Engine

Engine Model	Cat 3064 T	
Gross Power	70 kW	94 hp
Flywheel Power	67 kW	90 hp
ISO 9249	67 kW	90 hp
SAE J1349	67 kW	90 hp
EEC 80/1269	67 kW	90 hp
Bore	102 mm	4 in
Stroke	130 mm	5.1 in
Displacement	4.25 L	259 in^3

- The 312C meets US Tier 2 and EU Stage II emission requirements.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No engine derating required below 1500 m (4,900 ft) altitude.

Weights

Operating Weight	13 140 kg	28,970 lb

Swing Mechanism

Swing Torque	30 500 N•m	22,496 lb ft
Swing Speed	12.9 RPM	

Drive

Travel Speed	5.5 kph	3.4 mph
Max. Drawbar Pull	110 kN	24,720 lb

Hydraulic System

Main Implement System - Max. Flow (2x)	127 L/min	33.5 gal/min
Max. Pressure - Implements	29 900 kPa	4,340 psi
Max. Pressure - Travel	34 300 kPa	4,980 psi
Max Pressure - Swing	23 050 kPa	3,340 psi
Pilot System - Max. Flow	23.7 L/min	6.3 gal/min
Pilot System - Max. Pressure	4120 kPa	600 psi
Blade - Max. Flow	58.5 L/min	15.5 gal/min
Blade System - Max Pressure	20 594 kPa	2,990 psi
Boom Cylinder - Bore	110 mm	4.3 in
Boom Cylinder - Stroke	1015 mm	40 in
Stick Cylinder - Bore	120 mm	4.7 in
Stick Cylinder - Stroke	1197 mm	47.1 in
Bucket Cylinder - Bore	100 mm	3.9 in
Bucket Cylinder - Stroke	939 mm	37 in

Service Refill Capacities

Fuel Tank	250 L	66 gal
Cooling System	17.5 L	4.6 gal
Engine Oil	17.5 L	4.6 gal
Swing Drive	3 L	0.8 gal
Final Drive (Each)	2.5 L	0.66 gal
Hydraulic System (Including Tank)	162 L	42.8 gal
Hydraulic Tank	90 L	23.8 gal

Standards

Meets the following standards:

Cab/FOGS	SAE J1356 FEB88 ISO 10262

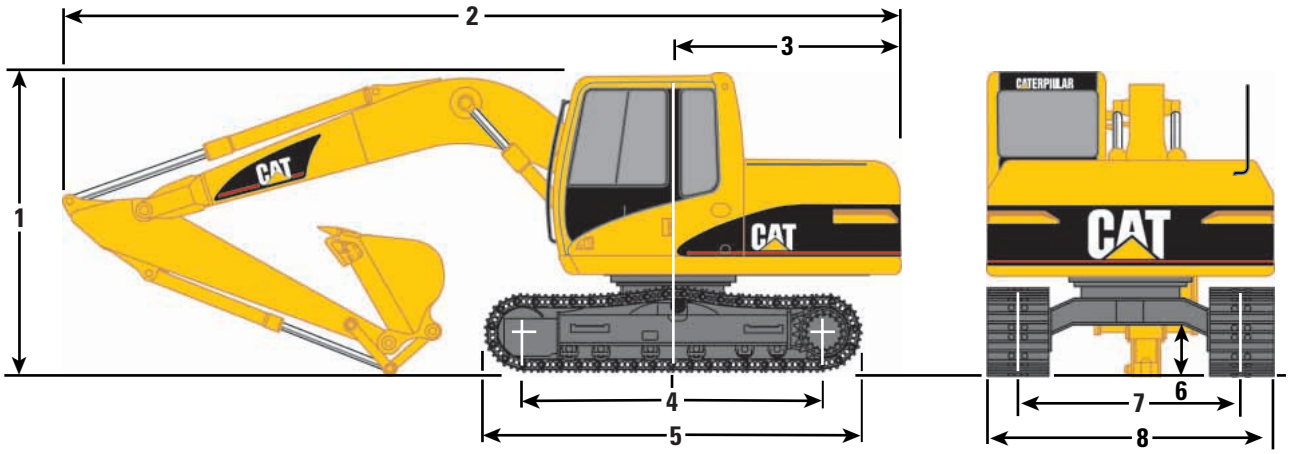
Sound Performance

The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 74 dB(A), for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.

Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

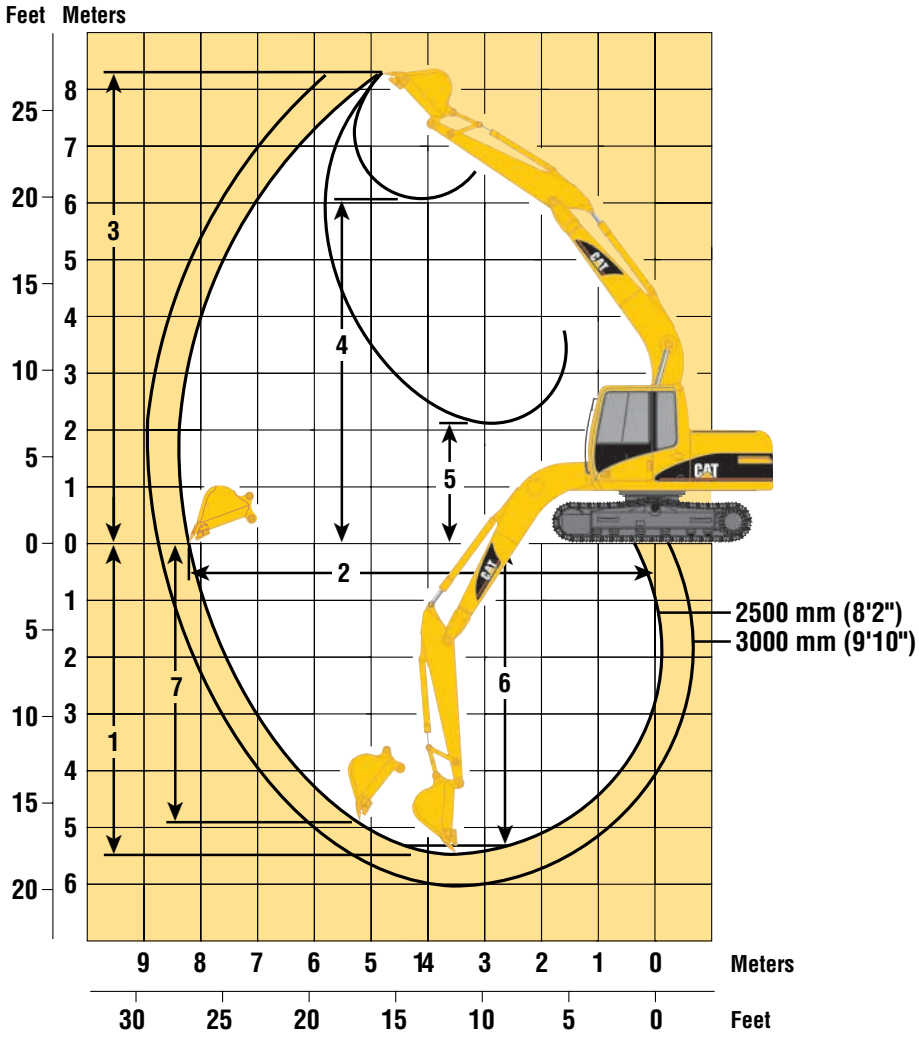
Dimension

All dimensions are approximate.



