330
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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330 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C7.1	
Net Power		
ISO 9249	193.8 kW	260 hp
ISO 9249 (DIN)	263 hp (metric)	
Engine Power		
ISO 14396	195 kW	261 hp
ISO 14396 (DIN)	265 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in³
Biodiesel capability	Up to B20(1)	

- Emits equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- 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 2,000 rpm.

(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 (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.

**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	110 kN·m	81,132 lbf·ft

Weights

Operating Weight	30 200 kg	66,600 lb

- Long undercarriage, Reach boom, R3.2 m (10'6") stick, Heavy Duty (HD) 1.76 m³ (2.30 yd³) bucket, 600 mm (24") triple grouser shoes and 6700 kg (14,770 lb) counterweight.

Track

Standard Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	700 mm	28 in
Number of Shoes (each side)	50	
Number of Track Rollers (each side)	9	
Number of Carrier Rollers (each side)	2	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	248 kN	55,753 lbf

Hydraulic System

Main System – Maximum Flow – Implement	560 L/min (280 × 2 pumps)	148 gal/min (74 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode/Auto Dig Boost	38 000 kPa	5,510 psi
Maximum Pressure – Travel	35 000 kPa	5,075 psi
Maximum Pressure – Swing	29 800 kPa	4,320 psi
Boom Cylinder – Bore	140 mm	6 in
Boom Cylinder – Stroke	1407 mm	55 in
Stick Cylinder – Bore	150 mm	6 in
Stick Cylinder – Stroke	1646 mm	65 in
Bucket Cylinder – Bore	135 mm	5 in
Bucket Cylinder – Stroke	1156 mm	46 in

Service Refill Capacities

Fuel Tank Capacity	474 L	125.2 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	10 L	2.6 gal
Final Drive (each)	5.5 L	1.5 gal
Hydraulic System (including tank)	310 L	81.9 gal
Hydraulic Tank	147 L	38.8 gal

Standards

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

Sound Performance

ISO 6395:2008 (external)	103 dB(A)
ISO 6396:2008 (inside cab)	70 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	600 mm (24") Triple Grouser Shoes		600 mm (24") Double Grouser Shoes		700 mm (28") HD Triple Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)	Weight kg (lb)	Ground Pressure kPa (psi)
Base Frame with Track Rollers and Carrier Rollers						
6700 kg (14,770 lb) Counterweight + Long Undercarriage Base Machine						
Reach Boom + R3.2CB2 (10'6") Stick + 1.76 m³ (2.30 yd³) HD Bucket	30 200 (66,600)	57 (8.3)	30 600 (67,400)	58 (8.4)	30 800 (67,900)	50 (7.3)
Reach Boom + R2.65CB2 (8'8") Stick + 1.76 m³ (2.30 yd³) HD Bucket	30 100 (66,400)	57 (8.3)	30 500 (67,100)	58 (8.4)	30 700 (67,700)	50 (7.3)

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

Major Component Weights

	kg	lb
Base machine (with 6700 kg [14,770 lb] counterweight, upper frame, long undercarriage and boom cylinders – weight of 90% fuel tank and 75 kg [165 lb] operator not included)	20 910	46,090
Track Shoes:		
600 mm (24") Width, 11 mm (0.43") Thick, Triple Grouser Track Shoes	3620	7,980
600 mm (24") Width, 14.5 mm (0.57") Thick, Double Grouser Track Shoes	3960	8,730
700 mm (28") Width, 13 mm (0.51") Thick, HD Triple Grouser Track Shoes	4200	9,260
Two Boom Cylinders	490	1,080
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	460	1,010
Counterweight:		
6700 kg (14,770 lb) Counterweight	6700	14,770
Undercarriage:		
Long Undercarriage	6700	14,800
Boom (including lines, pins, stick cylinder):		
Reach Boom 6.15 m (20'2")	2310	5,090
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick R3.2CB2 (10'6")	1470	3,240
Reach Stick R2.65CB2 (8'8")	1370	3,020
Buckets (without linkage, with tips and sidecutters):		
1.76 m³ (2.30 yd³) General Duty (GD), CB Linkage	1090	2,400
1.76 m³ (2.30 yd³) HD, CB Linkage	1440	3,170
Quick Couplers (QC):		
Pin Grabber QC CB with Pins	530	1,170
Pin Grabber QC CB without Pins	500	1,100

