



352

Long Reach Hydraulic Excavator

Technical Specifications

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

Table of Contents

Specifications	2
Engine	2
Swing Mechanism	2
Weights	2
Track	2
Drive	2
Hydraulic System	2
Service Refill Capacities	2
Standards	3
Sound Performance	3
Air Conditioning System	3
Operating Weights and Ground Pressures	4
Major Component Weights	4
Dimensions	5
Working Ranges and Forces	7
LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb)	8
Bucket Specifications and Compatibility	
Europe	14
North America	15
Attachments Offering Guide:	
North America	16
Europe	17
Standard and Optional Equipment	18
Dealer Installed Kits and Attachments	20
Cab Options	21
352 LRE Environmental Declaration	22

352 Long Reach Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C13	
Net Power		
ISO 9249	316.2 kW	424 hp
ISO 9249 (DIN)	429.9 hp (metric)	
Engine Power		
ISO 14396	317 kW	425 hp
ISO 14396 (DIN)	431 hp (metric)	
Bore	130 mm	5 in
Stroke	157 mm	6 in
Displacement	12.5 L	763 in ³

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 2600 m (8,530 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 1,800 rpm
- 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

Maximum Swing Torque	187 kN·m	138,000 lbf·ft
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Weights

Operating Weight	58 400 kg	128,800 lb
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- Variable Gauge High Wide undercarriage, LRE boom, LRE 8.5B (279") stick, HD 1.19 m³ (1.56 yd³) bucket, 900 mm (35") triple grouser shoes, 12.0 mt (26,455 lb) counterweight.

Track

Track Shoes Width	900 mm	35 in
Track Shoes Width	750 mm	30 in
Track Shoes Width	600 mm	24 in
Number of Shoes (each side)	52	
Number of Track Rollers (each side)	9	
Number of Carrier Rollers (each side)	3	

Drive

Gradeability	35°/70%	
Maximum Travel Speed	4.5 km/h	2.8 mph
Maximum Drawbar Pull	329 kN	73,962 lbf

Hydraulic System

Main System – Maximum Flow – Implement	779 L/min (389 × 2 pumps)	206 gal/min (103 × 2 pumps)
Maximum Pressure – Equipment – Implement	35 000 kPa	5,076 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,511 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	26 000 kPa	3,771 psi
Boom Cylinder – Bore	170 mm	7 in
Boom Cylinder – Stroke	1524 mm	60 in
Stick Cylinder – Bore	190 mm	7 in
Stick Cylinder – Stroke	1758 mm	69 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	715 L	188.9 gal
Cooling System	52 L	13.7 gal
Engine Oil (with filter)	40 L	10.6 gal
Swing Drive	10.5 L	2.8 gal
Final Drive (each)	9.5 L	2.5 gal
Hydraulic System (including tank)	550 L	145.3 gal
Hydraulic Tank (including suction pipe)	217 L	57.3 gal
Diesel Exhaust Fluid (DEF) Tank	46 L	12.2 gal

352 Long Reach Hydraulic Excavator Specifications

Standards

Brakes	ISO 10265:2008
Cab/Operator Protective Guards (OPG) (optional)	ISO 10262:1998

Sound Performance

ISO 6395:2008 (external)	108 dB(A)
ISO 6396:2008 (inside cab)	72 dB(A)

- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in a noisy environment.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.00 kg of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes.

352 Long Reach Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes		600 mm (24") Double Grouser Shoes		750 mm (30") Triple Grouser Shoes		900 mm (35") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Frame with Single Flange Track Rollers and Carrier Rollers								
12.0 mt (26,455 lb) Counterweight + Variable Gauge High Wide Undercarriage Base Machine								
LRE Boom + LRE 8.5 m (27'11") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	56 900 (125,500)	98.9 (14.3)	57 100 (125,800)	99.2 (14.4)	57 700 (127,200)	80.4 (11.7)	58 400 (128,800)	67.8 (9.8)

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

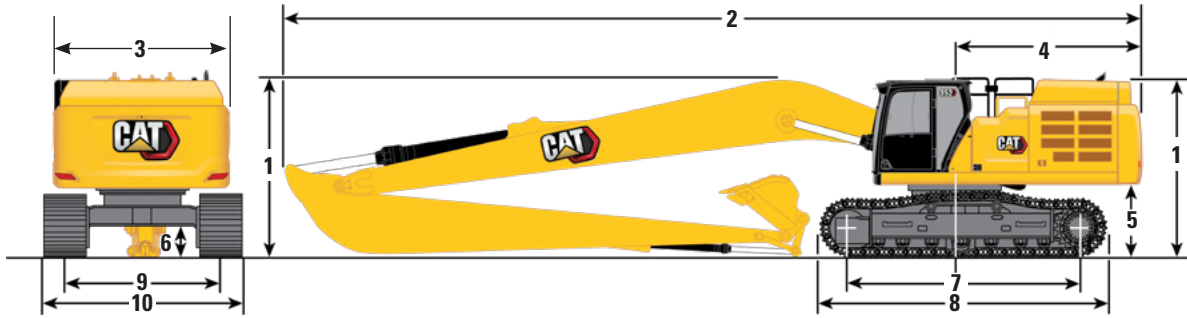
Major Component Weights

	kg	lb
Base Machine Weight with 12.0 mt (26,455 lb) counterweight, LRE swing frame, boom cylinders, base frame with single flange track rollers and carrier rollers	40 030	38,360
Track Shoes:		
600 mm (24") Width, 15.5 mm (0.6") Thick, Triple Grouser Track Shoes	5290	11,660
600 mm (24") Width, 15.5 mm (0.6") Thick, Double Grouser Track Shoes	5410	11,920
750 mm (30") Width, 15.5 mm (0.6") Thick, Triple Grouser Track Shoes	6040	13,310
900 mm (35") Width, 15.5 mm (0.6") Thick, Triple Grouser Track Shoes	6770	14,930
Two Boom Cylinders	870	1,920
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	630	1,390
Counterweight:		
12.0 mt (26,455 lb) Counterweight	12 000	26,460
Swing Frame:		
LRE Swing Frame	4340	9,570
Variable Gauge High Wide Undercarriage:		
Base Frame with SF Track Rollers and Carrier Rollers	14 090	31,060
Booms (including lines, pins, stick cylinder):		
LRE Boom 11.5 m (37'9")	6510	14,360
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
LRE Stick 8.5 m (27'11")	3600	7,930
Buckets (without linkage):		
1.19 m ³ (1.56 yd ³) HD for B1 Linkage	890	1,960
Quick Couplers:		
CW Dedicated	250	550
Pin Grabber	380	840

