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

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 in³
Biodiesel capability	Up to B20(1)	

- 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.

(1)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

- Standard undercarriage, Reach boom, R2.5 (8'2") stick, General Duty (GD) 0.53 m³ (0.69 yd³) 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.

Operating Weights and Ground Pressures

Base Machine Configurations	500 mm (20") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Frame with Track Rollers and Carrier Rollers						
2140 kg (4,720 lb) Counterweight and Standard Undercarriage						
Reach Boom + R2.5 (8'2") Reach Stick + 0.53 m^3 (0.69 yd^3) 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.

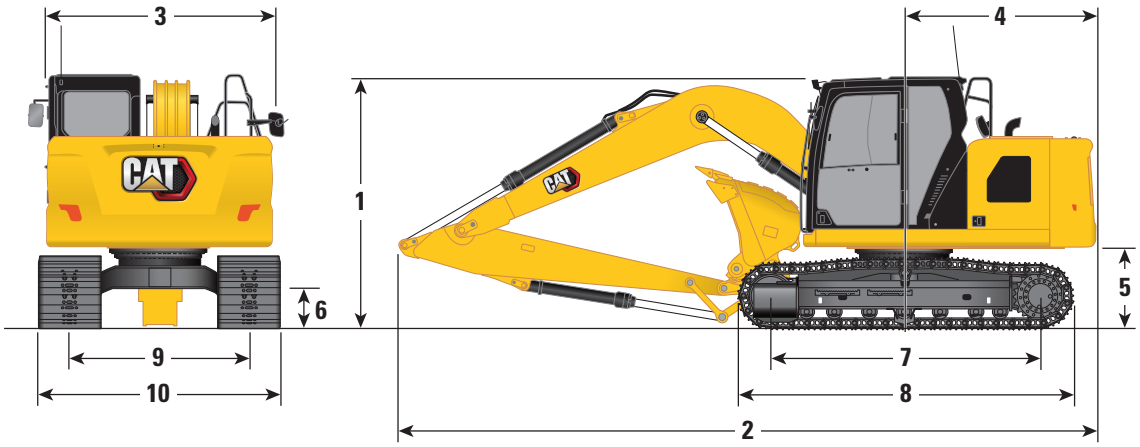
Major Component Weights

	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^3 (0.69 yd^3) GD Bucket	440	970
Two Bucket Pins	20	50
Quick Coupler:		
Pin Grabber Quick Coupler	210	470

313 GC Hydraulic Excavator Specifications

Dimensions

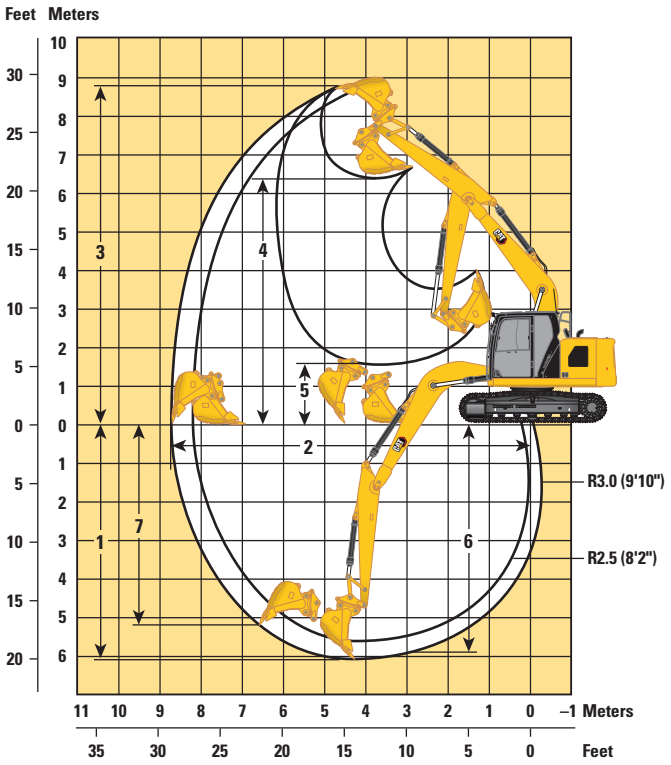
All dimensions are approximate and may vary depending on bucket selection.



