



# 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 <sup>3</sup>

- The 320 meets U.S. EPA Tier 3 and EU Stage IIIA equivalent emission standards.
- 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	11.3 rpm	
Maximum Swing Torque	74 kN·m	54,440 lbf·ft

### Weights

Operating Weight	22 500 kg	49,600 lb
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- Long undercarriage, HD Reach boom, HD R2.9 (9'6") stick, 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) HD bucket, 790 mm (31") triple grouser shoes, 3.7 mt (4.1 t) counterweight.

### Track

Standard Track Shoe Width	600 mm	24 in
Optional Track Shoe 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				790 mm (31") Triple Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi
<b>3.7 mt (4.1 t) Counterweight Base Machine</b>								
HD Reach Boom + HD R2.9 (9'6") Stick + 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) HD Bucket	21 800	48,100	45.3	6.6	22 500	49,600	35.5	5.2

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

# 320 Hydraulic Excavator Specifications

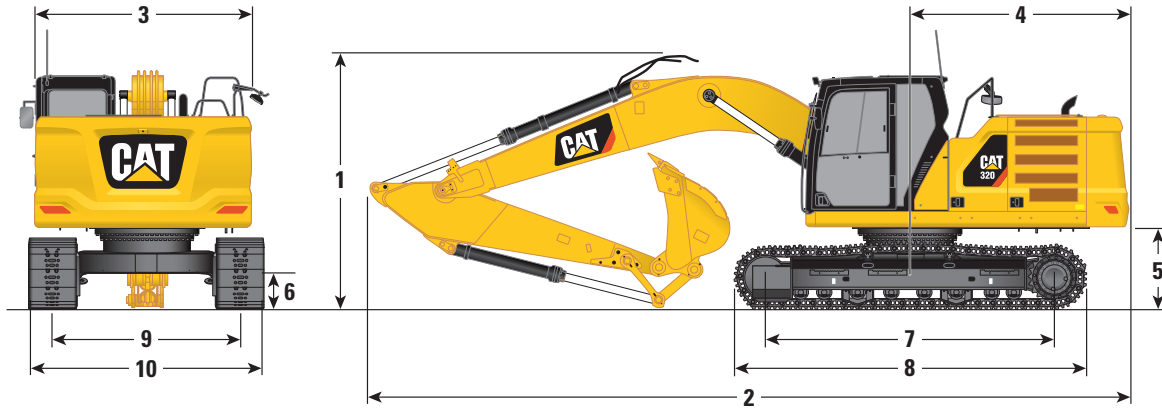
## Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [4.1 t] counterweight, standard swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, with boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 380	31,700
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2690	5,900
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
4.2 mt (4.6 t) Counterweight	4200	9,300
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	4390	9,700
HD Base Frame with SD Track Rollers and Standard Carrier Rollers	4690	10,300
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 <sup>3</sup> (1.56 yd <sup>3</sup> ) HD	940	2,100
0.57 m <sup>3</sup> (0.74 yd <sup>3</sup> ) Ditch Cleaning	390	850
0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) GD	400	890

# 320 Hydraulic Excavator Specifications

## 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")

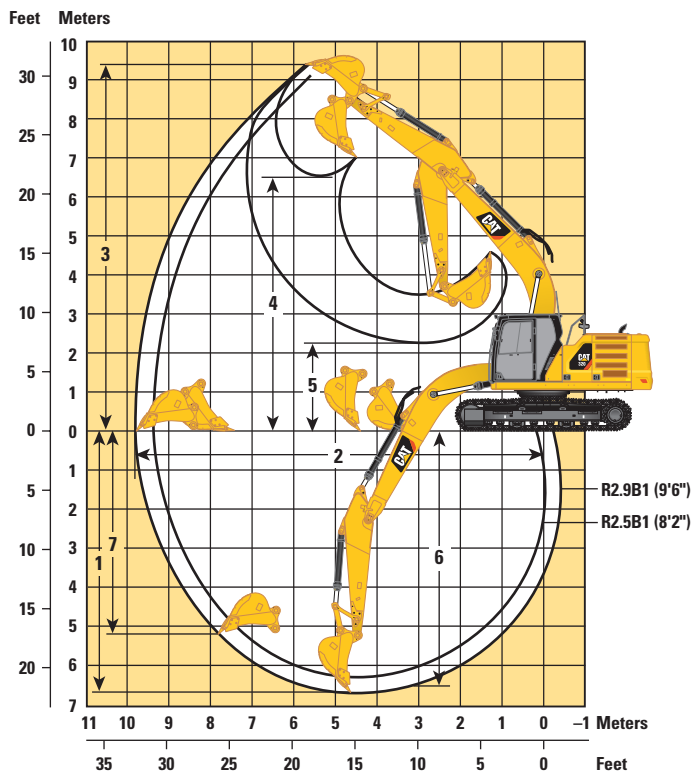
**SLR Stick**  
6.28A (20'7")

