



# 320

## Hydraulic Excavator

# Technical Specifications

### Engine

Engine Model	Cat® C7.1 ACERT™	
Net Power (ISO 9249)	117 kW	157 hp
Net Power (SAE J1349)	117 kW	157 hp
Gross Power (ISO 14396/SAE J1995)	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 China Nonroad Stage III emission standards.
- Recommended for use up to 4500 m (14,764 ft) altitude with engine power derate above 3000 m (9,842.5 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.

### Engine rpm

Operation	1,650 rpm
Travel	1,800 rpm

### Swing Mechanism

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

### Weights

Operating Weight	22 000 kg	48,500 lb
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- HD Reach boom, HD R2.9 (9'6") stick, HD 1.0 m<sup>3</sup> (1.1 yd<sup>3</sup>) bucket and 600 mm (24") triple grouser shoes, 4.2 mt (9,300 lb) counterweight.

### Track

Standard Track Shoe Width	600 mm	24 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)
Swing System – Maximum Flow	No swing pump	
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 Weight and Ground Pressure

	600 mm (24") Triple Grouser Shoes			
	Weight		Ground Pressure	
<b>4.2 mt (9,300 lb) Counterweight + Base Machine</b>				
HD Reach Boom + HD R2.9 (9'6") Stick + 1.14 m <sup>3</sup> (1.49 yd <sup>3</sup> ) GD Bucket	22 100 kg	48,700 lb	46.0 kPa	6.7 psi

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

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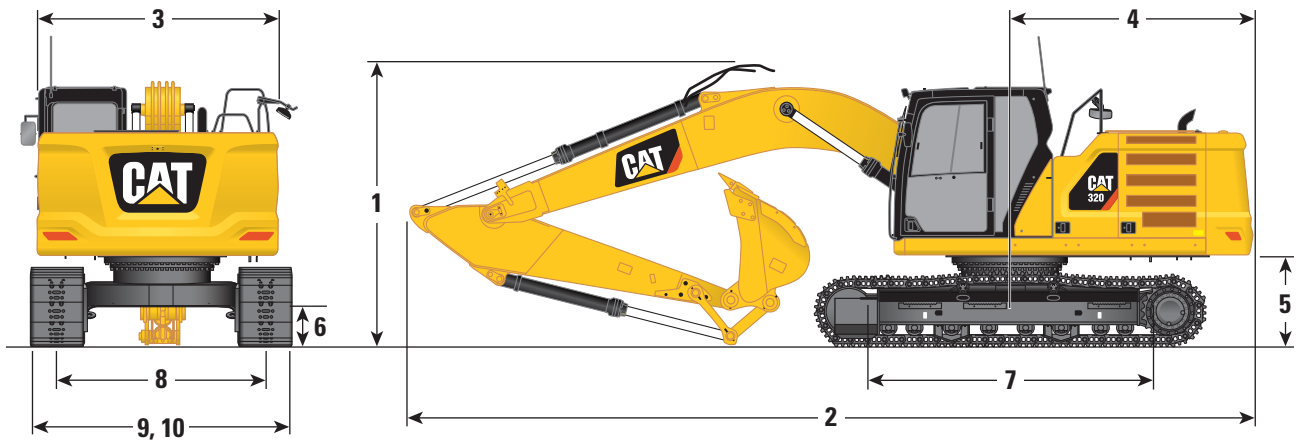
## Major Component Weights

	kg	lb
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD 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)	14 900	32,800
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2690	5,900
600 mm (24") Width, 13 mm (0.51") Thick Double Grouser Track Shoes	3080	6,800
Two Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	680
Counterweights:		
3.7 mt (8,200 lb) Counterweight	3700	8,200
4.2 mt (9,300 lb) Counterweight	4200	9,300
4.7 mt (10,400 lb) Counterweight	4700	10,400
Swing Frame:		
Standard Swing Frame, for C7.1 ACERT	1890	4,170
Semi-HD Swing Frame, for C7.1 ACERT	1910	4,210
Standard and Long Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390	9,700
HD Base Frame with SD Track Rollers and Standard Carrier Rollers for Long Undercarriage	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):		
1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) HD	880	1,940
1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) SD	930	2,050
1.14 m <sup>3</sup> (1.14 yd <sup>3</sup> ) GD	820	1,800
1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) HD	880	1,940
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")**

