



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	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 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.

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

*Option available for Brazil, Paraguay, Uruguay, Argentina, Ecuador only.

Swing Mechanism

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

*CE-marked machine default value may be set lower.

Weights

Operating Weight	12 400 kg	27,200 lb
• Standard undercarriage, Reach boom, R2.5 (8'2") stick, General Duty (GD) 0.60 m ³ (0.78 yd ³) bucket, 500 mm (20") triple grouser shoes, and 2.25 mt (4,960 lb) counterweight.*		
Number of Shoes (each side)	43	
Number of Track Rollers (each side)	6	
Number of Carrier Rollers (each side)	1	

*Includes boom and stick with High Pressure (HP)/Auxiliary (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	

Sound Performance

ISO 6395:2008 (external)	103 dB(A)
ISO 6396:2008 (inside cab)	80 dB(A)
• External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Caterpillar machine that is properly equipped and maintained.	
• Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.	
• Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).	

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.

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		770 mm (30") Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)						
Base Frame with Track Rollers and Carrier Rollers								
2.25 mt (4,960 lb) Counterweight + Standard Undercarriage Base Machine	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 + R2.5 (8'2") Stick + 0.60 m ³ (0.78 yd ³) GD Bucket*								
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

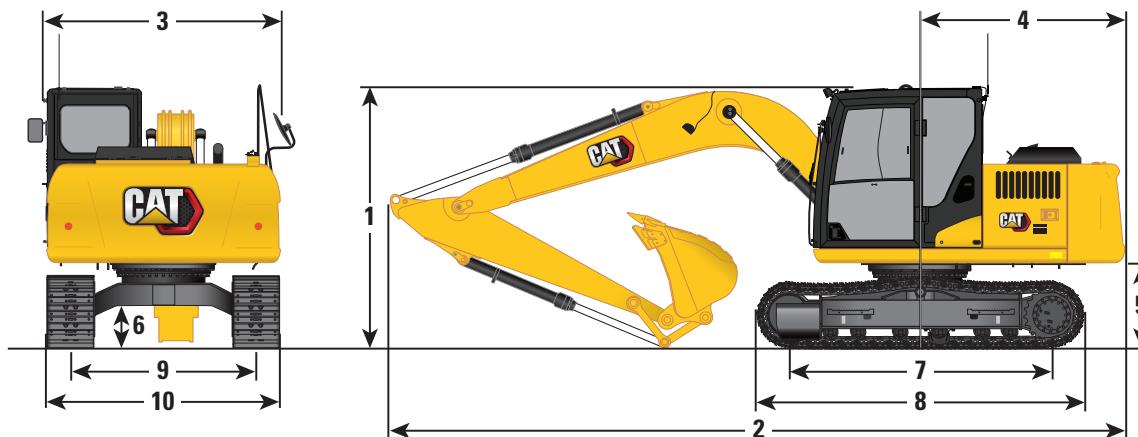
	kg	lb
Base Machine Weight (with 2,25 mt [4,960 lb] counterweight, upper frame, standard undercarriage with track rollers – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator).	8400	18,500
Track Shoes:		
500 mm (20") 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
0.60 m ³ (0.78 yd ³) GD Bucket*	448	988

*For use with 2.5 m (8'2") Reach Stick only.

