



# 320

## Hydraulic Excavator

# Technical Specifications

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

## Table of Contents

<b>Specifications</b> .....	<b>2</b>
Engine .....	2
Swing Mechanism .....	2
Weights .....	2
Track .....	2
Drive .....	2
Hydraulic System .....	2
Service Refill Capacities .....	2
Standards .....	2
Sound Performance .....	2
Operating Weights and Ground Pressures .....	3
Major Component Weights .....	3
Dimensions .....	4
Working Ranges .....	5
Reach Boom Lift Capacities .....	7
Super Long Reach Boom Lift Capacities .....	9
Bucket Specifications and Compatibility .....	13
Attachments Offering Guide .....	15
<b>Standard and Optional Equipment</b> .....	<b>16</b>
<b>Dealer Installed Kits and Attachments</b> .....	<b>18</b>

# 320 Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C4.4	
Net Power (ISO 9249)	128 kW	172 hp
Engine Power (ISO 14396)	129 kW	174 hp
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in <sup>3</sup>
Biodiesel capability	Up to B20 <sup>(1)</sup>	

- The 320 meets U.S. EPA Tier 4 Final and EU Stage IV 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 is tested per ISO 9249. Standards in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Rated speed at 2,200 rpm.

<sup>(1)</sup>Cat engines are compatible with the following renewable, alternative, and bio-fuels\* with lower greenhouse gas emission impact:

- ✓ Up to B20 biodiesel (FAME)\*\*
- ✓ Up to 100% HVO and GTL renewable fuels

\*Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

\*\*For use of higher blends, consult your Cat dealer.

## Swing Mechanism

Swing Speed	11.3 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

## Weights

Operating Weight	21 800 kg	48,100 lb
------------------	-----------	-----------

• Reach boom 5.7 m (18'8"), R2.9 (9'6") stick, 1.19 m<sup>3</sup> (1.56 yd<sup>3</sup>) HD bucket, 600 mm (24 in) triple grouser shoes, 4.2 mt (9,300 lb) counterweight.

## Track

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

## Drive

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

## Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (214.5 × 2 pumps)	113 gal/min (56.5 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode/Auto Dig Boost	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 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

## Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	15 L	4.0 gal
Swing Drive (each)	12 L	3.2 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
DEF Tank	39 L	10.3 gal

## Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
Cab/FOGS (optional)	ISO 10262:1998 Level II

## Sound Performance

ISO 6395 (external)	99 dB(A)
ISO 6396 (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.

# 320 Hydraulic Excavator Specifications

## Operating Weights and Ground Pressures

	600 mm (24 in) Triple Grouser Shoes		700 mm (28 in) Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure
<b>4.2 mt (9,300 lb) Counterweight + Long Undercarriage Base Machine</b>				
Reach Boom + R2.9 (9'6") Stick + 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) HD Bucket	21 800 kg	48,100 lb	45.3 kPa	6.6 psi
	22 200 kg	49,000 lb	39.6 kPa	5.7 psi