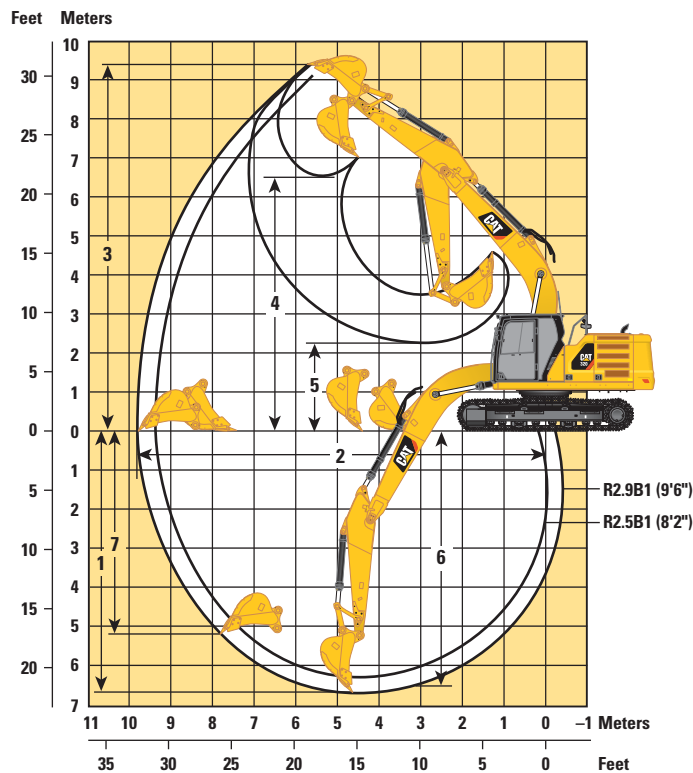
**SLR Stick**  
**6.28A (20'7")**

	R2.9B1 (9'6")		R2.5B1 (8'2")		6.28A (20'7")	
<b>1 Machine Height:</b>						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"	3100 mm	10'2"
Handrails Height	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3160 mm	10'4"	3190 mm	10'6"
With Boom/Stick Installed	2910 mm	9'7"	2910 mm	9'7"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2480 mm	8'2"	2650 mm	8'8"
<b>2 Machine Length:</b>						
With Boom/Stick/Bucket Installed	9530 mm	31'3"	9530 mm	31'3"	12 750 mm	41'10"
With Boom/Stick Installed	9500 mm	31'2"	9500 mm	31'2"	12 760 mm	41'10"
With Boom Installed	8450 mm	27'9"	8450 mm	27'9"	8920 mm	29'3"
<b>3 Upperframe Width without Walkways</b>	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
<b>4 Tail Swing Radius</b>	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
<b>5 Counterweight Clearance</b>	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
<b>6 Ground Clearance</b>	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
<b>7 Track Length – Length to Center of Rollers</b>	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
<b>8 Track Gauge – Extended</b>	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
<b>9 Track Width:</b>						
600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
<b>10 Undercarriage Width (with steps/without steps):</b>						
600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
<b>Bucket Type</b>	HD		HD		GD	
Bucket Capacity	1.19 m <sup>3</sup>	1.56 yd <sup>3</sup>	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	1580 mm	5'2"	1580 mm	5'2"	1220 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")**

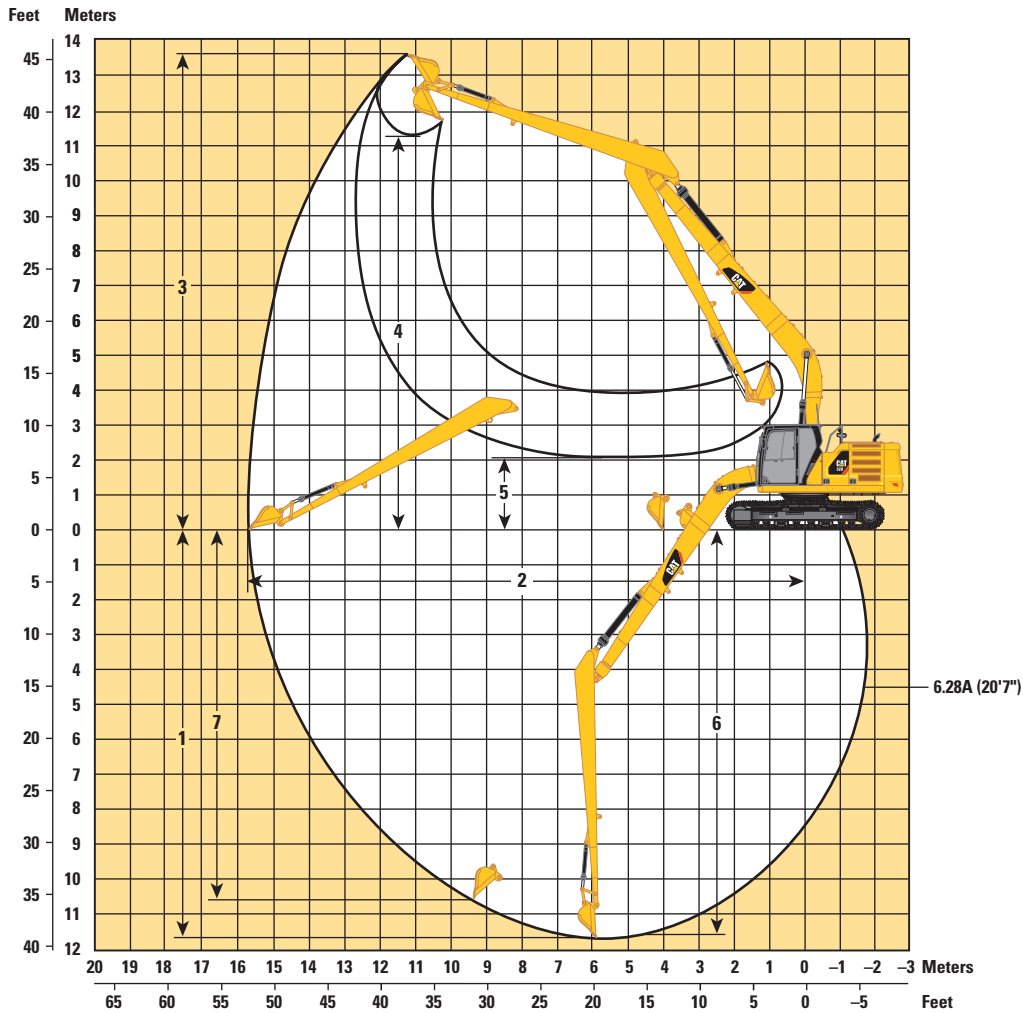
**R2.5B1 (8'2")**

	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 (SAE)	134 kN	30,104 lbf
Bucket Digging Force (ISO)	150 kN	33,811 lbf
Stick Digging Force (SAE)	103 kN	23,212 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")

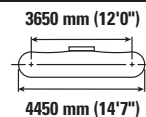
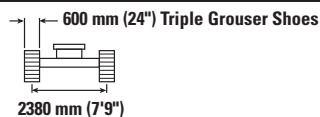
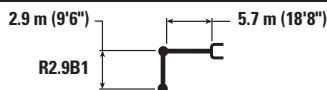
### Stick Option

