



320

Hydraulic Excavator

Technical Specifications

Engine

Engine Model	Cat® C7.1	
Engine Power (ISO 9249)	117 kW	157 hp
Engine Power (ISO 14396)	118 kW	158 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³

- The 320 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Rating at 1,800 rpm.

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	74 kN·m	54,440 lbf·ft

Weights

Operating Weight	22 200 kg	49,000 lb
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- HD Reach boom, HD R2.9 (9'6") stick, HD 1.19 m³ (1.56 yd³) bucket and 700 mm (28") triple grouser shoes, 3.7 mt (4.1 t) counterweight.

Track

Standard Track Shoes Width	700 mm	28 in
Optional Track Shoes Width	600 mm	24 in
Optional Track Shoes Width	790 mm	31 in
Number of Shoes (each side)	49	
Number of Track Rollers (each side)	8	
Number of Carrier Rollers (each side)	2	

Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	205 kN	45,996 lbf

Hydraulic System

Main System – Maximum Flow (Implement)	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	26 800 kPa	3,886 psi
Boom Cylinder – Bore	120 mm	5 in
Boom Cylinder – Stroke	1260 mm	50 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

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Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive (each)	5 L	1.3 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

Standards

Brakes	ISO 10265:2008
Cab/FOGS	ISO 10262:1998
Cab/ROPS	ISO 12117-2:2008

Sound Performance

ISO 6395:2008 (external)	100 dB(A)
ISO 6396:2008 (inside cab)	70 dB(A)

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

Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes				700 mm (28") Triple Grouser Shoes				790 mm (31") Triple Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
3.7 mt (4.1 t) Counterweight + Base Machine												
HD Reach Boom + HD R2.9 (9'6") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	21 900	48,300	45.6	6.6	22 200	49,000	39.6	5.7	22 500	49,600	35.5	5.2

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

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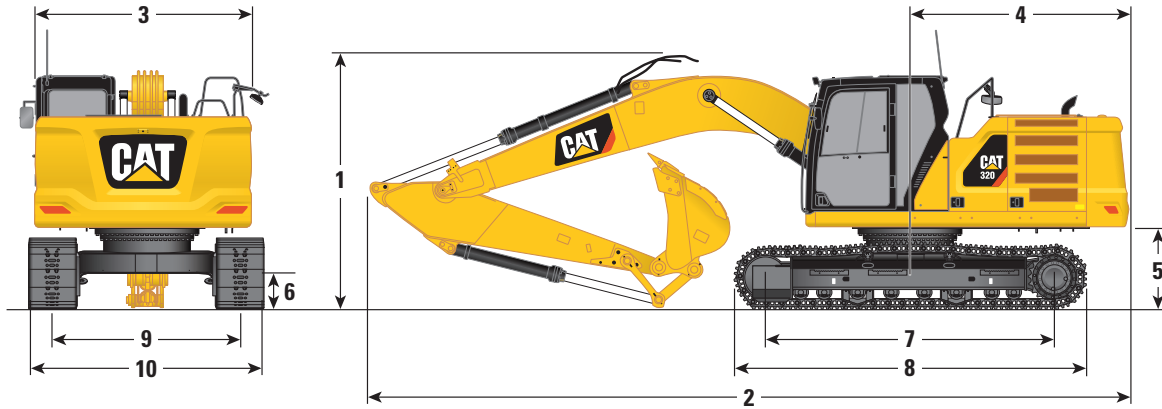
Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [4.1 t] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 400	31,700
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2690	5,900
700 mm (28") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	3050	6,700
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension for ISO 2867:2011	3370	7,400
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweights:		
3.7 mt (4.1 t) Counterweight	3700	8,200
4.7 mt (5.2 t) Counterweight	4700	10,400
Swing Frame:		
Standard Swing Frame	1890	4,170
Semi-HD Swing Frame	1910	4,210
Standard and Long Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390	9,700
Booms (including lines, pins, stick cylinder):		
HD Reach Boom (5.7 m/18'8")	2010	4,400
Super Long Reach Boom (8.85 m/29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
HD Reach Stick (R2.9B1/9'6")	1160	2,600
HD Reach Stick (R2.5B1/8'2")	1150	2,500
Super Long Reach Stick (6.28A/20'7")	1340	3,000
Buckets (without linkage):		
1.19 m ³ (1.56 yd ³) HD	940	2,100
1.40 m ³ (1.83 yd ³) HDV	1010	2,230
0.57 m ³ (0.74 yd ³) Ditch Cleaning	390	900
0.53 m ³ (0.69 yd ³) GD	410	900

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Dimensions

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



Boom Options

HD Reach Boom
5.7 m (18'8")

SLR Boom
8.85 m (29'0")

Stick Options

HD Reach Sticks
R2.9B1 (9'6")

R2.5B1 (8'2")

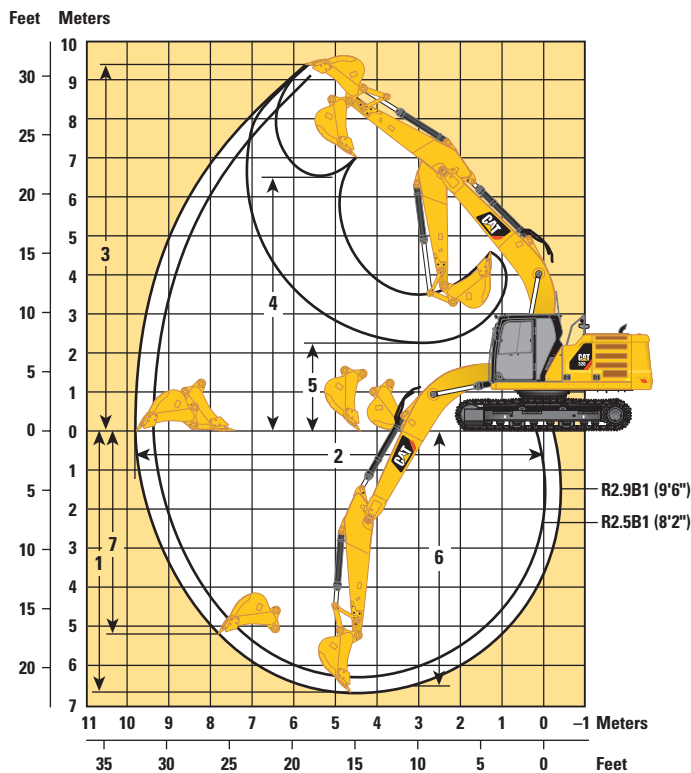
SLR Stick
6.28A (20'7")

