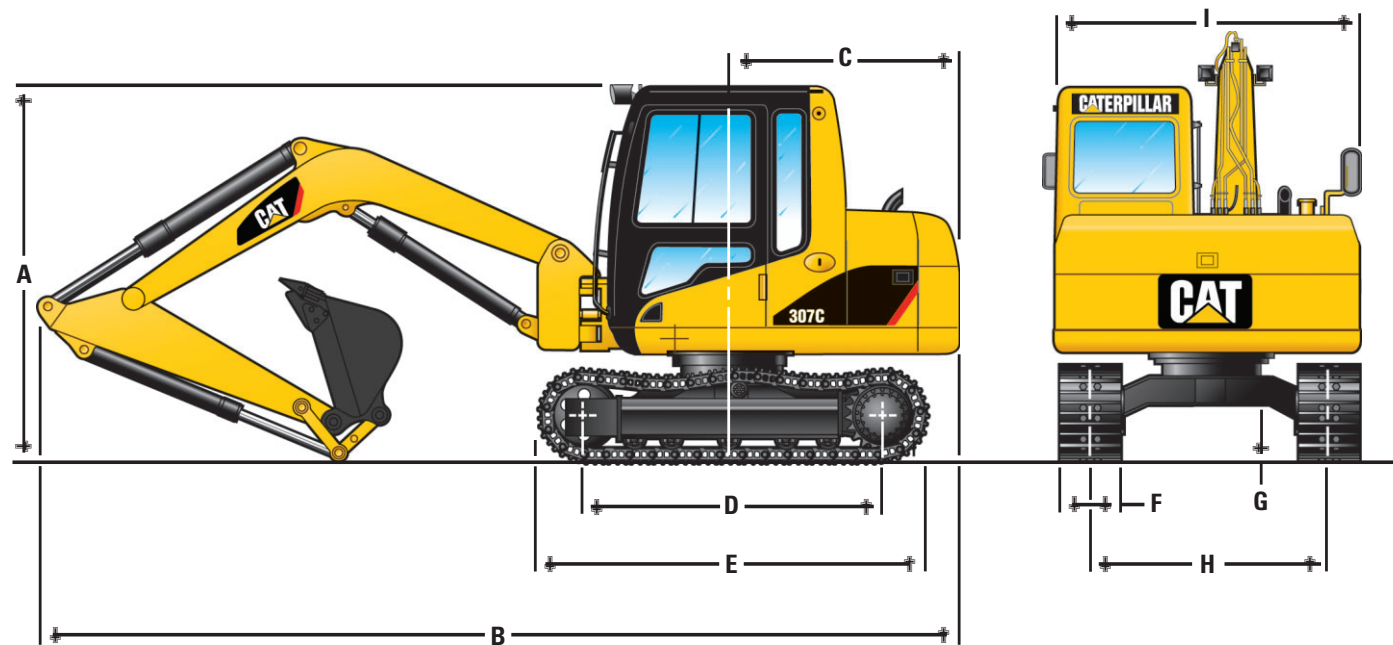


307C SB Hydraulic Excavators

307C Swing Boom Dimensions

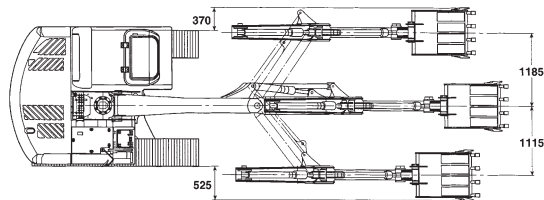
All dimensions are approximate. Machine dimensions are shown using a 1665 mm (5' 6") stick and 450 mm (18") shoes.



