



# 313 GC

## Hydraulic Excavator

# Technical Specifications

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

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# 313 GC Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C3.6	
Net Power		
ISO 9249	54.3 kW	73 hp
ISO 9249 (DIN)	74 hp (metric)	
Engine Power		
ISO 14396	55.4 kW	74 hp
ISO 14396 (DIN)	75 hp (metric)	
Bore	98 mm	4 in
Stroke	120 mm	5 in
Displacement	3.6 L	220 in <sup>3</sup>
Biodiesel capability	Up to B20 <sup>(1)</sup>	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- 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 at 2,400 rpm.
- No engine power derating required below 3000 m (9,840 ft) altitude.

<sup>(1)</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
- ✓ 100% renewable diesel, HVO (hydrogenated 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.

*\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

*\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

## Swing Mechanism

Swing Speed	11.5 rpm	
Maximum Swing Torque	35 kN·m	25,888 lbf·ft

## Weights

Operating Weight	12 700 kg	28,000 lb
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- Standard undercarriage, Reach boom, R2.5 (8'2") stick, GD 0.53 m<sup>3</sup> (0.69 yd<sup>3</sup>) bucket, 500 mm (20") triple grouser shoes and 2140 kg (4,720 lb) counterweight.

## Track

Track Shoes Width	500 mm	20 in
Track Shoes Width	600 mm	24 in
Track Shoes Width	700 mm	28 in
Number of Shoes (each side)	46	
Number of Track Rollers (each side)	7	
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	26,303 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	26 000 kPa	3,770 psi
Boom Cylinder – Bore	105 mm	4 in
Boom Cylinder – Stroke	1026 mm	40 in
Stick Cylinder – Bore	115 mm	5 in
Stick Cylinder – Stroke	1147 mm	45 in
Bucket Cylinder – Bore	95 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

## Service Refill Capacities

Fuel Tank Capacity	258 L	68.2 gal
Cooling System	15 L	4.0 gal
Engine Oil	8 L	2.1 gal
Final Drive (each)	3 L	0.8 gal
Hydraulic System (including tank)	85 L	22.5 gal
Hydraulic Tank	70 L	18.5 gal

## Standards

Brakes	ISO 10265: 2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2: 2008
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262: 1998 – Level II

## Sound Performance

ISO 6395:2008 (external)	99 dB(A)
ISO 6396:2008 (inside cab)	68 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.

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## Operating Weights and Ground Pressures

	500 mm (20") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)
<b>Base Machine Configurations</b>						
<b>Base Frame with Track Rollers and Carrier Rollers</b>						
<b>2140 kg (4,720 lb) Counterweight and Standard Undercarriage</b>						
Reach Boom + R2.5 (8'2") Reach Stick + 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) GD Bucket	12 700 (28,000)	41.1 (6.0)	13 000 (28,700)	35.1 (5.1)	13 100 (28,900)	30.3 (4.4)