	HD Reach Boom 5.7 m (18'8")	SLR Boom 8.85 m (29'0")
1 Machine Height:		
Top of Cab Height	2960 mm 9'9"	2960 mm 9'9"
Top of FOGS Height	3100 mm 10'2"	3100 mm 10'2"
Handrails Height	2950 mm 9'8"	2950 mm 9'8"
With Boom/Stick/Bucket Installed	3160 mm 10'4"	3190 mm 10'6"
With Boom/Stick Installed	2910 mm 9'7"	3070 mm 10'1"
With Boom Installed	2480 mm 8'2"	2650 mm 8'8"
2 Machine Length:		
With Boom/Stick/Bucket Installed	9530 mm 31'3"	12 750 mm 41'9"
With Boom/Stick Installed	9500 mm 31'2"	12 760 mm 41'9"
With Boom Installed	8450 mm 27'9"	8920 mm 29'3"
3 Upperframe Width without Walkways	2780 mm 9'1"	2780 mm 9'1"
4 Tail Swing Radius	2830 mm 9'3"	2830 mm 9'3"
5 Counterweight Clearance	1050 mm 3'5"	1050 mm 3'5"
6 Ground Clearance	470 mm 1'7"	470 mm 1'7"
7 Length to Center of Rollers	3650 mm 12'0"	3650 mm 12'0"
8 Track Length	4450 mm 14'7"	4450 mm 14'7"
9 Track Gauge	2380 mm 7'9"	2380 mm 7'9"
Track Width:		
600 mm (24") Shoes	600 mm 24"	600 mm 24"
700 mm (28") Shoes	700 mm 28"	700 mm 28"
790 mm (31") Shoes	790 mm 31"	790 mm 31"
10 Undercarriage Width (with steps/without steps):		
600 mm (24") Shoes	2980 mm 9'9"	2980 mm 9'9"
700 mm (28") Shoes	3080 mm 10'1"	3080 mm 10'1"
790 mm (31") Shoes	3170 mm 10'5"	3170 mm 10'5"
Bucket Type	HD	GD
Bucket Capacity	1.19 m ³ 1.56 yd ³	0.53 m ³ 0.69 yd ³
Bucket Tip Radius	1570 mm 5'2"	1230 mm 4'0"

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Working Ranges

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



Boom Option

HD Reach Boom
5.7 m (18'8")

Stick Option

HD Reach Sticks

R2.9B1 (9'6")

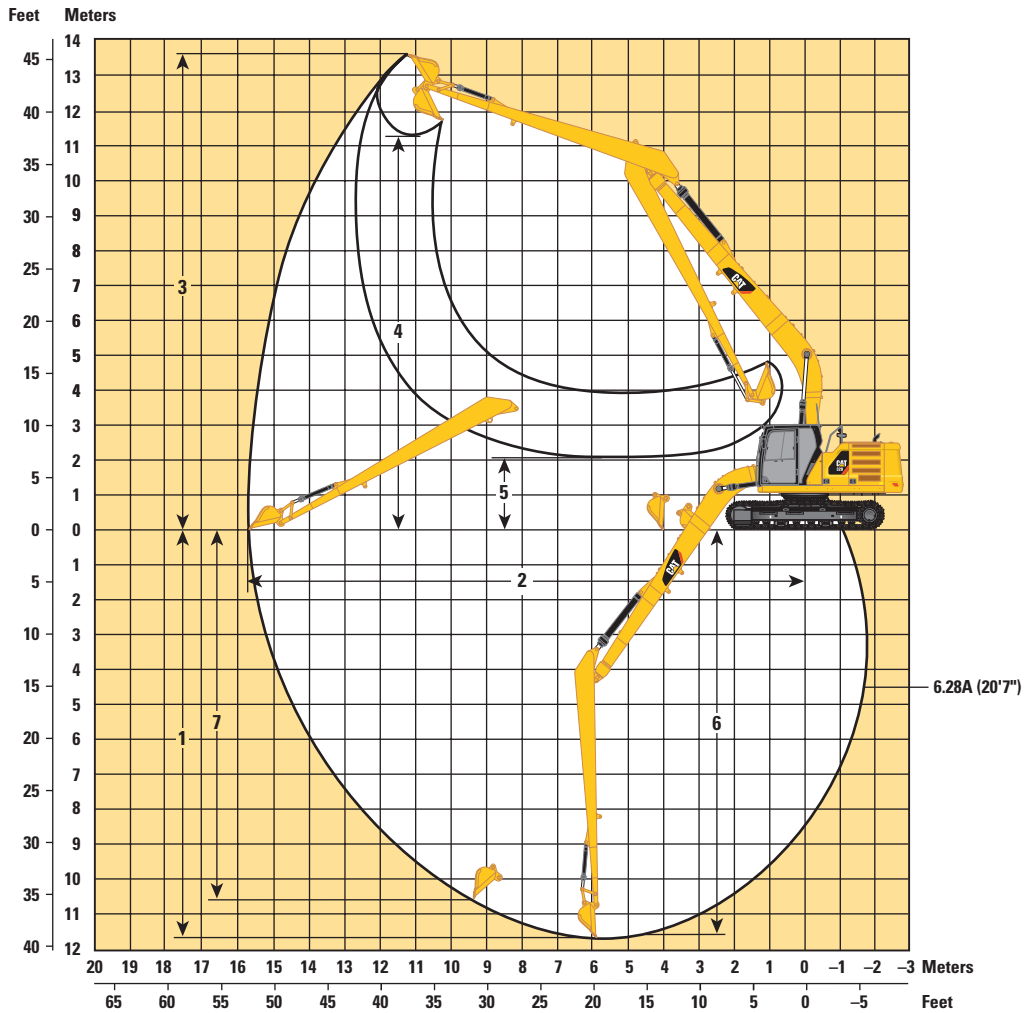
R2.5B1 (8'2")