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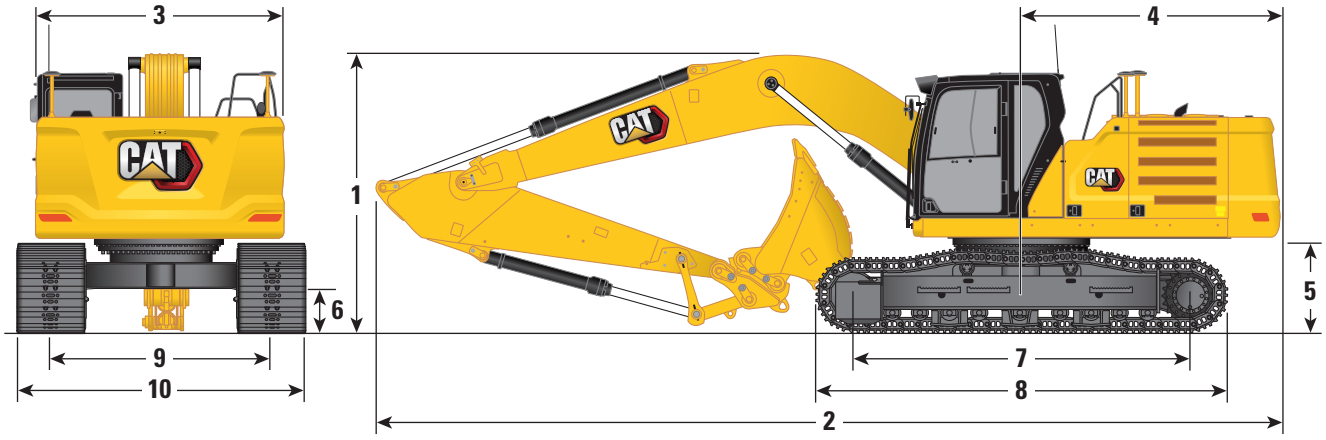
Dimensions

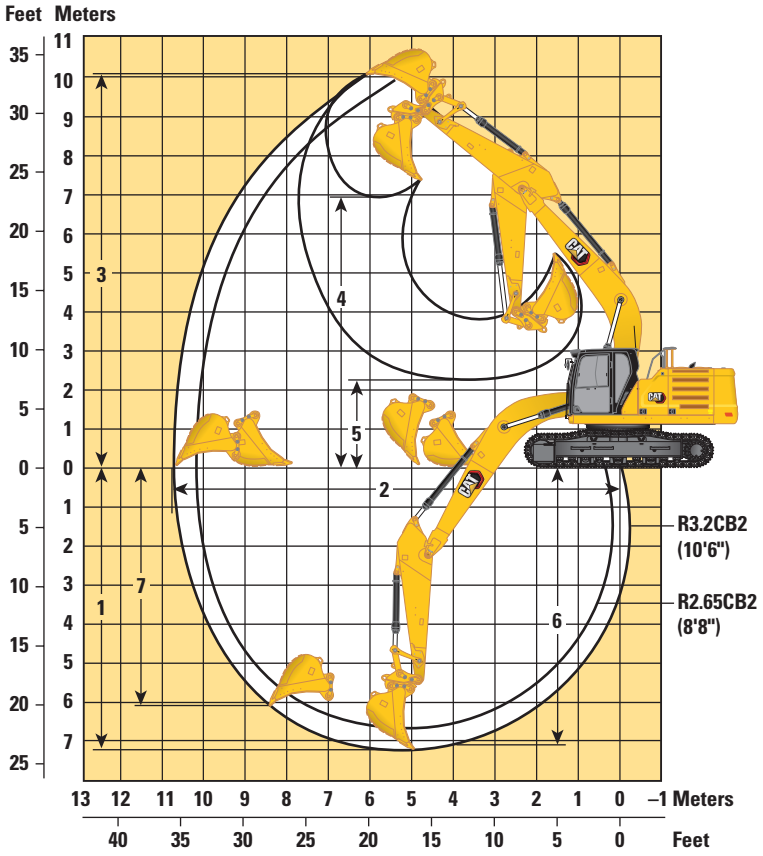
All dimensions are approximate and may vary depending on bucket selection.