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

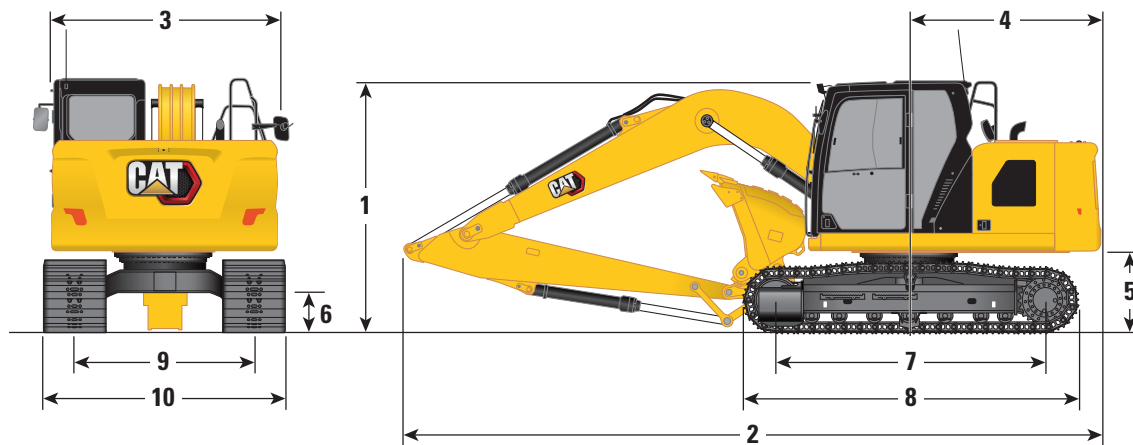
## Major Component Weights

	kg	lb
Base Machine Weight (with 2140 kg [4,720 lb] counterweight, upper frame, standard undercarriage with track rollers – does not include boom cylinders, boom, stick, bucket, stick cylinder, bucket cylinders, tracks, fuel tank and operator).	8660	19,100
Track Shoes:		
500 mm (20") Triple Grouser Track Shoes	1440	3,170
600 mm (24") Triple Grouser Track Shoes	1690	3,730
700 mm (28") Triple Grouser Track Shoes	1890	4,160
Two Boom Cylinders	240	530
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	270	600
Counterweight:		
2140 kg (4,720 lb) Counterweight	2140	4,720
Swing Frame	1240	2,730
Undercarriage:		
Base Frame with GD Track Rollers and Standard Carrier Rollers	2520	5,560
Boom (including lines, pins, stick cylinder):		
4.65 m (15'3") Reach Boom	1030	2,270
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
R2.5 (8'2") Reach Stick	590	1,310
R3.0 (9'10") Reach Stick	650	1,440
Buckets (without linkage, with tips and side cutters):		
0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) GD Bucket	440	970
Two Bucket Pins	20	50
Quick Coupler:		
Pin Grabber Quick Coupler	210	470

# 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

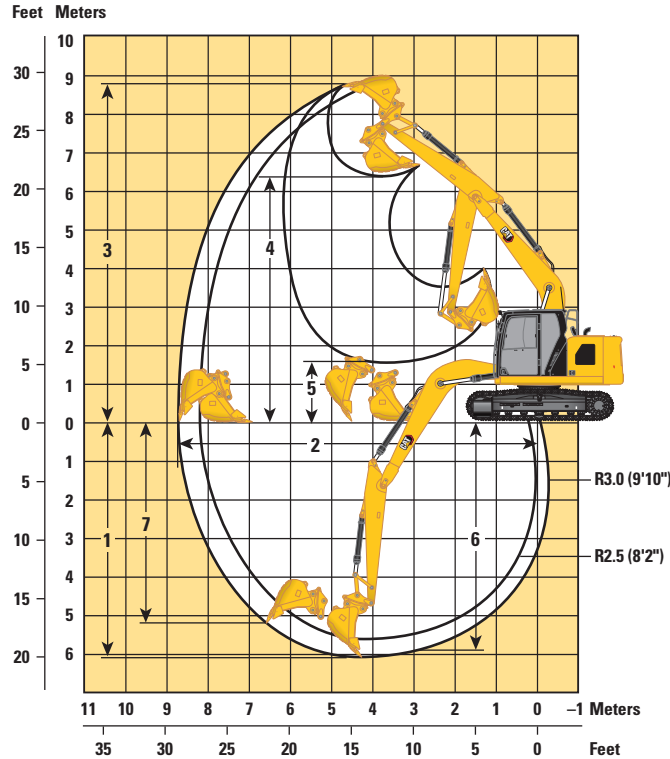
**Reach Stick**

	R2.5 m (8'2")		R3.0 m (9'10")	
<b>1</b> Machine Height:	2810 mm	9'3"	2810 mm	9'3"
Top of Cab Height	2950 mm	9'8"	2950 mm	9'8"
Top of OPG Height	2810 mm	9'3"	2810 mm	9'3"
Handrail Height	2880 mm	9'5"	3190 mm	10'6"
With Boom/Stick/Bucket Installed	2880 mm	9'5"	3190 mm	10'6"
With Boom/Stick Installed	2370 mm	7'9"	2370 mm	7'9"
With Boom Installed				
<b>2</b> Machine Length:	7690 mm	25'3"	7780 mm	25'6"
With Boom/Stick/Bucket Installed	7690 mm	25'3"	7780 mm	25'6"
With Boom/Stick Installed	6890 mm	22'7"	6890 mm	22'7"
With Boom Installed				
<b>3</b> Upperframe Width	2480 mm	8'2"	2480 mm	8'2"
<b>4</b> Tail Swing Radius	2190 mm	7'2"	2190 mm	7'2"
<b>5</b> Counterweight Clearance	916 mm	3'0"	916 mm	3'0"
<b>6</b> Ground Clearance	446 mm	1'6"	446 mm	1'6"
<b>7</b> Track Length – Length to Center of Rollers	2780 mm	9'1"	2780 mm	9'1"
<b>8</b> Overall Track Length	3490 mm	11'5"	3490 mm	11'5"
<b>9</b> Track Gauge	1990 mm	6'6"	1990 mm	6'6"
<b>10</b> 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"
Bucket Type	GD		GD	
Bucket Capacity	0.53 m <sup>3</sup>	0.69 yd <sup>3</sup>	0.53 m <sup>3</sup>	0.69 yd <sup>3</sup>
Bucket Tip Radius	1240 mm	4'1"	1240 mm	4'1"