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

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

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

10 Undercarriage Width:	1990 mm	6'6"	1990 mm	6'6"
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

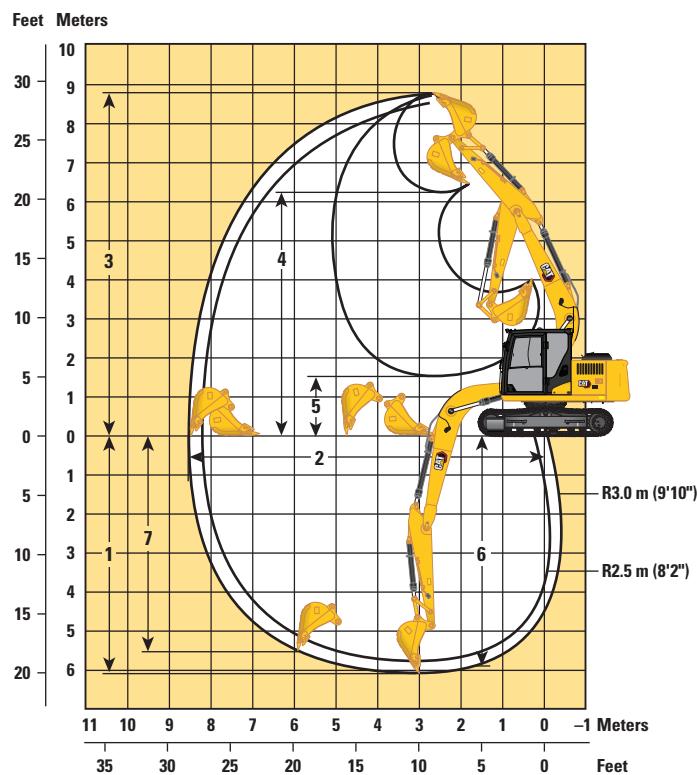
GD

Bucket Capacity	0.60 m ³	0.78 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")

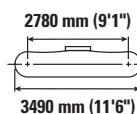
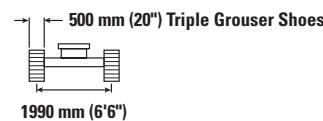
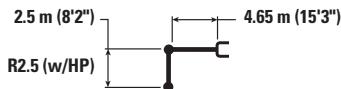
Stick Options

Reach Stick

	R2.5 m (8'2")	R3.0 m (9'10")		
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	0.60 m ³	0.78 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1000 mm	3'3"	1000 mm	3'3"

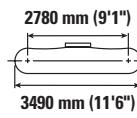
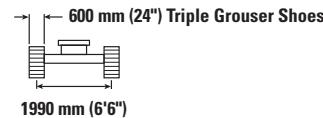
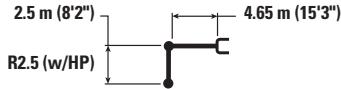
313 GC Hydraulic Excavator Specifications

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



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"			
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 7,600			*2400 *5,250	*2400 5,250
4500 mm 15'0"	kg lb					*3700 *8,100	3500 7,500	3000 6,450	2200 4,650	*2200 *4,800	1950 4,350
3000 mm 10'0"	kg lb			*6100 *13,050		*4550 *9,800	3300 7,100	2950 6,300	2100 4,550	*2150 *4,750	1700 3,700
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
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
-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
-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



		1500 mm/5'0"		3000 mm/10'0"		4500 mm/15'0"		6000 mm/20'0"			
6000 mm 20'0"	kg lb					*3500 *7,750	*3500 7,750			*2400 *5,250	*2400 5,250
4500 mm 15'0"	kg lb					*3700 *8,100	3550 7,650	3100 6,550	2250 4,750	*2200 *4,800	2000 4,400
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
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
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
-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
-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 $\pm 5\%$ 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

		2.5 m (8'2")		4.65 m (15'3")		700 mm (28") Triple Grouser Shoes		2780 mm (9'1")			
		R2.5 (w/HP)				1990 mm (6'6")		3490 mm (11'6")			
		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	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3600 7,750	3100 6,650	2250 4,800	*2200 *4,800	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	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	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	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	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

		2.5 m (8'2")		4.65 m (15'3")		700 mm (30") Triple Grouser Shoes		2780 mm (9'1")			
		R2.5 (w/HP)				1990 mm (6'6")		3490 mm (11'6")			
		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	5380 17'4"
4500 mm 15'0"	kg lb					*3700 *8,100	3600 7,750	3100 6,650	2250 4,800	*2200 *4,800	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	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	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	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	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



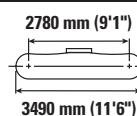
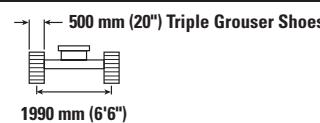
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