	HD Reach Boom 5.7 m (18'8")	SLR Boom 8.85 m (29'0")
	HD Reach Sticks R2.9B1 (9'6")	SLR Stick 6.28A (20'7")
<b>1 Machine Height:</b>		
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"
<b>2 Machine Length:</b>		
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"
<b>3 Upperframe Width without Walkways</b>	2780 mm 9'1"	2780 mm 9'1"
<b>4 Tail Swing Radius</b>	2830 mm 9'3"	2830 mm 9'3"
<b>5 Counterweight Clearance</b>	1050 mm 3'5"	1050 mm 3'5"
<b>6 Ground Clearance</b>	470 mm 1'7"	470 mm 1'7"
<b>7 Length to Center of Rollers</b>	3650 mm 12'0"	3650 mm 12'0"
<b>8 Track Length</b>	4450 mm 14'7"	4450 mm 14'7"
<b>9 Track Gauge</b>	2380 mm 7'9"	2380 mm 7'9"
Track Width:		
600 mm (24") Shoes	600 mm 24"	600 mm 24"
790 mm (31") Shoes	790 mm 31"	790 mm 31"
<b>10 Undercarriage Width (with steps/without steps):</b>		
600 mm (24") Shoes	2980 mm 9'9"	2980 mm 9'9"
790 mm (31") Shoes	3170 mm 10'5"	3170 mm 10'5"
Bucket Type	HD	GD
Bucket Capacity	1.19 m <sup>3</sup> 1.56 yd <sup>3</sup>	0.53 m <sup>3</sup> 0.69 yd <sup>3</sup>
Bucket Tip Radius	1570 mm 5'2"	1230 mm 4'0"

