



313 GC

Hydraulic Excavator

Technical Specifications

Configurations and features may vary by region. Please consult your Cat® dealer for availability in your area.

Table of Contents

Specifications	2
Engine	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Standards	2
Sound Performance	2
Air Conditioning System	2
Operating Weights and Ground Pressures	3
Major Component Weights	4
Dimensions	5
Working Ranges and Forces	6
Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb)	7
Bucket Specifications and Compatibility:	
Taiwan	11
Southeast Asia	11
Africa/Middle East/Eurasia	12
South America	12
Attachment Offering Guide:	
Taiwan	13
Southeast Asia	13
Africa/Middle East/Eurasia	14
South America	15
Standard and Optional Equipment	16
313 GC Environmental Declaration	18

313 GC Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	70.6 kW	94.7 hp
ISO 9249 (DIN)	96 hp (metric)	
Engine Power		
ISO 14396	74.4 kW	100 hp
ISO 14396 (DIN)	101 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- Meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Advertised power is tested per the specified standard in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Engine speed 2,200 rpm.
- No engine power derating required below 3000 m (10,000 ft) altitude.

⁽¹⁾Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.

*For use of blends higher than 20% biodiesel, consult your Cat dealer.

**Lower-carbon intensity fuels do not significantly reduce GHGs at the tailpipe.

Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	43 kN·m	31,641 lbf·ft

Weights

Operating Weight	12 400 kg	27,200 lb
• Standard undercarriage, Reach boom, R2.5 (8'2") stick, GD 0.53 m ³ (0.69 yd ³) bucket, 500 mm (20") triple grouser shoes, and 2.25 mt (4,960 lb) counterweight.*		

*Includes boom and stick with HP/Aux lines.

Track

Track Shoes Width	500 mm	20 in
Track Shoes Width	600 mm	24 in
Track Shoes Width	700 mm	28 in
Track Shoes Width	770 mm	30 in
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.4 km/h	3.4 mph
Maximum Drawbar Pull	117 kN	26,370 lbf

Hydraulic System

Main System – Maximum Flow – Implement	247 L/min	65 gal/min
Maximum Pressure – Equipment – Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	25 900 kPa	3,756 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Service Refill Capacities

Fuel Tank Capacity	237 L	62.6 gal
Cooling System	11 L	2.9 gal
Engine Oil (with filter)	11 L	2.9 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	145 L	38.3 gal
Hydraulic Tank	77 L	20.3 gal

Standards

Brakes	ISO 10265:2008
Cab/Operator Protective Guards (OPG) (Optional)	ISO 10262:1998 Level II

Sound Performance

GB 16710:2010 (external)	103 dB(A)
GB 16710:2010 (inside cab)	80 dB(A)

- 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 a noisy environment.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg of refrigerant, which has a CO₂ equivalent of 1.216 metric tonnes.

313 GC Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	500 mm (20")		600 mm (24")		700 mm (28")		770 mm (30")	
	Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
Base Machine Configurations	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Frame with Track Rollers and Carrier Rollers								
2.25 mt (4,960 lb) Counterweight + Standard Undercarriage Base Machine								
Reach Boom + R2.5 (8'2") Stick + 0.53 m ³ (0.69 yd ³) GD Bucket*	12 400 (27,300)	40.0 (5.8)	12 600 (27,800)	34.0 (4.9)	12 800 (28,200)	29.6 (4.3)	13 000 (28,600)	27.5 (4.0)
Reach Boom + R3.0 (9'10") Stick + 0.53 m ³ (0.69 yd ³) GD Bucket*	12 500 (27,600)	40.5 (5.9)	12 800 (28,200)	34.5 (5.0)	13 000 (28,600)	30 (4.3)	13 100 (28,900)	27.5 (4.0)

All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

*Includes boom and stick with HP/Aux lines.

