



Cat® 307E2

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat® 307E2 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 307E2 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 C2.6 efficient DI turbo 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 and blade option** will extend the 307E2 to work in broader applications.

- **Increased stability, engine horsepower and hydraulic power** making the 307E2 the most powerful and best performing 7 ton excavator Caterpillar has ever made.
- **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 307E2

- **New travel motor and swing motor** for better swing performance and reliability.
- **New monitor with battery voltage indicator and 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 C2.6 DI Turbo
Rated Net Power @ 2,000 rpm	
ISO 9249/SAE J1349	41.5 kW
Gross Power – SAE J1995	43 kW
Bore	87 mm
Stroke	110 mm
Displacement	2.6 L

Weights*

Operating Weight with Cab	6900 kg
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*Weight includes standard stick, counterweight, steel tracks, bucket, operator and full fuel.

Bucket

With Standard Stick:	
Bucket Capacity	0.33 m³
Bucket Width	854 mm

Front

Boom	3700 mm
Standard Stick	1665 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)	37.1 kN
Digging Force – Bucket	50.6 kN

Blade

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

Travel System

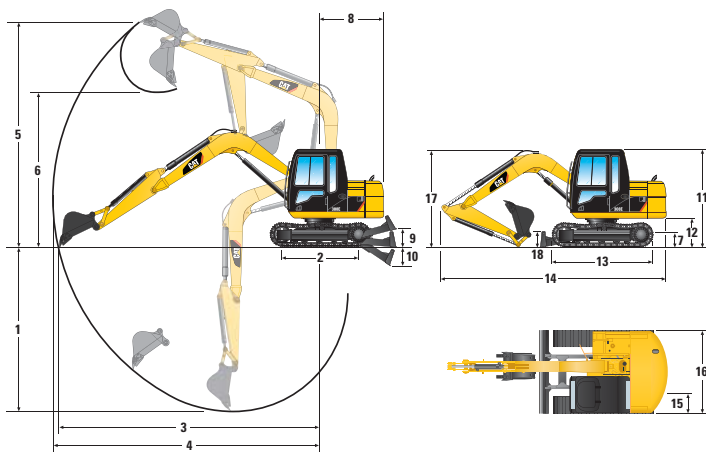
Travel Speed – High	5.1 km/h
Travel Speed – Low	3.2 km/h
Maximum Drawbar Pull	56.9 kN
Gradeability (maximum)	30°

Service Refill Capacities

Swing Drive	Lubricated by hydraulic oil
Cooling System	11.9 L
Engine Oil	10.2 L
Fuel Tank	135 L
Hydraulic Tank	51 L
Hydraulic System	94 L
Final Drive	1.5 L



307E2 Hydraulic Excavator



Dimensions*

1 Maximum Digging Depth	4070 mm
2 Length of Track on Ground	2120 mm
3 Maximum Reach at Ground Line	6180 mm
4 Maximum Reach of Working Range	6300 mm
5 Maximum Cutting Height	7240 mm
6 Maximum Dump Height	5190 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	2760 mm
14 Shipping Length	6070 mm
15 Track Shoe Width	450 mm
16 Shipping Width	2300 mm
17 Shipping Height	2630 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	2700	2150	1000	850
-3.0 m	kg	2500	2500	800	800

*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, C2.6 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)
- 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
- 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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