352

Long Reach Hydraulic Excavator*

The Cat 352 Long Reach Excavator combines premium performance and simple-to-use technology with steep slope capability reaching out to 19.6 m (64 ft) and dig depth of 13.04 m (43 ft). Standard waterproof technology provides precision excavation down to 4.5 m (15 ft); an optional submarine solution allows you to work down to 20 m (66 ft). Heavy duty high wide undercarriage and extra counterweight provide a stable platform for long reach digging. Variable gauge undercarriage enables easier transportation between jobsites when retracted and adds stability when extended.

High Performance with Low Fuel Consumption

- Increase operating efficiency up to 45 percent with standard Cat technologies that lower operator fatigue and operating costs, including fuel consumption and daily maintenance.
- Three power modes, Power, Smart and Eco, match the excavator to the job. Smart mode automatically matches engine and hydraulic power to digging conditions, providing max power when needed and reducing power when it isn't to help save fuel.
- The high efficiency hydraulic fan cools the engine on demand to help reduce fuel consumption; available reverse function makes it easy to keep cores clean.

Cat Technologies Boost Efficiency and Productivity

- Boost productivity up to 45 percent versus traditional grading with standard Cat GRADE with 2D system – including indicate-only and laser capability.
- Standard Cat PAYLOAD on-board weighing system: Achieve precise load targets and increase loading efficiency with on-the-go weighing and real-time estimates of your payload without swinging.
- Combine Payload with VisionLink® and remotely manage your production targets.
- Upgrade to optional Cat GRADE with 3D: Create and edit grade designs with ease on a second high-resolution 254 mm (10 in) touchscreen monitor.
- Remote Troubleshoot connects you to a dealer service pro to help solve your problem and quickly get you to work.
- Remote Flash works around your schedule to ensure your machine's software is up to date for optimal performance.

Safety

- Standard 2D E-Fence integrated right out of the factory prevents the excavator from moving outside of operator-defined set points.
- A ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- Rear and right-hand sideview cameras are standard. Upgrade to 360° visibility and you'll easily visualize objects and personnel around the excavator in a single view.

Work in Comfort

- Choose between Deluxe and Premium cabs – both with automatic climate control.
- Stay warm with the Deluxe seat; stay warm and cool with the Premium seat.
- Use the standard radio's USB ports and Bluetooth technology to connect personal devices and make hands-free calls.

Simple Operation

- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or the unique Operator ID function.
- Program each joystick button, including power mode, response, and pattern, using Operator ID; the machine will remember what you set each time you go to work.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.
- The Cat PL161 Attachment Locator can help you find tools, track work time, and plan maintenance and replacement. Your Cat App will locate the device automatically.

Maintenance

- Track your excavator's filter life and maintenance intervals via the in-cab monitor.
- Change all fuel filters at a synchronized 1,000 hours. Oil and fuel filters grouped and located on right-hand side of machine for easy maintenance.
- The new air intake filter with precleaner has double the dust holding capacity of the previous air intake filter.
- The new hydraulic oil filter provides improved filtration performance anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.

*Available in North America and Europe only.

CAT®

Engine

Engine Model	Cat C13	
Net Power – ISO 9249	316 kW	424 hp
Engine Power – ISO 14396	317 kW	425 hp
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).
- Net power is tested per ISO 9249. Standards 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.
- Rated speed at 1,800 rpm.

Swing Mechanism

Swing Speed	5.8 rpm	
Maximum Swing Torque	187 kN·m	138,000 lbf-ft

Weights

Operating Weight	58 400 kg	128,800 lb

- Variable Gauge High Wide undercarriage, LRE boom, LRE8.5B (27'9") stick, HD 1.19 m^3 (1.56 yd^3) 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	4.8 km/h	3.0 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)	15 L	4.0 gal
Hydraulic System (including tank)	550 L	145.3 gal
Hydraulic Tank (including suction pipe)	217 L	57.3 gal
DEF Tank	46 L	12.2 gal

Standards

Brakes	ISO 10265:2008
Cab/FOGS (optional)	ISO 10262:1998

Sound Performance

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

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- 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 CO_2 equivalent of 1.430 metric tonnes.

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.