352 Long Reach Hydraulic Excavator Specifications

Dimensions

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



Boom Option

**LRE Boom
11.5 m (37'9")**

Stick Option

**LRE Stick
LR8.5B1 (27'11")**

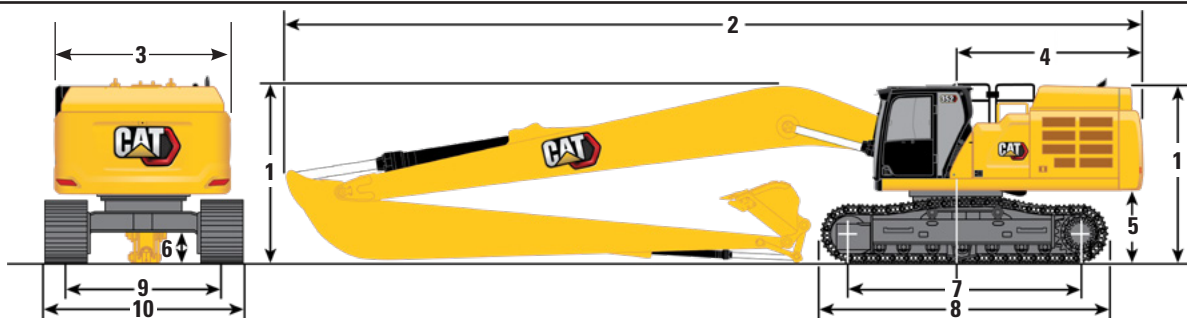
1 Machine Height:		
Cab Height	3390 mm	11'1"
OPG Height	3540 mm	11'7"
Handrail Height	3540 mm	11'7"
With Boom/Stick/Bucket Installed	3740 mm	12'3"
With Boom/Stick Installed	3740 mm	12'3"
With Boom Installed	3410 mm	11'2"
With Boom/Stick/Bucket Installed (with Auxiliary Lines)	3780 mm	12'4"
With Boom/Stick Installed (with Auxiliary Lines)	3780 mm	12'4"
With Boom Installed (with Auxiliary Lines)	3460 mm	11'4"
2 Machine Length:		
With Boom/Stick/Bucket Installed	16 450 mm	53'11"
With Boom/Stick Installed	16 450 mm	53'11"
With Boom Installed	15 310 mm	50'2"
With Boom/Stick/Bucket Installed (with Auxiliary Lines)	16 450 mm	53'11"
With Boom/Stick Installed (with Auxiliary Lines)	16 450 mm	53'11"
With Boom Installed (with Auxiliary Lines)	15 310 mm	50'2"
3 Upperframe Width (without Handles)	3020 mm	9'10"
4 Tail Swing Radius	3760 mm	12'4"
5 Counterweight Clearance without Shoe Lug	1445 mm	4'8"
6 Ground Clearance without Shoe Lug	710 mm	2'3"
7 Length to Center of Rollers	4340 mm	14'2"
Bucket Type	HD	
Bucket Capacity	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1573 mm	5'1"

(continued on next page)

352 Long Reach Hydraulic Excavator Specifications

Dimensions *(continued)*

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



Boom Option

LRE Boom
11.5 m (37'9")

Stick Option

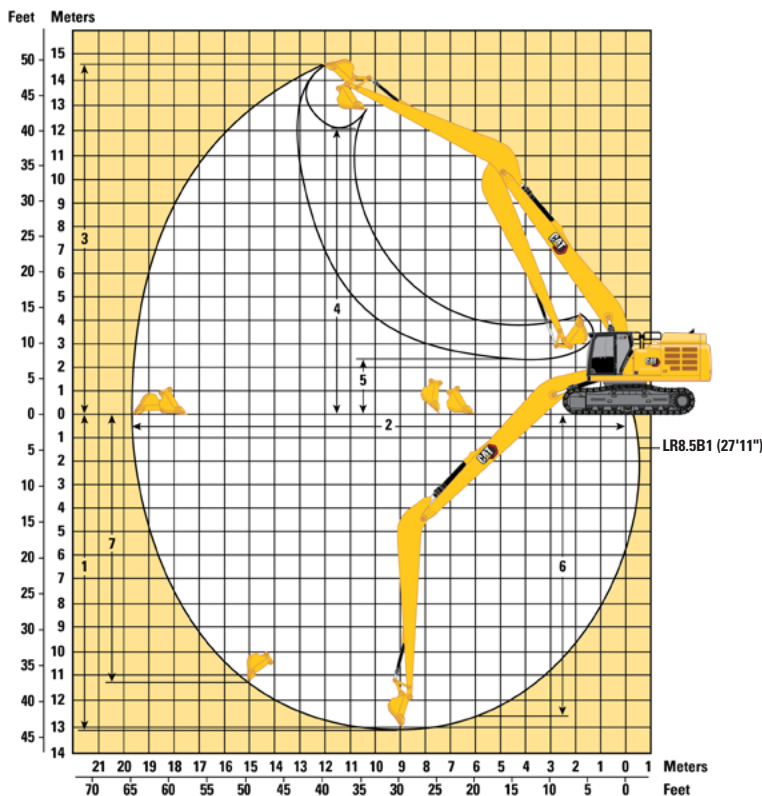
LRE Stick
LR8.5B1 (27'11")

8 Track Length	5350 mm	17'6"
9 Track Gauge:		
Retracted	3220 mm	10'6"
Extended	3720 mm	12'2"
10 Undercarriage Width (with steps): Retracted		
600 mm (24") Shoes	4010 mm	13'1"
750 mm (30") Shoes	4010 mm	13'1"
900 mm (35") Shoes	4120 mm	13'6"
Undercarriage Width (with steps): Extended		
600 mm (24") Shoes	4510 mm	14'9"
750 mm (30") Shoes	4510 mm	14'9"
900 mm (35") Shoes	4620 mm	15'1"
Bucket Type	HD	
Bucket Capacity	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1573 mm	5'1"

352 Long Reach Hydraulic Excavator Specifications

Working Ranges and Forces

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



Boom Option

**LRE Boom
11.5 m (37'9")**

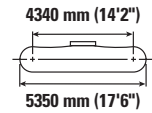
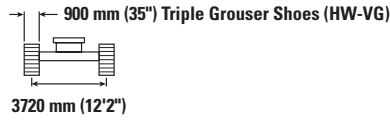
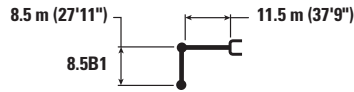
Stick Option

