



# Cat<sup>®</sup> 303.5E CR

## MINI HYDRAULIC EXCAVATOR

### FEATURES:

The Cat<sup>®</sup> 303.5E CR Mini Hydraulic Excavator delivers high performance in a compact design to help you work in the tightest applications.

The 303.5E CR features the following:

- **Fingertip control for the boom swing and auxiliary hydraulic functions** makes operation easier while providing more room on the floor for the operator's feet.
- **Compact Radius Design** lets you work within confined areas. The radius of the upper body stays within 100 mm (4 in) of the undercarriage so the operator can concentrate on the work being done without having to worry about the back of the machine.
- **High digging forces, fast cycle times, and increased stability** boosts your productivity.
- **Over 200 degrees of bucket rotation** provides greater material retention during truck loading and easier flat wall digging without having to reposition the machine.
- **100% pilot controls and a load sensing hydraulic system.**

### NEW STANDARD FEATURES ON THE 303.5E CR ARE MADE POSSIBLE WITH THE *COMPASS* (Complete Operation, Maintenance, Performance, And Security System) CONTROL PANEL:

- **Security System:** A standard anti-theft device uses a 5 digit alphanumeric password that is required to start the machine (when the security system is enabled).
- **Adjustable Work Tool Auxiliary Flow Control:** Simple adjustability of the hydraulic flow going down the boom and stick to the work tool. This is done by a simple selection from a flow of 1-15.
- **Continuous Flow:** Set the auxiliary flow in any direction and at any speed simply, safely, and easily on the right hand joystick.
- **Economy Mode:** Save up to 20% fuel while maintaining high productivity with a push of a button.

## Specifications

### Engine

Engine Model	Cat C1.8	
<b>Rated Net Power @ 2,400 rpm</b> ISO 9249/EEC 80/1269	23.6 kW	31.6 hp
<b>Gross Power</b> ISO 14396	24.8 kW	33.3 hp
Bore	87 mm	3.4 in
Stroke	102.4 mm	4 in
Displacement	1.8 L	110 in <sup>3</sup>

### Weights\*

Operating Weight with Canopy	3548 kg	7,822 lb
Operating Weight with Cab	3732 kg	8,227 lb

\*Weight includes counterweight, rubber tracks, bucket, operator, full fuel and auxiliary lines.

### Travel System

Travel Speed – High	4.6 km/h	2.8 mph
Travel Speed – Low	2.6 km/h	1.6 mph
Max Traction Force – High Speed	16.9 kN	3,799 lb
Max Traction Force – Low Speed	31.0 kN	6,969 lb
Ground Pressure	32.1 kPa	4.7 psi
Gradeability (maximum)	30°	

### Service Refill Capacities

Cooling System	5.5 L	1.5 gal
Engine Oil	7.0 L	1.8 gal
Fuel Tank	46 L	12.2 gal
Hydraulic Tank	42.3 L	11.2 gal
Hydraulic System	65 L	17.2 gal

### Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump		
Pump Flow at 2,400 rpm	87.6 L/min	23.1 gal/min
Operating Pressure – Equipment	245 bar	3,553 psi
Operating Pressure – Travel	245 bar	3,553 psi
Operating Pressure – Swing	181 bar	2,625 psi
Auxiliary Circuit – Primary (186 bar/2,734 psi)	60 L/min	15.9 gal/min
Auxiliary Circuit – Secondary (174 bar/2,524 psi)	27 L/min	7.1 gal/min
Digging Force – Stick (standard)	18.9 kN	4,249 lb
Digging Force – Stick (long)	16.9 kN	3,799 lb
Digging Force – Bucket	33.0 kN	7,419 lb

### Swing System

Machine Swing Speed	9 rpm
Boom Swing – Left*	80°
Boom Swing – Right	50°

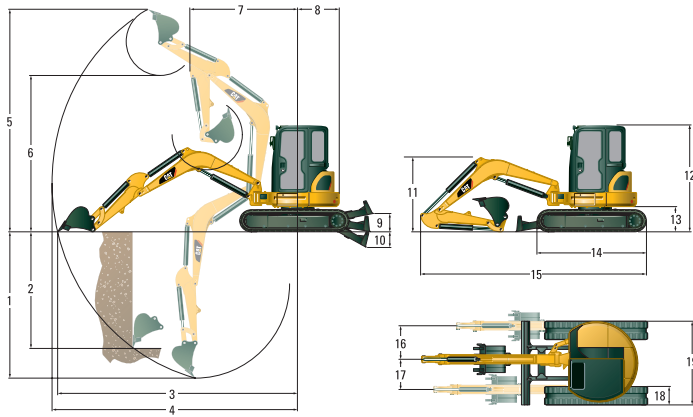
\*Automatic swing break, spring applied, hydraulic release.

### Blade

Width	1780 mm	70.0 in
Height	325 mm	12.8 in
Dig Depth	470 mm	18.5 in
Lift Height	400 mm	15.7 in



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## Dimensions – Standard Stick

1	2880 mm	9'6"	11	1420 mm	4'8"
2	2320 mm	7'8"	12	2500 mm	8'2"
3	5060 mm	16'8"	13	565 mm	1'10"
4	5200 mm	17'1"	14	2220 mm	7'3"
5	4920 mm	16'2"	15	4730 mm	15'6"
6	3520 mm	11'6"	16	765 mm	2'6"
7	2060 mm	6'9"	17	670 mm	2'2"
8	890 mm	2'11"	18	300 mm	1'0"
9	400 mm	1'4"	19	1780 mm	5'10"
10	470 mm	1'7"			

## Lift Capacities at Ground Level\*

Lift Point Radius		3000 mm (9'8")		4000 mm (13'1")	
		Front	Side	Front	Side
Blade Down	kg	1370	740	880	470
	(lb)	(2,940)	(1,590)	(1,890)	(1,010)
Blade Up	kg	770	680	490	440
	(lb)	(1,698)	(1,499)	(1,080)	(970)

\*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

- 1-way and 2-way (combined function) auxiliary hydraulic lines
- Accumulator
- Adjustable auxiliary flow control for work tools
- Adjustable wrist rests
- Alternator
- Anti-theft security system
- Automatic engine idle
- Automatic swing park brake
- Automatic two speed travel
- Battery disconnect switch
- Boom cylinder guard
- Bucket, heavy duty
- Canopy with FOPS ISO 10262 (Level 1) and Tip-Over Protection (TOPS) ISO 12117
- Coat hook
- COMPASS display panel
- Cup holder
- Continuous flow
- Dozer blade with float function
- Economy mode setting for up to 20% fuel savings
- Floor mat
- Foot travel pedals
- Gauges or indicators for fuel level engine coolant temperature, hour meter, engine oil pressure, air cleaner, alternator and glow plugs, service interval
- Horn
- Hydraulic oil cooler
- Light, canopy
- Lockable storage box
- Low maintenance linkage pin joints
- Maintenance free battery
- Product Link™
- Rubber track
- Retractable seatbelt
- Standard stick
- Suspension seat
- Swing boom

## OPTIONAL EQUIPMENT

- Control arrangement, primary auxiliary
- Cab, radio ready with FOPS ISO 10262 (Level 1) and Tip-Over Protection (TOPS) ISO 12117 with heater/defroster/air conditioning, interior light, windshield wiper/washer, right/left mirror and light (cab)
- Front guard, cab
- Front guard, canopy
- Steel track
- Socket beacon, canopy
- Mirror, cab, rear

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