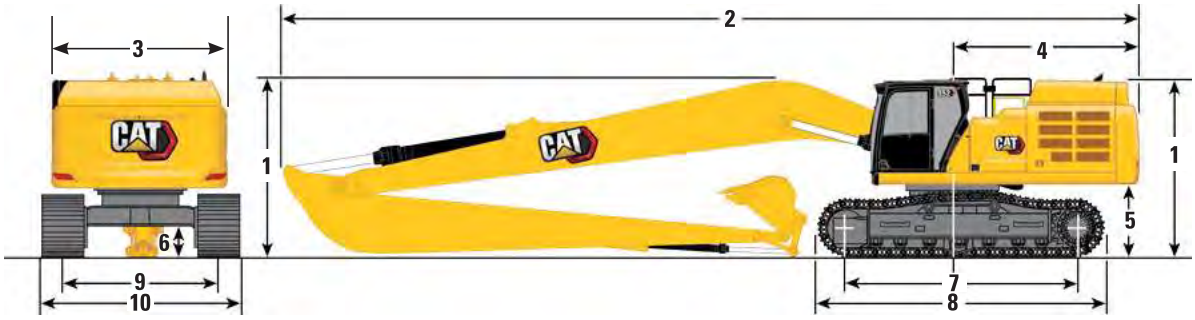
Major Component Weights

	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 QC CB without Pins	250	550
Pin Grabber QC CB without Pins	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"
FOGS Height	3540 mm	11'7"
Guardrails/Handrails 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 Walkways	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"

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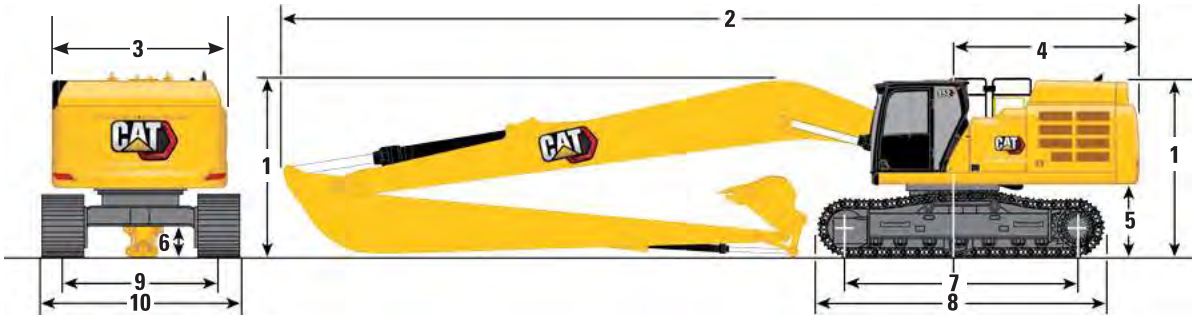
Dimensions *(continued)*

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

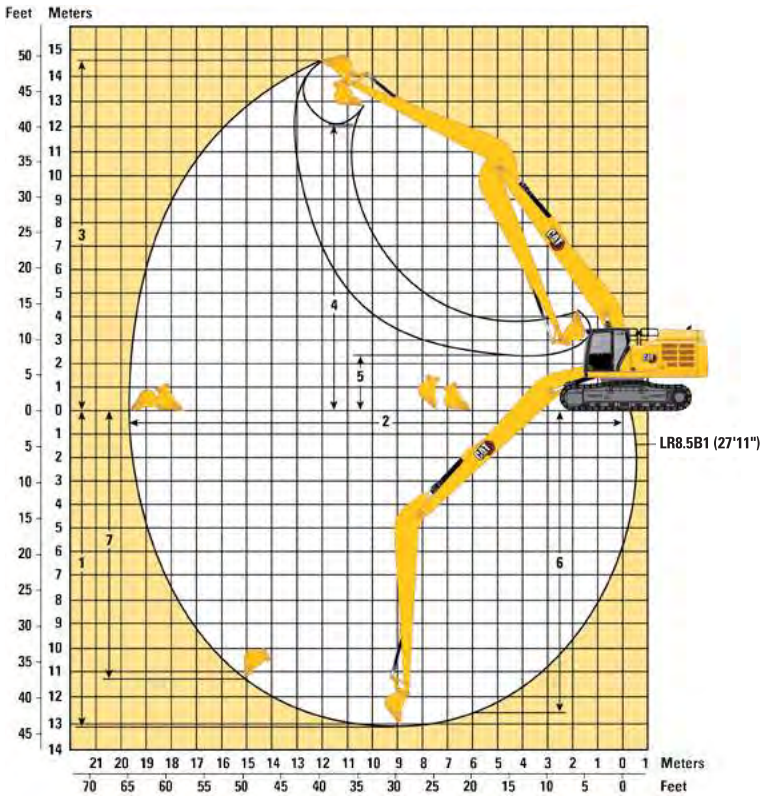


Boom Option	LRE Boom 11.5 m (37'9")	
Stick Option	**LRE Stick LR8.5B1 (27'11")**	
8 Track Length	5350 mm	17'6"
9 Track Gauge:		
Retracted	3220 mm	10'6"
Extended	3720 mm	12'2"
10 Undercarriage Width (with steps): Retracted		
600 mm (24") Shoes	4010 mm	13'1"
750 mm (30") Shoes	4010 mm	13'1"
900 mm (35") 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

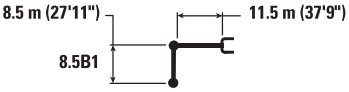
Working Ranges and Forces

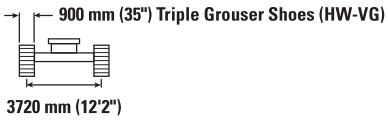
All dimensions are approximate and may vary depending on bucket selection.