Boom Option	Reach Boom 6.15 m (20'2")			
Stick Options	Reach Stick			
	R3.2CB2 (10'6")		R2.65CB2 (8'8")	
1 Machine Height:				
Cab Height	3060 mm	10'0"	3060 mm	10'0"
Top of Global Navigation Satellite System (GNSS) Antenna Height (if installed)	3080 mm	10'1"	3080 mm	10'1"
OPG Height	3200 mm	10'6"	3200 mm	10'6"
Handrail Height	3060 mm	10'0"	3060 mm	10'0"
With Boom/Stick/Bucket Installed	3400 mm	11'2"	3450 mm	11'4"
With Boom/Stick Installed	3380 mm	11'1"	3380 mm	11'1"
With Boom Installed	3060 mm	10'0"	3060 mm	10'0"
2 Machine Length:				
With Boom/Stick/Bucket Installed	10 420 mm	34'2"	10 420 mm	34'2"
With Boom/Stick Installed	10 420 mm	34'2"	10 420 mm	34'2"
With Boom Installed	9230 mm	30'3"	9230 mm	30'3"
3 Upperframe Width without Walkways	2940 mm	9'8"	2940 mm	9'8"
4 Tail Swing Radius	3130 mm	10'3"	3130 mm	10'3"
5 Counterweight Clearance	1120 mm	3'8"	1120 mm	3'8"
6 Ground Clearance	490 mm	1'7"	490 mm	1'7"
7 Length to Center of Rollers	3990 mm	13'1"	3990 mm	13'1"
8 Track Length	4860 mm	15'11"	4860 mm	15'11"
9 Track Gauge	2590 mm	8'6"	2590 mm	8'6"
10 Undercarriage Width				
600 mm (24") Shoes	3190 mm	10'6"	3190 mm	10'6"
700 mm (28") Shoes	3290 mm	10'10"	3290 mm	10'10"
Bucket Type	HD		HD	
Bucket Capacity	1.76 m^3	2.30 yd^3	1.76 m^3	2.30 yd^3
Bucket Tip Radius	1660 mm	5'5"	1660 mm	5'5"

Working Ranges and Forces

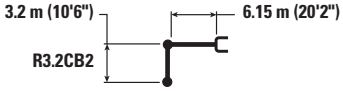
All dimensions are approximate and may vary depending on bucket selection.

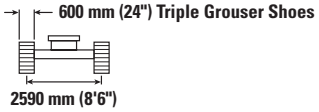


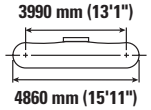
Boom Option	Reach Boom 6.15 m (20'2")			
Stick Options	Reach Stick			
	R3.2CB2 (10'6")		R2.65CB2 (8'8")	
1 Maximum Digging Depth	7240 mm	23'9"	6690 mm	21'11"
2 Maximum Reach at Ground Line	10 680 mm	35'0"	10 210 mm	33'6"
3 Maximum Cutting Height	10 030 mm	32'11"	9920 mm	32'7"
4 Maximum Loading Height	6950 mm	22'10"	6800 mm	22'4"
5 Minimum Loading Height	2300 mm	7'7"	2850 mm	9'4"
6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	7090 mm	23'3"	6520 mm	21'5"
7 Maximum Vertical Wall Digging Depth	6010 mm	19'9"	5700 mm	18'8"
Bucket Digging Force (ISO)	179 kN	40,241 lbf	179 kN	40,241 lbf
Stick Digging Force (ISO)	126 kN	28,326 lbf	145 kN	32,597 lbf
Bucket Digging Force (ISO) – Auto Dig Boost	189 kN	42,477 lbf	189 kN	42,477 lbf
Stick Digging Force (ISO) – Auto Dig Boost	133 kN	29,900 lbf	153 kN	34,408 lbf
Bucket Type	HD		HD	
Bucket Capacity	1.76 m^3	2.30 yd^3	1.76 m^3	2.30 yd^3
Bucket Tip Radius	1660 mm	5'5"	1660 mm	5'5"