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

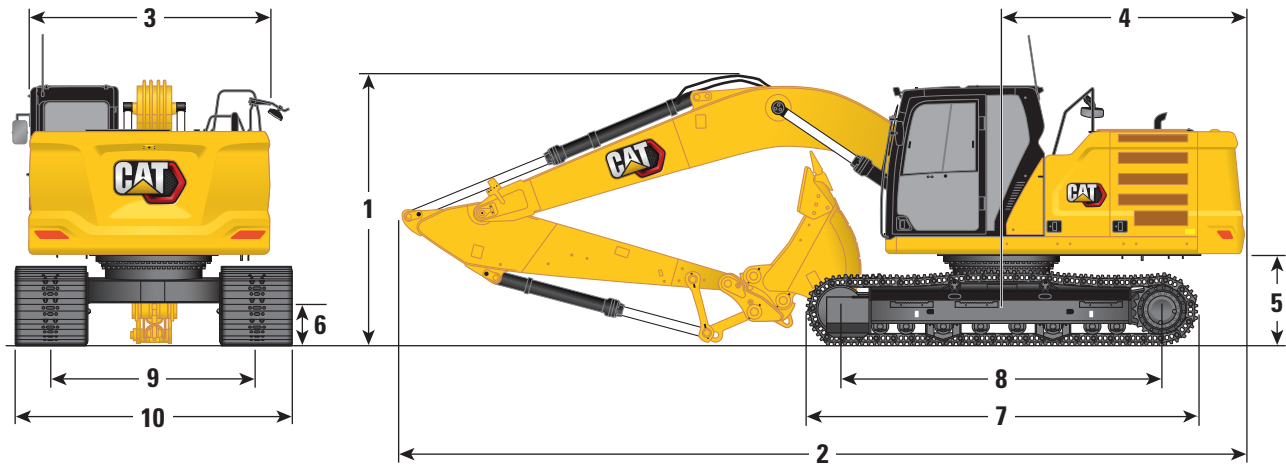
## Major Component Weights

	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 – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	14 800	32,600
Base Machine (with 4.7 mt [10,360 lb] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator)	15 300	33,700
Track Shoes:		
600 mm (24 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes	2690	5,900
700 mm (28 in) Width, 10 mm (0.39 in) Thick Triple Grouser Track Shoes	3050	6,700
Two Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	680
Counterweights:		
4.2 mt (9,300 lb) Counterweight	4200	9,300
4.7 mt (10,400 lb) Counterweight (only for Super Long Reach)	4700	10,400
Swing Frame:		
Semi-HD Swing Frame	1910	4,210
Undercarriage:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390	9,700
Booms (including lines, pins, stick cylinder):		
Reach Boom (5.7 m/18'8")	1710	3,800
Super Long Reach Boom (8.85 m/29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
Reach Stick (R2.9B1/9'6")	990	2,200
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	960	2,100
0.57 m <sup>3</sup> (0.75 yd <sup>3</sup> ) Ditch Cleaning	390	850
0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> ) GD	410	900
Quick Couplers:		
CW Dedicated	230	500
Pin Grabber QC	390	850

