

# Cat® 307E2

MINI HYDRAULIC EXCAVATOR

## **Specifications**

#### **Engine**

Engine Model	Cat® C2.4 Turbo*	
Rated Net Power @ 2,200 rpm		
ISO 9249/EEC 80/1269	37.7 kW	50.6 hp
Gross Power		
ISO 14396	39.6 kW	53.1 hp
Bore	87 mm	3.4 in
Stroke	102.4 mm	4.0 in
Displacement	2.4 L	146.5 in <sup>3</sup>

<sup>\*</sup>Meets U.S. EPA Tier 4 Final and EU Stage IIIB emission standards.

#### Weights

Operating Weight with Cab	7270 kg	16,028 lb

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

#### **Swing System**

Machine Swing Speed	10.2 rnm
iviacillie Swilly Speed	10.2 rpm

• Automatic swing break, spring applied, hydraulic release.

#### **Travel System**

Travel Speed		
High	5.1 km/h	3.17 mph
Low	3.2 km/h	1.99 mph
Maximum Traction Force		
High Speed	33.8 kN	7,599 lbf
Low Speed	59.3 kN	13,331 lbf
Gradeability (maximum)	20°	
Ground Pressure	33.9 kPa	4.92 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	135 L	35.7 gal
Cooling System	14 L	3.7 gal
Engine Oil	11.0 L	2.9 gal
Hydraulic Tank	51 L	13.5 gal
Hydraulic System	78 L	20.6 gal

Hydraulic System		
Pump Flow at 2,400 rpm	154 L/min	40.9 gal/min
Operating Pressure – Equipment	28 000 kPa	4,061 psi
Operating Pressure – Travel	28 000 kPa	4,061 psi
Operating Pressure – Swing	28 000 kPa	4,061 psi
Auxiliary Circuit – Primary (280 bar/4,061 psi)	128 L/min	33.8 gal/min
Auxiliary Circuit – Secondary (280 bar/4,061 psi)	33 L/min	8.7 gal/min
Digging Force – Stick (standard)	37.1 kN	8,340 lbf
Digging Force – Bucket	50.6 kN	11,375 lbf

· Load sensing hydraulics with variable displacement piston pump.

#### **Blade**

Width	2300 mm	90.6 in
Height	445 mm	17.5 in
Dig Depth	390 mm	15.3 in
Lift Height	350 mm	13.8 in

#### Cab

Average Exterior Sound Pressure	98 dB(A) ISO 6395 -
	Dynamic Test

#### **Operating Specifications**

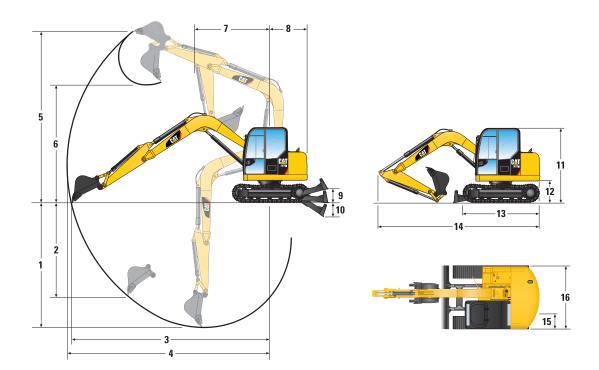
Stick Length – Standard	1670 mm	5 ft 6 in
Machine Overhang	358 mm	1 ft 2 in



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### Undercarriage

Number of Carrier Rollers 1 per side
Number of Track Rollers 5 per side
Track Roller Type Center flange



#### **Dimensions**

Ctandard Ctials				
	Standard Stick			
1 Dig Depth	4070 mm	13'4"		
2 Vertical Wall	3630 mm	11'11"		
3 Maximum Reach at Ground Level	6160 mm	20'3"		
4 Maximum Reach	6300 mm	20'8"		
5 Maximum Dig Height	7240 mm	23'9"		
6 Maximum Dump Clearance	5190 mm	17'3"		
7 Boom In Reach	1690 mm	5'7"		
8 Tail Swing (standard counterweight)	1750 mm	5'9"		
9 Maximum Blade Height	390 mm	1'3"		

	Standard Stick		
10 Maximum Blade Depth	350 mm	1'2"	
11 Boom Height in Shipping Position	2630 mm	8'8"	
O/A Shipping Height	2630 mm	8'8"	
12 Swing Bearing Height	775 mm	2'7"	
13 O/A Undercarriage Length	2760 mm	8'9"	
14 O/A Shipping Length	6080 mm	19'11"	
15 Track Belt/Shoe Width	450 mm	1'6"	
16 O/A Track Width	2200 mm 7'3"		

### Lift Capacities at Ground Level (Standard Stick)\*

Lift Point Radius	Radius 3000 mm (9'8") 4000 mm (13'1") 50		3000 mm (9'8")		5000 mr	5000 mm (16'5")		5390 mm (17'8")	
		Front	Side	Front	Side	Front	Side	Front	Side
Blade Down	kg	3560	2410	2600	1520	2070	1120	1010	990
	lb	7,849	5,313	5,732	3,351	4,564	2,469	2,227	2,183
Blade Up	kg	2470	2120	1540	1350	1120	990	990	880
	lb	5,445	4,674	3,395	2,976	2,469	2,183	2,183	1,940

<sup>\*</sup> 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.

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#### 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
- Auto engine shut off
- Automatic engine idle
- Automatic swing park brake
- Automatic two speed travel
- Auxiliary line quick disconnects
- Boom and stick check valve (standard in Europe only)
- Boom mounted light right side
- Cab mounted work light
- Cab, ROPS ISO 12117-2, 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
- Floor mat
- Foot travel pedals
- Footrest
- High ambient cooling (standard in all regions except Europe)
- Hydraulic oil cooler
- Hydraulic quick coupler lines
- Lifting eye on bucket linkage (optional in Europe)
- Low maintenance linkage pin joints
- Maintenance free battery
- Product Link<sup>™</sup> ready
- Rain guard
- Rearview camera
- Rearview mirror
- Retractable seatbelt
- Secondary auxiliary hydraulic lines
- Site reference system
- "Thumb ready" stick
- Travel alarm (optional in Europe)

#### **OPTIONAL EQUIPMENT**

- Block heater
- Dual lock hydraulic coupler (available from dealer)
- Dual lock mechanical coupler (available from dealer)
- Ecology drain valve for hydraulic tank
- Front window mesh guard

- Front window steel bar guard
- Overhead guard (TOPGUARD Level 2)
- Track options:
  - Steel track 450 mm (18 in)
  - Steel track with rubber pads 450 mm (18 in)



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