

Cat[®] 308E2 CR

MINI HYDRAULIC EXCAVATOR WITH SWING BOOM

FEATURES:

The Cat[®] 308E2 CR Mini Hydraulic Excavator delivers high performance, durability and versatility in a compact design to help you work in a variety of applications. The 308E2 CR features the following:

QUALITY

- The durable hoods and frame and the compact radius design of the 308E2 CR let you work comfortably and confidently in confined areas.
- The operator environment includes a high quality suspension seat, easy to adjust armrests and 100% pilot controls which offer consistent and long-lasting controllability.

EFFICIENCY

- High Definition Hydraulic System provides a load sensing and flow sharing capability leading to operational precision, efficient performance and greater controllability.
- Power on Demand provides optimal efficiency and performance the moment you need it. This automatic system ensures fuel efficiency through appropriate engine rating to meet all operational needs as required.

VERSATILITY

- Broad range of Cat Work Tools make the Cat Mini Excavator a versatile machine, able to meet the requirements of any job site.
- 180 degrees of bucket rotation provides greater material retention during truck loading and easier flat wall digging without having to reposition the machine.

PERFORMANCE

- Front shovel bucket orientation provides the operator with more ways to get the job done faster.
- COMPASS Control Panel is a standard feature that allows the operator to easily adjust auxiliary flows to achieve the optimal work tool performance, activate auto idle for improved fuel efficiency and utilize the security system to ensure protection of valuable assets with the simple touch of a button.
- The Site Reference System included in the COMPASS monitor provides output from pitch and roll sensors to aid in grading and level trenching. This impacts accuracy and productivity for job site finishing.
- Rearview camera improves operator productivity and efficiency through increased visibility, making work easier to complete.

SERVICEABILITY

■ Convenient service and maintenance requirements include ease of access to daily check points, 500 hour engine oil and filter change period, 500 hour grease interval on front implement, S·O·SSM oil sampling valve and overall long term durability.

SAFETY

All Cat Mini Excavators from 3.5 metric tons to 8 metric tons are ROPS and TOPS certified and include the Cat Interlock (hydraulic lockout) System, a certified accumulator which allows for auxiliary pressure to be released, making connecting and disconnecting work tools safer and easier, and a travel alarm. All of these safety features are standard on the E2 model lineup (travel alarm optional in Europe).

Specifications

| Engine | | |
|-----------------------------|------------|-----------------------|
| Engine Model | Cat C3.3B* | |
| Rated Net Power @ 2,400 rpm | | |
| ISO 9249/EEC 80/1269 | 48.5 kW | 65 hp |
| Gross Power | | |
| 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 ³ |

*Meets U.S. EPA Tier 4 Final and EU Stage IIIB emission standards.

Weights

Operating Weight with Cab

8400 kg

- 18,519 lb
- Weight with rubber tracks, bucket, operator (75 kg/165 lb), full fuel and auxiliary lines.
- Weight varies depending on machine configuration.



308E2 CR Mini Hydraulic Excavator with Swing Boom

Swing System

| Machine Swing Speed | 11 rpm |
|---------------------|--------|
| Boom Swing – Left | 60° |
| Boom Swing – Right | 50° |

Automatic swing break, spring applied, hydraulic release.

Travel System

| Travel Speed | | |
|------------------------|----------|-----------|
| High | 5.1 km/h | 3.17 mph |
| Low | 2.8 km/h | 1.74 mph |
| Maximum Traction Force | | |
| High Speed | 37.4 kN | 8,408 lb |
| Low Speed | 64.5 kN | 14,500 lb |
| Gradeability (maximum) | 30° | |
| Ground Pressure | 36.3 kPa | 5.26 psi |
| | | |

• Each track is driven by one independent 2-speed motor.

- Drive modules are integrated into the roller frame for total protection.
- · Straight line travel when tracking and operating the front linkage simultaneously.

Service Refill Capacities

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

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.3 kg (2.9 lb) of refrigerant which has a CO₂ equivalent of 1.9 metric tonnes (4,189 lb).

Hydraulic System

| Pump Flow at 2,000 rpm | 150 L/min | 39.6 gal/min |
|--|------------|--------------|
| Operating Pressure – Equipment | 28 000 kPa | 4,061 psi |
| Operating Pressure – Travel | 28 000 kPa | 4,061 psi |
| Operating Pressure – Swing | 24 000 kPa | 3,481 psi |
| Auxiliary Circuit – Primary (280 bar/4,061 psi) | 128 L/min | 33.8 gal/min |
| Auxiliary Circuit – Secondary (280 bar/4,061 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 |

• Load sensing hydraulics with variable displacement piston pump.

