



# Cat® 308E2

## MINI HYDRAULIC EXCAVATOR

### FEATURES:

The Cat® 308E2 Mini Hydraulic Excavator with standard tail and fixed side boom design delivers high performance with low fuel consumption. The durable and reliable structure helps you work in applications with high productivity but low operating cost. The 308E2 features the following:

- **Redesigned operator environment with a much larger cab**, ingress and egress room, ergonomic joysticks, standard suspension seat and radio with auxiliary input.
- **Cat C3.3B efficient DI diesel engine** delivers higher fuel efficiency.
- **High digging forces, fast cycle times and excellent stability** boost your productivity.
- **Heavy duty structural design** to ensure machine durability and reliability.
- **Optional blade** with additional float function.
- **100% pilot controls and a load sensing hydraulic system.**
- **Good serviceability** with two large side doors.
- **Low counterweight** that extends to two sides of the machine, improving the stability.

- **Optional hydraulic line, long stick and blade option** will extend the 308E2 to work in broader applications.
- **Increased stability, engine horsepower and hydraulic power.**
- **Standard/Power dual mode** offers you the choice of lower fuel consumption or superior productivity with a push of a button.

### NEW STANDARD FEATURES ON THE 308E2

- **New travel motor and swing motor** for better swing performance and reliability.
- **New console with larger armrest** for greater controllability and comfort.
- **Auto idle function** for lower fuel consumption and noise level.
- **Fuel tank sight gauge and hydraulic oil gauge** with protection guard.
- **Larger fuel filler cap** for easier servicing.
- **Horn in the tool box** with better protection.
- **Equipped with GPS** for accurate remote control and easy machine management.

## Specifications

### Engine

|                             |                    |
|-----------------------------|--------------------|
| Engine Model                | Cat C3.3B DI Turbo |
| Rated Net Power @ 2,000 rpm |                    |
| ISO 9249/SAE J1349          | 46 kW              |
| Gross Power – SAE J1995     | 49.7 kW            |
| Bore                        | 94 mm              |
| Stroke                      | 120 mm             |
| Displacement                | 3.33 L             |

### Weights\*

|                           |         |
|---------------------------|---------|
| Operating Weight with Cab | 7160 kg |
|---------------------------|---------|

\*Weight includes standard stick, counterweight, steel tracks, bucket, operator and full fuel.

### Bucket

|                         |         |
|-------------------------|---------|
| With Standard Stick:    |         |
| Bucket Capacity         | 0.38 m³ |
| Bucket Width            | 949 mm  |
| With Long Stick Option: |         |
| Bucket Capacity         | 0.31 m³ |
| Bucket Width            | 818 mm  |

### Front

|                |         |
|----------------|---------|
| Boom           | 3700 mm |
| Standard Stick | 1820 mm |
| Long Stick     | 2210 mm |

### Swing System

|                     |           |
|---------------------|-----------|
| Machine Swing Speed | 10.8 rpm  |
| Swing Torque        | 16.3 kN·m |

### Hydraulic System

|  |            |
|--|------------|
| Load Sensing Hydraulics with Variable Displacement Piston Pump |            |
| Pump Flow at 2,000 rpm   | 147 L/min  |
| Operating Pressure – Equipment                                 | 28 000 kPa |
| Operating Pressure – Travel                                    | 28 000 kPa |
| Operating Pressure – Swing                                     | 24 000 kPa |
| Digging Force – Stick (standard)                               | 38.9 kN    |
| Digging Force – Bucket   | 57.1 kN    |

### Blade

|             |         |
|-------------|---------|
| Width       | 2300 mm |
| Height      | 450 mm  |
| Dig Depth   | 350 mm  |
| Lift Height | 390 mm  |

### Travel System

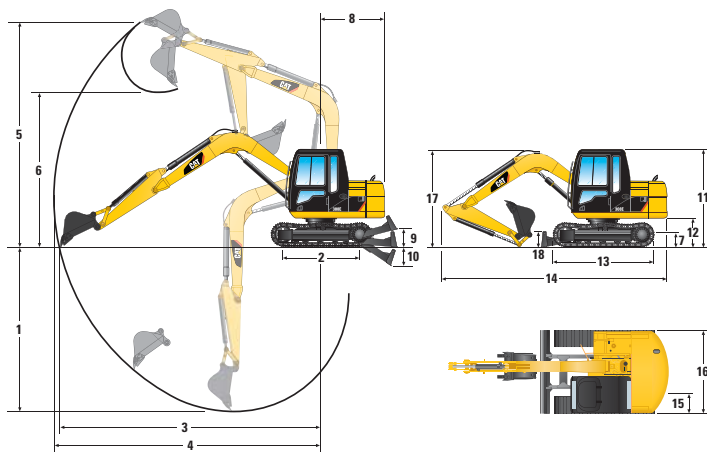
|                        |          |
|------------------------|----------|
| Travel Speed – High    | 5.1 km/h |
| Travel Speed – Low     | 3.2 km/h |
| Maximum Drawbar Pull   | 56.9 kN  |
| Gradeability (maximum) | 30°      |

