

303.5E CR, 304E CR, 305E CR, 305.5E CR Specifications

Engine

Engine Model		
303.5E CR	Cat® C1.8	
304E CR/305E CR/305.5E CR	Cat® C2.4	
Rated Net Power (ISO 9249)		
303.5E CR	23.6 kW	31.6 hp
304E CR/305E CR	30 kW	40.2 hp
305.5E CR	32.9 kW	44.2 hp
Gross Power		
303.5E CR	24.8 kW	33.3 hp
304E CR/305E CR	31.2 kW	41.8 hp
305.5E CR	34.1 kW	45.7 hp
Bore		
	87 mm	3.4 in
Stroke		
	102.4 mm	4 in
Displacement		
303.5E CR/304E CR	1.8 L	110 in ³
305E CR/305.5E CR	2.4 L	146 in ³

Weights*

Operating Weight with Canopy		
303.5E CR	3508 kg	7,734 lb
304E CR	3854 kg	8,497 lb
305E CR	4915 kg	10,836 lb
305.5E CR	5270 kg	11,618 lb
Operating Weight with Cab		
303.5E CR	3692 kg	8,139 lb
304E CR	4009 kg	8,838 lb
305E CR	5088 kg	11,217 lb
305.5E CR	5415 kg	11,938 lb

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

Travel System

Travel Speed – High		
	4.6 km/h	2.8 mph
Travel Speed – Low		
303.5E CR/304E CR/305E CR	2.6 km/h	1.6 mph
305.5E CR	2.8 km/h	1.7 mph
Maximum Traction Force – High Speed		
303.5E CR	16.9 kN	3,799 lb
304E CR	16.8 kN	3,777 lb
305E CR	24.1 kN	5,418 lb
305.5E CR	26.8 kN	6,025 lb
Maximum Traction Force – Low Speed		
303.5E CR	31 kN	6,969 lb
304E CR	30.8 kN	6,921 lb
305E CR	45.2 kN	10,161 lb
305.5E CR	47.8 kN	10,745 lb
Ground Pressure		
303.5E CR	32.1 kPa	4.7 psi
304E CR	29.1 kPa	4.2 psi
305E CR	28.2 kPa	4.1 psi
305.5E CR	30 kPa	4.4 psi

Service Refill Capacities

Cooling System		
303.5E CR/304E CR	5.5 L	1.5 gal
305E CR/305.5E CR	10.5 L	2.8 gal
Engine Oil		
303.5E CR/304E CR	7.0 L	1.8 gal
305E CR/305.5E CR	9.5 L	2.5 gal
Fuel Tank		
303.5E CR/304E CR	46 L	12.2 gal
305E CR/305.5E CR	63 L	16.6 gal
Hydraulic Tank		
303.5E CR/304E CR	42.3 L	11.2 gal
305E CR/305.5E CR	68.3 L	18 gal
Hydraulic System		
303.5E CR/304E CR	65 L	17.2 gal
305E CR/305.5E CR	78 L	20.6 gal

Hydraulic System*

Pump Flow at 2,400 rpm		
303.5E CR/304E CR	87.6 L/min	23.1 gal/min
305E CR	119.3 L/min	31.5 gal/min
305.5E CR	129.6 L/min	34.2 gal/min
Operating Pressure – Equipment		
	245 bar	3,553 psi
Operating Pressure – Travel		
	245 bar	3,553 psi
Operating Pressure – Swing		
303.5E CR/304E CR	181 bar	2,625 psi
305E CR/305.5E CR	185 bar	2,690 psi
Auxiliary Circuit – Primary (186 bar/2,734 psi)		
303.5E CR/304E CR	60 L/min	15.9 gal/min
305E CR/305.5E CR	70 L/min	18.5 gal/min
Auxiliary Circuit – Secondary (174 bar/2,524 psi)		
303.5E CR/304E CR	27 L/min	7.1 gal/min
305E CR/305.5E CR	38 L/min	10 gal/min
Digging Force = Stick (standard)		
303.5E CR	18.9 kN	4,249 lb
304E CR	21.6 kN	4,856 lb
305E CR	24.7 kN	5,550 lb
305.5E CR	28.9 kN	6,500 lb
Digging Force = Stick (long)		
303.5E CR	16.9 kN	3,799 lb
304E CR	19.5 kN	4,384 lb
305E CR	21.3 kN	4,788 lb
305.5E CR	24.8 kN	5,575 lb
Digging Force = Bucket		
303.5E CR	33.0 kN	7,419 lb
304E CR	37.8 kN	8,498 lb
305E CR	44.7 kN	10,050 lb
305.5E CR	50.9 kN	11,445 lb

* Load sensing hydraulics with variable displacement piston pump.