	R2.9B1 (9'6")	R2.5B1 (8'2")
1 Maximum Digging Depth	6720 mm	22'1"
2 Maximum Reach at Ground Line	9860 mm	32'4"
3 Maximum Cutting Height	9370 mm	30'9"
4 Maximum Loading Height	6490 mm	21'4"
5 Minimum Loading Height	2170 mm	7'1"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Bucket Digging Force (ISO)	150 kN	33,811 lbf
Stick Digging Force (ISO)	106 kN	23,911 lbf
Bucket Type	HD	HD
Bucket Capacity	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1570 mm	5'2"

320 Hydraulic Excavator Specifications

Working Ranges

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



Boom Option

SLR Boom
8.85 m (29'0")

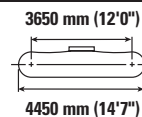
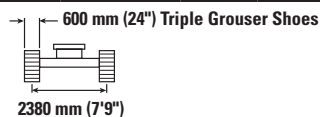
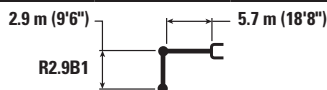
Stick Option

SLR Stick
6.28A (20'7")

1 Maximum Digging Depth	11 690 mm	38'4"
2 Maximum Reach at Ground Line	15 730 mm	51'7"
3 Maximum Cutting Height	13 610 mm	44'8"
4 Maximum Loading Height	11 290 mm	37'0"
5 Minimum Loading Height	2080 mm	6'9"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 590 mm	38'0"
7 Maximum Vertical Wall Digging Depth	10 560 mm	34'8"
Bucket Digging Force (ISO)	60 kN	13,549 lbf
Stick Digging Force (ISO)	49 kN	10,935 lbf
Bucket Type	GD	
Bucket Capacity	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1230 mm	40"

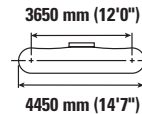
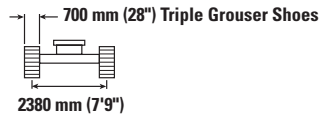
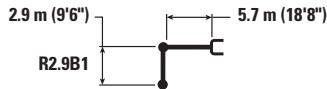
320 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom Lift Capacity	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	5100 10,950			*3900 *8,650	3650 8,200	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	4950 10,650	5400 11,550	3450 7,400	*3850 *8,450	3100 6,850	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7200 15,500	*6750 *14,650	4700 10,100	5250 11,300	3350 7,200	*3950 *8,650	2800 6,200	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	6650 14,350	7200 15,450	4450 9,550	5150 11,050	3250 6,950	*4200 *9,150	2700 5,950	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 050 23,700	6350 13,700	7000 15,050	4250 9,200	5050 10,800	3150 6,750	4400 9,650	2750 6,050	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	10 950 23,450	6300 13,500	6900 14,850	4200 9,000	5000 10,750	3100 6,700	4750 10,500	2950 6,550	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	12 300 26,350	*10 800 *23,350	6350 13,650	6950 14,900	4200 9,100			5650 12,500	3500 7,750	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	6650 14,100					*6600 *14,550	4850 10,900	5600 220

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom Lift Capacity	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	ISO 10567	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	5150 11,050			*3900 *8,650	3700 8,250	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5000 10,750	5450 11,650	3500 7,500	*3850 *8,450	3150 6,950	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7250 15,650	*6750 *14,650	4750 10,200	5300 11,450	3400 7,250	*3950 *8,650	2850 6,250	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	6750 14,500	7250 15,650	4500 9,650	5200 11,150	3250 7,000	*4200 *9,150	2750 6,000	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 200 23,950	6450 13,850	7050 15,200	4300 9,300	5100 10,950	3150 6,800	4450 9,750	2800 6,100	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	11 050 23,700	6350 13,650	7000 15,000	4250 9,100	5050 10,900	3150 6,750	4800 10,600	3000 6,600	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	12 450 26,650	*10 800 *23,350	6400 13,750	7000 15,100	4250 9,200			5700 12,650	3550 7,800	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	6600 14,250					*6600 *14,550	4900 11,000	5600 220



ISO 10567



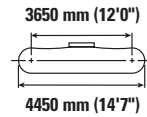
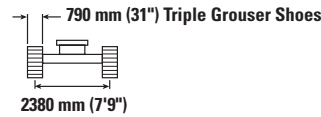
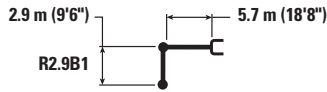
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

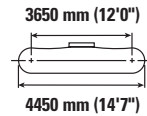
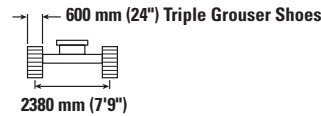
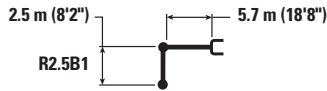
320 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb							*4900 *11,750	*4900 11,200			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *12,800	5200 10,850			*3900 *8,650	3750 8,350	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5050 10,850	5500 11,800	3550 7,600	*3850 *8,450	3200 7,050	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7350 15,850	*6750 *14,650	4800 10,350	5400 11,600	3450 7,350	*3950 *8,650	2900 6,350	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	6850 14,700	7400 15,850	4550 9,800	5250 11,300	3300 7,100	*4200 *9,150	2800 6,100	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 350 24,300	6550 14,050	7150 15,400	4400 9,400	5150 11,100	3200 6,900	4500 9,900	2800 6,200	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	11 250 24,050	6450 13,850	7100 15,200	4300 9,250	5150 11,050	3200 6,850	4900 10,750	3050 6,700	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	12 600 27,000	*10 800 *23,350	6500 13,950	7100 15,300	4350 9,300			5800 12,800	3600 7,950	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	6700 14,450					*6600 *14,550	4950 11,200	5600 220