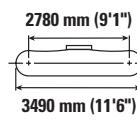
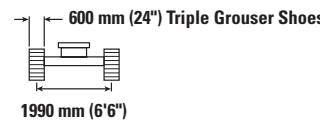
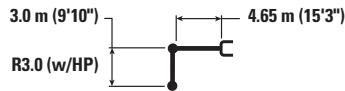
313 GC Hydraulic Excavator Specifications

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



		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											*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 5,750	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



		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											*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 17,700	5000 17,300	4050 10,850	2750 8,750	2650 5,900	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

		3.0 m (9'10")		4.65 m (15'3")		770 mm (28") Triple Grouser Shoes		2780 mm (9'1")		
		R3.0 (w/HP)				1990 mm (6'6")		3490 mm (11'6")		
										mm ft/in
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	*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 5,950	1900 4,150	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

		3.0 m (9'10")		4.65 m (15'3")		770 mm (30") Triple Grouser Shoes		2780 mm (9'1")		
		R3.0 (w/HP)				1990 mm (6'6")		3490 mm (11'6")		
										mm ft/in
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	*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 6,000	2700 5,850	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 5,950	1900 4,150	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 $\pm 5\%$ 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") R3.0 (9'10")
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
								lb	3,542

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 EN 474-5:2022/AC:2022, 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")	R3.0 (9'10")
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")	R3.0 (9'10")
Pin-On (No Quick Coupler)										
General Duty	312	900	36	0.53	0.69	425	936	100	●	○
General Duty	312	1000	39	0.60	0.78	448	988	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 EN 474-5:2022/AC:2022, 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

No Match

PIN-ON ATTACHMENTS

Boom Type	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length		R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC	✓	✓
	H110 GC S	✓	✓
	H115 GC	✓	
	H115 GC S	✓	
Rotary Cutters	RC10	✓	✓

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	R2.5 (8'2")	R3.0 (9'10")
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	✓	✓

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – Africa Middle East

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 GCS	✓	✓
H110 S	✓	✓
H115 GC	✓	
H115 GCS	✓	
H115 S	✓	✓
Demolition and Sorting Grapples	G312 GC	✓
Compactors (Vibratory Plate)	CVP75	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

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

CW-20s DEDICATED COUPLER ATTACHMENTS

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

CW-20 DEDICATED COUPLER ATTACHMENTS

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

BOOM-MOUNT ATTACHMENTS

Boom Type	Reach	
Stick Length	R2.5 (8'2")	R3.0 (9'10")
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – Eurasia

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 S	✓	✓
H110 S	✓	✓
H115 GC	✓	
H115 GC S	✓	
H115 S	✓	✓
Demolition and Sorting Grapples	✓	
G312 GC	✓	
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 S	✓	
H110 S	✓	✓
H115 S	✓	
Compactors (Vibratory Plate)	✓	✓
CVP75	✓	
Rotary Cutters	✓	✓
RC10	✓	

CW-20s 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 S	✓	
Compactors (Vibratory Plate)	✓	✓
CVP75	✓	
Rotary Cutters	✓	✓
RC10	✓	

CW-20 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 S	✓*	
Demolition and Sorting Grapples	✓*	
G312 GC Fixed CAN		
Compactors (Vibratory Plate)	✓	✓
CVP75	✓	
Rotary Cutters	✓	✓
RC10	✓	

BOOM-MOUNT ATTACHMENTS

Boom Type	Reach	
Stick Length	R2.5 (8'2")	R3.0 (9'10")
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	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length			
Hydraulic Hammers	H110 GC	✓	✓
	H110 GC S	✓	✓
	H110 S	✓	✓
	H115 GC	✓	
	H115 GC S	✓	
	H115 S	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
Rotary Cutters	RC10	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length			
Hydraulic Hammers	H110 GC	✓	✓
	H110 GC S	✓	
	H110 S	✓	✓
	H115 S	✓	
Compactors (Vibratory Plate)	CVP75	✓	✓
Rotary Cutters	RC10	✓	✓

S60 DEDICATED COUPLER ATTACHMENTS

Boom Type	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length			
Hydraulic Hammers	H110 GC	✓	✓
Rotary Cutters	RC10	✓	✓