# 320 Hydraulic Excavator Specifications

## 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")**

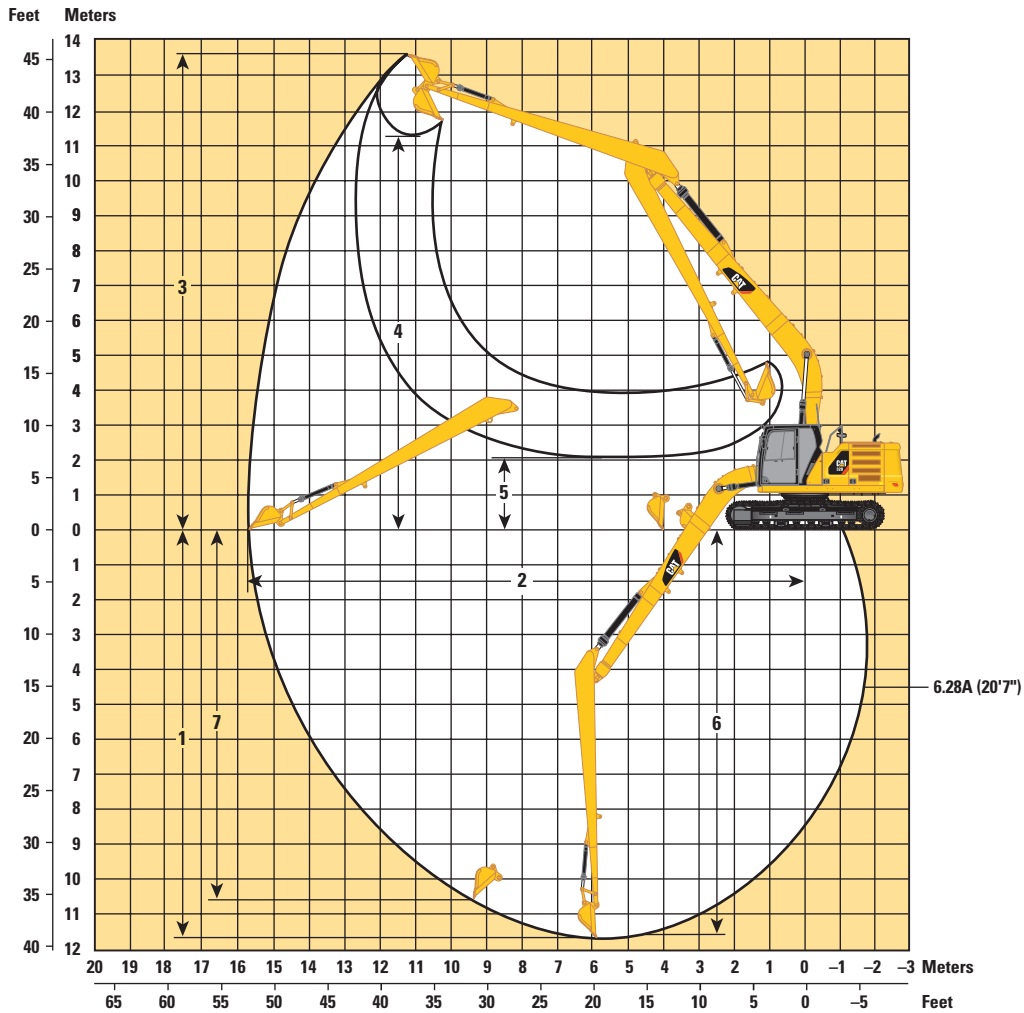
**R2.5B1 (8'2")**

	R2.9B1 (9'6")	R2.5B1 (8'2")
<b>1</b> Maximum Digging Depth	6720 mm	22'1"
<b>2</b> Maximum Reach at Ground Line	9860 mm	32'4"
<b>3</b> Maximum Cutting Height	9370 mm	30'9"
<b>4</b> Maximum Loading Height	6490 mm	21'4"
<b>5</b> Minimum Loading Height	2170 mm	7'1"
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
<b>7</b> 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 <sup>3</sup>	1.56 yd <sup>3</sup>
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")

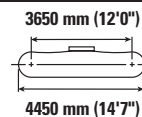
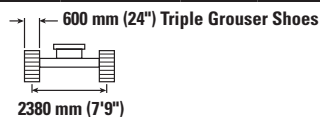
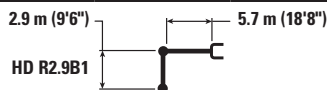
### Stick Option

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 <sup>3</sup>	0.69 yd <sup>3</sup>
Bucket Tip Radius	1230 mm	40"

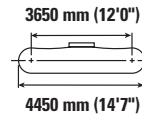
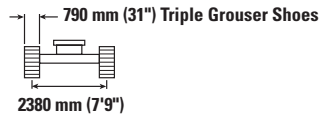
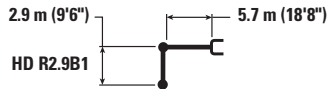
# 320 Hydraulic Excavator Specifications

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
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	6550 14,100					*6600 *14,550	4850 10,900	5600 220

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
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	5200 11,200			*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



ISO 10567



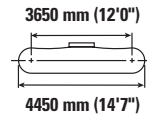
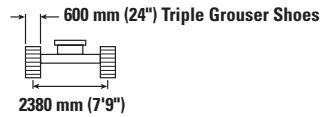
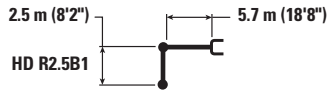
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