313 GC Hydraulic Excavator Specifications

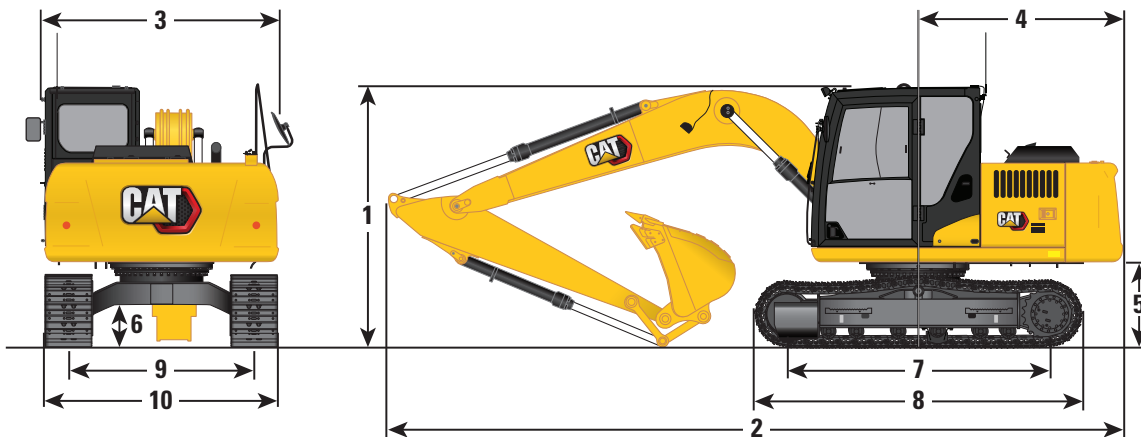
Major Component Weights

	kg	lb
Base Machine Weight (with 2.25 mt [4,960 lb] counterweight, upper frame, standard undercarriage with track rollers – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator).	8400	18,500
Track Shoes:		
500 mm (20") Triple Grouser Track Shoes	1430	3,150
600 mm (24") Triple Grouser Track Shoes	1690	3,720
700 mm (28") Triple Grouser Track Shoes with Additional Steps	1880	4,140
770 mm (30") Triple Grouser Track Shoes with Additional Steps	2020	4,450
Two Boom Cylinders	240	530
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	260	570
Counterweight:		
2.25 mt (4,960 lb) Counterweight	2250	4,960
Swing Frame:		
Swing Frame without Rollover Protective Structure (ROPS) capability	1210	2,670
Undercarriage:		
Base Frame with Track Rollers and Carrier Rollers	2510	5,530
Booms (including lines, pins, stick cylinder):		
4.65 m (15'3") Reach Boom	1050	2,310
4.65 m (15'3") Reach Boom with HP/Aux Lines	1090	2,400
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
2.5 m (8'2") Reach Stick	570	1,260
2.5 m (8'2") Reach Stick with HP/Aux Lines	610	1,340
3.0 m (9'10") Reach Stick	730	1,610
3.0 m (9'10") Reach Stick with HP/Aux Lines	770	1,700
Bucket (without linkage, with tips and side cutters):		
0.53 m ³ (0.69 yd ³) GD Bucket	420	930

313 GC Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate and may vary depending on bucket selection.



Boom Option

Reach Boom
4.65 m (15'3")

Stick Options

Reach Stick

R2.5 m (8'2")

R3.0 m (9'10")

1 Machine Height:

Cab Height	2780 mm	9'1"	2780 mm	9'1"
Handrail Height	2820 mm	9'3"	2820 mm	9'3"
With Boom/Stick/Bucket Installed (with stick cylinder lines)	2810 mm	9'3"	3130 mm	10'3"
With Boom/Stick Installed (with stick cylinder lines)	2700 mm	8'10"	2950 mm	9'8"
With Boom Installed (with stick cylinder lines)	2170 mm	7'1"	2170 mm	7'1"

2 Machine Length:

With Boom/Stick/Bucket Installed (with stick cylinder lines)	7700 mm	25'3"	7700 mm	25'3"
With Boom/Stick Installed (with stick cylinder lines)	7695 mm	25'3"	7750 mm	25'5"
With Boom Installed (with stick cylinder lines)	6830 mm	22'5"	6830 mm	22'5"

3 Upperframe Width

2490 mm	8'2"	2490 mm	8'2"
---------	------	---------	------

4 Tail Swing Radius – 2.25 mt (4,960 lb) Counterweight

2200 mm	7'3"	2200 mm	7'3"
---------	------	---------	------

5 Counterweight Clearance

890 mm	2'11"	890 mm	2'11"
--------	-------	--------	-------

6 Ground Clearance

430 mm	1'5"	430 mm	1'5"
--------	------	--------	------

7 Track Length – Length to Center of Rollers

2780 mm	9'1"	2780 mm	9'1"
---------	------	---------	------

8 Overall Track Length

3480 mm	11'6"	3480 mm	11'6"
---------	-------	---------	-------

9 Track Gauge

1990 mm	6'6"	1990 mm	6'6"
---------	------	---------	------

10 Undercarriage Width:

500 mm (20") Shoes	2490 mm	8'2"	2490 mm	8'2"
600 mm (24") Shoes	2590 mm	8'6"	2590 mm	8'6"
700 mm (28") Shoes	2690 mm	8'10"	2690 mm	8'10"
770 mm (30") Shoes	2760 mm	9'1"	2760 mm	9'1"