# 320 Hydraulic Excavator Specifications

## Dimensions

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

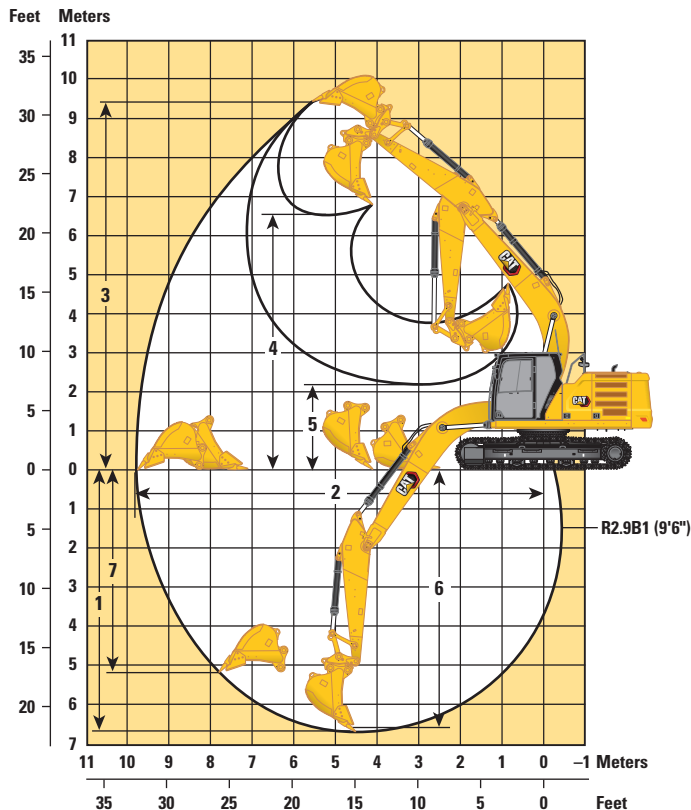


Boom Options	Reach Boom 5.7 m (18'8")		SLR Boom 8.85 m (29'0")			
Stick Options	Reach Stick R2.9B1 (9'6")		6.28A (20'7")		SLR Stick 6.28A (20'7")	
<b>1 Machine Height:</b>						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of FOGS Height	3100 mm	10'2"	3100 mm	10'2"	3100 mm	10'2"
Handrails Height	2950 mm	9'8"	2950 mm	9'8"	2950 mm	9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3190 mm	10'6"	3190 mm	10'6"
With Boom/Stick Installed	2910 mm	9'7"	3070 mm	10'1"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2650 mm	8'8"	2650 mm	8'8"
<b>2 Machine Length:</b>						
With Boom/Stick/Bucket Installed	9530 mm	31'3"	12 750 mm	41'9"	12 750 mm	41'9"
With Boom/Stick Installed	9500 mm	31'2"	12 760 mm	41'9"	12 760 mm	41'9"
With Boom Installed	8450 mm	27'9"	8920 mm	29'3"	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</b>	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
<b>8 Length to Center of Rollers</b>	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
<b>9 Track Gauge</b>	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
<b>10 Undercarriage Width:</b>						
600 mm (24 in) Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
700 mm (28 in) Shoes	3080 mm	10'1"	3080 mm	10'1"	3080 mm	10'1"
Bucket Type	HD		Ditch Cleaning (DC)		GD	
Bucket Capacity	1.19 m <sup>3</sup>	1.56 yd <sup>3</sup>	0.57 m <sup>3</sup>	0.75 yd <sup>3</sup>	0.53 m <sup>3</sup>	0.69 yd <sup>3</sup>
Bucket Tip Radius	1570 mm	5'2"	1070 mm	3'6"	1220 mm	4'0"

# 320 Hydraulic Excavator Specifications

## Working Ranges

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



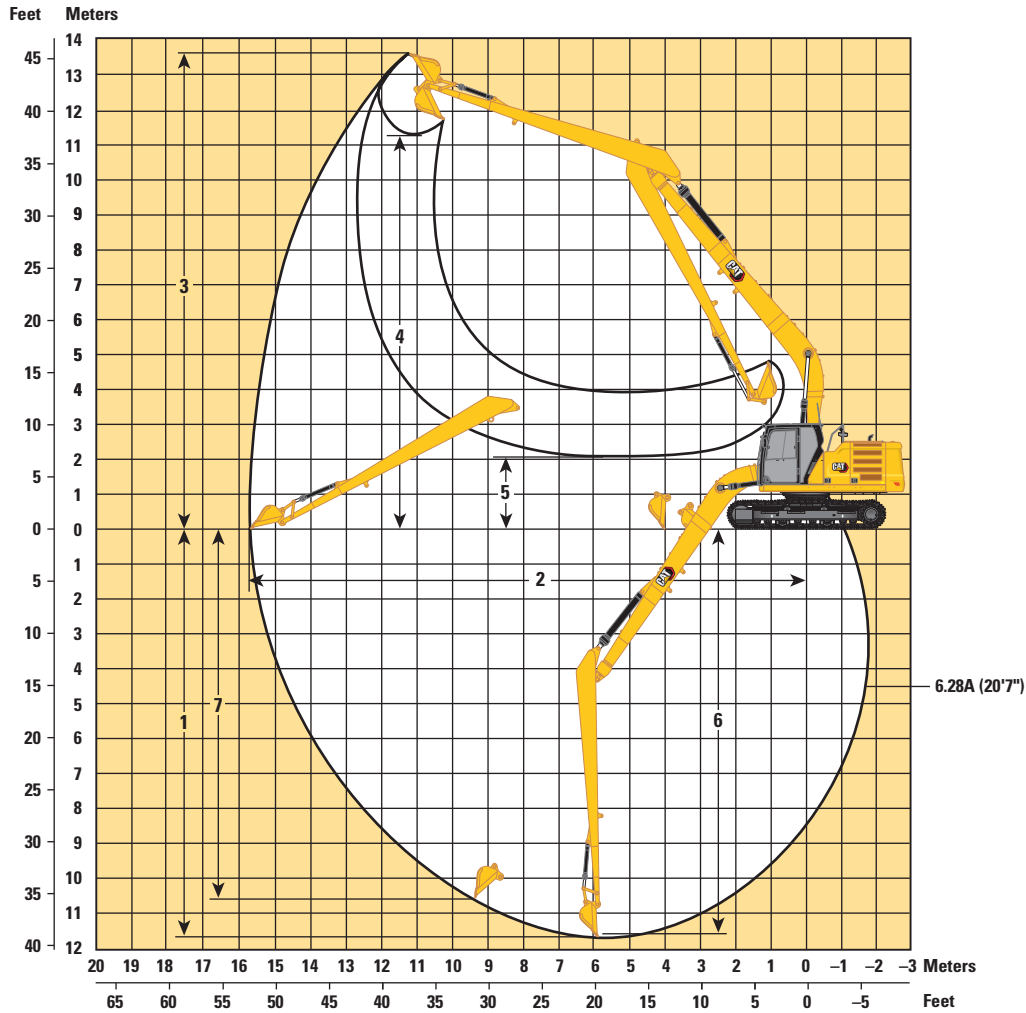
Boom Option	Reach Boom 5.7 m (18'8")	
Stick Option	Reach Stick R2.9B1 (9'6")	
1 Maximum Digging Depth	6720 mm	22'1"
2 Maximum Reach at Ground Line	9860 mm	32'4"
3 Maximum Cutting Height	9370 mm	30'9"
4 Maximum Loading Height	6490 mm	21'3"
5 Minimum Loading Height	2170 mm	7'1"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"
Bucket Digging Force (ISO)*	150 kN	33,811 lbf
Stick Digging Force (ISO)*	106 kN	23,911 lbf
Bucket Type	HD	
Bucket Capacity	1.19 m <sup>3</sup>	1.56 yd <sup>3</sup>
Bucket Tip Radius	1570 mm	5'2"