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom	Unit	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5050 10,800			*4700 *10,350	4050 9,000	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	4900 10,500	*5200	3400	*4600 *10,100	3350 7,450	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7050 15,250	*7100 *15,400	4650 10,000	5250 11,250	3350 7,150	*4700 *10,350	3050 6,650	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	6600 14,150	7150 15,400	4400 9,500	5150 11,000	3250 6,900	4600 10,150	2900 6,400	8050 320
0 mm 0 in	kg lb			11 050 23,650	6350 13,650	7000 15,000	4250 9,150	5050 10,850	3150 6,750	4750 10,400	2950 6,500	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 *26,200	11 000 23,550	6300 13,550	6950 14,900	4200 9,050			5200 11,450	3250 7,100	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	12 450 26,700	*10 400 *22,500	6400 13,800	7000 15,100	4300 9,250			6300 14,000	3900 8,650	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	6700 14,450					*6700 *14,700	5800 13,200	4980 200



ISO 10567



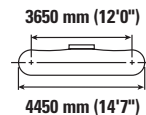
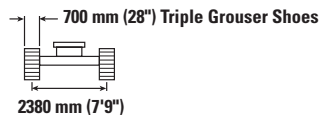
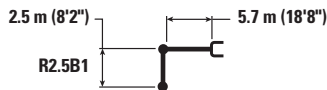
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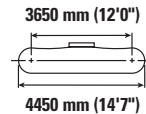
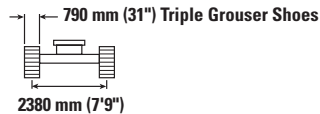
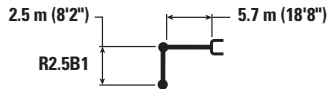
320 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		3650 mm (12'0") 4450 mm (14'7")		mm in
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
7500 mm 300 in									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in					*5800 *12,750	5100 10,900			*4700 *10,350	4100 9,100	6830 270
4500 mm 180 in			*7300 *15,800	*7300 *15,800	*6300 *13,650	4950 10,600	*5200	3450	*4600 *10,100	3400 7,500	7570 300
3000 mm 120 in			*9200 *19,800	7150 15,350	*7100 *15,400	4700 10,100	5300 11,350	3350 7,200	*4700 *10,350	3050 6,750	7960 320
1500 mm 60 in			*10 850 *23,450	6650 14,300	7250 15,550	4450 9,600	5200 11,150	3250 7,000	4650 10,250	2950 6,450	8050 320
0 mm 0 in			11 150 23,900	6400 13,800	7050 15,150	4300 9,250	5100 10,950	3200 6,850	4800 10,500	3000 6,550	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 26,450	11 100 23,800	6400 13,700	7000 15,050	4250 9,150		5250 11,550	3250 7,200	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	12 600 26,950	*10 400 *22,500	6500 13,950	7100 15,250	4350 9,350		6400 14,150	3950 8,750	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	6750 14,600				*6700 *14,700	5900 13,300	4980 200

Reach Boom Lift Capacities – Counterweight: 3.7 mt (4.1 t) – without Bucket – Heavy Lift: On



Reach Boom	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		3650 mm (12'0") 4450 mm (14'7")		mm in
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	
7500 mm 300 in									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in					*5800 *12,750	5150 11,050			*4700 *10,350	4150 9,250	6830 270
4500 mm 180 in			*7300 *15,800	*7300 *15,800	*6300 *13,650	5000 10,750	*5200	3500	*4600 *10,100	3450 7,600	7570 300
3000 mm 120 in			*9200 *19,800	7200 15,550	*7100 *15,400	4750 10,250	5350 11,550	3400 7,300	*4700 *10,350	3100 6,850	7960 320
1500 mm 60 in			*10 850 *23,450	6750 14,500	7350 15,750	4550 9,750	5250 11,300	3300 7,100	4750 10,400	3000 6,550	8050 320
0 mm 0 in			11 300 24,250	6500 14,000	7150 15,400	4350 9,400	5200 11,150	3250 6,950	4850 10,650	3050 6,650	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 26,850	11 250 24,100	6450 13,900	7100 15,250	4300 9,300		5300 11,750	3300 7,300	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	12 750 27,300	*10 400 *22,500	6550 14,150	7200 15,450	4400 9,450		6450 14,350	4000 8,900	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	6850 14,800				*6700 *14,700	5950 13,500	4980 200



ISO 10567



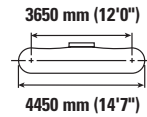
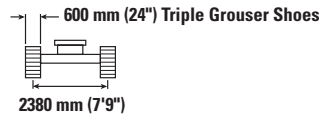
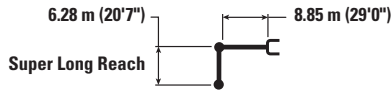
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
12 000 mm 480 in	kg											*1300	10 350
	lb											*2,850	400
10 500 mm 420 in	kg											*1200	11 660
	lb											*2,600	460
9000 mm 360 in	kg											*1150	12 660
	lb											*2,500	500
7500 mm 300 in	kg											*1100	13 410
	lb											*2,450	530
6000 mm 240 in	kg											*1100	13 970
	lb											*2,400	550
4500 mm 180 in	kg											*1100	14 340
	lb											*2,450	570
3000 mm 120 in	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	*3600	*1150	14 550
	lb			*11,900	*11,900	*12,900	*12,900	*9,600	*9,600	*7,800	*7,800	*2,500	580
1500 mm 60 in	kg					*6750	6400	*5250	4450	*4100	3300	*1200	14 600
	lb					*16,000	13,850	*11,300	9,600	*8,900	7,100	*2,600	580
0 mm 0 in	kg			*2050	*2050	*4700	*4700	*5900	4000	*4550	3000	*1300	14 490
	lb			*4,550	*4,550	*10,750	*10,750	*12,700	8,600	*9,800	6,450	*2,800	570
-1500 mm -60 in	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3700	4750	2800	*1400	14 230
	lb	*4,600	*4,600	*6,100	*6,100	*10,550	*10,550	*13,550	8,000	10,250	6,000	*3,000	560
-3000 mm -120 in	kg	*2850	*2850	*3550	*3550	*5200	*5200	6400	3600	4650	2650	*1500	13 790
	lb	*6,350	*6,350	*7,900	*7,900	*11,750	11,500	13,700	7,700	9,950	5,700	*3,300	550
-4500 mm -180 in	kg	*3700	*3700	*4450	*4450	*6100	5400	6350	3550	4600	2600	*1700	13 170
	lb	*8,200	*8,200	*9,900	*9,900	*13,750	11,550	13,600	7,600	9,850	5,600	*3,800	520
-6000 mm -240 in	kg	*4550	*4550	*5450	*5450	*7250	5500	*6150	3600	4600	2650	*2000	12 340
	lb	*10,150	*10,150	*12,200	*12,200	*16,350	11,800	*13,250	7,700	9,850	5,650	*4,500	490
-7500 mm -300 in	kg	*5500	*5500	*6600	*6600	*7300	5700	*5650	3700	*4550	2700	*2550	11 240
	lb	*12,300	*12,300	*14,850	*14,850	*15,650	12,250	*12,150	7,950	*9,800	5,800	*5,700	440
-9000 mm -360 in	kg			*8000	*8000	*6150	5950	*4850	3900	*3950	2850	*2700	9800
	lb			*17,500	*17,500	*13,100	12,850	*10,350	8,400	*8,300	6,150	*5,900	380



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* 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.