Bucket Type

GD

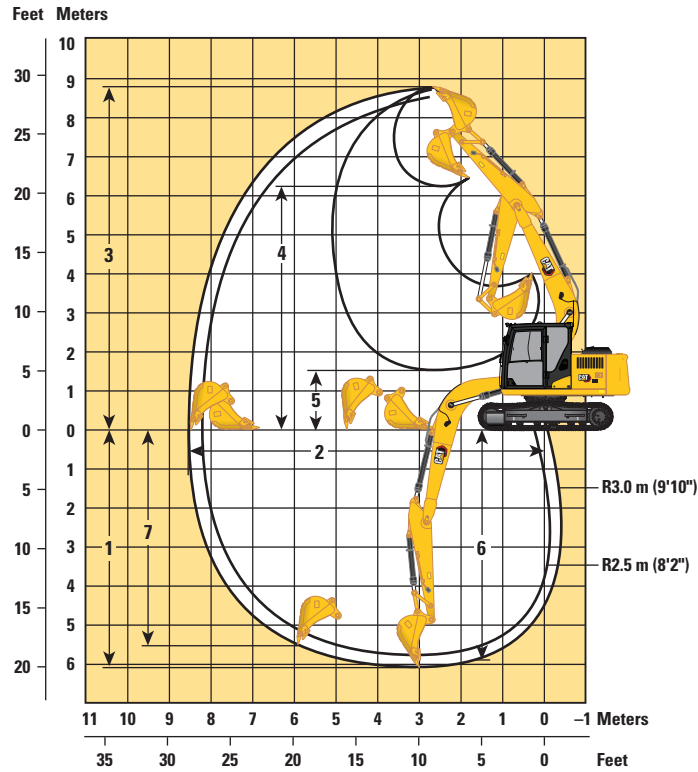
GD

Bucket Capacity	0.53 m ³	0.69 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1000 mm	3'3"	1000 mm	3'3"

313 GC Hydraulic Excavator Specifications

Working Ranges and Forces

All dimensions are approximate and may vary depending on bucket selection.



Boom Option

Reach Boom
4.65 m (15'3")

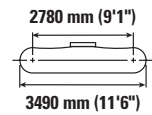
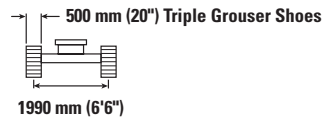
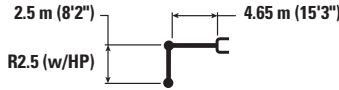
Stick Options

Reach Stick

	R2.5 m (8'2")		R3.0 m (9'10")	
	mm	ft/in	mm	ft/in
1 Maximum Digging Depth	5570 mm	18'3"	6070 mm	19'11"
2 Maximum Reach at Ground Line	8210 mm	26'11"	8660 mm	28'5"
3 Maximum Cutting Height	8530 mm	28'0"	8750 mm	28'8"
4 Maximum Loading Height	6070 mm	19'11"	6300 mm	20'8"
5 Minimum Loading Height	1980 mm	6'6"	1500 mm	4'11"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5370 mm	17'7"	5890 mm	19'4"
7 Maximum Vertical Wall Digging Depth	5040 mm	16'6"	5530 mm	18'2"
Minimum Working Equipment Radius	2440 mm	8'0"	2550 mm	8'4"
Bucket Digging Force (ISO)	95.7 kN	21,510 lbf	95.9 kN	21,560 lbf
Stick Digging Force (ISO)	68.2 kN	15,330 lbf	61 kN	13,710 lbf
Bucket Type	GD		GD	
Bucket Capacity	0.53 m ³	0.69 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1000 mm	3'3"	1000 mm	3'3"