330 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On

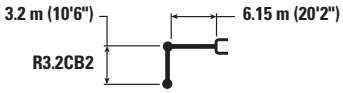


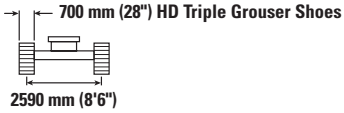


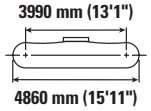


		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
																mm in
7500 mm 300 in	kg lb													*5600 *12,350	*5600 *12,350	7280 290
6000 mm 240 in	kg lb									*7900 *16,700	6250 13,450			*5350 *11,750	*5350 *11,750	8240 330
4500 mm 180 in	kg lb							*9250 *20,050	8600 18,500	*8400 *18,300	6150 13,200			*5300 *11,650	4750 10,500	8830 350
3000 mm 120 in	kg lb					*14 250 *30,650	12 500 27,000	*10 800 *23,400	8250 17,750	9150 19,650	5950 12,850	*6500	4550	*5450 *11,950	4450 9,750	9140 360
1500 mm 60 in	kg lb					*17 000 *36,700	11 850 25,500	*12 300 *26,550	7900 17,000	8950 19,200	5800 12,450	6800 *13,650	4450 9,600	*5800 *12,700	4350 9,500	9190 370
0 mm 0 in	kg lb					*18 300 *39,550	11 500 24,700	12 250 26,350	7650 16,450	8800 18,900	5650 12,150			*6350 *14,000	4400 9,700	8990 360
–1500 mm –60 in	kg lb	*6950 *15,550	*6950 *15,550	*10 950 *24,800	*10 950 *24,800	*18 250 *39,600	11 400 24,500	12 150 26,050	7550 16,250	8700 18,750	5600 12,000			7300 16,050	4750 10,400	8520 340
–3000 mm –120 in	kg lb	*12 500 *28,000	*12 500 *28,000	*17 650 *40,050	*17 650 *40,050	*17 150 *37,100	11 450 24,650	12 150 26,150	7550 16,250	8750 18,850	5600 12,100			8400 18,600	5400 11,950	7730 310
–4500 mm –180 in	kg lb			*19 900 *42,750	*19 900 *42,750	*14 600 *31,300	11 700 25,150	*10 800 *22,850	7750 16,700					*9500 *20,850	6950 15,550	6510 260

Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On







		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
																mm in
7500 mm 300 in	kg lb													*5600 *12,350	*5600 *12,350	7280 290
6000 mm 240 in	kg lb									*7900 *16,700	6350 13,650			*5350 *11,750	*5350 *11,750	8240 330
4500 mm 180 in	kg lb							*9250 *20,050	8750 18,800	*8400 *18,300	6250 13,400			*5300 *11,650	4850 10,700	8830 350
3000 mm 120 in	kg lb					*14 250 *30,650	12 700 27,400	*10 800 *23,400	8350 18,000	*9150 *19,900	6050 13,050	*6500	4600	*5450 *11,950	4500 9,950	9140 360
1500 mm 60 in	kg lb					*17 000 *36,700	12 000 25,900	*12 300 *26,550	8000 17,250	9100 19,550	5900 12,650	6950 *13,650	4550 9,750	*5800 *12,700	4400 9,700	9190 370
0 mm 0 in	kg lb					*18 300 *39,550	11 700 25,100	12 450 26,800	7750 16,750	8950 19,200	5750 12,350			*6350 *14,000	4500 9,850	8990 360
–1500 mm –60 in	kg lb	*6950 *15,550	*6950 *15,550	*10 950 *24,800	*10 950 *24,800	*18 250 *39,600	11 600 24,900	12 350 26,550	7650 16,500	8850 19,050	5650 12,200			*7350 *16,250	4800 10,600	8520 340
–3000 mm –120 in	kg lb	*12 500 *28,000	*12 500 *28,000	*17 650 *40,050	*17 650 *40,050	*17 150 *37,100	11 650 25,050	12 350 26,600	7700 16,550	8900 19,200	5700 12,350			8550 18,900	5500 12,200	7730 310
–4500 mm –180 in	kg lb			*19 900 *42,750	*19 900 *42,750	*14 600 *31,300	11 850 25,550	*10 800 *22,850	7850 16,950					*9500 *20,850	7050 15,850	6510 260

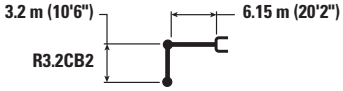
* ISO 10567:2007

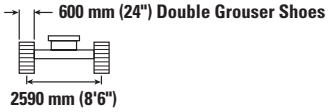
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

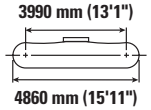
Lift capacity stays with ±5% for all available track shoes.