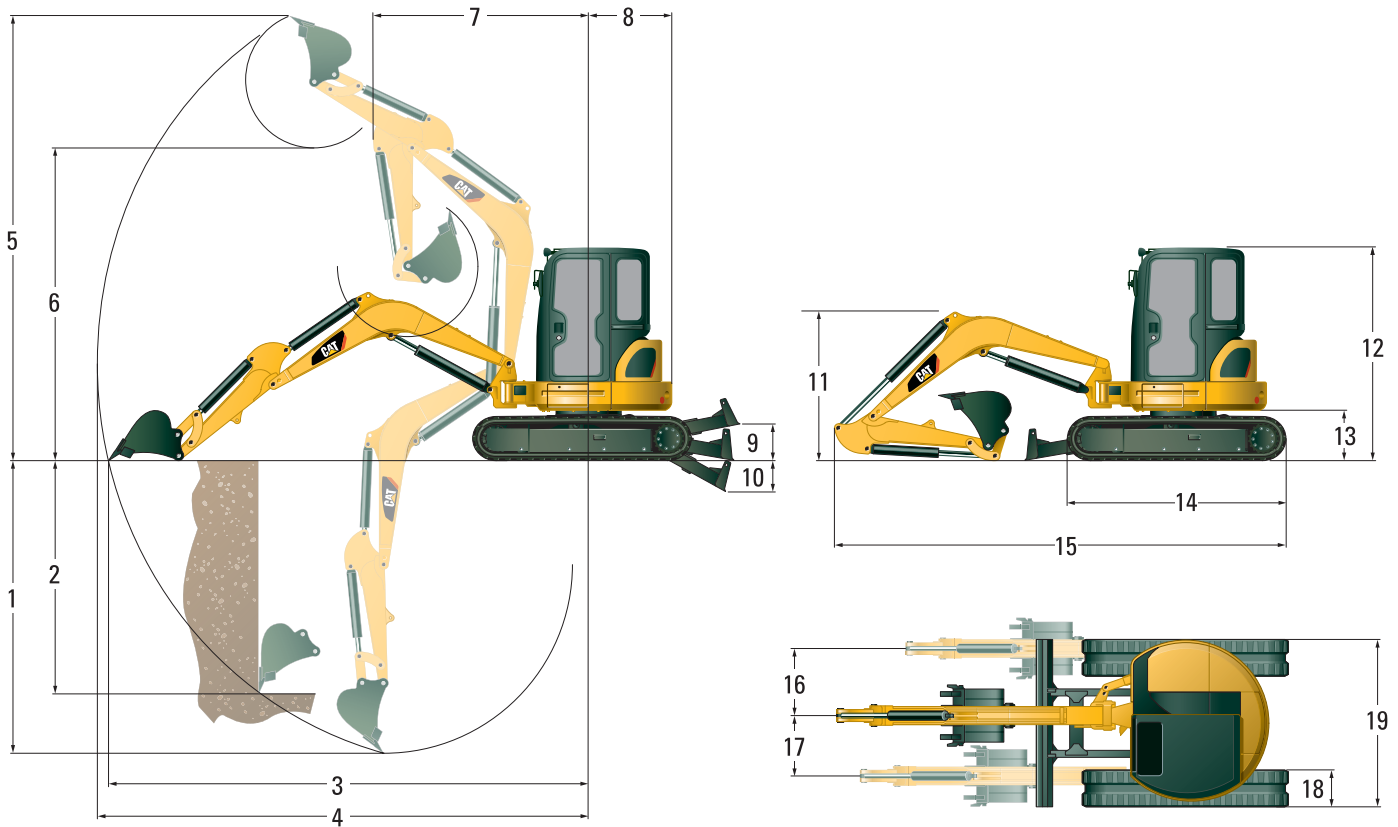
Swing System

Machine Swing Speed	9 rpm
Boom Swing – Left (without stop)	
303.5E CR/305E CR/305.5E CR	80°
304E CR	70°
Boom Swing – Left (with stop)	
303.5E CR/304E CR	55°
305E CR/305.5E CR	60°
Swing – Right	50°

Blade

Width		
303.5E CR	1780 mm	70 in
304E CR	1950 mm	76.8 in
305E CR/305.5E CR	1980 mm	78 in
Height		
303.5E CR/304E CR	325 mm	12.8 in
305E CR/305.5E CR	375 mm	14.8 in
Dig Depth		
303.5E CR/304E CR	470 mm	18.5 in
305E CR/305.5E CR	540 mm	21.3 in
Lift Height		
303.5E CR/304E CR	400 mm	15.7 in
305E CR/305.5E CR	420 mm	16.5 in

304E CR Dimensions



	Standard Stick		Long Stick	
1	3130 mm	10'3"	3430 mm	11'3"
2	2420 mm	8'0"	2560 mm	8'5"
3	5220 mm	17'1"	5470 mm	18'0"
4	5350 mm	17'7"	5590 mm	18'4"
5	4980 mm	16'5"	5070 mm	16'8"
6	3590 mm	11'9"	3690 mm	12'1"
7	2110 mm	6'11"	2220 mm	7'3"
8	975 mm	3'2"	975 mm	3'2"
9	400 mm	1'4"	400 mm	1'4"
10	470 mm	1'7"	470 mm	1'7"

	Standard Stick		Long Stick	
11	1480 mm	4'10"	1770 mm	5'9"
12	2500 mm	8'2"	2500 mm	8'2"
13	565 mm	1'10"	565 mm	1'10"
14	2220 mm	7'3"	2220 mm	7'3"
15	4820 mm	15'10"	4930 mm	16'2"
16	735 mm	2'5"	735 mm	2'5"
17	670 mm	2'2"	670 mm	2'2"
18	350 mm	1'1"	350 mm	1'1"
19	1950 mm	6'5"	1950 mm	6'5"

304E CR Lift Capacities at Ground Level*

Lift Point Radius		3000 mm (9'8")		4500 mm (14'9")	
		Front	Side	Front	Side
Blade Down	kg	1610	920	1040	590
	lb	3,549	2,028	2,292	1,301
Blade Up	kg	830	830	530	530
	lb	1,830	1,830	1,168	1,168

* 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.