(continued on next page)

313 GC Hydraulic Excavator Specifications

Attachment Offering Guide – South America (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	R2.5 (8'2")	R3.0 (9'10")
Stick Length		R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC	✓	✓
Rotary Cutters	RC10	✓	✓

HCS65 DEDICATED COUPLER ATTACHMENTS

Boom Type	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length		R2.5 (8'2")	R3.0 (9'10")
Hydraulic Hammers	H110 GC	✓	✓*
Rotary Cutters	RC10	✓	✓

BOOM-MOUNT ATTACHMENTS

Boom Type	Reach	R2.5 (8'2")	R3.0 (9'10")
Stick Length		R2.5 (8'2")	R3.0 (9'10")
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 (x2)	✓
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	✓
Operator Protective Guards (OPG)		✓	ENGINE	
Rollover Protective Structure (ROPS)		✓ ³	Cat C3.6 single turbo diesel engine	✓
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Three selectable modes: Power, Smart, Eco	✓
Mechanically adjustable seat with headrest	✓		52° C (125° F) high-ambient cooling capability	✓
Automatic bi-level air conditioner	✓		-18° C (-0.4° F) cold start capability	✓ ⁵
Keyless push-to-start engine control	✓		-25° C (-13° F) cold start capability	✓ ⁶
Floor-mounted adjustable consoles	✓		Electric fuel priming pump	✓
1-button joystick	✓		Two-stage fuel filtration system	✓
1-slider joystick		✓	Sealed double-element air filter with pre-cleaner	✓
AM/FM radio with USB and Auxiliary port		✓	HYDRAULIC SYSTEM	
24V DC outlet	✓		Electronic main control valve	✓
Cup holder and storage compartments	✓		Electronic control pump	✓
70/30 tempered glass windshield	✓		Boom and stick regeneration circuits	✓
Upper radial wiper with washer	✓		Automatic hydraulic oil warm up	✓
Openable steel hatch	✓		Automatic two-speed travel	✓
Dome light	✓		Hammer lines	✓
Washable floor mat	✓		Hammer floor pedal kit	✓
CAT® TECHNOLOGY			High performance hydraulic return filter	✓
Cat Equipment Management:				
– VisionLink™		✓ ⁴		
– Remote Flash		✓		

¹Standard in Taiwan

²All regions except Taiwan

³Brazil, Paraguay, Uruguay, Argentina, and Ecuador only

⁴Provides 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.

⁵All regions except Eurasia

⁶Standard in Eurasia; optional in Africa, Middle East, South America (excluding Brazil)

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional	Standard	Optional
SAFETY AND SECURITY				
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	✓ ⁸
Ground-level accessible secondary engine shutoff switch	✓		770 mm (30") triple grouser shoes with additional steps	✓ ⁹
Mirror package	✓		Center track guiding guard	✓
Rearview camera		✓	Bottom guards	✓
Signaling/warning horn	✓		Travel motor guards	✓
Swing alarm		✓	Swivel guard	✓ ¹⁰
Hydraulic lockout lever	✓		2.25 mt (4,960 lb) counterweight	✓
Travel alarm with cancel switch		✓ ⁷	Tie-down points	✓
SERVICE AND MAINTENANCE				
Grouped location of filters	✓			
Radiator screen	✓			
S-O-S SM ports	✓			

²All regions except Taiwan

⁷ Standard in South America

⁸ All regions except Brazil, Taiwan, and Africa, Middle East

⁹ All regions except Taiwan, and Africa, Middle East

¹⁰ 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 Cat C3.6 engine meets Brazil MAR-1 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.

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

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 supports reduced 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

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

ISO 6395:2008 (external)	103 dB(A)
ISO 6396:2008 (inside cab)	80 dB(A)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Caterpillar machine that is properly equipped and maintained.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).



For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at 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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AEXQ4162-01 (12-2025)

Replaces AEXQ4162-00

Build Number: 05F

(Afr-ME, Eurasia, Taiwan,
S Am [excluding Chile, Colombia],
SE Asia)