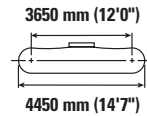
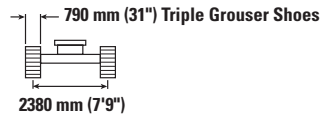
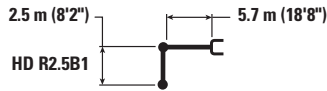
# 320 Hydraulic Excavator Specifications

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



Boom Length		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		Track Width		mm in
		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									*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

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



Boom Length		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		Track Width		mm in
		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									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5150 11,050			*4700 *10,350	4150 9,250	6830 270
4500 mm 180 in	kg lb			*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	kg lb			*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	kg lb			*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	kg lb			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.

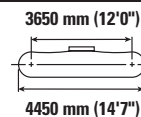
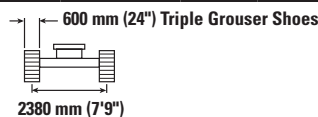
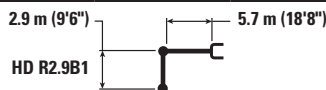
Lift capacity stays with ±5% for all available track shoes.

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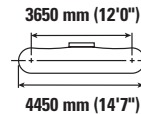
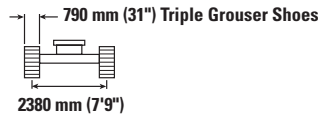
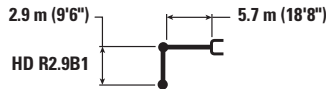
# 320 Hydraulic Excavator Specifications

## HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
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	*5350 11,600			*3900 *8,650	3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5250 11,250	*5550 *12,150	3700 7,900	*3850 *8,450	3300 7,300	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7650 16,450	*6750 *14,650	5000 10,750	5550 11,950	3600 7,700	*3950 *8,650	3000 6,650	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	7100 15,300	7600 16,300	4750 10,200	5400 11,650	3450 7,400	*4200 *9,150	2900 6,350	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 450 *24,750	6800 14,650	7400 15,850	4550 9,800	5300 11,450	3350 7,250	*4600 *10,150	2950 6,450	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 550 *24,750	6700 14,450	7300 15,650	4500 9,650	5300 11,350	3350 7,150	5050 11,100	3200 7,000	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	13 100 28,100	*10 800 *23,350	6750 14,550	7350 15,750	4500 9,700			5950 13,200	3750 8,300	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	7000 15,050					*6600 *14,550	5150 11,650	5600 220

## HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
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	*5350 *11,750			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5350 11,500	*5550 *12,150	3750 8,050	*3850 *8,450	3400 7,500	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7800 16,800	*6750 *14,650	5100 11,000	5700 12,200	3650 7,850	*3950 *8,650	3100 6,800	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	7250 15,650	*7700 *16,650	4850 10,450	5550 11,950	3550 7,600	*4200 *9,150	2950 6,550	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 450 *24,750	6950 15,000	7550 16,250	4650 10,050	5450 11,700	3450 7,400	*4600 *10,150	3000 6,650	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 550 *25,000	6850 14,800	7450 16,050	4600 9,900	5400 11,650	3400 7,350	5150 11,350	3250 7,200	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	13 400 28,750	*10 800 *23,350	6950 14,900	7500 16,150	4600 9,950			6100 13,500	3850 8,500	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	7150 15,400					*6600 *14,550	5300 11,900	5600 220



ISO 10567



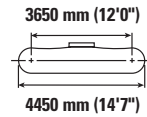
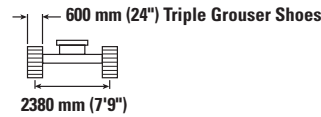
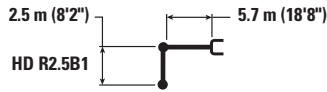
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