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

<b>1</b> Maximum Digging Depth	11 690 mm	38'4"
<b>2</b> Maximum Reach at Ground Line	15 730 mm	51'7"
<b>3</b> Maximum Cutting Height	13 610 mm	44'8"
<b>4</b> Maximum Loading Height	11 290 mm	37'0"
<b>5</b> Minimum Loading Height	2080 mm	6'10"
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 590 mm	38'0"
<b>7</b> Maximum Vertical Wall Digging Depth	10 560 mm	34'8"
Bucket Digging Force (SAE)	54 kN	12,119 lbf
Bucket Digging Force (ISO)	60 kN	13,549 lbf
Stick Digging Force (SAE)	48 kN	10,791 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	4'0"

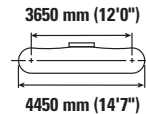
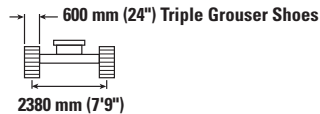
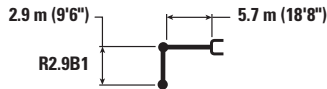
# 320 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – without Bucket – Heavy Lift: Off



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		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
7500 mm 300 in	kg lb							*4500	*4500			*3850 <b>*8,600</b>	*3850 <b>*8,600</b>	6150 240
6000 mm 240 in	kg lb							*4800	*4800			*3600 <b>*7,900</b>	*3600 <b>*7,900</b>	7290 290
4500 mm 180 in	kg lb							*5300 <b>*11,500</b>	4900 <b>10,550</b>	*4950 <b>*10,850</b>	3400 <b>7,300</b>	*3500 <b>*7,700</b>	3050 <b>6,750</b>	7990 320
3000 mm 120 in	kg lb					*7750 <b>*16,650</b>	7150 <b>15,400</b>	*6050 <b>*13,150</b>	4650 <b>10,000</b>	5250 <b>11,200</b>	3300 <b>7,100</b>	*3600 <b>*7,900</b>	2750 <b>6,100</b>	8360 330
1500 mm 60 in	kg lb					*9350 <b>*20,150</b>	6600 <b>14,150</b>	*6850 <b>*14,850</b>	4400 <b>9,450</b>	5100 <b>10,950</b>	3200 <b>6,850</b>	*3800 <b>*8,350</b>	2650 <b>5,850</b>	8450 340
0 mm 0 in	kg lb			*6200 <b>*14,200</b>	*6200 <b>*14,200</b>	*10 250 <b>*22,100</b>	6250 <b>13,450</b>	6900 <b>14,850</b>	4200 <b>9,000</b>	5000 <b>10,700</b>	3100 <b>6,600</b>	*4200 <b>*9,300</b>	2700 <b>5,900</b>	8260 330
-1500 mm -60 in	kg lb	*6600 <b>*14,750</b>	*6600 <b>*14,750</b>	*10 700 <b>*24,300</b>	*10 700 <b>*24,300</b>	*10 300 <b>*22,350</b>	6150 <b>13,250</b>	6850 <b>14,650</b>	4100 <b>8,850</b>	4950 <b>10,650</b>	3050 <b>6,550</b>	4700 <b>10,350</b>	2900 <b>6,400</b>	7780 310
-3000 mm -120 in	kg lb	*11 350 <b>*25,500</b>	*11 350 <b>*25,500</b>	*13 650 <b>*29,600</b>	12 150 <b>25,950</b>	*9650 <b>*20,850</b>	6250 <b>13,400</b>	6850 <b>14,750</b>	4150 <b>8,950</b>			5600 <b>12,350</b>	3450 <b>7,600</b>	6950 280
-4500 mm -180 in	kg lb			*10 850 <b>*23,200</b>	*10 850 <b>*23,200</b>	*7800 <b>*16,600</b>	6450 <b>13,950</b>					*5900 <b>*12,900</b>	4800 <b>10,750</b>	5600 220

## Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – 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		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
7500 mm 300 in	kg lb							*4900	*4900			*4250 <b>*9,400</b>	*4250 <b>*9,400</b>	6150 240
6000 mm 240 in	kg lb							*5300 <b>*11,650</b>	5100 <b>10,900</b>			*3900 <b>*8,650</b>	3650 <b>8,100</b>	7290 290
4500 mm 180 in	kg lb							*5850 <b>*12,700</b>	4900 <b>10,550</b>	5350 <b>11,450</b>	3400 <b>7,300</b>	*3850 <b>*8,450</b>	3050 <b>6,750</b>	7990 320
3000 mm 120 in	kg lb					*8550 <b>*18,400</b>	7150 <b>15,400</b>	*6700 <b>*14,500</b>	4650 <b>10,000</b>	5250 <b>11,200</b>	3300 <b>7,100</b>	*3950 <b>*8,650</b>	2750 <b>6,100</b>	8360 330
1500 mm 60 in	kg lb					*10 350 <b>*22,250</b>	6600 <b>14,150</b>	7150 <b>15,350</b>	4400 <b>9,450</b>	5100 <b>10,950</b>	3200 <b>6,850</b>	*4150 <b>*9,150</b>	2650 <b>5,850</b>	8450 340
0 mm 0 in	kg lb			*6550 <b>*15,050</b>	*6550 <b>*15,050</b>	10 950 <b>23,450</b>	6250 <b>13,450</b>	6900 <b>14,850</b>	4200 <b>9,000</b>	5000 <b>10,700</b>	3100 <b>6,600</b>	4350 <b>9,550</b>	2700 <b>5,900</b>	8260 330
-1500 mm -60 in	kg lb	*7000 <b>*15,650</b>	*7000 <b>*15,650</b>	*11 350 <b>*25,750</b>	*11 350 <b>*25,500</b>	10 850 <b>23,200</b>	6150 <b>13,250</b>	6850 <b>14,650</b>	4100 <b>8,850</b>	4950 <b>10,650</b>	3050 <b>6,550</b>	4700 <b>10,350</b>	2900 <b>6,400</b>	7780 310
-3000 mm -120 in	kg lb	*12 050 <b>*27,000</b>	*12 050 <b>*27,000</b>	*15 150 <b>*32,750</b>	12 150 <b>25,950</b>	*10 700 <b>*23,050</b>	6250 <b>13,400</b>	6850 <b>14,750</b>	4150 <b>8,950</b>			5600 <b>12,350</b>	3450 <b>7,600</b>	6950 280
-4500 mm -180 in	kg lb			*12 050 <b>*25,750</b>	*12 050 <b>*25,750</b>	*8650 <b>*18,400</b>	6450 <b>13,950</b>					*6550 <b>*14,350</b>	4800 <b>10,750</b>	5600 220