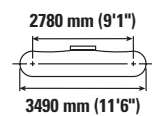
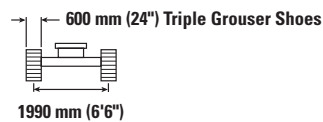
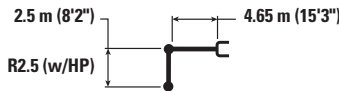
313 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach (mm/ft/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		Diagram		mm ft/in
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 7,600			*2400 *5,250	*2400 *5,250	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3500 7,500	3000 6,450	2200 4,650	*2200 *4,800	1950 4,350	6370 20'9"
3000 mm 10'0"	kg lb			*6100 *13,050	*6100 *13,050	*4550 *9,800	3300 7,100	2950 6,300	2100 4,550	*2150 *4,750	1700 3,700	6900 22'7"
1500 mm 5'0"	kg lb			8550 18,250	5450 11,800	4400 9,400	3050 6,550	2850 6,100	2000 4,300	2200 4,850	1550 3,450	7080 23'2"
0 mm 0'0"	kg lb			*7250 *16,800	5150 11,050	4200 8,950	2850 6,150	2750 5,900	1950 4,150	2250 4,900	1600 3,450	6930 22'8"
-1500 mm -5'0"	kg lb	*5150 *11,500	*5150 *11,500	8100 17,250	5100 10,950	4100 8,800	2800 6,000	2700 5,800	1900 4,050	2500 5,450	1750 3,800	6430 21'0"
-3000 mm -10'0"	kg lb	*9250 *20,800	*9250 *20,800	8200 17,500	5200 11,150	4150 8,900	2850 6,100			3150 6,950	2200 4,850	5480 17'9"

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach (mm/ft/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		Diagram		mm ft/in
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 7,750			*2400 *5,250	*2400 *5,250	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3550 7,650	3100 6,550	2250 4,750	*2200 *4,800	2000 4,400	6370 20'9"
3000 mm 10'0"	kg lb			*6100 *13,050	*6100 *13,050	*4550 *9,800	3350 7,200	3000 6,450	2150 4,600	*2150 *4,750	1700 3,750	6900 22'7"
1500 mm 5'0"	kg lb			8700 18,650	5600 12,000	4450 9,600	3100 6,700	2900 6,200	2050 4,400	2250 4,950	1600 3,500	7080 23'2"
0 mm 0'0"	kg lb			*7250 *16,800	5250 11,250	4250 9,150	2950 6,300	2800 6,000	1950 4,250	2300 5,000	1600 3,550	6930 22'8"
-1500 mm -5'0"	kg lb	*5150 *11,500	*5150 *11,500	8250 17,600	5200 11,150	4200 9,000	2850 6,150	2750 5,950	1950 4,150	2550 5,550	1800 3,900	6430 21'0"
-3000 mm -10'0"	kg lb	*9250 *20,800	*9250 *20,800	8350 17,900	5300 11,400	4200 9,050	2900 6,200			3200 7,100	2250 4,950	5480 17'9"



ISO 10567:2007



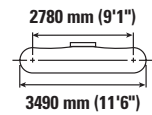
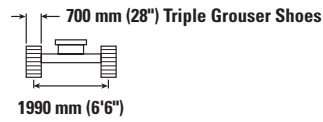
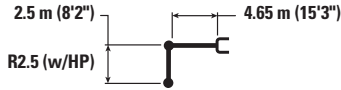
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

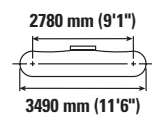
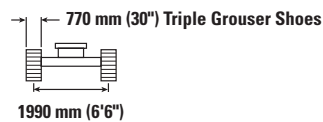
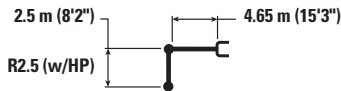
313 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		mm ft/in		
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 *7,750			*2400 *5,250	*2400 *5,250	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3600 7,750	3100 6,650	2250 4,800	*2200 *4,800	2050 4,500	6370 20'9"
3000 mm 10'0"	kg lb			*6100 *13,050	*6100 *13,050	*4550 *9,800	3400 7,300	3050 6,550	2200 4,700	*2150 *4,750	1750 3,800	6900 22'7"
1500 mm 5'0"	kg lb			*8800 *18,900	5650 12,200	4550 9,750	3150 6,800	2950 6,300	2100 4,500	*2250 *4,950	1650 3,550	7080 23'2"
0 mm 0'0"	kg lb			*7250 *16,800	5350 11,450	4350 9,300	2950 6,400	2850 6,100	2000 4,300	2350 5,100	1650 3,600	6930 22'8"
-1500 mm -5'0"	kg lb	*5150 *11,500	*5150 *11,500	8400 17,900	5300 11,350	4250 9,100	2900 6,250	2800 6,050	1950 4,250	2550 5,650	1800 3,950	6430 21'0"
-3000 mm -10'0"	kg lb	*9250 *20,800	*9250 *20,800	*8400 *18,150	5400 11,550	4300 9,200	2950 6,300			3250 7,250	2300 5,050	5480 17'9"