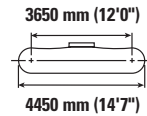
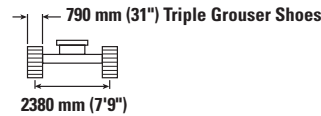
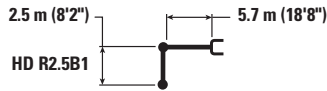
# 320 Hydraulic Excavator Specifications












## HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5350 11,450			*4700 *10,350	4300 9,600	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	5200 11,150	*5200 3650		*4600 *10,100	3600 7,900	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7500 16,150	*7100 *15,400	4950 10,650	5500 11,850	3550 7,600	*4700 *10,350	3250 7,100	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	7000 15,100	7550 16,200	4700 10,150	5400 11,650	3450 7,400	4850 10,700	3100 6,850	8050 320
0 mm 0 in	kg lb			*11 600 24,950	6800 14,600	7350 15,850	4550 9,800	5350 11,450	3400 7,250	5000 11,000	3150 6,950	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 *27,200	*11 450 *24,750	6750 14,500	7300 15,700	4500 9,700			5500 12,100	3450 7,600	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	13 250 28,400	*10 400 *22,500	6850 14,700	7400 15,900	4600 9,900			6650 14,800	4150 9,250	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	7100 15,400					*6700 *14,700	6200 14,050	4980 200

## HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*5100 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5450 11,650			*4700 *10,350	4400 9,800	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	5300 11,350	*5200 3700		*4600 *10,100	3650 8,100	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7650 16,500	*7100 *15,400	5050 10,850	5650 12,150	3650 7,800	*4700 *10,350	3300 7,300	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	7150 15,450	7700 16,600	4800 10,400	5550 11,900	3550 7,600	5000 10,950	3200 7,000	8050 320
0 mm 0 in	kg lb			*11 600 *25,100	6950 14,950	7550 16,200	4650 10,050	5450 11,750	3450 7,450	5100 11,250	3250 7,150	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 *27,200	*11 450 *24,750	6900 14,850	7500 16,100	4600 9,950			5600 12,350	3550 7,800	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	13 550 29,050	*10 400 *22,500	7000 15,050	7550 16,300	4700 10,100			6800 *15,150	4250 9,450	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	7300 15,700					*6700 *14,700	6350 14,350	4980 200



ISO 10567



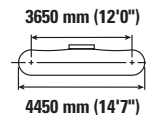
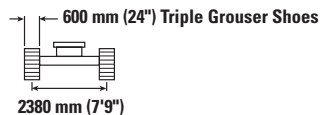
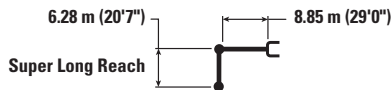
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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



	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	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb		
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	6400 13,850	*5250 *11,300	4450 9,600	*4100 *8,900	3300 7,100	*1200 *2,600	1100 2,400	14 600 580
0 mm 0 in	kg lb			*2050 *4,550	*2050 *4,550	*4700 *10,750	*4700 *10,750	*5900 *12,700	4000 8,600	*4550 *9,800	3000 6,450	*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	3700 8,000	4750 10,250	2800 6,000	*1400 *3,000	1100 2,400	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 *11,500	6400 13,700	3600 7,700	4650 9,950	2650 5,700	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	*3700 *8,200	*3700 *8,200	*4450 *9,900	*4450 *9,900	*6100 *13,750	5400 11,550	6350 13,600	3550 7,600	4600 9,850	2600 5,600	*1700 *3,800	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,150	*4550 *10,150	*5450 *12,200	*5450 *12,200	*7250 *16,350	5500 11,800	*6150 *13,250	3600 7,700	4600 9,850	2650 5,650	*2000 *4,500	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,300	*5500 *12,300	*6600 *14,850	*6600 *14,850	*7300 *15,650	5700 12,250	*5650 *12,150	3700 7,950	*4550 *9,800	2700 5,800	*2550 *5,700	1600 3,600	11 240 440
-9000 mm -360 in	kg lb			*8000 *17,500	*8000 *17,500	*6150 *13,100	5950 12,850	*4850 *10,350	3900 8,400	*3950 *8,300	2850 6,150	*2700 *5,900	2050 4,600	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.