**LRE Stick
LR8.5B1 (27'11")**

1 Maximum Digging Depth	13 040 mm	42'9"
2 Maximum Reach at Ground Line	19 640 mm	64'5"
3 Maximum Cutting Height	14 700 mm	48'2"
4 Maximum Loading Height	12 030 mm	39'5"
5 Minimum Loading Height	2250 mm	7'4"
6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	12 970 mm	42'6"
7 Maximum Vertical Wall Digging Depth	11 280 mm	37'0"
Bucket Digging Force (ISO)	141 kN	31,700 lbf
Stick Digging Force (ISO)	104 kN	23,380 lbf
Bucket Type	HD	
Bucket Capacity	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1573 mm	5'1"

352 Long Reach Hydraulic Excavator Specifications

LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		m ft/in		
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb											*2850 *6,250	*2850 *6,250	15.46 50'10"
10.5 m 35.0 ft	kg lb											*2850 *6,200	*2850 *6,200	16.30 53'4"
9.0 m 30.0 ft	kg lb											*2850 *6,250	*2850 *6,250	16.97 55'10"
7.5 m 25.0 ft	kg lb											*2900 *6,400	*2900 *6,400	17.49 57'6"
6.0 m 20.0 ft	kg lb											*3000 *6,600	*3000 *6,600	17.86 59'2"
4.5 m 15.0 ft	kg lb											*3150 *6,850	*3150 *6,850	18.10 60'0"
3.0 m 10.0 ft	kg lb			*13 150 *31,600	*13 150 *31,600	*15 650 *33,700	*15 650 *33,700	*12 150 *26,150	*12 150 *26,150	*9950 *21,500	*9950 *21,500	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb			*7650 *17,650	*7650 *17,650	*17 050 *36,850	*17 050 *36,850	*13 050 *28,200	*13 050 *28,200	*10 600 *22,900	*10 600 *22,900	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*4050 *9,100	*4050 *9,100	*7100 *16,050	*7100 *16,050	*13 250 *30,400	*13 250 *30,400	*13 700 *29,650	*13 400 *28,850	*11 100 *23,950	*10 450 *22,550	*3800 *8,300	*3600 *7,950	18.06 59'2"
-1.5 m -5.0 ft	kg lb	*5400 *12,050	*5400 *12,050	*7700 *17,300	*7700 *17,300	*12 250 *27,850	*12 250 *27,850	*14 000 *30,350	12 650 27,250	*11 400 *24,600	9900 21,300	*4150 *9,100	3600 7,950	17.79 58'4"
-3.0 m -10.0 ft	kg lb	*6750 *15,050	*6750 *15,050	*8750 *19,650	*8750 *19,650	*12 600 *28,500	*12 600 *28,500	*14 000 *30,300	12 200 26,300	11 250 24,200	9500 20,450	4400 9,650	3700 8,100	17.39 57'6"
-4.5 m -15.0 ft	kg lb	*8100 *18,100	*8100 *18,100	*10 050 *22,550	*10 050 *22,550	*13 550 *30,700	*13 550 *30,700	*13 700 *29,600	12 000 25,800	11 000 23,700	9250 19,950	4550 10,050	3850 8,450	16.84 55'10"
-6.0 m -20.0 ft	kg lb	*9550 *21,350	*9550 *21,350	*11 550 *25,900	*11 550 *25,900	*15 000 *33,900	*15 000 *33,900	*13 050 *28,250	11 950 25,700	*10 900 23,500	9200 19,750	4850 10,700	4050 9,000	16.13 53'4"
-7.5 m -25.0 ft	kg lb			*13 200 *29,650	*13 200 *29,650	*14 650 *31,650	*14 650 *31,650	*12 150 *26,200	12 050 25,950	*10 200 *22,000	9200 19,850	5250 11,650	4450 9,850	15.25 50'0"
-9.0 m -30.0 ft	kg lb			*15 050 *33,400	*15 050 *33,400	*12 900 *27,650	*12 900 *27,650	*10 850 *23,300	*10 850 *23,300	*9250 *19,800	*9250 *19,800	*5250 *11,550	5000 11,150	14.14 46'8"
-10.5 m -35.0 ft	kg lb							*9150 *19,400	*9150 *19,400	*7850 *16,650	*7850 *16,650	*5100 *11,100	*5100 *11,100	12.77 41'8"



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.

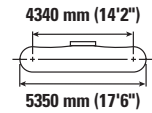
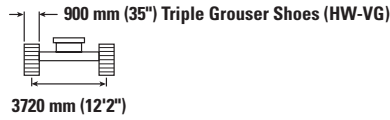
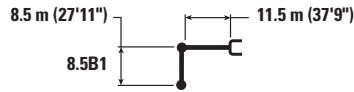
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

352 Long Reach Hydraulic Excavator Specifications

LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On (continued)