A	Shipping height	2630 mm (8' 8")
B	Shipping length	6790 mm (22' 3")
C	Tail swing radius	1750 mm (5' 9")
D	Length to centers of rollers	2120 mm (6' 11")
E	Track length	2760 mm (9' 1")
F	Track shoe width	450 mm (18")
G	Ground clearance	380 mm (15")
H	Track gauge	1750 mm (5' 9")
I	Transport width	2290 mm (7' 6")

Parallel Offset Boom

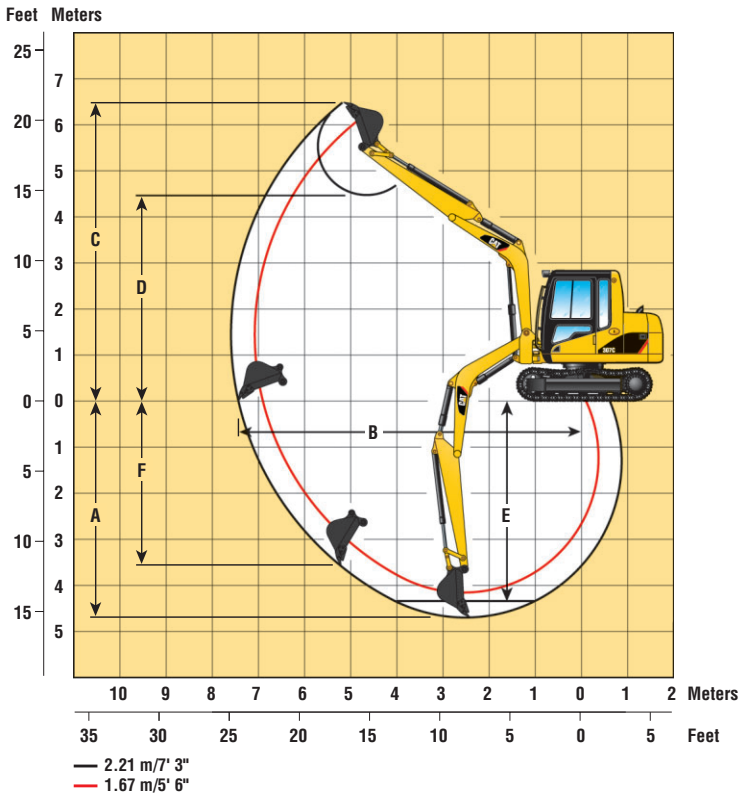
The optional parallel offset boom arrangement for the 307C enables the machine to dig outside the tracks alongside walls, fences and other obstacles. The offset range to the left is 1185 mm (3' 11") and to the right, the range is 1115 mm (3' 8").



307C SB Hydraulic Excavators

307C Swing Boom Working Ranges

Swing Boom



Swing Boom

Stick	1665 mm (5' 6") Stick	2210 mm (7' 3") Stick
A Maximum Digging Depth	4160 mm (13' 8")	4700 mm (15' 5")
B Maximum Reach at Ground Level	6890 mm (22' 7")	7420 mm (24' 4")
C Maximum Cutting Height	6180 mm (20' 3")	6490 mm (21' 4")
D Maximum Loading Height	4160 mm (13' 8")	4450 mm (14' 7")
E Digging Depth at 2440 mm (8') flat floor	3760 mm (12' 4")	4340 mm (14' 3")
F Maximum Vertical Wall Digging Depth	3000 mm (9'10")	3580 mm (11' 9")
Digging Forces		
Stick	3560 kg (7850 lb)	3130 kg (6900 lb)
Bucket	4460 kg (9830 lb)	4460 kg (9830 lb)

307C SB Hydraulic Excavators

Track

Caterpillar designed and built track-type undercarriage and track shoes.