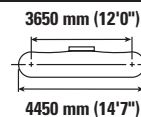
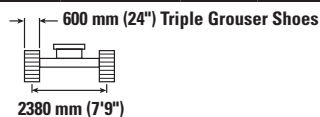
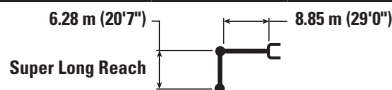
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off (continued)



	9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in	
12 000 mm 480 in	kg lb									*1300 *2,850	*1300 *2,850	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,750	*2200 *4,750					*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2000 *3,700	1950 *3,700			*1150 *2,500	*1150 *2,500	12 660 500
7500 mm 300 in	kg lb			*2250 *4,950	*2250 *4,950	*2250 *4,900	1950 4,100			*1100 *2,450	*1100 *2,450	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 5,150	*2300 *5,000	1850 3,950	*1850 *3,250	1450 3,050	*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2600 *5,600	2300 4,900	*2400 *5,250	1800 3,800	2300 *4,650	1400 2,950	*1100 *2,450	*1100 *2,450	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2750 5,900	*2800 *6,050	2150 4,600	*2550 *5,550	1700 3,600	2250 4,800	1350 2,850	*1150 *2,500	1150 *2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,450	2550 5,450	*3000 *6,500	2000 4,300	2650 5,650	1600 3,400	2200 4,650	1300 2,750	*1200 *2,600	1100 2,400	14 600 580
0 mm 0 in	kg lb	*3750 *8,050	2350 5,000	3100 6,650	1850 4,000	2550 5,450	1500 3,250	2150 4,550	1250 2,650	*1300 *2,800	1100 2,400	14 490 570
-1500 mm -60 in	kg lb	3700 8,000	2200 4,700	3000 6,450	1750 3,750	2500 5,300	1450 3,100	2100 4,450	1200 2,550	*1400 *3,000	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3600 7,750	2100 4,500	2900 6,250	1700 3,600	2450 5,200	1400 3,000	2050 *3,700	1200 2,500	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	3550 7,650	2050 4,400	2900 6,200	1650 3,550	2400 5,200	1400 2,950			*1700 *3,800	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3550 7,650	2050 4,400	2900 6,250	1650 3,600	2450 *5,150	1400 3,050			*2000 *4,500	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	3600 7,800	2100 4,550	2950 6,400	1750 3,750					*2550 *5,700	1600 3,600	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,550	2250 4,850							*2700 *5,900	2050 4,600	9800 380



ISO 10567



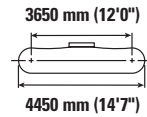
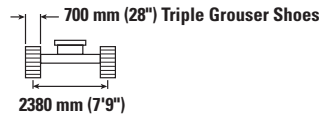
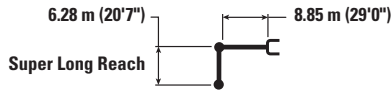
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
12 000 mm 480 in	kg lb											*1300 *2,850	*1300 *2,850	10 350 400
10 500 mm 420 in	kg lb											*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb											*1150 *2,500	*1150 *2,500	12 660 500
7500 mm 300 in	kg lb											*1100 *2,450	*1100 *2,450	13 410 530
6000 mm 240 in	kg lb											*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb											*1100 *2,450	*1100 *2,450	14 340 570
3000 mm 120 in	kg lb			*4700 *11,900	*4700 *11,900	*6050 *12,900	*6050 *12,900	*4450 *9,600	*4450 *9,600	*3600 *7,800	*3600 *7,800	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb					*6750 *16,000	6500 14,000	*5250 *11,300	4500 9,650	*4100 *8,900	3300 7,150	*1200 *2,600	1100 2,450	14 600 580
0 mm 0 in	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5900 *12,700	4050 8,700	*4550 *9,800	3050 6,500	*1300 *2,800	1100 2,400	14 490 570
-1500 mm -60 in	kg lb	*2100 *4,600	*2100 *4,600	*2750 *6,100	*2750 *6,100	*4650 *10,550	*4650 *10,550	*6250 *13,550	3750 8,100	4850 10,350	2850 6,050	*1400 *3,000	1100 2,450	14 230 560
-3000 mm -120 in	kg lb	*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,650	*6450 *13,850	3600 7,800	4700 10,100	2700 5,800	*1500 *3,300	1150 2,550	13 790 550
-4500 mm -180 in	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	5450 11,700	*6400 *13,750	3600 7,700	4650 9,950	2650 5,700	*1700 *3,800	1250 2,750	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	5550 11,950	*6150 *13,250	3650 7,800	4650 10,000	2650 5,700	*2000 *4,500	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7300 *15,650	5750 12,400	*5650 *12,150	3750 8,050	*4550 *9,800	2750 5,900	*2550 *5,700	1650 3,650	11 240 440
-9000 mm -360 in	kg lb			*8000 *17,500	*8000 *17,500	*6150 *13,100	6050 13,000	*4850 *10,350	3950 8,500	*3950 *8,300	2900 6,200	*2700 *5,900	2050 4,650	9800 380



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.