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

Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On

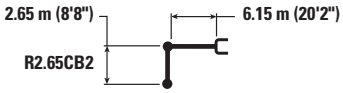


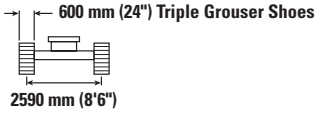


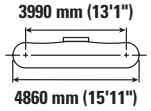


		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		9000 mm/360 in				
																mm in
7500 mm 300 in	kg lb													*5600 *12,350	*5600 *12,350	7280 290
6000 mm 240 in	kg lb									*7900 *16,700	6300 13,550			*5350 *11,750	*5350 *11,750	8240 330
4500 mm 180 in	kg lb							*9250 *20,050	8650 18,700	*8400 *18,300	6200 13,350			*5300 *11,650	4800 10,600	8830 350
3000 mm 120 in	kg lb					*14 250 *30,650	12 650 27,250	*10 800 *23,400	8300 17,900	*9150 19,850	6000 12,950	*6500	4600	*5450 *11,950	4500 9,850	9140 360
1500 mm 60 in	kg lb					*17 000 *36,700	11 950 25,700	*12 300 *26,550	7950 17,150	9000 19,400	5850 12,550	6900 *13,650	4500 9,700	*5800 *12,700	4400 9,600	9190 370
0 mm 0 in	kg lb					*18 300 *39,550	11 600 24,950	12 400 26,600	7700 16,600	8850 19,050	5700 12,250			*6350 *14,000	4450 9,800	8990 360
–1500 mm –60 in	kg lb	*6950 *15,550	*6950 *15,550	*10 950 *24,800	*10 950 *24,800	*18 250 *39,600	11 500 24,750	12 250 26,350	7600 16,400	8800 18,900	5650 12,150			7350 16,250	4750 10,500	8520 340
–3000 mm –120 in	kg lb	*12 500 *28,000	*12 500 *28,000	*17 650 *40,050	*17 650 *40,050	*17 150 *37,100	11 550 24,900	12 300 26,400	7650 16,450	8850 19,050	5650 12,250			8500 18,800	5450 12,100	7730 310
–4500 mm –180 in	kg lb			*19 900 *42,750	*19 900 *42,750	*14 600 *31,300	11 800 25,400	*10 800 *22,850	7800 16,850					*9500 *20,850	7000 15,700	6510 260

Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb					*19,100	19,050			*7300 *16,200	*7300 *16,200	6680 260
6000 mm 240 in	kg lb					*8900 *19,450	8800 18,900	*8350 *15,800	6200 13,250	*6900 *15,200	5900 13,150	7710 310
4500 mm 180 in	kg lb			*12 300 *26,400	*12 300 *26,400	*10 050 *21,750	8500 18,300	*8950 *19,600	6100 13,100	*6800 *14,950	5200 11,450	8340 330
3000 mm 120 in	kg lb			*15 550 *33,350	12 300 26,550	*11 500 *24,850	8150 17,600	9100 19,600	5950 12,800	*6950 *15,350	4800 10,600	8670 340
1500 mm 60 in	kg lb			*16 900 *38,500	11 750 25,250	12 500 26,850	7850 16,900	8950 19,200	5800 12,450	7150 15,750	4700 10,300	8720 350
0 mm 0 in	kg lb			*18 000 *40,100	11 500 24,750	12 250 26,400	7650 16,500	8800 18,950	5700 12,200	7350 16,200	4800 10,550	8510 340
–1500 mm –60 in	kg lb	*10 650 *24,350	*10 650 *24,350	*18 000 *39,050	11 500 24,700	12 200 26,250	7600 16,400	8800 18,900	5650 12,200	8000 17,700	5200 11,450	8010 320
–3000 mm –120 in	kg lb	*19 950 *45,500	*19 950 *45,500	*16 400 *35,550	11 600 25,000	12 300 26,400	7650 16,550			9450 21,000	6100 13,500	7170 280
–4500 mm –180 in	kg lb			*13 100 *27,950	11 900 25,650					*9550 *20,950	8300 18,600	5820 230

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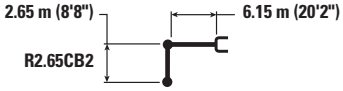
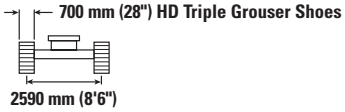
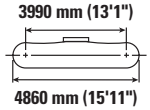
Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On

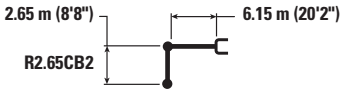


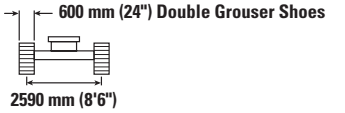


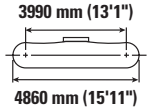


		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb					*19,100 *19,100				*7300 *16,200	*7300 *16,200	6680 260
6000 mm 240 in	kg lb					*8900 *19,450	8900 19,150	*8350 *15,800	6300 13,450	*6900 *15,200	6000 13,400	7710 310
4500 mm 180 in	kg lb			*12 300 *26,400	*12 300 *26,400	*10 050 *21,750	8650 18,600	*8950 *19,600	6200 13,350	*6800 *14,950	5250 11,650	8340 330
3000 mm 120 in	kg lb			*15 550 *33,350	12 500 26,950	*11 500 *24,850	8300 17,850	9250 19,900	6050 13,000	*6950 *15,350	4900 10,750	8670 340
1500 mm 60 in	kg lb			*16 900 *38,500	11 900 25,700	12 700 27,300	8000 17,200	9100 19,550	5900 12,650	7300 16,050	4750 10,500	8720 350
0 mm 0 in	kg lb			*18 000 *40,100	11 700 25,200	12 500 26,850	7800 16,800	8950 19,300	5750 12,450	7500 16,500	4900 10,750	8510 340
–1500 mm –60 in	kg lb	*10 650 *24,350	*10 650 *24,350	*18 000 *39,050	11 700 25,150	12 400 26,700	7750 16,650	8950 19,250	5750 12,400	8150 18,000	5300 11,650	8010 320
–3000 mm –120 in	kg lb	*19 950 *45,500	*19 950 *45,500	*16 400 *35,550	11 800 25,400	*12 450 *26,850	7800 16,800			9650 21,400	6200 13,700	7170 280
–4500 mm –180 in	kg lb			*13 100 *27,950	12 100 26,050					*9550 *20,950	8400 18,900	5820 230