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		mm ft/in		
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 *7,750			*2400 *5,250	*2400 *5,250	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3600 7,750	3100 6,650	2250 4,800	*2200 *4,800	2050 4,500	6370 20'9"
3000 mm 10'0"	kg lb			*6100 *13,050	*6100 *13,050	*4550 *9,800	3400 7,300	3050 6,550	2200 4,700	*2150 *4,750	1750 3,800	6900 22'7"
1500 mm 5'0"	kg lb			*8800 *18,900	5650 12,200	4550 9,750	3150 6,800	2950 6,300	2100 4,500	*2250 *4,950	1650 3,550	7080 23'2"
0 mm 0'0"	kg lb			*7250 *16,800	5350 11,450	4350 9,300	3000 6,400	2850 6,100	2000 4,300	2350 5,100	1650 3,600	6930 22'8"
-1500 mm -5'0"	kg lb	*5150 *11,500	*5150 *11,500	8400 17,900	5300 11,350	4250 9,100	2900 6,250	2800 6,050	1950 4,250	2550 5,650	1800 3,950	6430 21'0"
-3000 mm -10'0"	kg lb	*9250 *20,800	*9250 *20,800	*8400 *18,150	5400 11,550	4300 9,200	2950 6,300			3250 7,250	2300 5,050	5480 17'9"



ISO 10567:2007



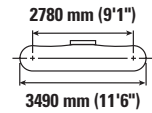
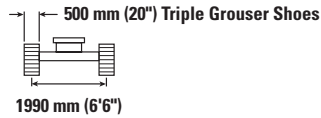
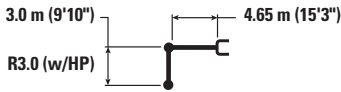
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

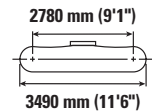
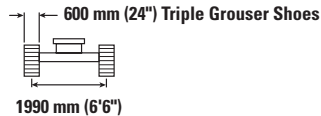
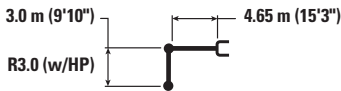
313 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach (mm/ft/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 25'0"	kg lb											*2450 *2450 4370
6000 mm 20'0"	kg lb											*2050 *4,500 *2050 *4,500 5950 19'3"
4500 mm 15'0"	kg lb							3000 6,450	2200 4,650			*1900 *4,200 1700 3,750 6860 22'4"
3000 mm 10'0"	kg lb					*4000 *8,650	3300 7,100	2950 6,250	2100 4,450			*1900 *4,150 1450 3,200 7360 24'1"
1500 mm 5'0"	kg lb			*7800 *16,800	5550 11,950	4350 9,350	3050 6,500	2800 6,000	1950 4,200	1950 1350		1950 4,300 1350 3,000 7520 24'7"
0 mm 0'0"	kg lb			8050 17,150	5050 10,800	4100 8,800	2800 6,000	2700 5,750	1850 3,950			1950 4,300 1350 3,000 7380 24'2"
-1500 mm -5'0"	kg lb	*4700 *10,550	*4700 *10,550	7850 16,800	4900 10,500	4000 8,550	2700 5,750	2600 5,600	1800 3,850			2150 4,700 1500 3,250 6910 22'7"
-3000 mm -10'0"	kg lb	*7900 *17,700	*7900 *17,700	7950 16,950	4950 10,650	4000 8,550	2700 5,750	2650	1850			2600 5,800 1800 4,000 6040 19'8"
-4500 mm -15'0"	kg lb			*6650 *14,050	5200 11,200	*4150	2850					*4100 *9,000 2850 6,400 4530 14'6"