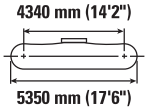


Boom Option	LRE Boom 11.5 m (37'9")	
Stick Option	**LRE Stick LR8.5B1 (27'11")**	
1 Maximum Digging Depth	13 040 mm	42'9"
2 Maximum Reach at Ground Line	19 640 mm	64'5"
3 Maximum Cutting Height	14 700 mm	48'2"
4 Maximum Loading Height	12 030 mm	39'5"
5 Minimum Loading Height	2250 mm	7'4"
6 Maximum Depth 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"

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**

* 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.

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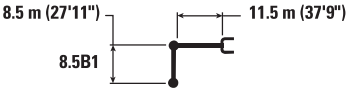
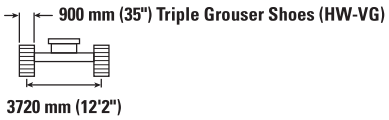
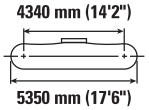
LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On *(continued)*







		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	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

* 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.

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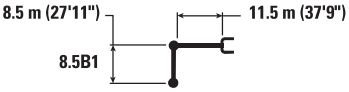
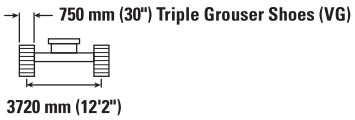
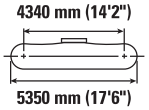
LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On







		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 ***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**	13 200 **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

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

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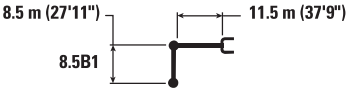
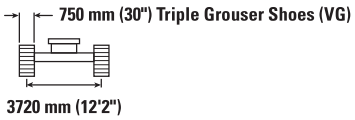
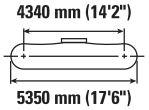
(continued on next page)

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	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**

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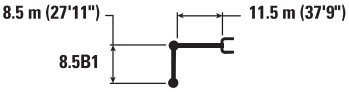
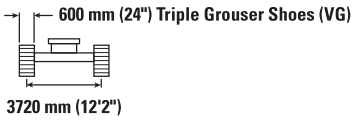
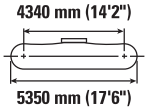
LRE Boom Lift Capacities – Counterweight: 12.0 mt (26,455 lb) – without Bucket, Heavy Lift: On







		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 ***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**	13 000 **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"**

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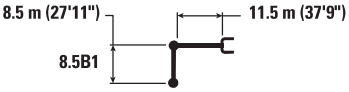
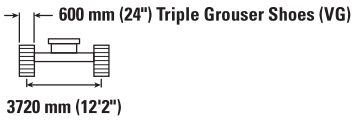
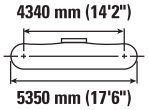
(continued on next page)

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 **10,800**	5150 **11,100**	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**	6000 **12,850**	5050 **10,850**	5200	4350			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

* 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 – Europe

	Linkage	Width mm	Width in	Capacity m^3	Capacity yd^3	Weight kg	Weight lb	Fill %	Variable Gauge High Wide Undercarriage 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	⊖
Maximum load with pin-on (payload + bucket)								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	○
Maximum load with coupler (payload + bucket)								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	○
Maximum load with coupler (payload + bucket)								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	○
Maximum load with coupler (payload + bucket)								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

		Width		Capacity		Weight		Fill	Variable Gauge High Wide Undercarriage 12.0 mt (26,455 lb) Counterweight LRE Boom 11.5 m (37'9")
	Linkage	mm	in	m^3	yd^3	kg	lb	%	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	◉
	B	1350	54	1.38	1.80	1069	2,357	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	1.11	1.61	1161	2,560	100	◉
								kg	3075
Maximum load with pin-on (payload + bucket)								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	○
	B	1350	54	1.38	1.80	1069	2,357	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	1.11	1.61	1161	2,560	100	○
								kg	2653
Maximum load with coupler (payload + bucket)								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.