# 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**

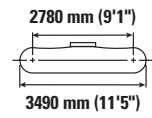
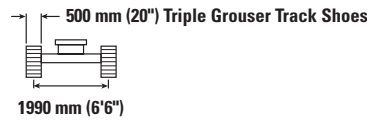
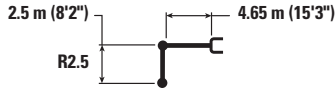
**R2.5 m (8'2")**

**R3.0 m (9'10")**

	R2.5 m (8'2")		R3.0 m (9'10")	
	mm	ft"	mm	ft"
<b>1</b> Maximum Digging Depth	5540 mm	18'2"	6040 mm	19'10"
<b>2</b> Maximum Reach at Ground Line	8190 mm	26'10"	8660 mm	28'5"
<b>3</b> Maximum Cutting Height	8560 mm	28'1"	8830 mm	29'0"
<b>4</b> Maximum Loading Height	6150 mm	20'2"	6420 mm	21'1"
<b>5</b> Minimum Loading Height	2080 mm	6'10"	1600 mm	5'3"
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5330 mm	17'6"	5860 mm	19'3"
<b>7</b> Maximum Vertical Wall Digging Depth	4760 mm	15'7"	5190 mm	17'0"
Minimum Working Equipment Radius	2430 mm	8'0"	2570 mm	8'5"
Bucket Digging Force (ISO)	98.45 kN	22,132 lbf	98.67 kN	22,182 lbf
Stick Digging Force (ISO)	66.68 kN	14,990 lbf	59.29 kN	13,329 lbf
Bucket Type	GD		GD	
Bucket Capacity	0.53 m <sup>3</sup>	0.69 yd <sup>3</sup>	0.53 m <sup>3</sup>	0.69 yd <sup>3</sup>
Bucket Tip Radius	1240 mm	4'1"	1240 mm	4'1"

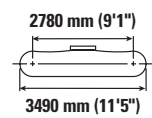
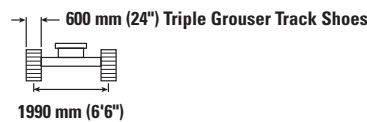
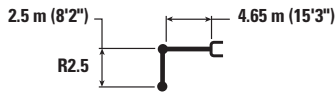
# 313 GC Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



Reach Boom Lift Capacity	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		Track Shoe Width		mm ft/in
		ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	
6000 mm 20'0"	kg lb					*3550 *7,900	*3550 7,900			*2600 *5,800	*2600 *5,800	5440 17'6"
4500 mm 15'0"	kg lb					*3800 *8,300	3600 7,750	3100 6,650	2250 4,800	*2450 *5,350	2000 4,450	6410 20'10"
3000 mm 10'0"	kg lb			*6400 *13,700	6400 *13,700	*4650 *10,100	3400 7,300	3050 6,550	2200 4,700	2400 5,300	1750 3,800	6930 22'8"
1500 mm 5'0"	kg lb			*7350 *18,000	5650 12,150	4500 9,700	3150 6,750	2950 6,300	2100 4,450	2300 5,000	1600 3,550	7090 23'3"
0 mm 0 ft	kg lb			*6500 *15,000	5350 11,450	4350 9,300	2950 6,400	2850 6,100	2000 4,300	2300 5,100	1650 3,600	6930 22'8"
-1500 mm -5'0"	kg lb	*4800 *10,700	*4800 *10,700	8400 17,900	5300 11,350	4250 9,100	2900 6,250	2800 6,050	1950 4,200	2550 5,650	1800 3,950	6410 20'11"
-3000 mm -10'0"	kg lb	*8850 *20,000	*8850 *20,000	*8250 *17,750	5400 11,600	4300 9,200	2950 6,300			3300 7,300	2300 5,100	5430 17'8"

