



# Cat<sup>®</sup> 308E CR

## MINI HYDRAULIC EXCAVATOR

### FEATURES:

The Cat<sup>®</sup> 308E CR Mini Hydraulic Excavator delivers high performance in a compact design to help you work in the tightest applications.

The 308E CR features the following:

- **Redesigned operator environment with a much larger cab**, ingress and egress room, ergonomic joysticks, and a standard air suspension, heated seat, and radio with auxiliary input.
- **Fingertip control for the boom swing and auxiliary hydraulic functions** makes operation easier while providing more room on the floor for the operator's feet.
- **Compact Radius Design** lets you work within confined areas. The radius of the upper body stays within 280 mm (11 in) of the undercarriage so the operator can concentrate on the work being done without having to worry about the back of the machine.
- **Increased stability, engine horsepower and hydraulic power** making the 308E the most powerful and best performing 8 ton excavator Caterpillar has ever made.

### NEW STANDARD FEATURES ON THE 308E CR ARE MADE POSSIBLE WITH THE *COMPASS* (Complete Operation, Maintenance, Performance, And Security System) CONTROL PANEL:

- **Security System:** A standard anti-theft device uses a 5 digit alphanumeric password that is required to start the machine (when the security system is enabled).
- **Adjustable Work Tool Auxiliary Flow Control:** Simple adjustability of the hydraulic flow going down the boom and stick to the work tool. This is done by a simple selection from a flow of 1-15.
- **Continuous Flow:** Set the auxiliary flow in any direction and at any speed simply, safely, and easily on the right hand joystick.
- **Economy Mode:** Save up to 20% fuel while maintaining high productivity with a push of a button.

## Specifications

### Engine

Engine Model	Cat <sup>®</sup> C3.3B	
<b>Rated Net Power @ 2,400 rpm</b>		
ISO 9249/EEC 80/1269	48.5 kW	65 hp
<b>Gross Power</b>		
ISO 14396	49.7 kW	66.6 hp
Bore	94 mm	3.7 in
Stroke	120 mm	4.7 in
Displacement	3.33 L	203.2 in <sup>3</sup>

### Weights\*

Operating Weight with Cab	8333 kg	18,371 lb
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\*Weight includes counterweight, rubber tracks, bucket, operator, full fuel and auxiliary lines.

### Travel System

Travel Speed – High	5.26 km/h	3.26 mph
Travel Speed – Low	3.32 km/h	2.06 mph
Max Traction Force – High Speed	64.5 kN	14,500 lb
Max Traction Force – Low Speed	37.4 kN	8,408 lb
Ground Pressure	36.3 kPa	5.26 psi
Gradeability (maximum)	30°	

### Service Refill Capacities

Cooling System	14 L	3.7 gal
Engine Oil	11.2 L	3.0 gal
Fuel Tank	125 L	33 gal
Hydraulic Tank	82 L	21.7 gal
Hydraulic System	94 L	24.8 gal

### Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump		
Pump Flow at 2,000 rpm	150 L/min	39.6 gal/min
Operating Pressure – Equipment	28.0 Mpa	4,061 psi
Operating Pressure – Travel	32.0 Mpa	4,641 psi
Operating Pressure – Swing	24.0 Mpa	3,481 psi
Auxiliary Circuit – Primary (186 bar/2,734 psi)	128 L/min	33.8 gal/min
Auxiliary Circuit – Secondary (174 bar/2,524 psi)	64 L/min	16.9 gal/min
Digging Force – Stick (standard)	40.1 kN	9,015 lb
Digging Force – Stick (long)	35.1 kN	7,891 lb
Digging Force – Bucket	60.2 kN	13,534 lb