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach (mm/ft/in)	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 25'0"	kg lb											*2450 *2450 4370
6000 mm 20'0"	kg lb											*2050 *4,500 *2050 *4,500 5950 19'3"
4500 mm 15'0"	kg lb							3100 6,600	2200 4,750			*1900 *4,200 1750 3,850 6860 22'4"
3000 mm 10'0"	kg lb					*4000 *8,650	3400 7,250	3000 6,400	2150 4,550			*1900 *4,150 1500 3,300 7360 24'1"
1500 mm 5'0"	kg lb			*7800 *16,800	5650 12,150	4450 9,550	3100 6,650	2850 6,100	2000 4,300	2000 1400		*2000 *4,350 1400 3,050 7520 24'7"
0 mm 0'0"	kg lb			8200 17,550	5150 11,050	4200 9,000	2850 6,100	2750 5,850	1900 4,050			2000 4,400 1400 3,050 7380 24'2"
-1500 mm -5'0"	kg lb	*4700 *10,550	*4700 *10,550	8050 17,150	5000 10,750	4050 8,700	2750 5,900	2650 5,750	1850 3,950			2200 4,850 1500 3,350 6910 22'7"
-3000 mm -10'0"	kg lb	*7900 *17,700	*7900 *17,700	8100 17,300	5050 10,850	4050 8,750	2750 5,900	2700	1850			2700 5,950 1850 4,100 6040 19'8"
-4500 mm -15'0"	kg lb			*6650 *14,050	5300 11,400	*4150	2900					*4100 *9,000 2900 6,550 4530 14'6"



ISO 10567:2007



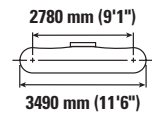
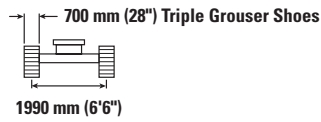
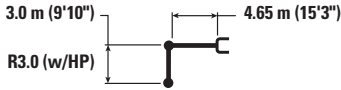
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

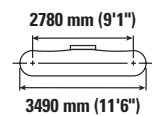
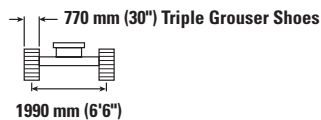
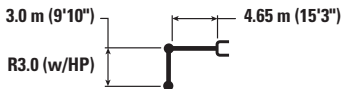
313 GC Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in
		kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
7500 mm 25'0"	kg lb											*2450 *2450 4370
6000 mm 20'0"	kg lb											*2050 *4,500 *2050 *4,500 5950 19'3"
4500 mm 15'0"	kg lb							3150 6,700	2250 4,800			*1900 *4,200 1750 3,900 6860 22'4"
3000 mm 10'0"	kg lb					*4000 *8,650	3400 7,350	3050 6,500	2150 4,650			*1900 *4,150 1500 3,350 7360 24'1"
1500 mm 5'0"	kg lb			*7800 *16,800	5750 12,350	4500 9,700	3150 6,750	2900 6,200	2050 4,350	2050 4,500	1450 3,100	*2000 *4,350 1400 3,100 7520 24'7"
0 mm 0'0"	kg lb			*8250 17,800	5250 11,200	4250 9,150	2900 6,200	2800 5,950	1950 4,150			2050 4,500 1450 3,100 7380 24'2"
-1500 mm -5'0"	kg lb	*4700 *10,550	*4700 *10,550	8150 17,450	5100 10,900	4150 8,850	2800 5,950	2700 5,800	1850 4,000			2250 4,900 1550 3,400 6910 22'7"
-3000 mm -10'0"	kg lb	*7900 *17,700	*7900 *17,700	8250 17,600	5150 11,050	4150 8,900	2800 6,000	2750	1900			2750 6,050 1900 4,150 6040 19'8"
-4500 mm -15'0"	kg lb			*6650 *14,050	5400 11,600	*4150	2950					*4100 *9,000 2950 6,650 4530 14'6"

Reach Boom Lift Capacities – Counterweight: 2.25 mt (4,960 lb) – without Bucket



Reach	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in
		kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
7500 mm 25'0"	kg lb											*2450 *2450 4370
6000 mm 20'0"	kg lb											*2050 *4,500 *2050 *4,500 5950 19'3"
4500 mm 15'0"	kg lb							3150 6,700	2250 4,800			*1900 *4,200 1750 3,900 6860 22'4"
3000 mm 10'0"	kg lb					*4000 *8,650	3400 7,350	3050 6,500	2150 4,650			*1900 *4,150 1500 3,350 7360 24'1"
1500 mm 5'0"	kg lb			*7800 *16,800	5750 12,350	4500 9,700	3150 6,750	2900 6,200	2050 4,350	2050 4,500	1450 3,100	*2000 *4,350 1400 3,100 7520 24'7"
0 mm 0'0"	kg lb			*8250 17,800	5250 11,200	4250 9,150	2900 6,200	2800 5,950	1950 4,150			2050 4,500 1450 3,100 7380 24'2"
-1500 mm -5'0"	kg lb	*4700 *10,550	*4700 *10,550	8150 17,450	5100 10,900	4150 8,850	2800 5,950	2700 5,800	1850 4,000			2250 4,900 1550 3,400 6910 22'7"
-3000 mm -10'0"	kg lb	*7900 *17,700	*7900 *17,700	8250 17,600	5150 11,050	4150 8,900	2800 6,000	2750	1900			2750 6,050 1900 4,150 6040 19'8"
-4500 mm -15'0"	kg lb			*6650 *14,050	5400 11,600	*4150	2950					*4100 *9,000 2950 6,650 4530 14'6"