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



Reach Boom Lift Capacity	Unit	1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		Track Shoe Width		mm ft/in
		ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	ISO	ANSI	
6000 mm 20'0"	kg lb					*3550 *7,900	*3550 *7,900			*2600 *5,800	*2600 *5,800	5440 17'6"
4500 mm 15'0"	kg lb					*3800 *8,300	3650 7,900	3200 6,800	2300 4,900	*2450 *5,350	2050 4,500	6410 20'10"
3000 mm 10'0"	kg lb			*6400 *13,700	*6400 *13,700	*4650 *10,100	3450 7,450	3100 6,650	2250 4,750	*2450 *5,300	1750 3,850	6930 22'8"
1500 mm 5'0"	kg lb			*7350 *18,000	5750 12,400	4600 9,900	3200 6,900	3000 6,400	2150 4,550	2350 5,100	1650 3,600	7090 23'3"
0 mm 0 ft	kg lb			*6500 *15,000	5450 11,700	4400 9,450	3050 6,500	2900 6,200	2050 4,350	2350 5,200	1650 3,650	6930 22'8"
-1500 mm -5'0"	kg lb	*4800 *10,700	*4800 *10,700	8550 18,250	5400 11,600	4350 9,300	2950 6,350	2850 6,150	2000 4,300	2650 5,750	1850 4,050	6410 20'11"
-3000 mm -10'0"	kg lb	*8850 *20,000	*8850 *20,000	*8250 *17,750	5500 11,800	4350 9,400	3000 6,450			3350 7,450	2350 5,200	5430 17'8"



ISO 10567:2007



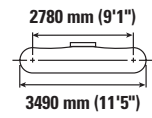
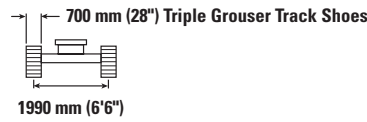
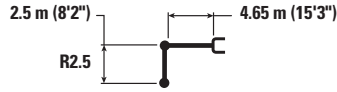
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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.

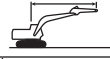










Lift capacity stays with ±5% for all available track shoes.

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

# 313 GC Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



		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					*3550 *7,900	*3550 *7,900			*2600 *5,800	*2600 *5,800	5440 17'6"
4500 mm 15'0"	kg lb					*3800 *8,300	3700 7,950	3200 6,900	2350 5,000	*2450 *5,350	2050 4,600	6410 20'10"
3000 mm 10'0"	kg lb			*6400 *13,700	*6400 *13,700	*4650 *10,100	3500 7,550	3150 6,750	2250 4,850	*2450 *5,300	1800 3,950	6930 22'8"
1500 mm 5'0"	kg lb			*7350 *18,000	5850 12,550	4650 10,050	3250 7,000	3050 6,500	2150 4,600	2350 5,200	1700 3,650	7090 23'3"
0 mm 0 ft	kg lb			*6500 *15,000	5500 11,850	4450 9,600	3050 6,600	2950 6,300	2050 4,450	2400 5,250	1700 3,700	6930 22'8"
-1500 mm -5'0"	kg lb	*4800 *10,700	*4800 *10,700	8700 18,550	5500 11,750	4400 9,450	3000 6,450	2900 6,250	2050 4,350	2650 5,850	1900 4,100	6410 20'11"
-3000 mm -10'0"	kg lb	*8850 *20,000	*8850 *20,000	*8250 *17,750	5600 12,000	4450 9,550	3050 6,550			3400 7,550	2400 5,300	5430 17'8"



ISO 10567:2007



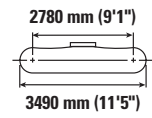
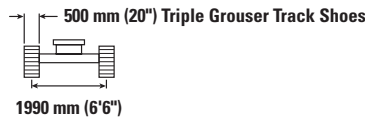
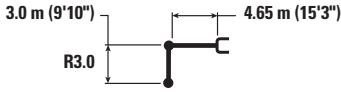
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Lift capacity stays with ±5% for all available track shoes.

