks (600 mm/23.6 in)		✓
Air Suspension Heated Seat		✓	Steel Track with Rubber Pads		✓
Retractable Seat Belt (75 mm/3 in)	✓		Track Guides		✓
Coat Hook	✓				
Cup Holder	✓				

(continued on next page)

308 CR Mini Hydraulic Excavator

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
BOOM, STICK AND LINKAGES			GUARDING		
One Piece Boom (3400 mm/133.9 in)	✓		Mesh Front Guard ISO 10262 1998 Level I		✓
Standard Stick (1820 mm/71.7 in)	✓		Heavy Duty Front Guard ISO 10262 1998 Level II		✓
Long Stick (2360 mm/92.9 in)		✓	Overhead Cab Guard ISO 10262 1998 Level II		✓
Front Shovel Capable – Pin-on/ Manual Coupler/Hydraulic Coupler (not available in all regions)	✓		Polycarbonate Front Window EN356 P5A		✓
Thumb Ready (not available in all regions)	✓		Track Guards		✓
Attachments including Buckets, Augers and Hammers		✓	OTHER		
2nd Auxiliary Hydraulic Lines		✓	Additional Counterweight		✓
Boom Lowering Check Valve		✓	Locks on External Enclosure Doors	✓	
Stick Lowering Check Valve		✓	Lockable Fuel Cap	✓	
Certified Lifting Eye		✓	Beacon Socket	✓	
ELECTRICAL			Rear Reflectors	✓	
12 Volt Electrical System	✓		Water Jacket Heater		✓
60 Ampere Alternator	✓		Refueling Pump		✓
Circuit Breaker	✓		Variable Angle Boom (refer to 308 CR VAB brochure for VAB specs and additional information)		✓
900 CCA Maintenance Free Battery	✓				
Battery Disconnect	✓				
Ignition Key Stop Switch	✓				
Product Link™ Elite (regulations apply)		✓			
Travel Alarm		✓			
Rearview Camera		✓			
Rotating Beacon		✓			

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%

308 CR Mini Hydraulic Excavator

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

© 2022 Caterpillar
All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8163-04 (08-2022)
Replaces AEHQ8163-03
Build Number: 07A
(North America, Europe, ANZP)