ISO 10567:2007



* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

Lift capacity stays with ±5% for all available track shoes.

Always refer to the appropriate Operation and Maintenance Manual for specific product information.

313 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Taiwan

	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m ³	yd ³	kg	lb		%	R2.5 (8'2")
Pin-On (No Quick Coupler)										
Utility Duty	312	900	36	0.53	0.69	392	864	100	●	
General Duty	312	1000	39	0.53	0.69	398	877	100	●	
	312	1000	39	0.60	0.78	423	932	100	⊙	
Maximum load with pin-on (payload + bucket)								kg	1606	
								lb	3,542	

Bucket Specifications and Compatibility – Southeast Asia

	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m ³	yd ³	kg	lb		%	R2.5 (8'2")
Pin-On (No Quick Coupler)										
General Duty	312	1000	39	0.53	0.69	398	877	100	●	⊙
	312	1000	39	0.60	0.78	423	932	100	⊙	⊖
	312	1050	42	0.65	0.85	487	1,073	100	⊙	○
Maximum load with pin-on (payload + bucket)								kg	1606	1353
								lb	3,542	2,983

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.
Capacity based on ISO 7451:2007.

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

313 GC Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Africa/Middle East/Eurasia

	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m ³	yd ³	kg	lb		%	R2.5 (8'2")
Pin-On (No Quick Coupler)										
General Duty	312	900	36	0.53	0.69	414	914	100	●	⊙
	312	1000	39	0.60	0.78	438	967	100	⊙	⊖
Maximum load with pin-on (payload + bucket)								kg	1606	1353
								lb	3,542	2,983

Bucket Specifications and Compatibility – South America

	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m ³	yd ³	kg	lb		%	R2.5 (8'2")
Pin-On (No Quick Coupler)										
General Duty	312	900	36	0.53	0.69	425	936	100	●	⊙
Maximum load with pin-on (payload + bucket)								kg	1606	1353
								lb	3,542	2,983

The above loads are in compliance with hydraulic excavator standard EN474-5:2006 + A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.
Capacity based on ISO 7451:2007.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – Taiwan

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

PIN-ON ATTACHMENTS

Boom Type		Reach
Stick Length		R2.5 (8'2")
Hydraulic Hammers	H110 GC	✓
	H110 GC S	✓
	H115 GC	✓
	H115 GC S	✓

Attachment Offering Guide – Southeast Asia

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

No Match

PIN-ON ATTACHMENTS

Boom Type		Reach	
Stick Length		R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC	✓	✓
	H110 GC S	✓	✓
	H110 S	✓	✓
	H115 GC	✓	
	H115 GC S	✓	
	H115 S	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – Africa/Middle East/Eurasia

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

No Match

PIN-ON ATTACHMENTS

Boom Type	Stick Length		Reach	
			R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers		H110 GC	✓	✓
		H110 GC S	✓	✓
		H110 S	✓	✓
		H115 GC	✓	
		H115 GC S	✓	
		H115 S	✓	✓
Demolition and Sorting Grapples		G312 GC	✓	
Compactors (Vibratory Plate)		CVP75	✓	✓

BOOM-MOUNT ATTACHMENTS

Boom Type		Reach
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – South America

Not all Attachments are available in all regions. Consult your Cat dealer for configurations available in your region.