Reach Boom Lift Capacities – Counterweight: 6700 kg (14,770 lb) – without Bucket, Heavy Lift: On







		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb					*19,100 *19,100				*7300 *16,200	*7300 *16,200	6680 260
6000 mm 240 in	kg lb					*8900 *19,450	8850 19,050	*8350 *15,800	6250 13,400	*6900 *15,200	6000 13,300	7710 310
4500 mm 180 in	kg lb			*12 300 *26,400	*12 300 *26,400	*10 050 *21,750	8600 18,500	*8950 *19,600	6150 13,250	*6800 *14,950	5250 11,550	8340 330
3000 mm 120 in	kg lb			*15 550 *33,350	12 400 26,800	*11 500 *24,850	8250 17,750	9200 19,750	6000 12,900	*6950 *15,350	4850 10,700	8670 340
1500 mm 60 in	kg lb			*16 900 *38,500	11 850 25,500	12 600 27,100	7950 17,100	9000 19,400	5850 12,600	7250 15,950	4750 10,400	8720 350
0 mm 0 in	kg lb			*18 000 *40,100	11 600 25,000	12 400 26,650	7750 16,700	8900 19,150	5750 12,350	7450 16,400	4850 10,650	8510 340
–1500 mm –60 in	kg lb	*10 650 *24,350	*10 650 *24,350	*18 000 *39,050	11 600 24,950	12 350 26,500	7700 16,550	8850 19,100	5700 12,300	8100 17,850	5250 11,550	8010 320
–3000 mm –120 in	kg lb	*19 950 *45,500	*19 950 *45,500	*16 400 *35,550	11 700 25,200	12 400 26,650	7750 16,700			9550 21,200	6150 13,600	7170 280
–4500 mm –180 in	kg lb			*13 100 *27,950	12 000 25,850					*9550 *20,950	8350 18,800	5820 230

* 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.

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Reach Boom	
		mm	in	m^3	yd^3	kg	lb	%	R3.2 (10'6")	R2.65 (8'8")
Pin-On (No Quick Coupler)										
General Duty	CB	600	24	0.52	0.68	659	1,454	100	●	●
	CB	750	30	0.71	0.93	726	1,601	100	●	●
	CB	1000	40	1.03	1.35	835	1,841	100	●	●
	CB	1350	54	1.54	2.02	1005	2,216	100	●	●
	CB	1500	60	1.76	2.30	1069	2,357	100	●	●
	CB	1600	63	1.86	2.43	1099	2,423	100	X	X
Heavy Duty	CB	1200	48	1.33	1.74	1096	2,417	100	●	●
	CB	1350	54	1.54	2.02	1196	2,637	100	●	●
	CB	1450	57	1.60	2.09	1274	2,809	100	●	●
	CB	1600	63	1.80	2.36	1348	2,973	100	X	X
	CB	1500	60	1.76	2.30	1391	3,067	100	◉	●
Maximum load with pin-on (payload + bucket)								kg	4605	5045
								lb	10,152	11,122
With Pin Grabber Quick Coupler										
General Duty	CB	600	24	0.52	0.68	659	1,454	100	●	●
	CB	750	30	0.71	0.93	726	1,601	100	●	●
	CB	1000	40	1.03	1.35	835	1,841	100	●	●
	CB	1350	54	1.54	2.02	1005	2,216	100	◉	●
	CB	1500	60	1.76	2.30	1069	2,357	100	◉	◉
	CB	1600	63	1.86	2.43	1099	2,423	100	⊖	◉
Heavy Duty	CB	1200	48	1.33	1.74	1096	2,417	100	●	●
	CB	1350	54	1.54	2.02	1196	2,637	100	◉	●
	CB	1450	57	1.60	2.09	1274	2,809	100	◉	●
	CB	1600	63	1.80	2.36	1348	2,973	100	⊖	◉
	CB	1500	60	1.76	2.30	1391	3,067	100	⊖	◉
Maximum load with coupler (payload + bucket)								kg	4079	4519
								lb	8,992	9,962