	Track Width	Ground Pressure
307C		
Standard	450 mm (18")	30 kPa
	triple grouser	(4.35 psi)
	600 mm (24")	23 kPa
	triple grouser	(3.34 psi)
Optional	450 mm (18")	31 kPa
	segment	(4.50 psi)
	rubber track	
307C SB		
Standard	450 mm (18")	36 kPa
	triple grouser	(5.22 psi)
	600 mm (24")	27 kPa
	triple grouser	(3.92 psi)
Optional	450 mm (18")	36 kPa
	segment	(5.22 psi)
	rubber track	

NOTE: 770 mm (30") and 800 mm (31.5") shoes are available as custom attachments

Operating Weights

307C with 450 mm (18") shoes	Medium Stick	Long Stick
With one-piece boom	6490 kg (14,308 lb)	6530 kg (14,396 lb)
With parallel offset boom	6970 kg (15,366 lb)	N/A

307C SB with 450 mm (18") shoes	Medium Stick	Long Stick
Weight	7660 kg (16,887 lb)	7710 kg (16,998 lb)

Major Attachment Weights - 307C and 307C SB

Blade 2300 mm	+ 500 kg (1102 lb)
Blade 2400 mm	+ 510 kg (1124 lb)
600 mm (24") steel shoes	+ 170 kg (375 lb)
450 mm (18") segmented rubber track	+ 43 kg (95 lb)
Swivel Guard	+ 17 kg (37 lb)
Single-function auxiliary hydraulics	+ 13 kg (29 lb)
Boom lines	+ 31 kg (68 lb)
Stick lines	+ 15 kg (33 lb)

Buckets

Buckets have tapered sides, angled corner teeth, dual radius curvature, horizontal wear strips, and holes for optional side cutters.

				Recommended Maximum Material Density			
Width		Capacity		Medium Stick		Long Stick	
mm	in	m³	yd³	kg/m³	lbs/yd³	kg/m³	lbs/yd³
460	18	0.15	0.2	1800	3000	1800	3000
610	24	0.23	0.3	1800	3000	1800	3000
760	30	0.31	0.4	1800	3000	1500	2500
910	36	0.34	0.45	1500	2500	1200	2200

Material Densities

Material	kg/m³*	lb/yd³**	Material	kg/m³*	lb/yd³**
Clay, dry	1480	2500	Gravel, pit run	1930	3250
Clay, wet	1660	2800	Rock/dirt, 50%	1720	2900
Earth, dry	1510	2550	Sand, dry	1420	2400
Earth, wet	1600	2700	Sand, wet	1840	3100
Loam	1250	2100	Sand & Clay	1600	2700
Gravel, dry	1510	2550	Stone, crushed	1600	2700
Gravel, wet	2020	3400	Top soil	950	1600

* kilograms per loose cubic meter
** pounds per loose cubic yard
For densities of other materials see Caterpillar Performance Handbook

307C SB Hydraulic Excavators

307C Swing Boom (Without Blade) Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

STICK – 2.21 m (7' 3")

SHOES – 450 mm (18") triple grouser

BUCKET – 600 mm (24")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
4.5 m 15.0 ft	kg lb									*800 *1700	750 1600	6.59 21.47
3.0 m 10.0 ft	kg lb							1000 2150	800 1750	750 1600	600 1300	7.23 23.69
1.5 m 5.0 ft	kg lb					1550 3300	1250 2700	950 2050	800 1650	700 1500	550 1200	7.38 24.21
Ground Line	kg lb			2650 5700	2100 4450	1450 3050	1150 2450	950 1950	750 1550	700 1550	550 1250	7.07 23.19
-1.5 m -5.0 ft	kg lb	*2450 *5400	*2450 *5400	2650 5600	2050 4400	1400 3000	1100 2350			900 1900	700 1500	6.22 20.33
-3.0 m -10.0 ft	kg lb	*4500 *10,100	*4500 *10,100	2700 5800	2150 4550					1550 3550	1250 2850	4.36 13.99

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

STICK – 2.21 m (7' 3")