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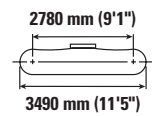
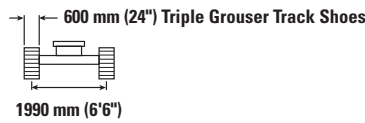
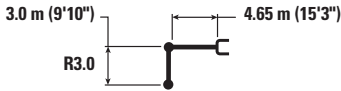
# 313 GC Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in		
7500 mm 25'0"	kg lb											*2600 *5,850	*2600 *5,850	4490 14'01"
6000 mm 20'0"	kg lb							*2250 *2250				*2200 *4,850	*2200 *4,850	6030 19'06"
4500 mm 15'0"	kg lb							3150 6,750	2300 4,900			*2050 *4,500	1800 3,950	6920 22'06"
3000 mm 10'0"	kg lb			*5350 *11,450	*5350 *11,450	*4200 *9,050	3450 7,450	3050 6,600	2200 4,700			*2050 *4,500	1550 3,400	7400 24'02"
1500 mm 5'0"	kg lb			*8200 *17,650	5800 12,500	4550 9,800	3200 6,850	2950 6,300	2100 4,450	2100 4,500	1450 3,200	2050 4,500	1450 3,200	7550 24'09"
0 mm 0 ft	kg lb			*7250 *16,750	5350 11,500	4350 9,300	2950 6,350	2850 6,050	2000 4,250			2100 4,550	1450 3,200	7400 24'03"
-1500 mm -5'0"	kg lb	*4350 *9,700	*4350 *9,700	8300 17,750	5250 11,200	4200 9,050	2850 6,150	2750 5,950	1900 4,100			2300 5,000	1600 3,500	6910 22'07"
-3000 mm -10'0"	kg lb	*7450 *16,800	*7450 *16,800	8350 17,900	5300 11,300	4200 9,050	2850 6,150	2800 6,150	1950 4,300			2800 6,150	1950 4,300	6020 19'07"
-4500 mm -15'0"	kg lb			*6400 *13,550	5500 11,800							*4000 *8,800	3050 6,950	4480 14'04"

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in		
7500 mm 25'0"	kg lb											*2600 *5,850	*2600 *5,850	4490 14'01"
6000 mm 20'0"	kg lb							*2250 *2250				*2200 *4,850	*2200 *4,850	6030 19'06"
4500 mm 15'0"	kg lb							3200 6,900	2350 5,000			*2050 *4,500	1800 4,000	6920 22'06"
3000 mm 10'0"	kg lb			*5350 *11,450	*5350 *11,450	*4200 *9,050	3500 7,550	3150 6,700	2250 4,800			*2050 *4,500	1600 3,450	7400 24'02"
1500 mm 5'0"	kg lb			*8200 *17,650	5900 12,750	4650 10,000	3250 7,000	3000 6,450	2150 4,550	2150 4,600	1500 3,250	2100 4,600	1500 3,250	7550 24'09"
0 mm 0 ft	kg lb			*7250 *16,750	5450 11,700	4400 9,450	3050 6,500	2900 6,200	2000 4,350			2150 4,650	1500 3,250	7400 24'03"
-1500 mm -5'0"	kg lb	*4350 *9,700	*4350 *9,700	8500 18,100	5350 11,450	4300 9,200	2900 6,250	2800 6,050	1950 4,200			2300 5,100	1650 3,550	6910 22'07"
-3000 mm -10'0"	kg lb	*7450 *16,800	*7450 *16,800	8550 18,250	5400 11,550	4300 9,200	2900 6,300	2850 6,300	2000 4,400			2850 6,300	2000 4,400	6020 19'07"
-4500 mm -15'0"	kg lb			*6400 *13,550	5600 12,050							*4000 *8,800	3100 7,050	4480 14'04"



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.

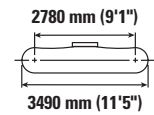
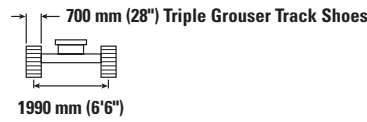
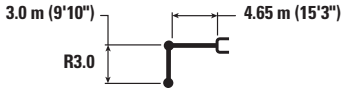
Lift capacity stays with ±5% for all available track shoes.