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^3 (3,500 lb/yd^3)

◉ 1800 kg/m^3 (3,000 lb/yd^3)

⊖ 1500 kg/m^3 (2,500 lb/yd^3)

X Not Recommended

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

† Allowed usage on machine less than 50%

PIN-ON ATTACHMENTS

Boom Type		Reach	Reach
Stick Length		**R3.2 (10'6")**	**R2.65 (8'8")**
Hydraulic Hammers	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S	✓	✓
	H130 S	✓	✓
	H140 GC	✓	✓
	H140 GC S	✓	✓
	H140 S	✓	✓
	H160 GC	✓	✓
	H160 GC S	✓	✓
Demolition and Sorting Grapples	G324	✓	✓
	G332	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mulchers	HM5515	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type		Reach	Reach
Stick Length		**R3.2 (10'6")**	**R2.65 (8'8")**
Hydraulic Hammers	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S	✓	✓
	H130 S	✓	✓
	H140 GC	✓	✓
	H140 GC S	✓	✓
	H140 S	✓	✓
	H160 GC	✓	✓
	H160 GC S	✓	✓
Demolition and Sorting Grapples	G324	✓†	✓
	G332	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mulchers	HM5515	✓	✓

(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

TRS23 (PIN-ON TOP/S70 BOTTOM) ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Boom Type		Reach
Stick Length		**R3.2 (10'6")**
Hydraulic Hammers	H120 S	✓
	H130 S	✓
Compactors (Vibratory Plate)	CVP110	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

TRS23 (PIN-ON TOP/S80 BOTTOM) ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Boom Type		Reach
Stick Length		**R3.2 (10'6")**
Hydraulic Hammers	H120 S	✓
	H130 GC S	✓
	H130 S	✓
Compactors (Vibratory Plate)	CVP110	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

Standard and Optional Equipment

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

	Standard	Optional
BOOM, STICKS AND LINKAGES		
6.15 m (20'2") Reach boom	✓	
3.2 m (10'6") Reach stick		✓
2.65 m (8'8") Reach stick		✓
Bucket Linkage, CB2 family with lifting eye, Cat Grade	✓	
CAB		
ROPS	✓	
OPG		✓
High-resolution 254 mm (10") 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	✓	
Tilt-up left-side console	✓	
Heated air-suspension seat	✓	
51 mm (2") seat belt	✓	
Bluetooth® integrated radio with USB/Auxilary ports	✓	
12V DC outlets	✓	
Document storage	✓	
Overhead storage and rear storage with nets	✓	
Beverage holder	✓	
Cup holder	✓	
Openable two-piece front window	✓	
Rear window emergency exit	✓	
Radial wiper with washer	✓	
Openable polycarbonate skylight hatch	✓	
LED dome light	✓	
Floor welcome light	✓	
Roof sunscreen	✓	
Roller front sunscreen	✓	
Roller rear sunscreen		✓
Washable floor mat	✓	
Beacon ready	✓	
Cat Stick Steer		✓
Auxiliary relay		✓

	Standard	Optional
CAT TECHNOLOGY		
Cat Equipment Management:		
– VisionLink®	✓[1]	
– VisionLink Productivity		✓[2]
– Remote Flash	✓	
– Remote Troubleshoot	✓	
– Work tool recognition and tracking (PL161)	✓	
– Operator Coaching		✓[3]
Cat Grade:		
– Cat Grade with 2D	✓	
– Cat Grade with 2D with Attachment Ready Option (ARO)		✓
– Laser catcher		✓
– Cat Grade with 3D (single or dual GNSS)		✓
– Compatible with 3D grade systems from Trimble, Topcon, and Leica	✓	
– Cat Grade 3D Ready		✓
– Cat Grade Connectivity		✓[2]
Cat Assist:		
– Grade Assist	✓	
– Boom Assist	✓	
– Bucket Assist	✓	
– Swing Assist	✓	
– Lift Assist	✓	
Cat Payload:		
– On-the-go weighing	✓	
– Semiautomatic calibration	✓	
– Payload/cycle information	✓	
– VisionLink Productivity back office reporting		✓[2]
Cat Advanced Payload:		
– Daily totals		✓
– Custom lists		✓
– Smart weight target		✓
– E-ticket Integration		✓[2]
Other:		
Cat Tiltrotator (TRS) integration		✓

[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.

[3]VisionLink subscription required for back office reporting. Consult your Cat dealer for details.