		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft		15.0 m/50.0 ft		16.5 m/55.0 ft		m ft/in		
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb							*3350 *6,500	*3350 *6,500			*2850 *6,250	*2850 *6,250	15.46 50'10"
10.5 m 35.0 ft	kg lb							*4100 *8,450	*4100 *8,450			*2850 *6,200	*2850 *6,200	16.30 53'4"
9.0 m 30.0 ft	kg lb							*4750 *9,950	*4750 *9,950	*3450 *6,700	*3450 *6,700	*2850 *6,250	*2850 *6,250	16.97 55'10"
7.5 m 25.0 ft	kg lb					*5900 *12,800	*5900 *12,800	*5350 *11,300	*5350 *11,300	*4150 *8,350	*4150 *8,350	*2900 *6,400	*2900 *6,400	17.49 57'6"
6.0 m 20.0 ft	kg lb			*6700 *14,550	*6700 *14,550	*6150 *13,300	*6150 *13,300	*5650 *12,250	*5650 *12,250	*4750 *9,750	*4750 *9,750	*3000 *6,600	*3000 *6,600	17.86 59'2"
4.5 m 15.0 ft	kg lb	*8000 *17,250	*8000 *17,250	*7050 *15,300	*7050 *15,300	*6400 *13,800	*6400 *13,800	*5800 *12,600	5650 12,150	*5350 *11,050	4750 10,100	*3150 *6,850	*3150 *6,850	18.10 60'0"
3.0 m 10.0 ft	kg lb	*8500 *18,350	*8500 *18,350	*7400 *16,050	*7400 *16,050	*6600 *14,350	6500 13,900	*6000 *12,950	5400 11,600	5300 11,400	4550 9,750	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb	*8950 *19,300	*8950 *19,300	*7750 *16,750	7400 15,900	*6850 *14,800	6150 13,200	6050 12,950	5200 11,100	5150 11,000	4400 9,400	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*9300 *20,100	8450 18,200	*8000 *17,300	7000 15,000	6850 14,700	5850 12,550	5800 12,450	4950 10,650	5000 10,700	4250 9,050	*3800 *8,300	3600 7,950	18.06 59'2"
-1.5 m -5.0 ft	kg lb	9400 20,250	8000 17,250	7800 16,750	6650 14,300	6600 14,150	5600 12,050	5600 12,050	4750 10,250	4850 10,400	4100 8,750	*4150 *9,100	3600 7,950	17.79 58'4"
-3.0 m -10.0 ft	kg lb	9100 19,550	7700 16,550	7550 16,200	6400 13,750	6400 13,700	5400 11,600	5450 11,750	4650 9,900	4750 10,200	4000 8,550	4400 9,650	3700 8,100	17.39 57'6"
-4.5 m -15.0 ft	kg lb	8850 19,100	7500 16,100	7350 15,850	6250 13,400	6250 13,450	5250 11,350	5400 11,550	4550 9,750	4700 10,100	3950 8,450	4550 10,050	3850 8,450	16.84 55'10"
-6.0 m -20.0 ft	kg lb	8750 18,900	7400 15,900	7300 15,650	6150 13,200	6200 13,300	5200 11,200	5350 11,500	4500 9,650			4850 10,700	4050 9,000	16.13 53'4"
-7.5 m -25.0 ft	kg lb	*8700 *18,700	7400 15,950	7300 15,700	6150 13,200	6200 13,350	5200 11,250	5400 11,250	4550			5250 11,650	4450 9,850	15.25 50'0"
-9.0 m -30.0 ft	kg lb	*7900 *16,850	7500 16,200	*6750 *14,350	6250 13,450	*5700 *12,000	5300 11,500					*5250 *11,550	5000 11,150	14.14 46'8"
-10.5 m -35.0 ft	kg lb	*6700 *14,150	*6700 *14,150	*5650 *11,750	*5650 *11,750							*5100 *11,100	*5100 *11,100	12.77 41'8"



ISO 10567:2007



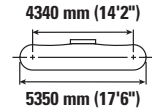
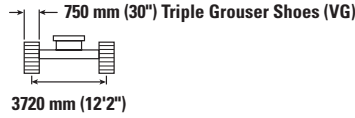
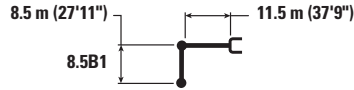
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Lift capacity stays with ±5% for all available track shoes.

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LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft		m ft/in		
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb											*2850	*2850	15.46 50'10"
10.5 m 35.0 ft	kg lb											*2850	*2850	16.30 53'4"
9.0 m 30.0 ft	kg lb											*2850	*2850	16.97 55'10"
7.5 m 25.0 ft	kg lb											*2900	*2900	17.49 57'6"
6.0 m 20.0 ft	kg lb											*3000	*3000	17.86 59'2"
4.5 m 15.0 ft	kg lb											*3150	*3150	18.10 60'0"
3.0 m 10.0 ft	kg lb			*13 150 *31,600	*13 150 *31,600	*15 650 *33,700	*15 650 *33,700	*12 150 *26,150	*12 150 *26,150	*9950 *21,500	*9950 *21,500	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb			*7650 *17,650	*7650 *17,650	*17 050 *36,850	*17 050 *36,850	*13 050 *28,200	*13 050 *28,200	*10 600 *22,900	*10 600 *22,900	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*4050 *9,100	*4050 *9,100	*7100 *16,050	*7100 *16,050	*13 250 *30,400	*13 250 *30,400	*13 700 *29,650	*13 200 28,400	*11 100 *23,950	*10 300 22,200	*3800 *8,300	*3550 7,800	18.06 59'2"
-1.5 m -5.0 ft	kg lb	*5400 *12,050	*5400 *12,050	*7700 *17,300	*7700 *17,300	*12 250 *27,850	*12 250 *27,850	*14 000 *30,350	12 450 26,800	*11 400 *24,600	9750 20,950	*4150 *9,100	3550 7,800	17.79 58'4"
-3.0 m -10.0 ft	kg lb	*6750 *15,050	*6750 *15,050	*8750 *19,650	*8750 *19,650	*12 600 *28,500	*12 600 *28,500	*14 000 *30,300	12 000 25,850	11 050 23,800	9350 20,100	4300 9,500	3600 7,950	17.39 57'6"
-4.5 m -15.0 ft	kg lb	*8100 *18,100	*8100 *18,100	*10 050 *22,550	*10 050 *22,550	*13 550 *30,700	*13 550 *30,700	*13 700 *29,600	11 800 25,400	10 850 23,300	9100 19,600	4500 9,850	3750 8,250	16.84 55'10"
-6.0 m -20.0 ft	kg lb	*9550 *21,350	*9550 *21,350	*11 550 *25,900	*11 550 *25,900	*15 000 *33,900	*15 000 *33,900	*13 050 *28,250	11 750 25,300	10 750 23,100	9000 19,400	4750 10,500	4000 8,800	16.13 53'4"
-7.5 m -25.0 ft	kg lb			*13 200 *29,650	*13 200 *29,650	*14 650 *31,650	*14 650 *31,650	*12 150 *26,200	11 850 25,500	*10 200 *22,000	9050 19,500	5150 11,450	4350 9,650	15.25 50'0"
-9.0 m -30.0 ft	kg lb			*15 050 *33,400	*15 050 *33,400	*12 900 *27,650	*12 900 *27,650	*10 850 *23,300	*10 850 *23,300	*9250 *19,800	9200 *19,800	*5250 *11,550	4900 10,950	14.14 46'8"
-10.5 m -35.0 ft	kg lb							*9150 *19,400	*9150 *19,400	*7850 *16,650	*7850 *16,650	*5100 *11,100	*5100 *11,100	12.77 41'8"



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.