Match

* Working range front only

No Match

PIN-ON ATTACHMENTS

Boom Type	Stick Length	Reach	
		R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC	✓	✓
	H110 GC Side Mount	✓	✓
	H110 GC S	✓	✓
	H110 S	✓	✓
	H115 GC	✓	
	H115 GC Side Mount	✓	✓
	H115 GC S	✓	
	H115 S	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓

BOOM-MOUNT ATTACHMENTS

Boom Type		Reach
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*

313 GC Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			ELECTRICAL SYSTEM		
4.65 m (15'3") Reach boom	✓		750 CCA maintenance-free batteries (×2)	✓	
2.5 m (8'2") Reach stick		✓ ¹	Electrical disconnect switch	✓	
3.0 m (9'10") Reach stick		✓ ²	LED left-side boom and chassis lights	✓	
CAB			LED, right-side boom light		✓ ²
Sound suppressed with viscous mounts	✓		LED cab light		✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓		ENGINE		
Mechanically adjustable seat with headrest	✓		Cat® C3.6 single turbo diesel engine	✓	
Automatic bi-level air conditioner	✓		Three selectable modes: Power, Smart, ECO	✓	
Keyless push-to-start engine control	✓		52° C (125° F) high-ambient cooling capability	✓	
Floor-mounted adjustable consoles	✓		-18° C (-0.4° F) cold start capability	✓ ³	
1-button joystick	✓		-25° C (-13° F) cold start capability		✓ ⁴
1-slider joystick		✓	Electric fuel priming pump	✓	
AM/FM radio with USB and Auxiliary port	✓		Two-stage fuel filtration system	✓	
24V DC outlet	✓		Sealed double-element air filter with pre-cleaner	✓	
Cup holder and storage compartments	✓		HYDRAULIC SYSTEM		
70/30 tempered glass windshield	✓		Electronic main control valve	✓	
Upper radial wiper with washer	✓		Electronic control pump	✓	
Openable steel hatch	✓		Boom and stick regeneration circuits	✓	
Dome light	✓		Automatic hydraulic oil warm up	✓	
Washable floor mat	✓		Automatic two-speed travel	✓	
CAT TECHNOLOGY			Hammer lines		✓
VisionLink®	✓*		Hammer floor pedal kit		✓
			High performance hydraulic return filter	✓	

¹ Standard in Taiwan

² All regions except Taiwan

³ All regions except Eurasia

⁴ Standard in Eurasia; optional in Africa, Middle East, South America (excluding Brazil)

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

(continued on next page)

313 GC Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
SAFETY AND SECURITY			UNDERCARRIAGE AND STRUCTURES		
Anti-skid plating with countersunk bolts	✓		Grease lubricated track link	✓	
Handrail and handhold	✓		500 mm (20") triple grouser shoes		✓
Lockable external tool/storage box	✓		600 mm (24") triple grouser shoes		✓ ²
Lockable disconnect switch	✓		700 mm (28") triple grouser shoes with additional steps		✓ ⁶
Ground level accessible secondary engine shutoff switch	✓		770 mm (30") triple grouser shoes with additional steps		✓ ⁷
Mirror package	✓		Center track guiding guard	✓	
Rearview camera		✓	Bottom guards	✓	
Signaling/warning horn	✓		Travel motor guards	✓	
Swing alarm		✓	Swivel guard		✓ ⁸
Hydraulic lockout lever	✓		2.25 mt (4,960 lb) counterweight	✓	
Travel alarm with cancel switch		✓ ⁵	Tie-down points	✓	
SERVICE AND MAINTENANCE					
Grouped location of filters	✓				
Radiator screen	✓				
Scheduled Oil Sampling (S·O·S SM) ports	✓				

² All regions except Taiwan

⁵ Standard in South America

⁶ All regions except Brazil, Taiwan, and Africa, Middle East

⁷ All regions except Taiwan, and Africa, Middle East

⁸ Standard in South America, and Eurasia

313 GC Environmental Declaration

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, visit <https://caterpillar.com/sustainability/>.

Engine

- The 313 GC meets Brazil MAR-1 and China Nonroad Stage III emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
 - ✓ 100% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels

Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**For use of blends higher than 20% biodiesel, consult your Cat dealer.*

***Lower-carbon intensity fuels do not significantly reduce GHGs at the tailpipe.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

GB 16710:2010 (external) 103 dB(A)

GB 16710:2010 (inside cab) 80 dB(A)

- 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 a noisy environment.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Automatic Engine Control (AEC) system reduces RPM when hydraulic demand is low
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode minimizes fuel consumption for light applications
 - One-touch low idle with automatic engine speed control
 - Hydraulic return filter provides longer life with a 3,000-hour replacement interval



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2024 Caterpillar
All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission. VisionLink is a trademark of Caterpillar Inc., registered in the United States and in other countries.

AEXQ3348-04 (04-2024)
Replaces AEXQ3348-03
Build Number: 05D
(Afr-ME, Eurasia, Taiwan,
S Am [except Chile, Colombia],
SE Asia)