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



# 313 GC Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – 2140 kg (4,720 lb) Counterweight – without Bucket



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"		mm ft/in		
7500 mm 25'0"	kg lb											*2600 5,850	*2600 5,850	4490 14'01"
6000 mm 20'0"	kg lb							*2250	*2250			*2200 *4,850	*2200 *4,850	6030 19'06"
4500 mm 15'0"	kg lb							3250 7,000	2350 5,050			*2050 4,500	1850 4,050	6920 22'06"
3000 mm 10'0"	kg lb			*5350 *11,450	*5350 *11,450	*4200 9,050	3550 7,650	3150 6,800	2300 4,900			*2050 *4,500	1600 3,500	7400 24'02"
1500 mm 5'0"	kg lb			*8200 *17,650	6000 12,900	4700 10,150	3300 7,050	3050 6,550	2150 4,650	2150	1550	2150 4,700	1500 3,300	7550 24'09"
0 mm 0 ft	kg lb			*7250 *16,750	5550 11,850	4500 9,600	3050 6,600	2950 6,300	2050 4,400			2150 4,750	1500 3,300	7400 24'03"
-1500 mm -5'0"	kg lb	*4350 *9,700	*4350 *9,700	8600 18,350	5400 11,600	4350 9,350	2950 6,350	2850 6,150	2000 4,300			2350 5,200	1650 3,600	6910 22'07"
-3000 mm -10'0"	kg lb	*7450 *16,800	*7450 *16,800	8650 18,500	5450 11,700	4350 9,350	2950 6,350	2900	2000			2900 6,400	2000 4,450	6020 19'07"
-4500 mm -15'0"	kg lb			*6400 *13,550	5700 12,200							*4000 *8,800	3150 7,150	4480 14'04"



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

										Reach Boom	
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb	%	R2.5 m (8'2")	R3.0 m (9'10")	
<b>Pin-On (No Quick Coupler)</b>											
General Duty	312	600	24	0.31	0.40	320	706	100	●	●	
	312	900	36	0.53	0.69	420	927	100	●	⊙	
	312	1100	43	0.68	0.89	474	1,045	100	⊙	⊖	
Severe Duty	312	900	36	0.53	0.69	495	1,090	90	●	●	
	312	1050	42	0.65	0.85	570	1,258	90	⊙	⊖	
Ditch Cleaning	312	1200	48	0.57	0.74	388	855	100	●	⊙	
	312	1500	60	0.74	0.97	455	1,003	100	⊖	○	
Ditch Cleaning Tilt	312	1200	48	0.48	0.63	563	1,240	100	●	⊙	
								kg	1660	1470	
								lb	3,668	3,240	
<b>With Cat Pin Grabber Coupler</b>											
General Duty	312	600	24	0.31	0.40	320	706	100	●	●	
	312	900	36	0.53	0.69	420	927	100	⊙	⊖	
	312	1100	43	0.68	0.89	474	1,045	100	⊖	○	
	312	1200	48	0.76	1.00	508	1,119	100	○	◇	
Severe Duty	312	900	36	0.53	0.69	495	1,090	90	●	⊖	
	312	1050	42	0.65	0.85	570	1,258	90	⊖	○	
Ditch Cleaning	312	1200	48	0.57	0.74	388	855	100	⊙	⊖	
	312	1500	60	0.74	0.97	455	1,003	100	○	◇	
Ditch Cleaning Tilt	312	1200	48	0.48	0.63	563	1,240	100	⊙	⊖	
								kg	1464	1270	
								lb	3,228	2,800	

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.

Bucket weight with General Duty tips.

### Maximum Material Density:

- 2100 kg/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)

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

## Attachments Offering Guide

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	✓	✓

### CAT PIN GRABBER COUPLER 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 Side Mount	✓	✓*
	H115 GC S	✓*	
	H115 S	✓	✓*
Compactors (Vibratory Plate)	CVP75	✓	✓

### S60 DEDICATED COUPLER 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	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓

(continued on next page)