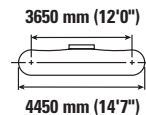
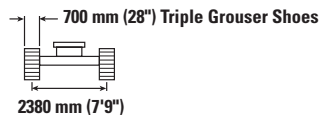
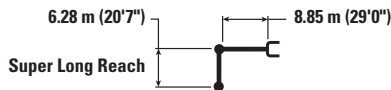
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
12 000 mm 480 in	kg lb									*1300 *2,850	*1300 *2,850	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,750	*2200 *4,750					*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2000 *3,700	1950 *3,700			*1150 *2,500	*1150 *2,500	12 660 500
7500 mm 300 in	kg lb			*2250 *4,950	*2250 *4,950	*2250 *4,900	1950 4,100			*1100 *2,450	*1100 *2,450	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 5,200	*2300 *5,000	1900 4,000	*1850 *3,250	1450 3,100	*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2600 *5,600	2300 4,950	*2400 *5,250	1800 3,850	*2300 *4,650	1450 3,000	*1100 *2,450	*1100 *2,450	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2800 5,950	*2800 *6,050	2150 4,650	*2550 *5,550	1700 3,650	2300 4,850	1350 2,900	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,450	2550 5,500	*3000 *6,500	2050 4,350	2650 5,750	1600 3,450	2200 4,750	1300 2,800	*1200 *2,600	1100 2,450	14 600 580
0 mm 0 in	kg lb	*3750 *8,050	2350 5,100	3150 6,750	1900 4,050	2600 5,550	1550 3,250	2150 4,600	1250 2,650	*1300 *2,800	1100 2,400	14 490 570
-1500 mm -60 in	kg lb	3750 8,050	2200 4,750	3050 6,500	1800 3,800	2500 5,350	1450 3,100	2100 4,500	1200 2,600	*1400 *3,000	1100 2,450	14 230 560
-3000 mm -120 in	kg lb	3650 7,850	2100 4,550	2950 6,350	1700 3,650	2450 5,250	1400 3,050	2100 *3,700	1200 2,550	*1500 *3,300	1150 2,550	13 790 550
-4500 mm -180 in	kg lb	3600 7,750	2100 4,450	2900 6,250	1700 3,600	2450 5,250	1400 3,000			*1700 *3,800	1250 2,750	13 170 520
-6000 mm -240 in	kg lb	3600 7,750	2100 4,450	2950 6,300	1700 3,650	2450 *5,150	1450 3,100			*2000 *4,500	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	3650 7,900	2150 4,600	3000 *6,450	1750 3,800					*2550 *5,700	1650 3,650	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,550	2250 4,900							*2700 *5,900	2050 4,650	9800 380



ISO 10567



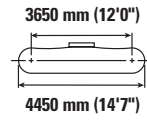
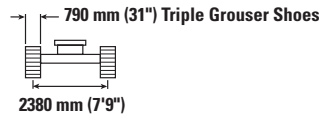
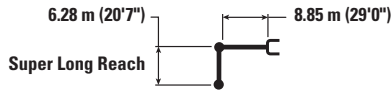
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
12 000 mm 480 in	kg lb											*1300 *2,850	*1300 *2,850	10 350 400
10 500 mm 420 in	kg lb											*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb											*1150 *2,500	*1150 *2,500	12 660 500
7500 mm 300 in	kg lb											*1100 *2,450	*1100 *2,450	13 410 530
6000 mm 240 in	kg lb											*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb											*1100 *2,450	*1100 *2,450	14 340 570
3000 mm 120 in	kg lb			*4700 *11,900	*4700 *11,900	*6050 *12,900	*6050 *12,900	*4450 *9,600	*4450 *9,600	*3600 *7,800	*3600 *7,800	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb					*6750 *16,000	6600 14,200	*5250 *11,300	4550 9,800	*4100 *8,900	3350 7,250	*1200 *2,600	1150 2,500	14 600 580
0 mm 0 in	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5900 *12,700	4100 8,850	*4550 *9,800	3100 6,600	*1300 *2,800	1150 2,450	14 490 570
-1500 mm -60 in	kg lb	*2100 *4,600	*2100 *4,600	*2750 *6,100	*2750 *6,100	*4650 *10,550	*4650 *10,550	*6250 *13,550	3800 8,200	*4850 *10,450	2850 6,150	*1400 *3,000	1150 2,500	14 230 560
-3000 mm -120 in	kg lb	*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,750	*6450 *13,900	3700 7,950	4750 10,250	2750 5,900	*1500 *3,300	1200 2,600	13 790 550
-4500 mm -180 in	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	5550 11,900	*6400 *13,800	3650 7,850	4700 10,100	2700 5,800	*1700 *3,800	1250 2,800	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	5650 12,150	*6150 *13,250	3700 7,950	4700 10,150	2700 5,800	*2000 *4,500	1400 3,150	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7300 *15,650	5850 12,600	*5650 *12,150	3800 8,200	*4550 *9,800	2800 6,000	*2550 *5,700	1650 3,700	11 240 440
-9000 mm -360 in	kg lb			*8000 *17,500	*8000 *17,500	*6150 *13,100	6100 *13,100	*4850 *10,350	4000 8,600	*3950 *8,300	2900 6,300	*2700 *5,900	2100 4,700	9800 380



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.