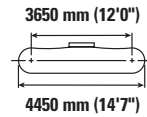
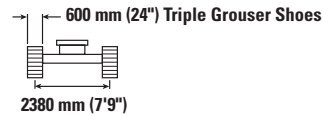
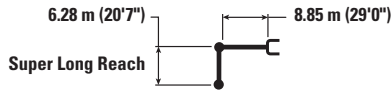
Lift capacity stays with  $\pm 5\%$  for all available track shoes.













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



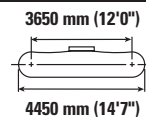
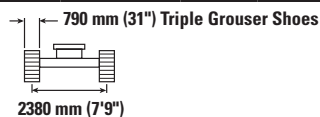
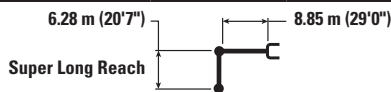
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

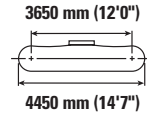
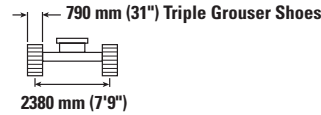
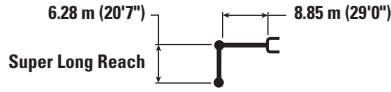
Lift capacity stays with ±5% for all available track shoes.













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 <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	3.7 mt (4.1 t)		4.2 mt (4.6 t)		4.7 mt (5.2 t)
										HD Reach Boom				SLR Boom
									HD R2.5 (8'2")	HD R2.9 (9'6")	HD R2.5 (8'2")	HD R2.9 (9'6")	6.28A (20'7")	
<b>Pin-On (No Quick Coupler)</b>														
General Duty (GD)	B	1150	46	0.90	1.18	780	1,718	100	●	●	●	●		
	B	1250	50	1.00	1.31	814	1,793	100	●	⊙	●	●		
General Duty Excavation (GDX)	B	1400	56	1.14	1.49	863	1,902	100	⊙	X	●	X		
Heavy Duty (HD)	B	1050	42	1.00	1.31	888	1,956	100	●	⊙	●	●		
	B	1200	49	1.19	1.56	942	2,076	100	⊖	⊖	⊙	⊖		
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	3145	2915	880
									lb	6,515	6,030	6,934	6,426	1,940
	Linkage	Width		Capacity		Weight		Fill	Counterweight					
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	3.7 mt (4.1 t)		4.2 mt (4.6 t)		4.7 mt (5.2 t)
										HD Reach Boom				SLR Boom
									HD R2.5 (8'2")	HD R2.9 (9'6")	HD R2.5 (8'2")	HD R2.9 (9'6")	6.28A (20'7")	
<b>With Cat Pin Grabber Coupler</b>														
General Duty (GD)	B	1150	46	0.90	1.18	780	1,718	100	⊙	⊖	●	⊙		
	B	1250	50	1.00	1.31	814	1,793	100	⊙	⊖	⊙	⊙		
General Duty Excavation (GDX)	B	1400	56	1.14	1.49	863	1,902	100	⊖	○	⊖	⊖		
Heavy Duty (HD)	B	1050	42	1.00	1.31	888	1,956	100	⊖	⊖	⊙	⊖		
	B	1200	49	1.19	1.56	942	2,076	100	○	○	⊖	○		
Maximum load with coupler (payload + bucket)									kg	2533	2313	2723	2493	458
									lb	5,585	5,100	6,004	5,497	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/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)
- ◇ 900 kg/m<sup>3</sup> (1,500 lb/yd<sup>3</sup>)
- 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

## Work Tool Offering Guide\*

Boom Type		HD Reach Boom			
Stick Size		HD R2.5 (8'2")	HD R2.9 (9'6")	HD R2.5 (8'2")	HD R2.9 (9'6")
Long Undercarriage		3.7 mt (4.1 t) Counterweight		4.2 mt (4.6 t) Counterweight	
Hydraulic Hammer	H115E S	●	●	●	●
	H120 GC	●	●	●	●
	H120 GC S	●	●	●	●
	H120E S	●	●	●	●
	H130E S	●	●	●	●
Compactor (Vibratory Plate)	CVP110	●	●	●	●