# 313 GC Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

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

### HCS60 DEDICATED COUPLER ATTACHMENTS

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

### HCS65 DEDICATED COUPLER ATTACHMENTS

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

### BOOM-MOUNT ATTACHMENTS

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

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>BOOMS AND STICKS</b>			<b>CAT TECHNOLOGY</b>		
4.65 m (15'3") Reach boom	✓		VisionLink®	✓*	
2.5 m (8'2") Reach stick		✓	VisionLink Productivity		✓
3.0 m (9'10") Reach stick		✓	Remote Flash	✓	
Bucket linkage, with lifting eye	✓		<b>ELECTRICAL SYSTEM</b>		
<b>CAB</b>			Maintenance-free battery	✓	
ROPS	✓		Electrical disconnect switch	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		LED chassis light, left-side boom light, cab lights	✓	
Auto bi-level air conditioner	✓		LED right-side boom light		✓
Jog dial and shortcut keys for monitor control	✓		360° lighting		✓
Keyless push-to-start engine control	✓		<b>ENGINE</b>		
Height-adjustable console, three steps with tool	✓		Cat C3.6 single turbo diesel engine	✓	
Fixed lift-side console	✓		Two selectable modes: Power, Smart	✓	
Mechanical-suspension seat	✓		52° C (125° F) high-ambient cooling capability	✓	
51 mm (2") seat belt	✓		-18° C (0° F) cold start capability	✓	
Bluetooth® radio with USB/Auxiliary ports	✓		Electric fuel priming pump	✓	
12V DC outlet	✓		Variable speed fan	✓	
Document storage	✓		Two-stage fuel filtration system	✓	
Beverage holder	✓		Double-element air filter with pre-cleaner	✓	
Cup holder	✓				
Openable two-piece front window	✓				
Rear window emergency exit	✓				
Radial wiper with washer	✓				
Openable steel hatch	✓				
LED dome light	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				

(continued on next page)

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

# 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
<b>HYDRAULIC SYSTEM</b>			<b>SERVICE AND MAINTENANCE</b>		
Boom and stick regeneration circuits	✓		Grouped engine oil and fuel filters	✓	
Automatic hydraulic oil warm up	✓		Side entry to service platform	✓	
Automatic two-speed travel	✓		Ground level engine oil dipstick	✓	
Single type electronic main pump	✓		Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports	✓	
Electronic main control valve	✓		Integrated vehicle health management system	✓	
Boom and stick drift reduction valve	✓		<b>UNDERCARRIAGE AND STRUCTURES</b>		
Boom and stick lowering check valves		✓	Standard undercarriage	✓	
Medium-pressure line		✓	500 mm (20") triple grouser track shoes		✓
High-pressure line		✓	600 mm (24") triple grouser track shoes		✓
Quick coupler line		✓	700 mm (28") triple grouser track shoes		✓
<b>SAFETY AND SECURITY</b>			Grease lubricated track links	✓	
Rear and right-side-view cameras	✓		Center track guiding guard	✓	
Hydraulic lockout lever	✓		Bottom guards	✓	
Ground-level engine shutoff switch	✓		Travel motor guards	✓	
Service platform with anti-skid plate and countersunk bolts	✓		2140 kg (4,720 lb) counterweight	✓	
Signaling/warning horn	✓		Tie-down points	✓	
Travel alarm with cancel switch		✓			
Lockable disconnect switch	✓				
Auto Hammer Stop	✓				

## Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

### CAB

- Radial lower wiper
- Left-hand and right-hand electrical pedal (two-way) for tool control
- Dual exit rear window kit
- Rain protector plus cab light cover
- Polycarbonate roof hatch
- Front windshield laminated glass (P5A glass, EU demolition regulation)
- Key fob (for use with Bluetooth receiver)

### GUARDS

- Operator Protective Guards (OPG) (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard

### SAFETY AND SECURITY

- 76 mm (3") retractable seat belt
- Bluetooth receiver

# 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, please visit <https://www.caterpillar.com/en/company/sustainability>.

## Engine

- The Cat® C3.6 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to:
  - ✓ 20% biodiesel FAME (fatty acid methyl ester)\*
  - ✓ 100% renewable diesel, HVO (hydrogenated 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.

*\*Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

*\*\*Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

## 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 CO<sub>2</sub> 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

ISO 6395:2008 (external) 99 dB(A)

ISO 6396:2008 (inside cab) 68 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
  - 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
  - Cut maintenance costs with extended and synchronized intervals
  - Remote Flash

## Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	82.77%
Iron	4.18%
Nonferrous Metal	1.88%
Mixed Metal	0.30%
Mixed-Metal and Nonmetal	2.50%
Plastic	0.16%
Rubber	3.30%
Mixed Nonmetallic	0.85%
Fluid	2.47%
Other	1.59%
Uncategorized	0.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused, or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 95%



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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

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AEXQ3731 (04-2024)  
Build Number: 07E  
(Chile, Colombia)