Boom Option	Reach Boom 4.65 m (15'3")			
Stick Options	Reach Stick			
	R2.5 m (8'2")		R3.0 m (9'10")	
1 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				
2 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				
3 Upperframe Width	2480 mm	8'2"	2480 mm	8'2"
4 Tail Swing Radius	2190 mm	7'2"	2190 mm	7'2"
5 Counterweight Clearance	916 mm	3'0"	916 mm	3'0"
6 Ground Clearance	446 mm	1'6"	446 mm	1'6"
7 Track Length – Length to Center of Rollers	2780 mm	9'1"	2780 mm	9'1"
8 Overall Track Length	3490 mm	11'5"	3490 mm	11'5"
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"
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	1240 mm	4'1"	1240 mm	4'1"

Working Ranges and Forces

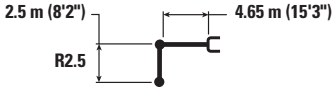
All dimensions are approximate and may vary depending on bucket selection.

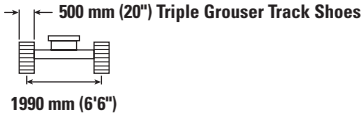


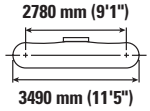
Boom Option	Reach Boom 4.65 m (15'3")			
Stick Options	Reach Stick			
	R2.5 m (8'2")		R3.0 m (9'10")	
1 Maximum Digging Depth	5540 mm	18'2"	6040 mm	19'10"
2 Maximum Reach at Ground Line	8190 mm	26'10"	8660 mm	28'5"
3 Maximum Cutting Height	8560 mm	28'1"	8830 mm	29'0"
4 Maximum Loading Height	6150 mm	20'2"	6420 mm	21'1"
5 Minimum Loading Height	2080 mm	6'10"	1600 mm	5'3"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5330 mm	17'6"	5860 mm	19'3"
7 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^3	0.69 yd^3	0.53 m^3	0.69 yd^3
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

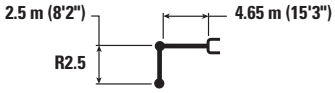


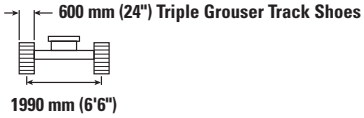


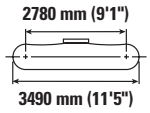


		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"				
												mm ft/in
6000 mm 20'0"	kg lb					*3550 *7,900	*3550 7,900			*2600 *5,800	*2600 *5,800	5440 17'6"
4500 mm 15'0"	kg lb					*3800 *8,300	3600 7,750	3100 6,650	2250 4,800	*2450 *5,350	2000 4,450	6410 20'10"
3000 mm 10'0"	kg lb			*6400 *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







		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	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"

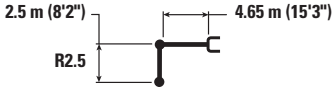
* ISO 10567:2007

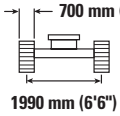
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

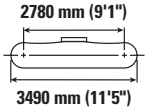
Lift capacity stays with ±5% for all available track shoes.

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

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**

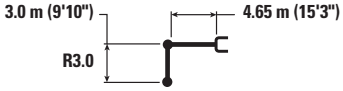
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

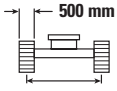
Lift capacity stays with ±5% for all available track shoes.

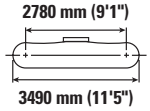
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

313 GC Hydraulic Excavator Specifications

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

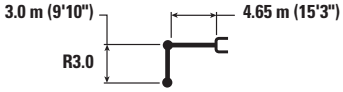


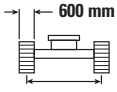


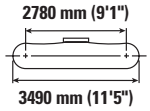


		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"		7500 mm/25'0"				
														mm ft/in
7500 mm **25'0"**	kg **lb**											*2600 ***5,850**	*2600 ***5,850**	4490 **14'01"**
6000 mm **20'0"**	kg **lb**							*2250	*2250			*2200 ***4,850**	*2200 ***4,850**	6030 **19'06"**
4500 mm **15'0"**	kg **lb**							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	1450	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	1950			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	1500	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	2000			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"**

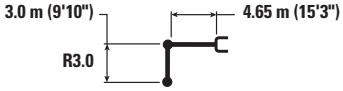
* **ISO 10567:2007**

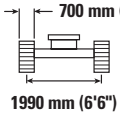
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

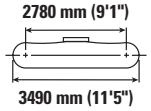
Lift capacity stays with ±5% for all available track shoes.