\*8.5% Auto Dig Boost pressure not included.

# 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 Options

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

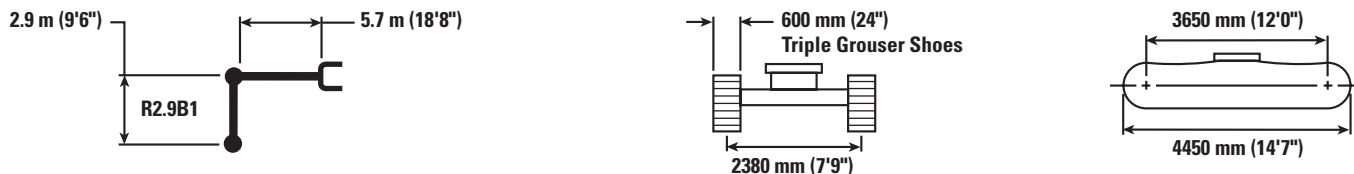
**SLR Stick**

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

	6.28A (20'7")	SLR Stick	6.28A (20'7")
<b>1</b> Maximum Digging Depth	11 540 mm	37'10"	11 690 mm
<b>2</b> Maximum Reach at Ground Line	15 570 mm	51'1"	15 730 mm
<b>3</b> Maximum Cutting Height	13 540 mm	44'5"	13 610 mm
<b>4</b> Maximum Loading Height	11 440 mm	37'6"	11 290 mm
<b>5</b> Minimum Loading Height	2240 mm	7'4"	2080 mm
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 440 mm	37'6"	11 590 mm
<b>7</b> Maximum Vertical Wall Digging Depth	11 020 mm	36'2"	10 560 mm
Bucket Digging Force (ISO)	62 kN	13,841 lbf	60 kN
Stick Digging Force (ISO)	49 kN	10,966 lbf	49 kN
Bucket Type	Ditch Cleaning (DC)		GD
Bucket Capacity	0.57 m <sup>3</sup>	0.75 yd <sup>3</sup>	0.53 m <sup>3</sup>
Bucket Tip Radius	1070 mm	3'6"	1220 mm

# 320 Hydraulic Excavator Specifications

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



		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							*4950	*4950			*4300	*4300	6150 240
6000 mm 240 in	kg lb							*5450	5450			*3950	3950	7290 290
4500 mm 180 in	kg lb							*6000	5300	*5650	3750	*3900	3400	7990 320
3000 mm 120 in	kg lb					*8750	7700	*6900	5050	5600	3650	*4000	3100	8360 330
1500 mm 60 in	kg lb					*10 650	7200	7650	4850	5500	3550	*4250	3000	8450 340
0 mm 0 in	kg lb			*6600	*6600	*11 650	6950	7450	4650	5400	3450	*4700	3050	8260 330
-1500 mm -60 in	kg lb	*7050	*7050	*11 400	*11 400	11 700	6850	7400	4600	5350	3450	5100	3300	7780 310
-3000 mm -120 in	kg lb	*12 100	*12 100	*15 600	13 350	*11 000	6900	7400	4650			6050	3850	6950 280
-4500 mm -180 in	kg lb			*12 500	*12 500	*9000	7100					*6800	5250	5600 220
				*26,700	*26,700	*19,100	15,300					*14,950	11,850	