ISO 10567



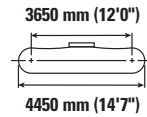
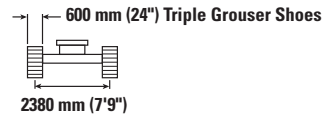
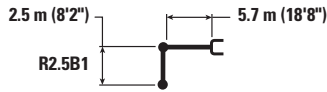
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

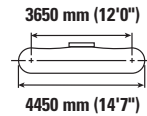
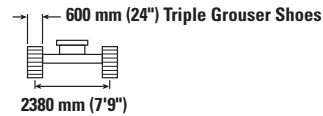
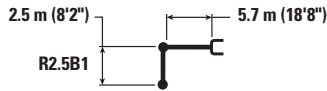
# 320 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – without Bucket – Heavy Lift: Off



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*4700 *10,400	*4700 *10,400	5600 220
6000 mm 240 in	kg lb					*5200 *11,450	5000 10,700			*4300 *9,450	4000 8,900	6830 270
4500 mm 180 in	kg lb			*6550 *14,150	*6550 *14,150	*5600 *12,200	4850 10,400	*4750	3350	*4200 *9,250	3300 7,300	7570 300
3000 mm 120 in	kg lb			*8250 *17,750	7000 15,050	*6350 *13,750	4600 9,850	5200 11,100	3250 7,000	*4300 *9,450	2950 6,550	7960 320
1500 mm 60 in	kg lb			*9700 *20,950	6450 13,950	7100 15,200	4350 9,350	5050 10,850	3150 6,800	4550 10,000	2850 6,250	8050 320
0 mm 0 in	kg lb			*10 350 *22,400	6200 13,400	6900 14,800	4150 9,000	5000 10,700	3100 6,600	4650 10,250	2900 6,350	7860 310
-1500 mm -60 in	kg lb	*11 300 *25,650	*11 300 *25,650	*10 200 *22,100	6200 13,300	6850 14,700	4100 8,850			5100 11,300	3150 6,950	7350 290
-3000 mm -120 in	kg lb	*12 800 *27,700	12 250 26,250	*9250 *20,000	6300 13,500	*6850 *14,600	4200 9,050			*6100 *13,450	3850 8,500	6470 260
-4500 mm -180 in	kg lb			*6850 *14,400	6600 14,250					*5950 *13,000	5750 13,000	4980 200

## Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	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 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5000 10,700			*4700 *10,350	4000 8,900	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	4850 10,400	*5150	3350	*4600 *10,100	3300 7,300	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7000 15,050	*7000 *15,200	4600 9,850	5200 11,100	3250 7,000	*4700 *10,350	2950 6,550	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6450 13,950	7100 15,200	4350 9,350	5050 10,850	3150 6,800	4550 10,000	2850 6,250	8050 320
0 mm 0 in	kg lb			10 900 23,350	6200 13,400	6900 14,800	4150 9,000	5000 10,700	3100 6,600	4650 10,250	2900 6,350	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	10 850 23,250	6200 13,300	6850 14,700	4100 8,850			5100 11,300	3150 6,950	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	12 250 26,250	*10 250 *22,200	6300 13,500	6900 14,900	4200 9,050			6250 13,850	3850 8,500	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	6600 14,250					*6600 *14,500	5750 13,000	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.

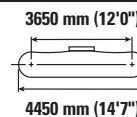
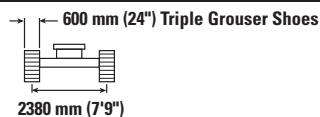
Lift capacity stays with ±5% for all available track shoes.

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



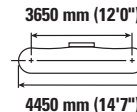
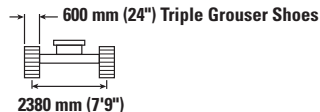
# 320 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: Off



Reach mm in	kg lb	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								*4500	*4500			*3850 *8,600	*3850 *8,600	6150 240
6000 mm 240 in								*4800	*4800			*3600 *7,900	*3600 *7,900	7290 290
4500 mm 180 in								*5300 *11,500	5200 11,200	*4950 *10,850	3650 7,800	*3500 *7,700	3250 7,250	7990 320
3000 mm 120 in						*7750 *16,650	7600 16,350	*6050 *13,150	4950 10,650	*5250 *11,500	3550 7,600	*3600 *7,900	2950 6,550	8360 330
1500 mm 60 in						*9350 *20,150	7000 15,100	*6850 *14,850	4700 10,100	5350 11,550	3400 7,300	*3800 *8,350	2850 6,250	8450 340
0 mm 0 in				*6200 *14,200	*6200 *14,200	*10 250 *22,100	6700 14,400	7300 15,700	4500 9,650	5250 11,300	3300 7,100	*4200 *9,300	2900 6,350	8260 330
-1500 mm -60 in		*6600 *14,750	*6600 *14,750	*10 700 *24,300	*10 700 *24,300	*10 300 *22,350	6600 14,200	7200 15,500	4400 9,500	5250 11,250	3300 7,050	*4950 *10,950	3150 6,900	7780 310
-3000 mm -120 in		*11 350 *25,500	*11 350 *25,500	*13 650 *29,600	12 950 27,700	*9650 *20,850	6650 14,350	*7150 *15,350	4450 9,550			*5850 *12,850	3700 8,150	6950 280
-4500 mm -180 in				*10 850 *23,200	*10 850 *23,200	*7800 *16,600	6900 14,850					*5900 *12,900	5100 11,500	5600 220