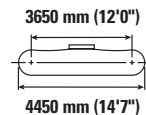
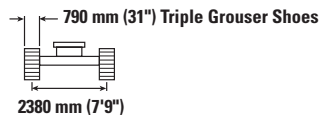
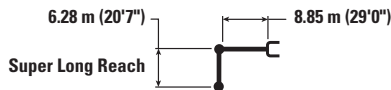
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (5.2 t) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
12 000 mm 480 in	kg lb									*1300 *2,850	*1300 *2,850	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,750	*2200 *4,750					*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2000 *3,700	2000 *3,700			*1150 *2,500	*1150 *2,500	12 660 500
7500 mm 300 in	kg lb			*2250 *4,950	*2250 *4,950	*2250 *4,900	1950 4,200			*1100 *2,450	*1100 *2,450	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 *5,200	*2300 *5,000	1900 4,100	*1850 *3,250	1500 3,150	*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2600 *5,600	2350 5,000	*2400 *5,250	1850 3,900	*2300 *4,650	1450 3,050	*1100 *2,450	*1100 *2,450	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2800 6,050	*2800 *6,050	2200 4,700	*2550 *5,550	1750 3,700	2300 4,950	1400 2,950	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,450	2600 5,600	*3000 *6,500	2050 4,400	*2700 5,800	1650 3,500	2250 4,800	1350 2,850	*1200 *2,600	1150 2,500	14 600 580
0 mm 0 in	kg lb	*3750 *8,050	2400 5,150	3200 6,850	1950 4,100	2600 5,600	1550 3,350	2200 4,700	1300 2,700	*1300 *2,800	1150 2,450	14 490 570
-1500 mm -60 in	kg lb	3800 8,200	2250 4,850	3100 6,600	1800 3,900	2550 5,450	1500 3,200	2150 4,600	1250 2,650	*1400 *3,000	1150 2,500	14 230 560
-3000 mm -120 in	kg lb	3700 7,950	2150 4,650	3000 6,450	1750 3,750	2500 5,350	1450 3,100	2150 *3,700	1200 2,600	*1500 *3,300	1200 2,600	13 790 550
-4500 mm -180 in	kg lb	3650 7,850	2100 4,550	2950 6,400	1700 3,700	2500 5,350	1450 3,050			*1700 *3,800	1250 2,800	13 170 520
-6000 mm -240 in	kg lb	3650 7,900	2100 4,550	3000 6,400	1750 3,700	2500 *5,150	1450 3,150			*2000 *4,500	1400 3,150	12 340 490
-7500 mm -300 in	kg lb	3750 *8,000	2200 4,700	3050 *6,450	1800 3,850					*2550 *5,700	1650 3,700	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,550	2300 5,000							*2700 *5,900	2100 4,700	9800 380



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.

320 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Counterweight			
		mm	in	m ³	yd ³	kg	lb		%	3.7 mt (4.1 t)		4.7 mt (5.2 t)
										HD Reach Boom		SLR Boom
									HD R2.5 (8'2")	HD R2.9 (9'6")	6.28A (20'7")	
Pin-On (No Quick Coupler)												
General Duty (GD)	B	1050	42	1.00	1.31	734	1,619	100	●	●		
Heavy Duty (HD)	B	1050	42	1.00	1.31	880	1,940	100	●	⊙		
	B	1200	48	1.19	1.56	918	2,024	100	⊖	⊖		
Heavy Duty (HDV)	B	1350	54	1.40	1.83	1012	2,230	100	○	X		
Severe Duty (SDV)	B	1200	48	1.20	1.57	1019	2,247	90	⊙	⊖		
Severe Duty – Power V Edge (SDPV)	B	1350	54	1.56	2.04	1200	2,646	90	○	◇		
General Duty (GD)	312	900	36	0.53	0.69	403	888	100			◇	
Ditch Cleaning (DC) Long Reach	312	1200	48	0.57	0.74	386	851	100			◇	
Maximum load with pin-on (payload + bucket)								kg	2955	2735	880	
								lb	6,515	6,030	1,940	
	Linkage	Width		Capacity		Weight		Fill	Counterweight			
		mm	in	m ³	yd ³	kg	lb		%	3.7 mt (4.1 t)		4.7 mt (5.2 t)
										HD Reach Boom		SLR Boom
									HD R2.5 (8'2")	HD R2.9 (9'6")	6.28A (20'7")	
With Cat Pin Grabber Coupler												
General Duty (GD)	B	1050	42	1.00	1.31	734	1,619	100	⊙	⊖		
Heavy Duty (HD)	B	1050	42	1.00	1.31	880	1,940	100	⊖	⊖		
	B	1200	48	1.19	1.56	918	2,024	100	○	○		
Heavy Duty (HDV)	B	1350	54	1.40	1.83	1012	2,230	100	◇	◇		
Severe Duty (SDV)	B	1200	48	1.20	1.57	1019	2,247	90	○	○		
Severe Duty – Power V Edge (SDPV)	B	1350	54	1.56	2.04	1200	2,646	90	◇	X		
Maximum load with coupler (payload + bucket)								kg	2533	2313	458	
								lb	5,585	5,100	1,010	

The above loads are in compliance with hydraulic excavator standard EN474-5:2006+A3:2013, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

Caterpillar recommends using appropriate work tools to maximize the value customers receive from our products. Use of work tools, including buckets, which are outside of Caterpillar's recommendations or specifications for weight, dimensions, flows, pressures, etc. may result in less-than-optimal performance, including but not limited to reductions in production, stability, reliability, and component durability. Improper use of a work tool resulting in sweeping, prying, twisting and/or catching of heavy loads will reduce the life of the boom and stick.

320 Hydraulic Excavator Specifications

Attachments Offering Guide

PIN-ON ATTACHMENTS

Undercarriage		Long	
Counterweight		3.7 mt (4.1 t)	
Boom Type		HD Reach Boom	
Stick Length		HD 2.5 m (8'2")	HD 2.9 m (9'6")
Hydraulic Hammers	H115Es	✓	✓
	H120Es	✓	✓
	H130Es	✓	✓
	B20	✓	✓
	B20 Side-mount	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓
	MP318 D Jaw	✓	✓
	MP318 P Jaw	✓	✓
	MP318 S Jaw	✓	✓
	MP318 U Jaw	✓	✓
Pulverizers	P215	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓
Orange Peel Grapples		✓	✓
Contractors' Grapples		✓	✓
Trash Grapples		✓	✓
Thumbs		✓	✓
Rakes		✓	✓
Rippers		✓	✓
Cat Pin Grabber Couplers		✓	✓

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Long	
Counterweight		3.7 mt (4.1 t)	
Boom Type		HD Reach Boom	
Stick Length		HD 2.5 m (8'2")	HD 2.9 m (9'6")
Hydraulic Hammers	H115Es	✓	✓
	H120Es	✓	✓
	H130Es	✓	✓
	B20	✓	✓
	B20 Side-mount	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓*
	MP318 D Jaw	✓*	✓*
	MP318 P Jaw		
	MP318 S Jaw	✓	✓*
	MP318 U Jaw	✓*	
Pulverizers	P215	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Mobile Scrap and Demolition Shears	S3025		
Demolition and Sorting Grapples	G315B	✓*	✓*
Rakes		✓	✓
Rippers		✓	✓

BOOM-MOUNT ATTACHMENTS

Undercarriage		Long	
Counterweight		3.7 mt (4.1 t)	
Boom Type		HD Reach Boom	
Mobile Scrap and Demolition Shears	S2050		✓
	S3035		✓