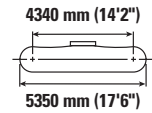
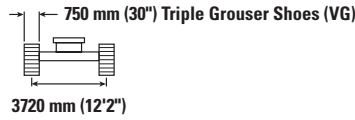
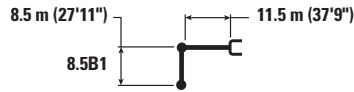
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

352 Long Reach Hydraulic Excavator Specifications

LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On (continued)



		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft		15.0 m/50.0 ft		16.5 m/55.0 ft		m ft/in		
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb							*3350 *6,500	*3350 *6,500			*2850 *6,250	*2850 *6,250	15.46 50'10"
10.5 m 35.0 ft	kg lb							*4100 *8,450	*4100 *8,450			*2850 *6,200	*2850 *6,200	16.30 53'4"
9.0 m 30.0 ft	kg lb							*4750 *9,950	*4750 *9,950	*3450 *6,700	*3450 *6,700	*2850 *6,250	*2850 *6,250	16.97 55'10"
7.5 m 25.0 ft	kg lb					*5900 *12,800	*5900 *12,800	*5350 *11,300	*5350 *11,300	*4150 *8,350	*4150 *8,350	*2900 *6,400	*2900 *6,400	17.49 57'6"
6.0 m 20.0 ft	kg lb			*6700 *14,550	*6700 *14,550	*6150 *13,300	*6150 *13,300	*5650 *12,250	*5650 *12,250	*4750 *9,750	*4750 *9,750	*3000 *6,600	*3000 *6,600	17.86 59'2"
4.5 m 15.0 ft	kg lb	*8000 *17,250	*8000 *17,250	*7050 *15,300	*7050 *15,300	*6400 *13,800	*6400 *13,800	*5800 *12,600	5600 11,950	*5350 *11,050	4650 9,950	*3150 *6,850	*3150 *6,850	18.10 60'0"
3.0 m 10.0 ft	kg lb	*8500 *18,350	*8500 *18,350	*7400 *16,050	*7400 *16,050	*6600 *14,350	6400 13,700	*6000 *12,950	5350 11,450	5250 11,200	4500 9,600	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb	*8950 *19,300	8850 19,100	*7750 *16,750	7300 15,650	*6850 *14,800	6050 13,000	5950 12,750	5100 10,900	5050 10,850	4300 9,200	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*9300 *20,100	8350 17,900	*8000 17,250	6850 14,800	6750 14,450	5750 12,350	5700 12,250	4850 10,450	4900 10,500	4150 8,900	*3800 *8,300	3550 7,800	18.06 59'2"
-1.5 m -5.0 ft	kg lb	9250 19,950	7900 16,950	7700 16,500	6550 14,050	6450 13,900	5500 11,800	5550 11,850	4700 10,050	4750 10,200	4000 8,600	*4150 *9,100	3550 7,800	17.79 58'4"
-3.0 m -10.0 ft	kg lb	8950 19,200	7550 16,300	7400 15,950	6300 13,500	6250 13,500	5300 11,400	5400 11,550	4550 9,750	4650 10,000	3900 8,400	4300 9,500	3600 7,950	17.39 57'6"
-4.5 m -15.0 ft	kg lb	8700 18,750	7350 15,850	7250 15,600	6100 13,150	6150 13,200	5200 11,100	5300 11,350	4450 9,550	4600 9,900	3850 8,300	4500 9,850	3750 8,250	16.84 55'10"
-6.0 m -20.0 ft	kg lb	8600 18,550	7250 15,650	7150 15,400	6050 12,950	6050 13,050	5100 11,000	5250 11,300	4400 9,500			4750 10,500	4000 8,800	16.13 53'4"
-7.5 m -25.0 ft	kg lb	8650 18,600	7250 15,650	7150 15,400	6050 13,000	6100 13,100	5100 11,050	5300 11,050	4450			5150 11,450	4350 9,650	15.25 50'0"
-9.0 m -30.0 ft	kg lb	*7900 *16,850	7350 15,900	*6750 *14,350	6100 13,200	*5700 *12,000	5200 11,300					*5250 *11,550	4900 10,950	14.14 46'8"
-10.5 m -35.0 ft	kg lb	*6700 *14,150	*6700 *14,150	*5650 *11,750	*5650 *11,750							*5100 *11,100	*5100 *11,100	12.77 41'8"



ISO 10567:2007



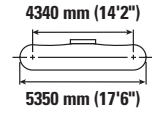
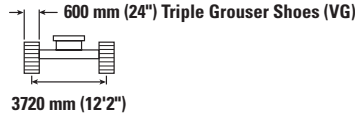
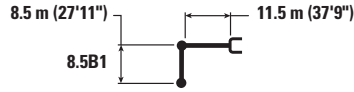
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






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

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

352 Long Reach Hydraulic Excavator Specifications

LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On



		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft		9.0 m/30.0 ft				m ft/in
														