SHOES – 600 mm (24") triple grouser

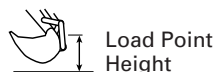
BUCKET – 600 mm (24")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				
												m ft
4.5 m 15.0 ft	kg lb									*800 *1700	750 1650	6.59 21.47
3.0 m 10.0 ft	kg lb							1050 2200	850 1800	750 1650	600 1300	7.23 23.69
1.5 m 5.0 ft	kg lb					1600 3400	1300 2750	1000 2100	800 1700	700 1550	550 1200	7.38 24.21
Ground Line	kg lb			2700 5800	2150 4550	1500 3150	1200 2500	950 2000	750 1600	750 1600	600 1250	7.07 23.19
-1.5 m -5.0 ft	kg lb	*2450 *5400	*2450 *5400	2700 5750	2100 4500	1450 3050	1150 2450			900 1950	700 1550	6.22 20.33
-3.0 m -10.0 ft	kg lb	*4500 *10,100	*4500 *10,100	2750 5900	2200 4650					1600 3650	1300 2950	4.36 13.99

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

307C SB Hydraulic Excavators

307C Swing Boom (Without Blade) Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

STICK – 1.67 m (5' 6")

SHOES – 450 mm (18") triple grouser

BUCKET – 750 mm (30")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m 15.0 ft	kg lb									*800 *1750	*800 *1750	5.97 19.42
3.0 m 10.0 ft	kg lb					*1400 *2950	1350 2850			*800 *1700	700 1500	6.71 21.96
1.5 m 5.0 ft	kg lb					1550 3300	1250 2650	950 2050	800 1650	800 1700	650 1350	6.86 22.52
Ground Line	kg lb			2650 5700	2100 4500	1450 3100	1150 2500	950 2050	750 1650	850 1800	650 1450	6.52 21.38
-1.5 m -5.0 ft	kg lb	*3250 *7200	*3250 *7200	2700 5750	2100 4550	1450 3050	1150 2450			1100 2350	850 1900	5.53 18.07
-3.0 m -10.0 ft	kg lb			2800 6000	2250 4800					2100 4750	1700 3800	3.62 11.57

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

STICK – 1.67 m (5' 6")

SHOES – 600 mm (24") triple grouser

BUCKET – 750 mm (30")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
												
4.5 m 15.0 ft	kg lb									*800 *1750	*800 *1750	5.97 19.42
3.0 m 10.0 ft	kg lb					*1400 *2950	*1400 2950			*800 *1700	700 1500	6.71 21.96
1.5 m 5.0 ft	kg lb					1550 3350	1300 2750	1000 2100	800 1700	800 1750	650 1400	6.86 22.52
Ground Line	kg lb			2750 5850	2150 4600	1500 3200	1200 2550	950 2100	800 1700	850 1850	700 1500	6.52 21.38
-1.5 m -5.0 ft	kg lb	*3250 *7200	*3250 *7200	2750 5900	2200 4650	1450 3150	1200 2500			1100 2400	900 1950	5.53 18.07
-3.0 m -10.0 ft	kg lb			2900 6150	2300 4900					2150 4900	1700 3900	3.62 11.57

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

307C SB Hydraulic Excavators

307C Swing Boom (With Blade Down) Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

STICK – 2.21 m (7' 3")

SHOES – 450 mm (18") triple grouser

BUCKET – 600 mm (24")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
4.5 m 15.0 ft	kg lb									*800 *1700	*800 *1700	6.59 21.47
3.0 m 10.0 ft	kg lb							*1150 *2600	900 1850	*750 *1650	650 1400	7.23 23.69
1.5 m 5.0 ft	kg lb					*1750 *3750	1350 2900	*1450 *3150	850 1800	*800 *1800	600 1300	7.38 24.21
Ground Line	kg lb			*2800 *6550	2250 4800	*2500 *5350	1250 2650	*1750 *3800	800 1700	*950 *2100	600 1350	7.07 23.19
-1.5 m -5.0 ft	kg lb	*2450 *5400	*2450 *5400	*4550 *10,500	2200 4750	*2850 *6150	1200 2550			*1300 *2850	750 1650	6.22 20.33
-3.0 m -10.0 ft	kg lb	*4500 *10,100	*4500 *10,100	*4800 *10,200	2300 4900					*2150 *4700	1350 3050	4.36 13.99