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 |

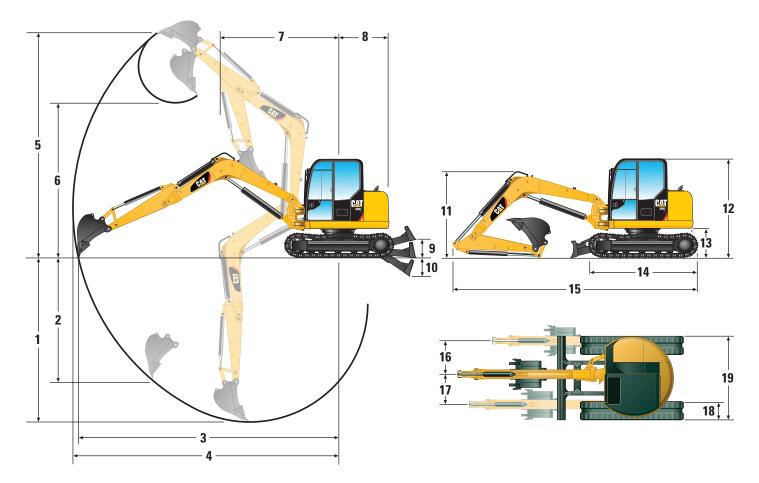
Cab

| 80 dB(A) ISO 6396 |
|-------------------------------------|
| 99 dB(A) ISO 6395 – Dynamic Test |
| |

Operating Specifications

| 1670 mm | 5 ft 6 in |
|----------|-------------------------------|
| 2210 mm | 7 ft 3 in |
| 279.4 mm | 11 in |
| 406 mm | 16 in |
| 251 kg | 551 lb |
| | 2210 mm 279.4 mm 406 mm |

308E2 CR Mini Hydraulic Excavator with Swing Boom



Dimensions

| Standard Stick | | Long Sti | ick | |
|----------------|---------|----------|---------|--------|
| 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" |

| Standard Stick | | Long Sti | ick | |
|----------------|---------|----------|---------|--------|
| 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 consistent 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

ENGINE

- Cat C3.3B diesel engine (meets U.S. EPA Tier 4 Final/EU Stage IIIB emission standards)
- Automatic engine idle
- Automatic engine shut-off
- Automatic two speed travel
- Diesel Particulate Filter (North America only)
- Diesel Oxidation Catalyst (North America only)
- Fuel and water separator
- Power on demand

HYDRAULIC SYSTEM

- 1-way and 2-way (combined function)
- Accumulator
- Automatic swing parking brake
- Auxiliary hydraulic lines
- Adjustable auxiliary relief
- Auxiliary line quick disconnects
- Cat interlock system: hydraulic lockout
- Continuous auxiliary flow
- Ecology drain
- Hydraulic oil cooler
- High definition hydraulics
- Load sensing/flow sharing

OPERATOR ENVIRONMENT

- 100% pilot control ergonomic joysticks
- Adjustable armrests
- Air conditioning/heat

OPTIONAL EQUIPMENT

ENGINE

Engine block heater

HYDRAULIC SYSTEM

- Quick coupler lines
- Boom lowering check valve*
- Stick lowering check valve*
- Secondary auxiliary hydraulic lines*

UNDERCARRIAGE

Blade, weld on

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- Track, triple grouser (steel), 450 mm (18 in)
- Track, triple grouser (steel) with rubber pad, 450 mm (18 in)
- Track, triple grouser (steel), 600 mm (24 in)

additional equipment. See your Cat dealer for available options.

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*Standard on VAB configuration.

- COMPASS: complete, operation, maintenance, performance and security system
- Multiple languages
- Cup holder
- High back suspension seat, heated
- Hydraulic neutral lockout bar
- Interior light
- Literature holder
- Pattern changer (optional in Europe)
- Radio (optional in Europe)
- Site reference system: leveling
- Tool storage area
- Travel control pedals with hand levers
- Washable floor mat
- Windshield wiper

UNDERCARRIAGE

- Dozer blade with float function
- Track, rubber belt, 450 mm (18 in) width
- Tie down eyes on track frame
- Towing eye on base frame

FRONT LINKAGE

- 180 degree bucket rotation
- Certified lifting eye on bucket linkage (optional in Europe)
- Front shovel capable
- Thumb ready stick

ELECTRICAL

- 12 volt electrical system
- 60 ampere alternator
- 650 CCA maintenance free battery
- Fuse box
- Ignition key start/stop switch
- Slow blow fuse
- Warning horn

LIGHTS AND MIRRORS

- Cab and boom light with time delay capability
- Mirror, rear view, cab left

SAFETY AND SECURITY

- Anti-theft system (COMPASS)
- Caterpillar Corporate "One Key" System
- Door locks
- Lockable fuel cap
- Rearview camera
- Retractable seat belt
- Roll Over Protective Structure (ROPS) (ISO 12117-2)
- Tip Over Protective Structure (TOPS) (ISO 12117)
- Travel alarm (optional in Europe)

FRONT LINKAGE

- Quick coupler: manual or hydraulic
- Thumb

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Materials and specifications are subject to change without notice. Featured machines in photos may include

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,

- Buckets
- Full range of performance matched work tools
 Auger, hammer, shear, ripper

LIGHTS AND MIRRORS

Mirror, cab rear

SAFETY AND SECURITY

- Battery disconnect
- Front wire mesh guard
- Front steel plate guard

OTHER ATTACHMENTS

Rain guard

TECHNOLOGY

■ Product Link[™]

Top guard – ISO 10262 (Level II)

Counterweight, extra, 1121 kg (2,493 lb)*

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