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb											*2850	*2850	15.46 50'10"
10.5 m 35.0 ft	kg lb											*2850	*2850	16.30 53'4"
9.0 m 30.0 ft	kg lb											*2850	*2850	16.97 55'10"
7.5 m 25.0 ft	kg lb											*2900	*2900	17.49 57'6"
6.0 m 20.0 ft	kg lb											*3000	*3000	17.86 59'2"
4.5 m 15.0 ft	kg lb											*3150	*3150	18.10 60'0"
3.0 m 10.0 ft	kg lb			*13 150 *31,600	*13 150 *31,600	*15 650 *33,700	*15 650 *33,700	*12 150 *26,150	*12 150 *26,150	*9950 *21,500	*9950 *21,500	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb			*7650 *17,650	*7650 *17,650	*17 050 *36,850	*17 050 *36,850	*13 050 *28,200	*13 050 *28,200	*10 600 *22,900	*10 600 *22,900	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*4050 *9,100	*4050 *9,100	*7100 *16,050	*7100 *16,050	*13 250 *30,400	*13 250 *30,400	*13 700 *29,650	13 000 28,000	*11 100 *23,950	10 150 21,850	*3800 *8,300	3500 7,650	18.06 59'2"
-1.5 m -5.0 ft	kg lb	*5400 *12,050	*5400 *12,050	*7700 *17,300	*7700 *17,300	*12 250 *27,850	*12 250 *27,850	*14 000 *30,350	12 250 26,400	11 300 24,300	9550 20,600	*4150 *9,100	3500 7,650	17.79 58'4"
-3.0 m -10.0 ft	kg lb	*6750 *15,050	*6750 *15,050	*8750 *19,650	*8750 *19,650	*12 600 *28,500	*12 600 *28,500	*14 000 *30,300	11 800 25,400	10 900 23,400	9200 19,750	4250 9,300	3550 7,800	17.39 57'6"
-4.5 m -15.0 ft	kg lb	*8100 *18,100	*8100 *18,100	*10 050 *22,550	*10 050 *22,550	*13 550 *30,700	*13 550 *30,700	*13 700 *29,600	11 600 24,950	10 650 22,900	8950 19,250	4400 9,700	3700 8,100	16.84 55'10"
-6.0 m -20.0 ft	kg lb	*9550 *21,350	*9550 *21,350	*11 550 *25,900	*11 550 *25,900	*15 000 *33,900	*15 000 *33,900	*13 050 *28,250	11 550 24,850	10 550 22,700	8850 19,100	4650 10,300	3900 8,650	16.13 53'4"
-7.5 m -25.0 ft	kg lb			*13 200 *29,650	*13 200 *29,650	*14 650 *31,650	*14 650 *31,650	*12 150 *26,200	11 650 25,050	*10 200 *22,000	8900 19,150	5100 11,250	4250 9,450	15.25 50'0"
-9.0 m -30.0 ft	kg lb			*15 050 *33,400	*15 050 *33,400	*12 900 *27,650	*12 900 *27,650	*10 850 *23,300	*10 850 *23,300	*9250 *19,800	9050 19,500	*5250 *11,550	4850 10,750	14.14 46'8"
-10.5 m -35.0 ft	kg lb							*9150 *19,400	*9150 *19,400	*7850 *16,650	*7850 *16,650	*5100 *11,100	*5100 *11,100	12.77 41'8"



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.

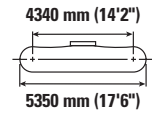
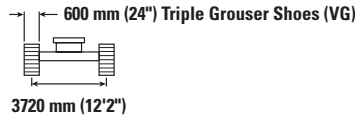
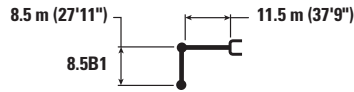
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

352 Long Reach Hydraulic Excavator Specifications

LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On (continued)



		10.5 m/35.0 ft		12.0 m/40.0 ft		13.5 m/45.0 ft		15.0 m/50.0 ft		16.5 m/55.0 ft		m ft/in		
13.5 m 45.0 ft	kg lb											*2900	*2900	14.41 47'6"
12.0 m 40.0 ft	kg lb							*3350 *6,500	*3350 *6,500			*2850 *6,250	*2850 *6,250	15.46 50'10"
10.5 m 35.0 ft	kg lb							*4100 *8,450	*4100 *8,450			*2850 *6,200	*2850 *6,200	16.30 53'4"
9.0 m 30.0 ft	kg lb							*4750 *9,950	*4750 *9,950	*3450 *6,700	*3450 *6,700	*2850 *6,250	*2850 *6,250	16.97 55'10"
7.5 m 25.0 ft	kg lb					*5900 *12,800	*5900 *12,800	*5350 *11,300	*5350 *11,300	*4150 *8,350	*4150 *8,350	*2900 *6,400	*2900 *6,400	17.49 57'6"
6.0 m 20.0 ft	kg lb			*6700 *14,550	*6700 *14,550	*6150 *13,300	*6150 *13,300	*5650 *12,250	*5650 *12,250	*4750 *9,750	*4750 *9,750	*3000 *6,600	*3000 *6,600	17.86 59'2"
4.5 m 15.0 ft	kg lb	*8000 *17,250	*8000 *17,250	*7050 *15,300	*7050 *15,300	*6400 *13,800	*6400 *13,800	*5800 *12,600	5500 11,750	5350 *11,050	4600 9,800	*3150 *6,850	*3150 *6,850	18.10 60'0"
3.0 m 10.0 ft	kg lb	*8500 *18,350	*8500 *18,350	*7400 *16,050	*7400 *16,050	*6600 *14,350	6300 13,500	*6000 *12,950	5250 11,250	5150 11,000	4400 9,400	*3300 *7,200	*3300 *7,200	18.21 60'0"
1.5 m 5.0 ft	kg lb	*8950 *19,300	8750 18,850	*7750 *16,750	7150 15,400	*6850 *14,800	5950 12,800	5850 12,550	5000 10,750	5000 10,650	4250 9,050	*3500 *7,700	*3500 *7,700	18.19 60'0"
0 m 0 ft	kg lb	*9300 *20,100	8200 17,650	7900 16,950	6750 14,550	6600 14,200	5650 12,150	5600 12,050	4800 10,250	4800 10,300	4100 8,700	*3800 *8,300	3500 7,650	18.06 59'2"
-1.5 m -5.0 ft	kg lb	9100 19,600	7750 16,700	7550 16,250	6450 13,800	6350 13,650	5400 11,600	5450 11,650	4600 9,850	4700 10,000	3950 8,450	*4150 *9,100	3500 7,650	17.79 58'4"
-3.0 m -10.0 ft	kg lb	8800 18,900	7450 16,000	7300 15,700	6200 13,250	6150 13,250	5200 11,200	5300 11,350	4450 9,550	4600 9,800	3850 8,250	4250 9,300	3550 7,800	17.39 57'6"
-4.5 m -15.0 ft	kg lb	8600 18,450	7250 15,550	7100 15,300	6000 12,900	6050 12,950	5100 10,900	5200 11,150	4350 9,350	4500 9,700	3800 8,150	4400 9,700	3700 8,100	16.84 55'10"
-6.0 m -20.0 ft	kg lb	8500 18,250	7150 15,350	7050 15,150	5900 12,750	5950 12,850	5000 10,850	5150 10,850	4350 9,300			4650 10,300	3900 8,650	16.13 53'4"
-7.5 m -25.0 ft	kg lb	8500 18,250	7150 15,350	7050 15,150	5900 12,750	5900 12,850	5050 10,850	5200 10,850	4350 9,300			5100 11,250	4250 9,450	15.25 50'0"
-9.0 m -30.0 ft	kg lb	*7900 *16,850	7250 15,600	*6750 *14,350	6000 12,950	*5700 *12,000	5100 11,050					*5250 *11,550	4850 10,750	14.14 46'8"
-10.5 m -35.0 ft	kg lb	*6700 *14,150	*6700 *14,150	*5650 *11,750	*5650 *11,750							*5100 *11,100	*5100 *11,100	12.77 41'8"



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.

