



Cat[®] 308E

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat[®] 308E 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 308E 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 C3.3 efficient DI engine** meets Tier 2 emission standards and 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 308E to work in broader applications.
- **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

- **New tool box design with much deeper storage**, together with new grease can holder, service access step and chassis light protection.
- **Travel speed** selection moved off floor to left side console.
- **New HVAC with fresh air filter** for better operator environment.
- **Standard/Power dual mode** offers you the choice of lower fuel consumption or superior productivity with a push of a button.

Specifications

Engine

Engine Model	Cat C3.3 DI Turbo
Rated Net Power @ 2,000 rpm	
ISO 9249/EEC 80/1269	46.8 kW
Gross Power – ISO 14396	49.7 kW
Bore	94 mm
Stroke	120 mm
Displacement	3.33 L

Weights*

Operating Weight with Cab	7160 kg
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*Weight includes standard stick, counterweight, steel tracks, bucket, operator, full fuel and auxiliary lines.

Bucket

With Standard Stick:	
Bucket Capacity	0.38 m ³
Bucket Width	945 mm
With Long Stick Option:	
Bucket Capacity	0.31 m ³
Bucket Width	820 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

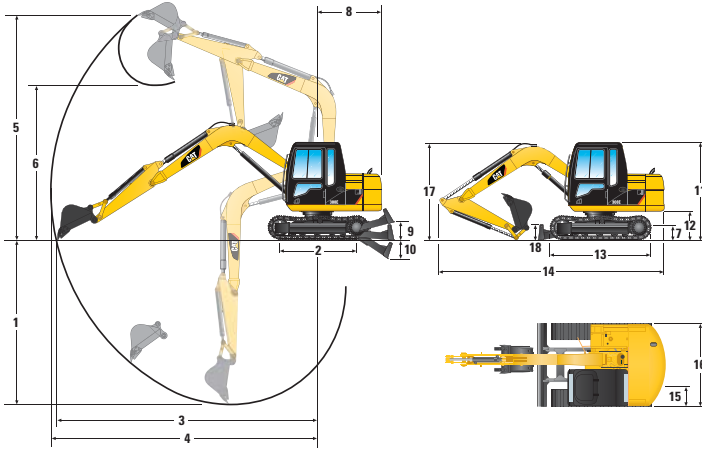
Travel Speed – High	5.1 km/h
Travel Speed – Low	3.2 km/h
Maximum Drawbar Pull	56.9 kN
Gradeability (maximum)	30°

Service Refill Capacities

Cooling System	12.1 L
Engine Oil	11.2 L
Fuel Tank	135 L
Hydraulic Tank	51 L
Hydraulic System	94 L
Final Drive	1.3 L
Swing Drive	1.5 L



308E 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	2560 mm
12 Ground Clearance, Counterweight	750 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 Radius \ Lift Point Height		3000 mm		Maximum Radius	
		Front	Side	Front	Side
Ground Line	kg	3100	2400	1100	900
-3.0 m	kg	2100	2100	1600	1600

*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

- Diesel engine, C3.3 with electrical governor
- Two speed travel with manual shift
- Cat one key security system
- Door locks and cap locks
- Signaling/warning horn
- GPS ready
- Muffler with cover
- Radial seal air filter, double element
- Stacked cooling package
- Auxiliary hydraulic valve (one)
- Straight line travel
- Accumulator
- Cab:
 - Operable front windshield with assist device
 - Removable lower windshield with in cab storage bracket
 - Windshield wiper and washer
 - Interior lighting
 - Coat hook
 - Ashtray
 - Radio mounting (meet DIN size)
 - 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

OPTIONAL EQUIPMENT

- Blade
- Long stick
- Lighting – cab
- Control – PTO, auxiliary hydraulic lines from main auxiliary valve to boom foot plus auxiliary control pedal
- Lines Group – PTO, auxiliary hydraulic lines from boom foot to stick, stop valves
- Travel alarm
- Heavy duty swivel guard
- Cab front guard
- Drain-oil pan (ecology)
- Heater, water jacket

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AEHQ7248 (04-14)
(China)