ISO 10567



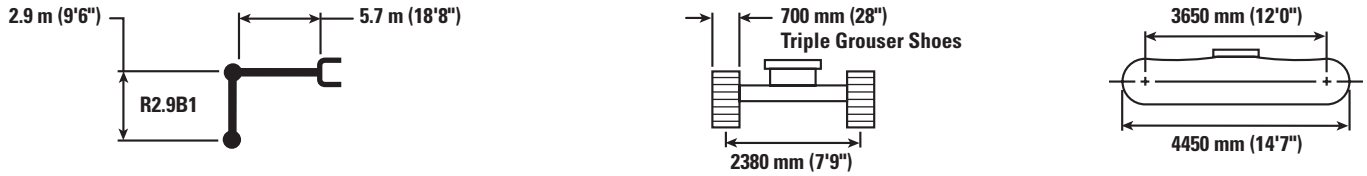
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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



		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							*4950	*4950			*4300 *9,500	*4300 *9,500	6150 240
6000 mm 240 in	kg lb							*5450 *12,000	*5450 11,750			*3950 *8,750	*3950 *8,750	7290 290
4500 mm 180 in	kg lb							*6000 *13,050	5350 11,450	*5650 12,400	3800 8,100	*3900 *8,550	3400 7,550	7990 320
3000 mm 120 in	kg lb					*8750 *18,900	7750 16,700	*6900 *14,950	5100 11,000	5650 12,150	3700 7,900	*4000 *8,750	3150 6,900	8360 330
1500 mm 60 in	kg lb					*10 650 *22,950	7250 15,650	7750 16,600	4900 10,500	5550 11,900	3600 7,700	*4250 *9,300	3000 6,650	8450 340
0 mm 0 in	kg lb			*6600 *15,150	*6600 *15,150	*11 650 *25,200	7000 15,050	7550 16,200	4700 10,150	5450 11,700	3500 7,500	*4700 *10,300	3050 6,750	8260 330
-1500 mm -60 in	kg lb	*7050 *15,750	*7050 *15,750	*11 400 *25,850	*11 400 *25,850	*11 750 25,250	6950 14,900	7450 16,050	4650 10,000	5400 11,650	3450 7,450	5150 11,350	3300 7,300	7780 310
-3000 mm -120 in	kg lb	*12 100 *27,100	*12 100 *27,100	*15 600 *33,800	13 450 28,800	*11 000 *23,800	7000 15,000	7500 16,100	4650 10,050			6100 13,500	3900 8,600	6950 280
-4500 mm -180 in	kg lb			*12 500 *26,700	*12 500 *26,700	*9000 *19,100	7200 15,450					*6800 *14,950	5300 11,950	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.

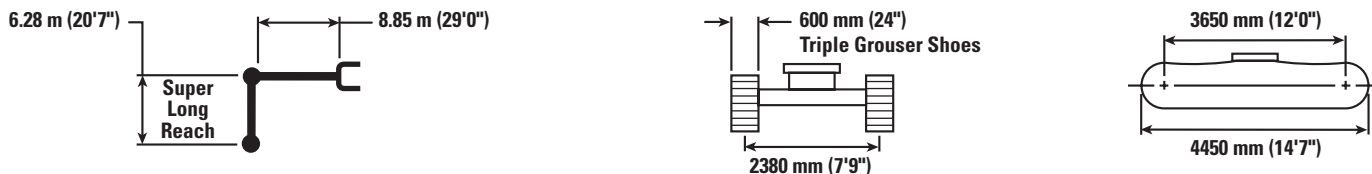
Lift capacity stays with ±5% for all available track shoes.