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

STICK – 2.21 m (7' 3")

SHOES – 600 mm (24") triple grouser

BUCKET – 600 mm (24")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
4.5 m 15.0 ft	kg lb									*800 *1700	*800 *1700	6.59 21.47
3.0 m 10.0 ft	kg lb							*1150 *2600	900 1900	*750 *1650	650 1450	7.23 23.69
1.5 m 5.0 ft	kg lb					*1750 *3750	1400 2950	*1450 *3150	850 1850	*800 *1800	600 1350	7.38 24.21
Ground Line	kg lb			*2800 *6550	2300 4900	*2500 *5350	1300 2700	*1750 *3800	850 1750	*950 *2100	650 1400	7.07 23.19
-1.5 m -5.0 ft	kg lb	*2450 *5400	*2450 *5400	*4550 *10,500	2250 4850	*2850 *6150	1250 2650			*1300 *2850	800 1700	6.22 20.33
-3.0 m -10.0 ft	kg lb	*4500 *10,100	*4500 *10,100	*4800 *10,200	2350 5000					*2150 *4700	1400 3150	4.36 13.99

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

307C SB Hydraulic Excavators

307C Swing Boom (With Blade Down) Lift Capacities



Load Point
Height



Load at
Maximum Reach



Load Radius
Over Front



Load Radius
Over Side

STICK – 1.67 m (5' 6")

SHOES – 450 mm (18") triple grouser

BUCKET – 750 mm (30")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
4.5 m 15.0 ft	kg lb									*800 *1750	*800 *1750	5.97 19.42
3.0 m 10.0 ft	kg lb					*1400 *2950	*1400 *2950			*800 *1700	750 1600	6.71 21.96
1.5 m 5.0 ft	kg lb					*2100 *4500	1350 2850	*1650 *3600	850 1800	*850 *1850	700 1450	6.86 22.52
Ground Line	kg lb			*2800 *6450	2250 4850	*2750 *5850	1250 2700	*1650 *3550	800 1800	*1050 *2250	700 1550	6.52 21.38
-1.5 m -5.0 ft	kg lb	*3250 *7200	*3250 *7200	*5400 *11550	2300 4850	*2900 *6250	1250 2650			*1500 *3250	950 2050	5.53 18.07
-3.0 m -10.0 ft	kg lb			*4100 *8550	2400 5100					*3050 *6750	1800 4100	3.62 11.57

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

STICK – 1.67 m (5' 6")

SHOES – 600 mm (24") triple grouser

BUCKET – 750 mm (30")

		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)				m ft
4.5 m 15.0 ft	kg lb									*800 *1750	*800 *1750	5.97 19.42
3.0 m 10.0 ft	kg lb					*1400 *2950	*1400 *2950			*800 *1700	750 1650	6.71 21.96
1.5 m 5.0 ft	kg lb					*2100 *4500	1350 2900	*1650 *3600	850 1850	*850 *1850	700 1500	6.86 22.52
Ground Line	kg lb			*2800 *6450	2300 4950	*2750 *5850	1300 2750	*1650 *3550	850 1850	*1050 *2250	750 1600	6.52 21.38
-1.5 m -5.0 ft	kg lb	*3250 *7200	*3250 *7200	*5400 *11550	2350 5000	*2900 *6250	1250 2700			*1500 *3250	950 2100	5.53 18.07
-3.0 m -10.0 ft	kg lb			*4100 *8550	2450 5250					*3050 *6750	1850 4200	3.62 11.57

* Indicates that the load is limited by hydraulic capacity rather than tipping capacity. Lift capacity ratings are based on SAE standard J1097. Rated loads do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.