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	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								*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in								*5300 *11,650	*5300 11,550			*3900 *8,650	3850 8,600	7290 290
4500 mm 180 in								*5850 *12,700	5200 11,200	*5500 *12,000	3650 7,800	*3850 *8,450	3250 7,250	7990 320
3000 mm 120 in						*8550 *18,400	7600 16,350	*6700 *14,500	4950 10,650	5500 11,850	3550 7,600	*3950 *8,650	2950 6,550	8360 330
1500 mm 60 in						*10 350 *22,250	7000 15,100	7550 16,200	4700 10,100	5350 11,550	3400 7,300	*4150 *9,150	2850 6,250	8450 340
0 mm 0 in				*6550 *15,050	*6550 *15,050	*11 300 *24,450	6700 14,400	7300 15,700	4500 9,650	5250 11,300	3300 7,100	4600 10,100	2900 6,350	8260 330
-1500 mm -60 in		*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 400 24,500	6600 14,200	7200 15,500	4400 9,500	5250 11,250	3300 7,050	5000 10,950	3150 6,900	7780 310
-3000 mm -120 in		*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	12 950 27,700	*10 700 *23,050	6650 14,350	7250 15,600	4450 9,550			5900 13,050	3700 8,150	6950 280
-4500 mm -180 in				*12 050 *25,750	*12 050 *25,750	*8650 *18,400	6900 14,850					*6550 *14,350	5100 11,500	5600 220



ISO 10567



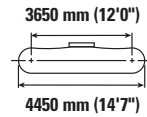
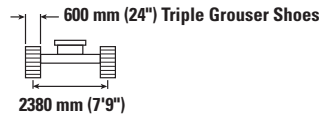
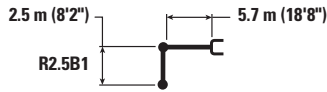
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

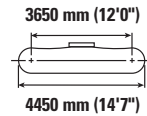
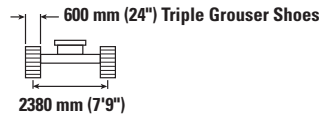
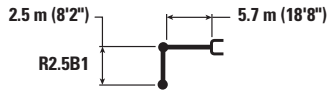
# 320 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: Off



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*4700 *10,400	*4700 *10,400	5600 220
6000 mm 240 in	kg lb					*5200 *11,450	*5200 11,350			*4300 *9,450	4250 *9,450	6830 270
4500 mm 180 in	kg lb			*6550 *14,150	*6550 *14,150	*5600 *12,200	5150 11,050	*4750	3600	*4200 *9,250	3550 7,800	7570 300
3000 mm 120 in	kg lb			*8250 *17,750	7400 16,000	*6350 *13,750	4900 10,500	5450 11,750	3500 7,500	*4300 *9,450	3200 7,000	7960 320
1500 mm 60 in	kg lb			*9700 *20,950	6900 14,850	*7100 *15,350	4650 9,950	5350 11,500	3400 7,250	*4600 *10,100	3050 6,700	8050 320
0 mm 0 in	kg lb			*10 350 *22,400	6650 14,300	7300 15,650	4450 9,600	5250 11,300	3300 7,100	4950 10,850	3100 6,800	7860 310
-1500 mm -60 in	kg lb	*11 300 *25,650	*11 300 *25,650	*10 200 *22,100	6600 14,200	7200 15,550	4400 9,500			5400 11,950	3400 7,450	7350 290
-3000 mm -120 in	kg lb	*12 800 *27,700	*12 800 *27,700	*9250 *20,000	6700 14,450	*6850 *14,600	4500 9,700			*6100 *13,450	4100 9,100	6470 260
-4500 mm -180 in	kg lb			*6850 *14,400	*6850 *14,400					*5950 *13,000	*5950 *13,000	4980 200

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	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 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5300 11,350			*4700 *10,350	4250 9,500	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	5150 11,050	*5150	3600	*4600 *10,100	3550 7,800	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7400 16,000	*7000 *15,200	4900 10,500	5450 11,750	3500 7,500	*4700 *10,350	3200 7,000	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6900 14,850	7450 16,050	4650 9,950	5350 11,500	3400 7,250	4800 10,600	3050 6,700	8050 320
0 mm 0 in	kg lb			*11 450 24,650	6650 14,300	7300 15,650	4450 9,600	5250 11,300	3300 7,100	4950 10,850	3100 6,800	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	6600 14,200	7200 15,550	4400 9,500			5400 11,950	3400 7,450	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	13 100 28,000	*10 250 *22,200	6700 14,450	7300 15,750	4500 9,700			6600 14,600	4100 9,100	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	7050 15,150					*6600 *14,500	6100 13,850	4980 200