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



# 320 Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket



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		
		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											*1450 *3,200	*1450 *3,200	10 350 400
10 500 mm 420 in	kg lb											*1350 *2,950	*1350 *2,950	11 660 460
9000 mm 360 in	kg lb											*1300 *2,850	*1300 *2,850	12 660 500
7500 mm 300 in	kg lb											*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb											*1250 *2,750	*1250 *2,750	13 970 550
4500 mm 180 in	kg lb											*1300 *2,800	1200 2,650	14 340 570
3000 mm 120 in	kg lb			*4700 *11,800	*4700 *11,800	*6050 *12,900	*6050 *12,900	*4450 *9,550	*4450 *9,550	*3600 *7,800	3600 7,750	*1300 *2,900	1150 2,450	14 550 580
1500 mm 60 in	kg lb					*6750 *15,950	6350 13,750	*5250 *11,300	4400 9,500	*4100 *8,850	3250 7,000	*1400 *3,000	1100 2,350	14 600 580
0 mm 0 in	kg lb			*2000 *4,550	*2000 *4,550	*4650 *10,700	*4650 *10,700	*5900 *12,700	3950 8,500	*4550 *9,800	2950 6,350	*1450 *3,200	1050 2,350	14 490 570
-1500 mm -60 in	kg lb	*2100 *4,600	*2100 *4,600	*2700 *6,050	*2700 *6,050	*4650 *10,500	*4650 *10,500	*6250 *13,550	3650 7,900	4750 10,150	2750 5,900	*1550 *3,450	1100 2,350	14 230 560
-3000 mm -120 in	kg lb	*2850 *6,350	*2850 *6,350	*3500 *7,850	*3500 *7,850	*5200 *11,700	*5200 11,350	6350 13,600	3550 7,600	4600 9,850	2650 5,650	*1750 *3,800	1100 2,450	13 790 550
-4500 mm -180 in	kg lb	*3650 *8,150	*3650 *8,150	*4400 *9,900	*4400 *9,900	*6050 *13,700	5300 11,450	6300 13,500	3500 7,500	4550 9,750	2600 5,550	*1950 *4,300	1200 2,650	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,100	*4550 *10,100	*5400 *12,150	*5400 *12,150	*7200 *16,300	5450 11,700	*6150 *13,250	3550 7,600	4550 9,800	2600 5,550	*2300 *5,100	1350 2,950	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,250	*5500 *12,250	*6550 *14,800	*6550 *14,800	*7300 *15,650	5600 12,100	*5650 *12,150	3650 7,850	*4550 *9,750	2650 5,750	*2700 *5,950	1600 3,500	11 240 440
-9000 mm -360 in	kg lb			*7950 *17,450	*7950 *17,450	*6150 *13,100	5900 12,750	*4850 *10,350	3850 8,300	*3900 *8,300	2800 6,050	*2700 *5,900	2000 4,550	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.

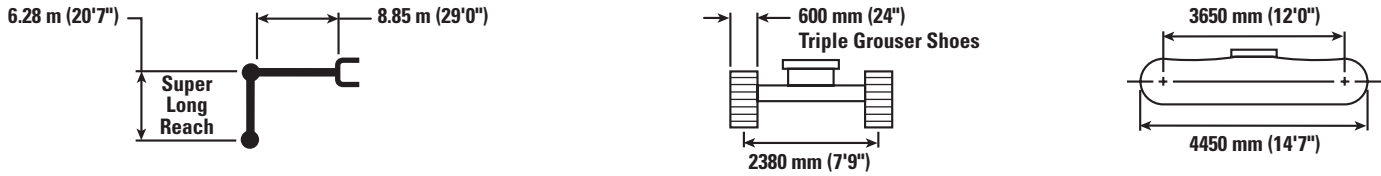
Lift capacity stays with ±5% for all available track shoes.

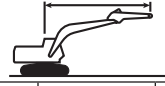










Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

# 320 Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket (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									*1450 *3,200	*1450 *3,200	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,850	*2200 *4,850					*1350 *2,950	*1350 *2,950	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2200 *4,200	1900 4,050			*1300 *2,850	*1300 *2,850	12 660 500
7500 mm 300 in	kg lb			*2250 *4,900	*2250 *4,900	*2200 *4,850	1900 4,050			*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 5,100	*2300 *5,000	1850 3,950	*2100 *3,700	1450 3,000	*1250 *2,750	*1250 *2,750	13 970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2550 *5,550	2250 4,850	*2400 *5,200	1750 3,750	2300 4,850	1400 2,950	*1300 *2,800	1200 2,650	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2750 5,850	*2800 *6,000	2100 4,550	*2550 *5,500	1700 3,550	2250 4,750	1350 2,800	*1300 *2,900	1150 2,450	14 550 580
1500 mm 60 in	kg lb	*3450 *7,400	2500 5,350	*3000 *6,450	2000 4,200	2600 5,600	1600 3,350	2150 4,600	1250 2,700	*1400 *3,000	1100 2,350	14 600 580
0 mm 0 in	kg lb	*3700 *8,050	2300 4,950	3100 6,600	1850 3,950	2550 5,400	1500 3,200	2100 4,500	1200 2,600	*1450 *3,200	1050 2,350	14 490 570
-1500 mm -60 in	kg lb	3700 7,900	2150 4,650	2950 6,350	1750 3,700	2450 5,250	1400 3,050	2050 4,400	1200 2,500	*1550 *3,450	1100 2,350	14 230 560
-3000 mm -120 in	kg lb	3550 7,700	2050 4,400	2900 6,200	1650 3,550	2400 5,150	1400 2,950	2050 *4,200	1150 2,450	*1750 *3,800	1100 2,450	13 790 550
-4500 mm -180 in	kg lb	3500 7,550	2000 4,300	2850 6,150	1650 3,500	2400 5,150	1350 2,900			*1950 *4,300	1200 2,650	13 170 520
-6000 mm -240 in	kg lb	3550 7,600	2000 4,350	2850 6,150	1650 3,550	2400 5,200	1400 3,000			*2300 *5,100	1350 2,950	12 340 490
-7500 mm -300 in	kg lb	3600 7,750	2100 4,500	2950 6,350	1700 3,700					*2700 *5,950	1600 3,500	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,500	2200 4,800							*2700 *5,900	2000 4,550	9800 380