			2500 mm (8'2") Stick	3000 mm (9'10") Stick
1	Shipping height		2760 mm (9'1")	2760 mm (9'1")
2	Shipping length		7570 mm (24'10")	7570 mm (24'10")
3	Tail swing radius		2130 mm (7')	2130 mm (7')
4	Length to centers of rollers			
	312C		2780 mm (9'1")	2780 mm (9'1")
	312C L		3040 mm (9'11")	3040 mm (9'11")
5	Track length			
	312C		3490 mm (11'5")	3490 mm (11'5")
	312C L		3750 mm (12'4")	3750 mm (12'4")
6	Ground clearance		440 mm (1'5")	440 mm (1'5")
7	Track gauge		1990 mm (6'6")	1990 mm (6'6")
8	Transport width	with 500 mm (20") 2490 mm (8'2")	with 600 mm (24") 2590 mm (8'6")	with 700 mm (28") 2690 mm (8'10")	with 770 mm (30") 2760 mm (9'1")

Working Ranges



Stick Length	2500 mm (8'2") Stick*	3000 mm (9'10") Stick*
1 Maximum Digging Depth	5550 mm (18'3")	6050 mm (19'10")
2 Maximum Reach at Ground Level	8175 mm (26'10")	8625 mm (28'4")
3 Maximum Cutting Height	8475 mm (27'10")	8695 mm (28'6")
4 Maximum Loading Height	6095 mm (20'0")	6330 mm (20'9")
5 Minimum Loading Height	2010 mm (6'7")	1525 mm (5'0")
6 Maximum Depth Cut for 2440 mm (8') Level Bottom	5340 mm (17'6")	5865 mm (19'3")
7 Maximum Vertical Wall Digging Depth	4970 mm (16'4")	5345 mm (17'6")
Stick Digging Force (SAE)	63 kN (14,160 lb)	57 kN (12,810 lb)
Bucket Digging Force (SAE)	84 kN (18,880 lb)	84 kN (18,880 lb)

* - Measurements shown are for machines equipped with the 0.52 m^3 (0.68 yd^3) bucket

Operating Weights

Caterpillar designed and built track-type undercarriage.

Track Width			Operating Weight (medium stick)		Operating Weight (long stick)	
312C	500 mm (20") triple grouser		12 550 kg	(27,670 lb)	12 620 kg	(27,820 lb)
	600 mm (24") triple grouser		12 780 kg	(28,170 lb)	12 860 kg	(28,350 lb)
	700 mm (28") triple grouser		13 020 kg	(28,700 lb)	13 100 kg	(28,880 lb)
	770 mm (30") triple grouser		13 150 kg	(28,990 lb)	13 230 kg	(29,190 lb)
		Blade: add	750 kg	(1653 lb)		
312C L	500 mm (20") triple grouser		12 840 kg	(28,310 lb)	12 910 kg	(28,460 lb)
	600 mm (24") triple grouser		13 070 kg	(28,810 lb)	13 140 kg	(28,970 lb)
	700 mm (28") triple grouser		13 330 kg	(29,390 lb)	13 400 kg	(29,540 lb)
	770 mm (30") triple grouser		13 460 kg	(29,670 lb)	13 540 kg	(29,850 lb)
		Blade: add	750 kg	(1653 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	m^3	yd^3	kg/m^3	lb/yd^3	kg/m^3	lb/yd^3
610	24	0.30	0.39	1800	3000	1800	3000
760	30	0.40	0.53	1800	3000	1800	3000
910	36	0.52	0.68	1800	3000	1500	2500
1070	42	0.63	0.82	1500	2500	1200	2000
1220	48	0.74	0.97	1500	2500	1200	2000

Material Densities

Material	kg/m^3*	lb/yd^3**	Material	kg/m^3*	lb/yd^3**
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

Undercarriage

Caterpillar designed and built track-type undercarriage.

Track Width	Ground Pressure	
	312C	312C L
500 mm (20") triple grouser	39 kPa (5.66 psi)	—
600 mm (24") triple grouser	33 kPa (4.79 psi)	31 kPa (4.50 psi)
700 mm (28") triple grouser	29 kPa (4.21 psi)	27 kPa (3.92 psi)
770 mm (30") triple grouser	—	25 kPa (3.63 psi)