



Cat[®] 305.5E2

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat[®] 305.5E2 Mini Hydraulic Excavator with standard tail and 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.

- Cat C2.4 efficient DI engine delivers high fuel efficiency.
- High digging forces, fast cycle times, and excellent stability boosts your productivity.
- 100% pilot controls and a load sensing hydraulic system deliver smooth, powerful performance.
- Heavy duty structural designs ensure machine durability and reliability.
- Good serviceability with two big side doors.
- Low counterweight extends to both sides of the machine, improving the stability.
- Optional hydraulic line allows the machine to be equipped with hydraulic work tools.

STANDARD FEATURES ON THE 305.5E2:

- Viscous cab mounting system, low cab vibration for operator comfort.
- Durable swing motor for excellent swing performance and reliability.
- Durable travel motor for smooth travel and reliability.
- Fuel tank sight gauge and hydraulic oil gauge with protection guard.
- Meets China Stage II sound level requirement.
- Equipped with GPS for easy machine management.
- Greased and lubricated tracks for significantly increased track life.
- Mechanical suspension seat for greater comfort in the operator work environment.

Specifications

Engine

Engine Model	Cat C2.4 DI
Gross Power @ 2,400 rpm SAE J1995	34.1 kW
Rated Net Power @ 2,400 rpm ISO 9249/SAE J1349	31.1 kW
Bore	87 mm
Stroke	102.4 mm
Displacement	2.4 L

Bucket

Bucket Capacity	0.22 m ³
Bucket Width	766 mm

Front

Boom Length	3200 mm
Stick Length	1500 mm

Weights*

Operating Weight with Cab	5400 kg
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*Weight includes counterweight, steel tracks, 0.22 m³ bucket, operator.



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Travel System

Travel Speed – High	4.3 km/h
Travel Speed – Low	2.8 km/h
Maximum Traction Force	40.2 kN
Gradeability (maximum)	25°

Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump

Type	Cat
Pump Flow at 2,400 rpm	140 L/min
Operating Pressure – Equipment	25 000 kPa
Operating Pressure – Travel	25 000 kPa
Operating Pressure – Swing	21 600 kPa
Digging Force – Stick	27.2 kN
Digging Force – Bucket	35 kN

Swing System

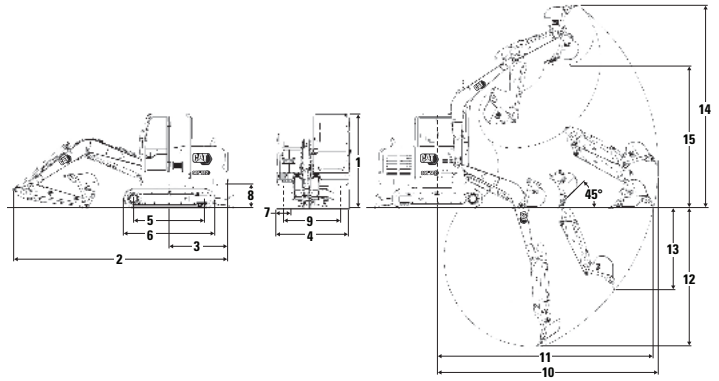
Machine Swing Speed	10.5 min ⁻¹
Swing Torque	13.9 N·m

Blade

Width	1950 mm
Height	360 mm
Dig Depth	480 mm
Lift Height	365 mm

Service Refill Capacities

Cooling System	9.8 L
Engine Oil	9.5 L
Fuel Tank	78 L
Hydraulic Tank	58 L
Hydraulic System	85 L



Dimensions

1	Transport Height	2540 mm
2	Overall Shipping Length	5765 mm
3	Tail Swing Radius	1580 mm
4	Overall Shipping Width	1950 mm
5	Length to Center of Rollers	1920 mm
6	Overall Track Length	2440 mm
7	Track Shoe Width	400 mm
8	Ground Clearance	628 mm
9	Track Gauge	1550 mm
10	Maximum Reach	5955 mm
11	Maximum Reach at Ground Level	5830 mm
12	Dig Depth	3720 mm
13	Maximum Vertical Wall	2210 mm
14	Maximum Dig Height	5460 mm
15	Maximum Dump Clearance	3835 mm

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Lift Capacities

Lift Point Height		Lift Point Radius (2.0 m)			Lift Point Radius (3.0 m)			Lift Point Radius (4.0 m)			Lift Point Radius (Maximum)			
		Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m
		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
4.0 m	kg				*900	*900	*900	*900	*900	*900	*700	*700	*700	4.4
3.0 m	kg				*1100	*1100	*1100	*950	*950	*950	*350	*350	*350	5.0
2.0 m	kg				*1550	*1550	*1550	*1150	*1150	*1150	*950	650	550	5.2
1.0 m	kg				*1950	*1950	1250	*1300	*1300	800	*950	650	550	5.2
0 m	kg	*1000	*1000	*1000	*2050	1500	1200	*1400	950	800	*750	*750	500	5.2
-1.0 m	kg	*2600	*2600	*2600	*1950	1950	1200	*1350	950	800	*950	*950	600	4.8
-2.0 m	kg	*2450	*2450	*2450	*1650	*1650	*1650	*1050	*1050	*1050	*600	*600	*600	4.2

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.

*Hydraulic limit.

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Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
Diesel engine, C2.4	✓		Monitor:	✓	
One touch low idle	✓		– Instrument panel and gauge	✓	
Two speed travel with manual shift	✓		– Warning information and machine condition	✓	
Caterpillar one key security system	✓		Hour meter	✓	
Door locks and cap locks	✓		Retractable seat belt (50 mm width)	✓	
Signaling/warning horn	✓		Hydraulic activation control lever (lock out) for all controls	✓	
Product Link™ – monitors machine hours and location	✓		Two travel control hand levers	✓	
Muffler with cover	✓		Capability to install one additional pedal for auxiliary hydraulic control	✓	
Radial seal air filter, double element	✓		Greased and lubricated track	✓	
Stacked cooling package	✓		400 mm triple grouser track shoes with holes (for rubber pad)	✓	
Auxiliary hydraulic valve	✓		1950 mm blade with cutting edge	✓	
Accumulator	✓		Towing eye on base frame	✓	
Cab:	✓		Rearview mirror, mounted on right hand side of upper frame	✓	
– Mechanical suspension seat	✓		Light Group	✓	
– Openable front windshield with assist device	✓		Auxiliary line		✓
– Removable lower windshield	✓		B6 hammer		✓
– Windshield wiper and washer	✓				
– Interior lighting	✓				
– Coat hook	✓				
– Radio	✓				
– Two stereo speakers	✓				
– Antenna	✓				
– Cup holder	✓				
– Storage pocket	✓				
– Mounting for front and top guard (mounting boss)	✓				

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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