ISO 10567



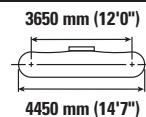
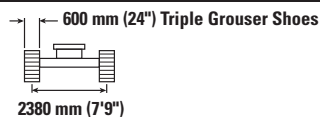
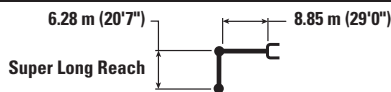
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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 (10,400 lb) – 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												*1250 *2,800	*1250 *2,800	10 350 400
10 500 mm 420 in												*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in												*1150 *2,450	*1150 *2,450	12 660 500
7500 mm 300 in												*1100 *2,400	*1100 *2,400	13 410 530
6000 mm 240 in												*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in												*1100 *2,400	*1100 *2,400	14 340 570
3000 mm 120 in			*4700 *11,850	*4700 *11,850	*6050 *12,950	*6050 *12,950	*4450 *9,600	*4450 *9,600	*3650 *7,850	3600 7,800	*1150 *2,500	*1150 *2,500	14 550 580	
1500 mm 60 in					*6750 *16,000	6400 13,850	*5250 *11,350	4450 9,550	*4150 *8,900	3300 7,050	*1200 *2,600	1100 2,400	14 600 580	
0 mm 0 in			*2000 *4,550	*2000 *4,550	*4650 *10,700	*4650 *10,700	*5900 *12,750	4000 8,600	*4550 *9,850	3000 6,450	*1250 *2,750	1100 2,350	14 490 570	
-1500 mm -60 in		*2100 *4,600	*2100 *4,600	*2700 *6,100	*2700 *6,100	*4650 *10,500	*4650 *10,500	*6300 *13,650	3700 8,000	4750 10,250	2800 6,000	*1350 *3,000	1100 2,400	14 230 560
-3000 mm -120 in		*2850 *6,350	*2850 *6,350	*3550 *7,900	*3550 *7,900	*5200 *11,750	*5200 *11,500	6350 13,650	3600 7,700	4600 9,950	2650 5,750	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in		*3650 *8,150	*3650 *8,150	*4400 *9,900	*4400 *9,900	*6050 *13,700	5400 11,600	6350 13,600	3550 7,650	4550 9,800	2600 5,600	*1700 *3,750	1250 2,700	13 170 520
-6000 mm -240 in		*4550 *10,150	*4550 *10,150	*5400 *12,150	*5400 *12,150	*7200 *16,350	5500 11,850	*6200 *13,350	3600 7,700	4600 9,850	2650 5,650	*2000 *4,450	1350 3,000	12 340 490
-7500 mm -300 in		*5500 *12,250	*5500 *12,250	*6600 *14,800	*6600 *14,800	*7350 *15,750	5700 12,250	*5700 *12,250	3700 7,950	*4600 *9,850	2700 5,800	*2500 *5,650	1600 3,550	11 240 440
-9000 mm -360 in				*7950 *17,650	*7950 *17,650	*6200 *13,200	5950 12,900	*4900 *10,400	3900 8,400	*3950 *8,350	2850 6,150	*2700 *5,950	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.

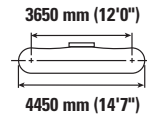
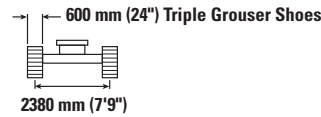
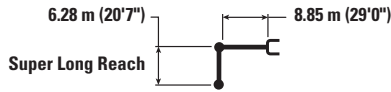
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

# 320 Hydraulic Excavator Specifications

## SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – 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									*1250 *2,800	*1250 *2,800	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,700	*2200 *4,700					*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2000 *3,650	1950 *3,650			*1150 *2,450	*1150 *2,450	12 660 500
7500 mm 300 in	kg lb			*2250 *4,950	*2250 *4,950	*2250 *4,900	1900 4,050			*1100 *2,400	*1100 *2,400	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	2400 5,100	*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 *6,100	*2800 *6,100	*2600 *5,600	2300 4,850	*2400 *5,250	1800 3,800	2300 *4,600	1400 2,950	*1100 *2,400	*1100 *2,400	14 340 570
3000 mm 120 in	kg lb	*3150 *6,750	2750 5,900	*2800 *6,050	2150 4,550	*2550 *5,550	1700 3,600	2250 4,750	1350 2,850	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,450	2550 5,400	*3000 *6,500	2000 4,250	2650 5,650	1600 3,400	2150 4,650	1300 2,750	*1200 *2,600	1100 2,400	14 600 580
0 mm 0 in	kg lb	*3750 *8,100	2350 5,000	3100 6,650	1850 4,000	2550 5,450	1500 3,200	2100 4,550	1250 2,600	*1250 *2,750	1100 2,350	14 490 570
-1500 mm -60 in	kg lb	3700 7,950	2200 4,700	3000 6,400	1750 3,750	2450 5,300	1450 3,050	2100 4,450	1200 2,550	*1350 *3,000	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3600 7,700	2100 4,500	2900 6,250	1700 3,600	2400 5,200	1400 3,000	2050 *3,650	1200 2,500	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	3550 7,600	2050 4,400	2900 6,200	1650 3,550	2400 5,150	1400 2,950			*1700 *3,750	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3550 7,650	2050 4,400	2900 6,200	1650 3,600	2450 *5,150	1400 3,050			*2000 *4,450	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	3600 7,800	2100 4,550	2950 6,400	1750 3,750					*2500 *5,650	1600 3,550	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,550	2250 4,850							*2700 *5,950	2050 4,600	9800 380



ISO 10567



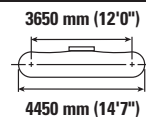
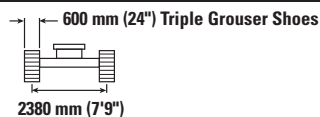
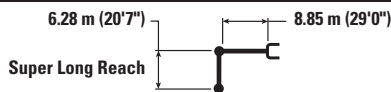
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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 (10,400 lb) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
12 000 mm 480 in	kg lb											*1250 *2,800	*1250 *2,800	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 *2,450	*1150 *2,450	12 660 500
7500 mm 300 in	kg lb											*1100 *2,400	*1100 *2,400	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 *2,400	*1100 *2,400	14 340 570
3000 mm 120 in	kg lb			*4700 *11,850	*4700 *11,850	*6750 *14,450	*6750 *14,450	*5000 *10,750	*5000 *10,750	*4100 *8,800	3600 7,800	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb					*6750 *16,000	6400 13,850	*5900 *12,750	4450 9,550	*4650 *10,050	3300 7,050	*1200 *2,600	1100 2,400	14 600 580
0 mm 0 in	kg lb			*2000 *4,550	*2000 *4,550	*4650 *10,700	*4650 *10,700	*6650 *14,350	4000 8,600	5000 10,700	3000 6,450	*1250 *2,750	1100 2,350	14 490 570
-1500 mm -60 in	kg lb	*2100 *4,600	*2100 *4,600	*2700 *6,100	*2700 *6,100	*4650 *10,500	*4650 *10,500	6500 14,000	3700 8,000	4750 10,250	2800 6,000	*1350 *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	6350 13,650	3600 7,700	4600 9,950	2650 5,750	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	*3650 *8,150	*3650 *8,150	*4400 *9,900	*4400 *9,900	*6050 *13,700	5400 11,600	6350 13,600	3550 7,650	4550 9,800	2600 5,600	*1700 *3,750	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,150	*4550 *10,150	*5400 *12,150	*5400 *12,150	*7200 *16,350	5500 11,850	6350 13,700	3600 7,700	4600 9,850	2650 5,650	*2000 *4,450	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,250	*5500 *12,250	*6600 *14,800	*6600 *14,800	*8300 *17,800	5700 12,250	*6450 *13,850	3700 7,950	4650 10,050	2700 5,800	*2500 *5,650	1600 3,550	11 240 440
-9000 mm -360 in	kg lb			*7950 *18,000	*7950 *18,000	*7050 *14,950	5950 12,900	*5550 *11,800	3900 8,400	*4500 *9,500	2850 6,150	*3100 *6,800	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.