352 Long Reach Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Europe

	Linkage	Width		Capacity		Weight		Fill	Variable Gauge High Wide Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	12.0 mt (26,455 lb) Counterweight
										LRE Boom 11.5 m (37'9")
									LRE 8.5 (27'11")	
Pin-On (No Quick Coupler)										
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	
	B	750	30	0.64	0.84	626	1,380	100	●	
	B	1050	42	1.00	1.31	737	1,624	100	●	
Heavy Duty	B	1050	42	1.00	1.31	855	1,885	100	●	
Ditch Cleaning	B	1800	71	0.86	1.12	590	1,301	100	●	
	B	2100	83	1.06	1.39	657	1,447	100	●	
Ditch Cleaning Tilt	B	2000	79	1.23	1.61	1096	2,416	100	⊖	
								kg	3075	
								lb	6,779	
With Cat Pin Grabber Coupler										
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	
	B	750	30	0.64	0.84	626	1,380	100	●	
	B	1050	42	1.00	1.31	737	1,624	100	⊙	
Heavy Duty	B	1050	42	1.00	1.31	855	1,885	100	●	
Ditch Cleaning	B	1800	71	0.86	1.12	590	1,301	100	●	
	B	2100	83	1.06	1.39	657	1,447	100	⊙	
Ditch Cleaning Tilt	B	2000	79	1.23	1.61	1096	2,416	100	○	
								kg	2653	
								lb	5,850	
With CW-40 Quick Coupler										
General Duty	B CW40	900	35	0.81	1.06	664	1,463	100	●	
General Duty – Leveling Edge	B CW40	650	26	0.70	0.92	567	1,250	100	●	
	B CW40	800	31	0.68	0.89	614	1,353	100	●	
	B CW40	1000	39	0.92	1.21	719	1,586	100	●	
Ditch Cleaning	B CW40	2100	83	1.29	1.69	792	1,746	100	⊖	
	B CW40	1800	72	1.50	1.96	827	1,823	100	○	
Ditch Cleaning Tilt	B CW40	2000	79	1.23	1.61	1161	2,560	100	○	
								kg	2825	
								lb	6,228	
With CW-40S Quick Coupler										
General Duty	B	750	30	0.64	0.84	592	1,450	100	●	
	B	900	36	0.81	1.06	661	1,444	100	●	
Ditch Cleaning	B	2000	78	1.22	1.60	715	1,576	100	⊙	
	B	2200	87	1.36	1.78	769	1,695	100	⊖	
Ditch Cleaning Tilt	B	2000	79	1.23	1.61	1142	2,518	100	○	
								kg	2844	
								lb	6,270	

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 long 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)

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.

352 Long Reach Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – North America

	Linkage	Width		Capacity		Weight		Fill	Variable Gauge High Wide Undercarriage	
		mm	in	m ³	yd ³	kg	lb		%	12.0 mt (26,455 lb) Counterweight
										LRE Boom 11.5 m (37'9")
LRE 8.5 (27'11")										
Pin-On (No Quick Coupler)										
General Duty Capacity	B	600	24	0.55	0.72	620	1,366	100	●	
	B	750	30	0.75	0.98	717	1,580	100	●	
	B	900	36	0.95	1.24	793	1,747	100	●	
General Duty Capacity – Wide Tip	B	600	24	0.55	0.72	617	1,360	100	●	
	B	750	30	0.75	0.98	715	1,576	100	●	
	B	900	36	0.95	1.24	791	1,743	100	●	
Heavy Duty	B	600	24	0.46	0.61	647	1,426	100	●	
	B	750	30	0.64	0.84	752	1,658	100	●	
	B	900	36	0.81	1.06	835	1,841	100	●	
	B	1050	42	1.00	1.31	892	1,967	100	●	
	B	1200	48	1.19	1.56	985	2,171	100	⊙	
Ditch Cleaning	B	1500	60	1.01	1.32	651	1,436	100	●	
Ditch Cleaning Tilt	B	1800	72	0.90	1.83	1105	2,436	100	●	
	B	2000	79	1.23	1.61	1161	2,560	100	⊙	
								kg	3075	
								lb	6,779	
With Cat Pin Grabber Coupler										
General Duty Capacity	B	600	24	0.55	0.72	620	1,366	100	●	
	B	750	30	0.75	0.98	717	1,580	100	●	
	B	900	36	0.95	1.24	793	1,747	100	⊙	
General Duty Capacity – Wide Tip	B	600	24	0.55	0.72	617	1,360	100	●	
	B	750	30	0.75	0.98	715	1,576	100	●	
	B	900	36	0.95	1.24	791	1,743	100	⊙	
Heavy Duty	B	600	24	0.46	0.61	647	1,426	100	●	
	B	750	30	0.64	0.84	752	1,658	100	●	
	B	900	36	0.81	1.06	835	1,841	100	●	
	B	1050	42	1.00	1.31	892	1,967	100	●	
	B	1200	48	1.19	1.56	985	2,171	100	○	
Ditch Cleaning	B	1500	60	1.01	1.32	651	1,436	100	⊙	
Ditch Cleaning Tilt	B	1800	72	0.90	1.83	1105	2,436	100	⊙	
	B	2000	79	1.23	1.61	1161	2,560	100	○	
								kg	2653	
								lb	5,850	

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 long 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)

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.

352 Long Reach Hydraulic Excavator Specifications

Attachments Offering Guide – North America

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

Match

PIN-ON ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 WH-800	✓
	G318 WH-1100	✓
Mulchers	HM4015	✓
	HM4815	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 WH-800	✓
Mulchers	HM4015 Standard	✓
	HM4815	✓

352 Long Reach Hydraulic Excavator Specifications

Attachments Offering Guide – Europe

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

Match

PIN-ON ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 WH-800	✓
	G318 WH-1100	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 WH-800	✓

CW-40S DEDICATED COUPLER ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 WH-800	✓
	G318 WH-1100	✓

CW-40 DEDICATED COUPLER ATTACHMENTS

Undercarriage		H-VG
Counterweight		12.0 mt (26,455 lb)
Boom Type		LRE
Stick Length		LRE
Demolition and Sorting Grapples	G318	✓
	G318 Fixed Top	✓
	G318 WH-800	✓
	G318 WH-1100	✓