\*Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

● Match



## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>ENGINE</b>			<b>UNDERCARRIAGE AND STRUCTURES</b>		
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) with jump start receptacle	✓		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	✓	
<b>HYDRAULIC SYSTEM</b>			4200 kg (4.6 t) counterweight for heavy-duty		✓
Boom and stick regeneration circuits	✓		4700 kg (5.2 t) counterweight for Super Long Reach		✓
Electronic main control valve	✓		Standard swing frame	✓	
Auto warm up	✓		Semi-HD swing frame for HD and SLR		✓
Automatic two-speed travel	✓		Standard swing bearing	✓	
Boom and stick drift reduction valve	✓		HD base frame with SD track rollers and standard carrier rollers		✓
Element type main hydraulic filter	✓		Standard base frame with HD track rollers and standard carrier rollers	✓	
Slider joysticks	✓		Final drive with standard travel motor	✓	
Tandem type electronic main pump	✓		<b>BOOM, STICKS AND LINKAGES</b>		
Hammer return filter circuit		✓	600 mm (24") triple grouser track shoes		✓
Tool Control (two pumps, one/two way high-pressure flow)		✓	790 mm (31") triple grouser track shoes	✓	
Basic Tool Control (one pump, one way high-pressure flow)		✓	5.7 m (18'8") HD Reach boom + 2.9 m (9'6") HD stick	✓	
Medium pressure circuit		✓	5.7 m (18'8") HD Reach boom + 2.5 m (8'2") HD stick		✓
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	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, B1-family without lifting eye		✓
			Bucket linkage, A-family with or without 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
<b>ELECTRICAL SYSTEM</b>			<b>SERVICE AND MAINTENANCE</b>		
1,000 CCA maintenance-free batteries (×2)	✓		Sampling ports for Scheduled Oil Sampling (S·O·S <sup>SM</sup> )	✓	
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		✓
<b>CAT CONNECT TECHNOLOGY</b>			<b>SAFETY AND SECURITY</b>		
Cat Product Link™	✓		Rearview camera and right-hand side mirror	✓	
2D E-fence	✓		Rear and right-side-view camera		✓
Cat GRADE with 2D (not available on SLR)	✓		360° visibility		✓
Cat GRADE with Advanced 2D (not available on SLR)		✓	Lift Assist	✓	
Cat GRADE with 3D (not available on SLR)		✓	Cat asset tracker	✓	
Cat Assist:	✓		Neutral lever (lock out) for all controls	✓	
– Boom Assist			Anti-skid plate and countersunk bolts on service platform	✓	
– Bucket Assist			Ground-level accessible secondary engine shutoff switch in cab	✓	
– Swing Assist			Bluetooth® receiver	✓	
– Grade Assist			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
Cat Payload:	✓		Travel alarm		✓
– Payload Information			Cab mirror for RH side track edge		✓
– Static Weigh			Handholds inside radiator compartment		✓
– 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
- RH electrical pedal for tool control
- Rain protector plus cab light cover
- Polycarbonate roof hatch kit (comfort cab)

### HYDRAULIC

- Tool Control (two pumps, one/two way high-pressure flow)
- Basic Tool Control (one pump, one way high-pressure flow)
- Medium pressure circuit
- 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

# 320 Cab Options

## Cab Options

	Comfort	Deluxe
ROPS, standard sound suppression	●	●
High-resolution 203 mm (8") LCD touchscreen monitor	●	●
High-resolution 203 mm (8") LCD touchscreen monitor + additional monitor (only for use with Cat GRADE with Advanced 2D or Cat GRADE with 3D)	○	○
High-resolution 254 mm (10") LCD touchscreen monitor (only for use with 360° visibility)	○	○
High-resolution 254 mm (10") LCD touchscreen 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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AEXQ2219-02 (02-2019)  
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