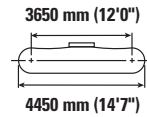
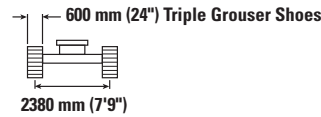
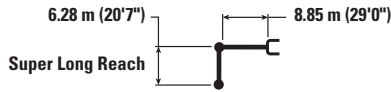
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

# 320 Hydraulic Excavator Specifications

## SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – 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									*1250 *2,800	*1250 *2,800	10 350 400
10 500 mm 420 in	kg lb			*2350 *4,700	*2350 *4,700					*1200 *2,600	*1200 *2,600	11 660 460
9000 mm 360 in	kg lb			*2450 *5,450	*2450 5,400	*2000 *3,650	1950 *3,650			*1150 *2,450	*1150 *2,450	12 660 500
7500 mm 300 in	kg lb			*2550 *5,550	2500 5,300	*2500 *5,400	1900 4,050			*1100 *2,400	*1100 *2,400	13 410 530
6000 mm 240 in	kg lb			*2700 *5,900	2400 5,100	*2600 *5,700	1850 3,950	*1850 *3,250	1450 3,050	*1100 *2,400	*1100 *2,400	13 970 550
4500 mm 180 in	kg lb	*3150 *6,850	2950 6,350	*2900 *6,300	2300 4,850	*2750 *5,950	1800 3,800	*2300 *4,600	1400 2,950	*1100 *2,400	*1100 *2,400	14 340 570
3000 mm 120 in	kg lb	*3500 *7,600	2750 5,900	*3150 *6,850	2150 4,550	2750 5,850	1700 3,600	2250 4,750	1350 2,850	*1150 *2,500	*1150 *2,500	14 550 580
1500 mm 60 in	kg lb	*3900 *8,400	2550 5,400	3250 6,950	2000 4,250	2650 5,650	1600 3,400	2150 4,650	1300 2,750	*1200 *2,600	1100 2,400	14 600 580
0 mm 0 in	kg lb	3850 8,300	2350 5,000	3100 6,650	1850 4,000	2550 5,450	1500 3,200	2100 4,550	1250 2,600	*1250 *2,750	1100 2,350	14 490 570
-1500 mm -60 in	kg lb	3700 7,950	2200 4,700	3000 6,400	1750 3,750	2450 5,300	1450 3,050	2100 4,450	1200 2,550	*1350 *3,000	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3600 7,700	2100 4,500	2900 6,250	1700 3,600	2400 5,200	1400 3,000	2050 *3,650	1200 2,500	*1500 *3,300	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	3550 7,600	2050 4,400	2900 6,200	1650 3,550	2400 5,150	1400 2,950			*1700 *3,750	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3550 7,650	2050 4,400	2900 6,200	1650 3,600	2450 *5,150	1400 3,050			*2000 *4,450	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	3600 7,800	2100 4,550	2950 6,400	1750 3,750					*2500 *5,650	1600 3,550	11 240 440
-9000 mm -360 in	kg lb	*3600 *7,500	2250 4,850							*3100 *6,800	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