*Working range front only.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ENGINE			UNDERCARRIAGE AND STRUCTURES		
Cat C7.1 Single Turbo	✓		Tie-down points on base frame	✓	
Three selectable power modes	✓		Segmented track guiding guard	✓	
One-touch low idle with automatic engine speed control	✓		Full length track guiding guard		✓
Automatic engine idle shutdown	✓		Standard bottom guards	✓	
4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓		Heavy-duty bottom guards		✓
52° C (125° F) high-ambient cooling capacity	✓		Standard swivel guard	✓	
Starting capability for -18° C (0° F)	✓		Standard travel motor guards	✓	
Double element air filter with integrated precleaner	✓		Heavy-duty travel motor guards		✓
On-demand electric cooling fans with auto-reverse function	✓		Grease lubricated track links	✓	
Biodiesel capability up to B20	✓		3700 kg (4.1 t) counterweight	✓	
HYDRAULIC SYSTEM			4700 kg (5.2 t) counterweight for Super Long Reach		✓
Boom and stick regeneration circuits	✓		Standard swing frame	✓	
Electronic main control valve	✓		Semi-HD swing frame for SLR		✓
Auto warm up	✓		Standard swing bearing	✓	
Automatic two-speed travel	✓		Standard base frame with HD track rollers and standard carrier rollers	✓	
Boom and stick drift reduction valve	✓		Final drive with standard travel motor	✓	
Element type main hydraulic filter	✓		BOOM, STICKS AND LINKAGES		
Slider joysticks	✓		700 mm (28") triple grouser track shoes	✓	
Tandem type electronic main pump	✓		600 mm (24") triple grouser track shoes		✓
Hammer return filter circuit		✓	790 mm (31") triple grouser track shoes		✓
Tool Control (two pumps, one/two way high-pressure flow)		✓	5.7 m (18'8") HD Reach boom + 2.9 m (9'6") HD stick	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	5.7 m (18'8") HD Reach boom + 2.5 m (8'2") HD stick		✓
			Super Long Reach 8.85 m (29'0") boom		✓
			Super Long Reach 6.28 m (20'7") stick		✓
			Bucket linkage, B1-family with lifting eye	✓	
			Bucket linkage, A-family with lifting eye, SLR		✓

(continued on next page)

320 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
ELECTRICAL SYSTEM			SERVICE AND MAINTENANCE		
Machine electronic control module (×2)	✓		Sampling ports for Scheduled Oil Sampling (S·O·S SM)	✓	
1,000 CCA maintenance-free batteries (×2)	✓		Preventative Maintenance ready (QuickEvac TM)		✓
Centralized electrical disconnect switch	✓		Grouped location for engine oil and fuel filters	✓	
Programmable time-delay LED working lights	✓		Ground level second dipstick for engine oil	✓	
LED chassis light, LH and RH boom lights for Reach and SLR, cab lights – 850 lumens	✓		Radiator screen		✓
LED chassis light, LH and RH boom lights for Reach and SLR, cab lights with cover and rain protector – 850 lumens, for use with 360° visibility		✓	SAFETY AND SECURITY		
CAT CONNECT TECHNOLOGY			Rearview camera and right-hand side mirror	✓	
Cat Product Link TM	✓		Rear and right-side-view cameras		✓
2D E-fence	✓		360° visibility		✓
Cat GRADE with 2D (not available on SLR)	✓		Lift Assist	✓	
Cat GRADE with Advanced 2D (not available on SLR)		✓	Cat asset tracker	✓	
Cat GRADE with 3D (not available on SLR)		✓	Neutral lever (lock out) for all controls	✓	
Cat Assist:	✓		Anti-skid plate and countersunk bolts on service platform	✓	
– Boom Assist			Ground-level accessible secondary engine shutoff switch in cab	✓	
– Bucket Assist			Bluetooth [®] receiver	✓	
– Swing Assist			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
– Grade Assist			Travel alarm	✓	
Cat Payload:	✓				
– Payload Information					
– Static Weigh					
– Auto Calibration					
Remote Flash capability	✓				
Remote Troubleshoot capability	✓				

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper for 70/30 with washer
- LH/RH electrical pedal for tool control
- Rain protector plus cab light cover
- Seat belt, retractable (75 mm/3 in width)
- Polycarbonate roof hatch kit (comfort cab)

HYDRAULIC

- Tool Control (two pumps, one/two way high-pressure flow)
- Common Quick Coupler Circuit for Cat Pin Grabber

SAFETY AND SECURITY

- Bluetooth key fob

ELECTRICAL

- Jump start wiring
- LED premium lighting package

GUARDS

- Side rubber bumper
- FOGS (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

320 Cab Options

Cab Options

	Comfort	Deluxe
ROPS, standard sound suppression	●	●
High-resolution 203 mm (8") LCD touch screen monitor	●	●
High-resolution 203 mm (8") LCD touch screen monitor + additional monitor (only for use with Cat GRADE with Advanced 2D or Cat GRADE with 3D)	○	○
High-resolution 254 mm (10") LCD touch screen monitor (only for use with 360° visibility)	○	○
High-resolution 254 mm (10") LCD touch screen monitor + additional monitor (only for use with 360° visibility and Cat GRADE with Advanced 2D or Cat GRADE with 3D)	○	○
Automatic bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
Height-adjustable console, three steps with tool	●	X
Height-adjustable console, infinite with no tool	X	●
Mechanically-adjustable seat suspension	●	X
Air-adjustable seat suspension	X	●
51 mm (2") seat belt	●	●
Seat heater	X	●
Fixed left-side console	●	X
Tilt-up left-side console	X	●
Bluetooth integrated radio with USB ports	●	●
12V DC outlets	●	●
Document storage	●	●
Cup and bottle holders	●	●
Two-piece front window, openable	●	●
Upper radial wiper with 70/30 with washer	●	●
Steel hatch, openable	●	X
Polycarbonate skylight hatch, openable	X	●
LED dome and lower interior lights	●	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	○
Rain protector and cab light covers (only for use with 360° visibility)	X	●
Beacon ready	●	●
Washable floor mat	●	●

● Standard

○ Optional

X Not available



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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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AEXQ2221-01 (02-2019)
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(South America/Brazil)