Standard and Optional Equipment

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

	Standard	Optional
CAT TECHNOLOGY		
Cat Product Link	✓	
Work tool recognition	✓	
Work tool tracking*	✓	
Laser catcher		✓
Cat GRADE with 2D and offset memory	✓	
Cat GRADE with Advanced 2D		✓
Cat GRADE with 3D connectivity: – Virtual Reference Station** – Internet Base Service Station** – Trimble Connected Community**		✓
Cat PAYLOAD: – Static weigh – Semiautomatic calibration – Payload/cycle information – USB reporting capability	✓	
2D E-Fence: – E-ceiling – E-floor – E-swing – E-wall – E-cab avoidance	✓	
Remote Services capability	✓	

*Paired with PL161 attachment locator.

**Subscription required.

(1) Standard in North America.

(2) Optional in Europe.

	Standard	Optional
ENGINE		
Cold start block heaters		✓
Three selectable modes: Power, Smart, Eco	✓	
Automatic engine speed control	✓	
Up to 4500 m (14,760 ft) altitude capability	✓	
52° C (126° F) high-ambient cooling capacity	✓	
Hydraulic reverse fan	✓(1)	✓(2)
–18° C (0° F) cold start capability	✓	
–50° C (–58° F) cold weather coolant		✓
Double element air filter with integrated precleaner	✓	
115 amp alternator	✓	
Single plane three horizontal cooling system	✓	
Dual stage 5.5 micron primary filter and 4.4 micron 2nd/3rd filters	✓	
Biodiesel capable (up to B20)	✓	
Secure start with PIN code	✓	
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Electronic main control valve	✓	
Heavy lift mode	✓	
Automatic hydraulic oil warm up	✓	
Automatic swing parking brake	✓	
Hydraulic return filters	✓	
Two speed travel modes	✓	
Bio hydraulic oil		✓
Boom and stick lowering check valve	✓	
High pressure, medium pressure and quick coupler lines		✓

(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
UNDERCARRIAGE AND STRUCTURES		
Grease lubricated track	✓	
Towing eye on baseframe	✓	
Variable Gauge High Wide undercarriage	✓	
12.0 mt (26,455 lb) counterweight	✓	
900 mm (35") triple grouser track shoes	✓	
750 mm (30") triple grouser track shoes [1]		✓
600 mm (24") triple grouser track shoes [1]		✓
600 mm (24") double grouser track shoes [3]		✓
Guard, swivel protection (16 mm/⅔ in)	✓	
Segmented track guiding guards		✓
Full-length track guiding guards		✓
HD bottom guard	✓	
HD travel motor guard	✓	
BOOMS, STICKS AND LINKAGES		
11.5 m (37'9") Long Reach (LRE) boom	✓	
8.5 m (27'11") Long Reach (LRE) stick	✓	
Bucket linkage, LRE B1 family with lifting eye, Cat GRADE	✓	

	Standard	Optional
ELECTRICAL SYSTEM		
LED exterior lights	✓	
Premium surround lighting package		✓
SERVICE AND MAINTENANCE		
Service platform with anti-skid plate and recessed bolts	✓	
Grouped location for engine oil and fuel filters	✓	
Scheduled Oil Sampling (S·O·S) ports	✓	
SAFETY AND SECURITY		
Right-hand handrail and hand hold (ISO 2867 compliant)	✓	
Caterpillar One Key security system	✓	
Lockable external tool/storage box	✓	
Lockable door, fuel, and hydraulic tank locks	✓	
Lockable fuel drain compartment	✓	
Signaling/warning horn	✓	
Rear and right-hand-sideview cameras	✓	
360° visibility		✓

[3] Available in Europe only.

352 Long Reach Excavator Attachments

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB
- Radial lower wiper
- Joystick with horizontal sliders
- LH/RH electrical pedal for tool control
- Dual exit rear window kit*
- Front windshield laminated glass (P5A glass, EU demolition regulation)

SAFETY AND SECURITY
- 76 mm (3") retractable seat belt
- Bluetooth key fob

GUARDS
- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front
- Full protecting vandalism guard
- Rain protector for front windshield with cab light cover

ELECTRICAL
- Submarine kit

OTHER ATTACHMENTS
- GNSS antennae

*Available in North America only.

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, infinite with no tool	●	●
Tilt-up left-side console	●	●
Heated seat with air-adjustable suspension	●	X
Heated and cooled seat with automatic adjustable suspension	X	●
51 mm (2") orange seat belt	●	●
Radio with USB port, Bluetooth and optional DAB	●	●
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, 850 lumens	●	●
LED cab light kit, 1,200 lumens	○	○
LED dome light	●	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	●
Rear window emergency exit	●	●
Washable floor mat	●	●
Beacon ready	●	●

● Standard

○ Optional

X Not available

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

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

AEXQ2522-02 (09-2020)
Replaces AEXQ2522-01
Build Number: 07C
(Aus-NZ, N Am, Eur)