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

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	m³	yd³	kg	lb	%	R2.5 m (8'2")	R3.0 m (9'10")
Pin-On (No Quick Coupler)										
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	⊖	○
Dtch Cleaning Tilt	312	1200	48	0.48	0.63	563	1,240	100	●	◉
Maximum load pin-on (payload + bucket)								kg	1660	1470
								lb	3,668	3,240
With Cat Pin Grabber Coupler										
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	○	◇
Dtch Cleaning Tilt	312	1200	48	0.48	0.63	563	1,240	100	◉	⊖
Maximum load pin-on (payload + bucket)								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/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)
- ◇ 900 kg/m³ (1,500 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.

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		Reach	
Stick Length		**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	✓	✓
Rotary Cutters	RC10	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type		Reach	
Stick Length		**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	✓	✓
Rotary Cutters	RC10	✓	✓

S60 DEDICATED COUPLER 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	✓	✓
Rotary Cutters	RC10	✓	✓

(continued on next page)

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	✓	✓
Rotary Cutters	RC10	✓	✓

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	✓	✓
Rotary Cutters	RC10	✓	✓

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
BOOMS AND STICKS		
4.65 m (15'3") Reach boom	✓	
2.5 m (8'2") Reach stick		✓
3.0 m (9'10") Reach stick		✓
Bucket linkage, with lifting eye	✓	
CAB		
ROPS	✓	
Operator Protective Guards (OPG)		✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓	
Auto bi-level air conditioner	✓	
Jog dial and shortcut keys for monitor control	✓	
Keyless push-to-start engine control	✓	
Height-adjustable console, three steps with tool	✓	
Fixed lift-side console	✓	
Air-suspension seat	✓	
51 mm (2") seat belt	✓	
Bluetooth® radio with USB/ Auxiliary ports	✓	
12V DC outlet	✓	
Document storage	✓	
Beverage holder	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Roller front sunscreen	✓	
Roller rear sunscreen		✓
Washable floor mat	✓	
Beacon ready	✓	

	Standard	Optional
CAT TECHNOLOGY		
Cat Equipment Management:		
– VisionLink®	✓[1]	
– VisionLink Productivity		✓[2]
– Remote Flash	✓	
ELECTRICAL SYSTEM		
Maintenance-free battery	✓	
Electrical disconnect switch	✓	
LED chassis light, left-side boom light, cab lights	✓	
LED right-side boom light		✓
360° lighting		✓
ENGINE		
Cat C3.6 single turbo diesel engine	✓	
Two selectable modes: Power, Smart	✓	
52° C (125° F) high-ambient cooling capability	✓	
–18° C (0° F) cold start capability	✓	
Electric fuel priming pump	✓	
Variable speed fan	✓	
Two-stage fuel filtration system	✓	
Double-element air filter with pre-cleaner	✓	

(continued on next page)

[1]Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

[2]VisionLink subscription required. Consult your Cat dealer for details.

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
Single type electronic main pump	✓	
Electronic main control value	✓	
Boom and stick drift reduction valve	✓	
Boom and stick lowering check valves		✓
Medium-pressure line		✓
HIgh-pressure line		✓
Quick coupler line		✓
SAFETY AND SECURITY		
Rear and right-side-view cameras	✓	
Hydraulic lockout lever	✓	
Ground-level engine shutoff switch	✓	
Service platform with anti-skid plate and countersunk bolts	✓	
Signaling/warning horn	✓	
Travel alarm with cancel switch		✓
Lockable disconnect switch	✓	
Auto Hammer Stop	✓	

	Standard	Optional
SERVICE AND MAINTENANCE		
Grouped engine oil and fuel filters	✓	
Side entry to service platform	✓	
Ground level engine oil dipstick	✓	
Scheduled Oil Sampling (S·O·S^{SM}) ports	✓	
Integrated vehicle health management system	✓	
UNDERCARRIAGE AND STRUCTURES		
Standard undercarriage	✓	
500 mm (20") triple grouser track shoes		✓
600 mm (24") triple grouser track shoes		✓
700 mm (28") triple grouser track shoes		✓
Grease lubricated track links	✓	
Center track guiding guard	✓	
Bottom guards	✓	
Travel motor guards	✓	
2140 kg (4,720 lb) counterweight	✓	
Tie-down points	✓	

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_2 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 supports reduced fuel consumption for light applications
  - One-touch low idle with automatic engine speed control
  - Extended service intervals help decrease maintenance costs
  - 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**

AEXQ4093-00 (11-2024)
Build Number: 07H
(Chile, Colombia)