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
ELECTRICAL SYSTEM		
Maintenance-free 1,000 CCA batteries (×2)	✓	
Programmable time-delay LED working lights	✓	
Centralized electrical disconnect switch	✓	
LED chassis light, Left Hand (LH) and Right Hand (RH) boom lights, cab lights	✓	
Premium surround lighting package		✓
ENGINE		
Cat® C7.1 single turbo diesel engine	✓	
Three selectable modes: Power, Smart, Eco	✓	
Automatic engine speed control	✓	
Automatic engine idle-shutdown	✓	
4500 m (14,760 ft) altitude capability with engine power derate above 3000 m (9,840 ft)	✓	
50° C (122° F) high-ambient cooling capability with derate	✓	
–18° C (0° F) cold start capability	✓	
2 × 115 amp dual alternator	✓	
Sealed double element air filter with integrated pre-cleaner	✓	
Two-stage fuel filtration with water separator and indicator	✓	
Electric fuel priming pump	✓	
Electric cooling fans with auto-reverse function	✓	

	Standard	Optional
HYDRAULIC SYSTEM		
Electronic main control valve	✓	
Electric boom regeneration circuit	✓	
Stick regeneration circuit	✓	
Automatic hydraulic oil warm up	✓	
Automatic two-speed travel	✓	
Boom and stick drift reduction valve	✓	
Boom lowering check valve	✓	
Stick lowering check valve	✓	
Auto Dig Boost	✓	
Auto heavy lift	✓	
High performance hydraulic return filter	✓	
Final drive with bio hydraulic oil capable travel motor	✓	
Hydraulic efficiency monitoring		✓
Fine swing control	✓	
Hammer return filter circuit		✓
Advanced Tool Control (two pump, one/two way high-pressure flow)		✓
Medium-pressure circuit		✓
Common Quick Coupler Circuit for Cat Pin Grabber and CW Dedicated	✓	
Electronic Pattern Changer (requires activation)	✓	

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
SAFETY AND SECURITY		
Cat Command (remote control)		✓
2D E-Fence: – E-ceiling – E-floor – E-swing – E-wall – E-cab avoidance	✓	
Auto hammer stop	✓	
Rearview camera	✓	
Right-hand-sideview camera	✓	
Secure start with PIN code	✓	
Caterpillar One Key security system	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Service platform with anti-skid plate and recessed bolts	✓	
RH handrail and hand hold	✓	
Cab mirror for RH track edge	✓	
Signaling/warning horn	✓	
Swing alarm		✓
Ground-level secondary engine shutoff switch in cab	✓	
Lockable disconnect switch	✓	
Hydraulic lock out lever that neutralizes all controls	✓	
Travel alarm	✓	
Inspection lighting		✓
SERVICE AND MAINTENANCE		
Grouped location of engine oil and fuel filters	✓	
Ground-level second dipstick for engine oil	✓	
Side entry to service platform	✓	
Scheduled Oil Sampling (S·O·S^{SM}) ports	✓	
QuickEvac™ maintenance ready		✓
Radiator screen		✓
Integrated vehicle health management system	✓	

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
Full-length track guiding guards		✓
Segmented track guiding guards	✓	
Swivel guard	✓	
Bottom guards		✓
HD bottom guards		✓
HD travel motor guards	✓	
Grease lubricated track	✓	
Swing drive and motor, and swing bearing for higher swing torque	✓	
Base frame with HD rollers	✓	
Tie-down points on base frame	✓	
6700 kg (14,770 lb) counterweight	✓	
600 mm (24") triple grouser track shoes		✓
600 mm (24") double grouser track shoes		✓
700 mm (28") triple grouser HD track shoes		✓

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- RH electrical pedal (two-way) for tool control
- Radial lower wiper for two piece (70/30) windshield, with washer
- Rain protector plus cab light cover

SAFETY AND SECURITY

- 75 mm (3") retractable seat belt
- Cat Detect – People Detection
- Cat Command – Remote control kit
- Seat belt indicator
- Bluetooth® receiver
- Bluetooth key fob

GUARDS

- Side rubber bumper guard
- Operator Protective Guards (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Full protecting vandalism guard (not compatible with cab light cover, rain protector)

ELECTRICAL

- Jump start wiring

SERVICE AND MAINTENANCE

- Grease gun holder

330 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® C7.1 engine emits 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 (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.

**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) – 103 dB(A)

ISO 6396:2008 (inside cab) – 70 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
  - Utilizing Cat technologies can help increase operating efficiencies
  - Extended service intervals help decrease maintenance costs
  - Programmable high-efficiency cooling fans run only when needed
  - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

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

AEXQ4022-00 (09-2024)
Build Number: 07H
(Aus-NZ)