352 Long Reach Excavator 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, STICKS AND LINKAGES			ELECTRICAL SYSTEM		
11.5 m (37'9") LRE boom	✓		Maintenance-free 1,000 CCA batteries	✓	
8.5 m (27'11") LRE stick	✓		Centralized electrical disconnect switch	✓	
Bucket linkage, LRE B1 family with lifting eye, Cat Grade	✓		LED chassis light	✓	
CAT TECHNOLOGY			1,800 lumen LED premium surround lights		✓
VisionLink®	✓*		ENGINE		
VisionLink Productivity		✓	Cold start block heater		✓
Remote Flash	✓		Three selectable modes: Power, Smart, Eco	✓	
Remote Troubleshoot	✓		Automatic engine speed control	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Up to 4500 m (14,760 ft) altitude capability	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		52° C (126° F) high-ambient cooling capacity	✓	
Cat Grade 2D	✓		Hydraulic reversing fan	✓ ¹	✓
Cat Grade 2D with Attachment Ready Option (ARO)		✓	-18° C (0° F) cold start capability	✓	
Cat Grade 3D single GNSS		✓	-50° C (-58° F) cold weather coolant		✓
Cat Grade 3D dual GNSS		✓	Double element air filter with integrated pre-cleaner	✓	
Laser catcher		✓	HYDRAULIC SYSTEM		
Cat Payload: – Static weigh – Semiautomatic calibration – Payload/cycle information – USB reporting capability	✓		SmartBoom™ – Europe only		✓
Work tool recognition (PL161)	✓		Boom and stick regeneration circuits	✓	
Work tool tracking (PL161)	✓		Electronic main control valve	✓	
			Automatic hydraulic oil warmup	✓	
			Reverse swing damping valve	✓	
			Automatic swing parking brake	✓	
			High performance hydraulic return filters	✓	
			Two speed travel modes	✓	
			Bio hydraulic oil capability		✓
			Combined two-way auxiliary circuit		✓
			Medium pressure auxiliary circuit		✓
			Cooling circuit		✓
			Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓

¹North America standard; Europe optional

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

(continued on next page)

352 Long Reach Excavator Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
SAFETY AND SECURITY			UNDERCARRIAGE AND STRUCTURES		
Cat Command (remote control)		✓	Variable Gauge High Wide undercarriage	✓	
2D E-Fence:	✓		Grease lubricated track	✓	
– E-ceiling			Towing eye on baseframe	✓	
– E-floor			Segmented three-piece track guiding guards		✓
– E-swing			Full-length track guiding guards		✓
– E-wall			HD bottom guard	✓	
– E-cab avoidance			HD travel motor guard	✓	
Auto hammer stop	✓		12.0 mt (26,455 lb) counterweight	✓	
Caterpillar One Key security system	✓		900 mm (35") triple grouser track shoes	✓ ⁵	
Lockable external tool/storage box	✓		750 mm (30") triple grouser track shoes		✓ ⁴
Lockable door, fuel, and hydraulic tank locks	✓		600 mm (24") triple grouser track shoes		✓ ⁴
Lockable fuel drain compartment	✓		600 mm (24") double grouser track shoes		✓ ⁴
Service platform with anti-skid plates and recessed bolts	✓				
Lockable disconnect switch	✓				
Right Hand (RH) handrail and handhold	✓				
Standard visibility mirror package	✓				
Signaling/warning horn	✓				
Travel alarm	✓ ²				
Swing alarm		✓			
Ground-level secondary engine shutoff switch	✓				
Boom lowering check valve	✓ ³				
Stick lowering check valve	✓ ³				
Rear and right-hand-sideview cameras	✓				
360° visibility		✓			
SERVICE AND MAINTENANCE					
Integrated vehicle health management system	✓				
Grouped location for engine oil and fuel filters	✓				
Scheduled Oil Sampling (S·O·S SM) ports	✓				
QuickEvac TM maintenance ready		✓			
Electric refueling pump with auto shutoff		✓ ⁴			

²North America mandatory; Europe optional

³Europe standard; North America optional

⁴Europe only

⁵Europe optional

352 Long Reach Excavator Attachments

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

- Lower radial wiper
- Joystick with horizontal sliders
- Left Hand (LH)/RH electrical pedal for tool control
- Dual exit rear window kit*
- Front windshield laminated glass
- Bluetooth® key fob
- Operator Protective Guards
- Vandalism guard
- Full mesh net guard
- Lower mesh net guard
- Rain protector for front windshield and cab light cover
- Submarine kit

*Available in North America only.

352 Long Reach Excavator Cab Options

Cab Options

	Deluxe	Premium*
Sound suppressed cab	●	●
Two-piece front windshield 70/30, tempered	●	○
One-piece front windshield, tempered	X	○
High-resolution 254 mm (10") LCD touchscreen monitor	●	●
Additional high-resolution LCD touchscreen monitor for Cat Grade Advanced 2D and 3D	○	○
Automatic bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
Height-adjustable console	●	●
Heated seat with air-adjustable suspension	●	X
Heated and cooled seat with automatic adjustable suspension	X	●
Tilt-up left-side console	●	●
Cat Stick Steer	●	●
51 mm (2") orange seat belt	●	●
Bluetooth® integrated radio (including USB, auxiliary port and microphone)	●	●
2 × 12V DC outlets	●	●
Document storage	●	●
Rear head storage net and lunchbox storage net	●	●
Cup and bottle holders	●	●
Upper radial wiper 70/30 with washer	●	X
Parallel wiper with 70/30 with washer	X	○
Parallel wiper one-piece with washer	X	○
Polycarbonate skylight hatch, openable windshield	●	○
Fixed glass hatch, one-piece windshield	X	○
LED cab lights, 1,800 lumens	●	●
LED dome light	●	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	●
Rear window emergency exit	●	●
Washable floor mat	●	●
Beacon ready	●	●
Auxiliary relay	●	●

● Standard

○ Optional

X Not available

* Available in Europe only

352 LRE 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® C13 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 1.0 kg (2.2 lb) of refrigerant which has a CO₂ equivalent of 1.430 metric tonnes (1.576 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) – 108 dB(A)

ISO 6396:2008 (inside cab) – 72 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.
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode minimizes fuel consumption for light applications
 - Cut maintenance costs with extended service intervals
 - Hydraulic reversing fan cools engine on demand to help reduce fuel consumption
 - Increase operating efficiency with standard Cat technologies that lower operator fatigue and operating costs

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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AEXQ3366-02 (11-2023)
Replaces AEXQ3366-01
Build Number: 07F
(Europe, N Am)