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	320 Standard Undercarriage						
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	Counterweight					
										3.7 mt (8,200 lb)		4.2 mt (9,300 lb)		4.7 mt (10,400 lb)	
										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>															
Utility Duty (UD) (No Adjuster)	B	1150	46	0.90	1.18	764	1,684	100	●	●	●	●			
	B	1250	50	1.00	1.31	799	1,760	100	●	⊙	●	●			
General Duty – Excavation (GDX)	B	1150	46	0.90	1.18	762	1,680	100	●	●	●	●			
	B	1250	50	1.00	1.31	797	1,756	100	●	⊙	●	●			
	B	1400	56	1.14	1.49	863	1,902	100	⊙	X	●	X			
Heavy Duty (HD)	B	1050	43	1.00	1.31	879	1,937	100	●	⊙	●	●			
	B	1200	49	1.19	1.56	942	2,076	100	⊖	⊖	⊙	⊖			
	B	1350	54	1.38	1.81	1003	2,210	100	○	X	⊖	X			
Severe Duty (SD)	B	1100	43	1.00	1.31	969	2,136	90	●	⊙	●	●			
	B	1250	49	1.19	1.56	1068	2,355	90	⊙	⊖	⊙	⊙			
Extreme Duty (XD)	B	1100	43	1.00	1.31	1078	2,376	90	●	⊙	●	●			
	B	1250	49	1.19	1.56	1134	2,499	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	3145	2915	880		
								lb	6,515	6,030	6,934	6,426	1,940		
<b>320 Long Undercarriage</b>															
	Linkage	Width		Capacity		Weight		Fill	Counterweight						
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%	Counterweight					
										3.7 mt (8,200 lb)		4.2 mt (9,300 lb)		4.7 mt (10,400 lb)	
										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>															
Utility Duty (UD)	B	1150	46	0.90	1.18	764	1,684	100	⊙	⊙	●	⊙			
	B	1250	50	1.00	1.31	799	1,760	100	⊙	⊖	⊙	⊙			
General Duty – Excavation (GDX)	B	1150	46	0.90	1.18	762	1,680	100	⊙	⊙	●	⊙			
	B	1250	50	1.00	1.31	797	1,756	100	⊙	⊖	⊙	⊙			
	B	1400	56	1.14	1.49	863	1,902	100	⊖	○	⊖	⊖			
Heavy Duty (HD)	B	1050	43	1.00	1.31	879	1,937	100	⊖	⊖	⊙	⊖			
	B	1200	49	1.19	1.56	942	2,076	100	○	○	⊖	○			
	B	1350	54	1.38	1.81	1003	2,210	100	◇	◇	○	◇			
Severe Duty (SD)	B	1100	43	1.00	1.31	969	2,136	90	⊙	⊖	●	⊙			
	B	1250	49	1.19	1.56	1068	2,355	90	○	○	⊖	○			
Extreme Duty (XD)	B	1100	43	1.00	1.31	1078	2,376	90	●	⊙	●	●			
	B	1250	49	1.19	1.56	1134	2,499	90	⊖	⊖	⊙	⊖			
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 (8,200 lb) Counterweight		4.2 mt (9,300 lb) Counterweight	
Hydraulic Hammer	B20	●	●	●	●
	B20 (side mount)	●	●	●	●
	H115Es	●	●	●	●
	H120Es	●	●	●	●
	H130Es	●	●	●	●
Compactor (Vibratory Plate)	CVP110	●	●	●	●
Orange Peel Grapple					
Trash Grapple					
Thumbs					
Rakes					
Pin Grabber Coupler	Cat PG				

These work tools are available for the 320.  
Consult your Cat dealer for proper match.

\*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 ACERT Single Turbo China Nonroad Stage III	✓		Tie-down points on base frame (ISO 15818:2017 compliant)	✓	
Three selectable power modes	✓		Center track guiding guard	✓	
One-touch low idle with automatic engine speed control	✓		Segmented track guiding guard	✓	
Automatic engine idle shutdown	✓		Full length track guiding guard		✓
4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓		Standard bottom guards	✓	
52° C (125° F) high-ambient cooling capacity	✓		Heavy-duty bottom guard		✓
Starting capability for -18° C (0° F) with jump start receptacle		✓	Standard swivel guard		✓
Double element air filter with integrated precleaner	✓		Standard travel motor guards	✓	
Reversible electric cooling fans	✓		Heavy-duty travel motor guards		✓
Biodiesel capability up to B20	✓		Grease lubricated track links	✓	
<b>HYDRAULIC SYSTEM</b>			3700 kg (8,200 lb) counterweight	✓	
Boom and stick regeneration circuits	✓		4200 kg (9,300 lb) counterweight for heavy-duty		✓
Electronic main control valve	✓		4700 kg (10,400 lb) counterweight for Super Long Reach		✓
Auto warm up	✓		Standard swing frame	✓	
Automatic two-speed travel	✓		Semi-HD swing frame for HD and SLR		✓
Boom and stick drift reduction valve	✓		Standard swing bearing	✓	
Element type main hydraulic filter	✓		HD base frame with SD track rollers and standard carrier rollers		✓
Slider joysticks	✓		Standard base frame with HD track rollers and standard carrier rollers	✓	
Tandem type electronic main pump	✓		Final drive with standard travel motor	✓	
Hammer return filter circuit		✓	<b>BOOM, STICKS AND LINKAGES</b>		
Combined flow/high pressure auxiliary circuit		✓	600 mm (24") double grouser track shoes		✓
Quick coupler circuit for Cat Pin Grabber		✓	600 mm (24") triple grouser track shoes	✓	
			5.7 m (18'8") HD Reach boom + 2.9 m (9'6") HD stick		✓
			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 without lifting eye, Cat GRADE		✓
			Bucket linkage, A-family 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>CAT PAYLOAD</b>		
Machine electronic control module (×2)	✓		Static Weigh	✓	
1,000 CCA maintenance-free batteries (×2)	✓		Auto-Cabibration	✓	
1,000 CCA maintenance-free batteries (×4)		✓	Payload Information	✓	
Centralized electrical disconnect switch	✓		<b>SERVICE AND MAINTENANCE</b>		
Programmable time-delay LED working lights	✓		Sampling ports for Scheduled Oil Sampling (S·O·S <sup>SM</sup> )	✓	
LED chassis light, LH and RH boom lights for Reach and SLR, cab lights – 850 lumens	✓		Preventative Maintenance ready (QuickEvac <sup>TM</sup> )		✓
<b>CAT CONNECT TECHNOLOGY</b>			Grouped location for engine oil and fuel filters	✓	
Cat Product Link <sup>TM</sup>	✓		Ground level second dipstick for engine oil	✓	
2D E-fence	✓		Remote flash	✓	
Cat GRADE with 2D (not available on SLR)	✓		<b>SAFETY AND SECURITY</b>		
Cat GRADE with Advanced 2D (not available on SLR)		✓	Rearview camera and side RH mirror	✓	
Cat GRADE with 3D (not available on SLR)		✓	360° visibility		✓
<b>CAT ASSIST</b>			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	✓		Radiator screen		✓
Grade Assist	✓		Bluetooth <sup>®</sup> receiver	✓	
			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
			Travel alarm (Hong Kong)	✓	

## 320 Attachments

### 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
- Seat belt, retractable (75 mm/3 in width)
- Polycarbonate roof hatch kit (comfort cab)

#### 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

## 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)	○	X
High-resolution 254 mm (10") LCD touch screen monitor (only for use with 360° visibility)	X	○
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)	○	X
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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