### Service Refill Capacities

|                  |                             |
|------------------|-----------------------------|
| Swing Drive      | Lubricated by hydraulic oil |
| Cooling System   | 12.1 L                      |
| Engine Oil       | 11.2 L                      |
| Fuel Tank        | 135 L                       |
| Hydraulic Tank   | 51 L                        |
| Hydraulic System | 94 L                        |
| Final Drive      | 1.5 L                       |



# 308E2 Hydraulic Excavator



## Dimensions\*

|                                    |         |
|------------------------------------|---------|
| 1 Maximum Digging Depth            | 4210 mm |
| 2 Length of Track on Ground        | 2280 mm |
| 3 Maximum Reach at Ground Line     | 6290 mm |
| 4 Maximum Reach of Working Range   | 6420 mm |
| 5 Maximum Cutting Height           | 7330 mm |
| 6 Maximum Dump Height              | 5300 mm |
| 7 Ground Clearance, Frame          | 370 mm  |
| 8 Tail Swing Radius                | 1750 mm |
| 9 Blade Up                         | 390 mm  |
| 10 Blade Down                      | 350 mm  |
| 11 Cab Height                      | 2540 mm |
| 12 Ground Clearance, Counterweight | 775 mm  |
| 13 Track Length                    | 2910 mm |
| 14 Shipping Length                 | 6080 mm |
| 15 Track Shoe Width                | 450 mm  |
| 16 Shipping Width                  | 2320 mm |
| 17 Shipping Height                 | 2700 mm |
| 18 Blade Height                    | 450 mm  |

\*Working range and dimensions are for standard stick.

## Lift Capacities at Ground Level\*

| Lift Point Height | Lift Point Radius | 3000 mm |      | Maximum Radius |      |
|-------------------|-------------------|---------|------|----------------|------|
|                   |                   | Front   | Side | Front          | Side |
| Ground Line       | kg                | 3100    | 2400 | 1100           | 900  |
| -3.0 m            | kg                | 2500    | 2500 | 1050           | 1000 |

\*The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567:2007 (GB/T 13331-2014) 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

- Diesel engine, C3.3B with mechanical governor
- Auto idle
- Two speed travel with manual shift
- Cat one key security system
- Door locks and cap locks
- Signaling/warning horn
- Product Link™ (PL241) – monitors machine hours and location
- Muffler with cover
- Radial seal air filter, double element
- Stacked cooling package
- Auxiliary hydraulic valve (one way/two way)
- Straight line travel
- Accumulator
- Cab:
  - Openable front windshield with assist device
  - Removable lower windshield with in cab storage bracket
  - Windshield wiper and washer
  - Interior lighting
  - Coat hook
  - Ashtray
  - AM/FM radio
  - Two stereo speakers
  - Antenna
  - Cup holder
  - Storage pocket
  - Mounting for front and top guard (mounting boss)
- Color LCD monitor
- Hour meter
- Retractable seat belt (50 mm width)
- Hydraulic activation control lever (lock out) for all controls
- Two travel control hand levers
- Capability to install one additional pedal for auxiliary hydraulic control
- Seat with suspension
- 450 mm triple grouser track shoes with holes (for rubber pad)
- Towing eye on base frame
- Rearview mirror, mounted on right hand side of upper frame
- Light GP – cab

## OPTIONAL EQUIPMENT

- Blade
- Long stick
- Control – AUX, auxiliary hydraulic lines from main auxiliary valve to boom foot plus auxiliary control pedal, auxiliary hydraulic lines from boom foot to stick, stop valves
- Travel alarm
- Heavy duty swivel guard
- Cab front guard
- Cab top guard
- Drain-oil pan (ecology)
- Heater, water jacket
- MTG GP-FILM; plate for year of manufacture for export machines

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