### Swing System

Machine Swing Speed	10 rpm
Boom Swing – Left*	60°
Boom Swing – Right	50°

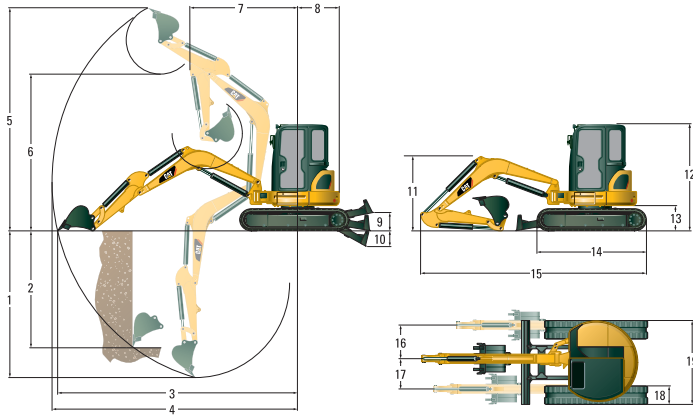
\*Automatic swing break, spring applied, hydraulic release.

### Blade

Width	2320 mm	91.3 in
Height	450 mm	17.7 in
Dig Depth	360 mm	14.2 in
Lift Height	380 mm	15.0 in



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## Dimensions

	Standard Stick		Long Stick	
1	4150 mm	13'7"	4690 mm	15'5"
2	2980 mm	9'9"	3550 mm	11'8"
3	6820 mm	22'9"	7350 mm	24'1"
4	7020 mm	23'0"	7540 mm	24'9"
5	6640 mm	21'9"	6990 mm	22'11"
6	4670 mm	15'4"	5010 mm	16'5"
7	2800 mm	9'2"	3280 mm	10'9"
8	1450 mm	4'9"	1450 mm	4'9"
9	420 mm	1'5"	420 mm	1'5"
10	320 mm	1'1"	320 mm	1'1"
11	2280 mm	7'6"	2230 mm	7'4"
12	2550 mm	8'4"	2550 mm	8'4"
13	735 mm	2'5"	735 mm	2'5"
14	2903 mm	9'6"	2903 mm	9'6"
15	6380 mm	20'11"	6340 mm	20'10"
16	1010 mm	3'4"	1010 mm	3'4"
17	635 mm	2'1"	635 mm	2'1"
18	450 mm	1'6"	450 mm	1'6"
19	2320 mm	7'7"	2320 mm	7'7"

## Lift Capacities at Ground Level\*

Lift Point Radius		4000 mm (13'1")		6050 mm (19'10")	
		Front	Side	Front	Side
Blade Down	kg	3650	1710	1880	920
	(lb)	(8,046)	(3,770)	(4,144)	(2,028)
Blade Up	kg	1840	1530	970	820
	(lb)	(4,056)	(3,373)	(2,138)	(1,808)

\*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. Lifting capacities are for standard stick.

## STANDARD EQUIPMENT

- 1-way and 2-way (combined function) auxiliary hydraulic lines
- Adjustable auxiliary flow control for work tools
- Adjustable wrist rests
- Air suspension, heated seat
- Alternator
- AM/FM radio with auxiliary input
- Anti-theft security system
- Automatic engine idle
- Automatic swing park brake
- Automatic two speed travel
- Auxiliary line quick disconnects
- Boom cylinder guard
- Cab mounted work light
- Cab, with ROPS ISO 12117-2 with A/C, heater/defroster, interior light and windshield wiper/washer
- Coat hook
- COMPASS display panel
- Cup holder
- Control pattern changer (not available in Europe)
- Continuous flow
- Dozer blade with float function
- Economy mode setting for up to 20% fuel savings
- Floor mat
- Foot travel pedals
- Horn
- Hydraulic oil cooler
- Lifting bar on bucket linkage (standard equipment for all regions except Europe)
- Low maintenance linkage pin joints
- Maintenance free battery
- Steel track
- Rearview mirror
- Retractable seatbelt
- Standard stick
- "Thumb ready" sticks (standard equipment for all regions except Europe)
- Travel alarm (optional in Europe)

## OPTIONAL EQUIPMENT

- Boom check valve (Europe only)
- Boom mounted light
- Ecology drain valve for hydraulic tank
- Ecology drain valve for engine oil
- Extra counterweight for extreme lifting applications – 251 kg (553 lb)
- Hydraulic quick coupler lines
- Lifting bar on bucket linkage (optional in Europe, standard for all other regions)
- Long stick
- Mechanical quick coupler
- Secondary auxiliary hydraulic lines
- Rubber track and steel track with rubber pads

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