ISO 10567



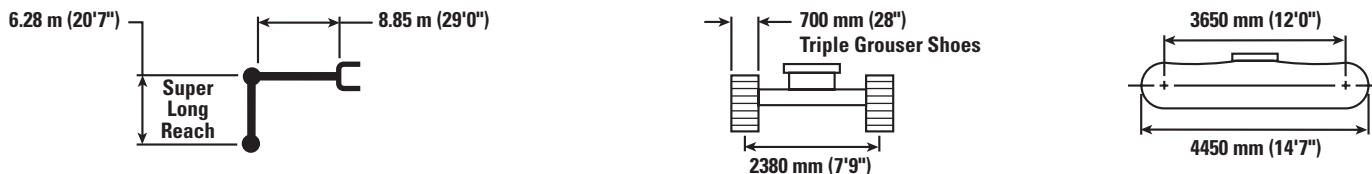
\*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

## Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket



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		
		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											*1450 *3,200	*1450 *3,200	10 350 400
10 500 mm 420 in	kg lb											*1350 *2,950	*1350 *2,950	11 660 460
9000 mm 360 in	kg lb											*1300 *2,850	*1300 *2,850	12 660 500
7500 mm 300 in	kg lb											*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb											*1250 *2,750	*1250 *2,750	13 970 550
4500 mm 180 in	kg lb											*1300 *2,800	1200 2,650	14 340 570
3000 mm 120 in	kg lb			*4700 *11,800	*4700 *11,800	*6050 *12,900	*6050 *12,900	*4450 *9,550	*4450 *9,550	*3600 *7,800	*3600 *7,800	*1300 *2,900	1150 2,500	14 550 580
1500 mm 60 in	kg lb					*6750 *15,950	6450 13,900	*5250 *11,300	4450 9,600	*4100 *8,850	3300 7,100	*1400 *3,000	1100 2,400	14 600 580
0 mm 0 in	kg lb			*2000 *4,550	*2000 *4,550	*4650 *10,700	*4650 *10,700	*5900 *12,700	4000 8,600	*4550 *9,800	3000 6,450	*1450 *3,200	1100 2,350	14 490 570
-1500 mm -60 in	kg lb	*2100 *4,600	*2100 *4,600	*2700 *6,050	*2700 *6,050	*4650 *10,500	*4650 *10,500	*6250 *13,550	3700 8,000	4800 10,300	2800 6,000	*1550 *3,450	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	*2850 *6,350	*2850 *6,350	*3500 *7,850	*3500 *7,850	*5200 *11,700	*5200 11,500	6400 13,750	3600 7,700	4650 10,000	2650 5,700	*1750 *3,800	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 11,550	6350 13,650	3550 7,600	4600 9,850	2600 5,600	*1950 *4,300	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	*4550 *10,100	*4550 *10,100	*5400 *12,150	*5400 *12,150	*7200 *16,300	5500 11,800	*6150 *13,250	3600 7,700	4600 9,900	2600 5,650	*2300 *5,100	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,250	*5500 *12,250	*6550 *14,800	*6550 *14,800	*7300 *15,650	5700 12,250	*5650 *12,150	3700 7,950	*4550 *9,750	2700 5,800	*2700 *5,950	1600 3,550	11 240 440
-9000 mm -360 in	kg lb			*7950 *17,450	*7950 *17,450	*6150 *13,100	5950 12,900	*4850 *10,350	3900 8,400	*3900 *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.

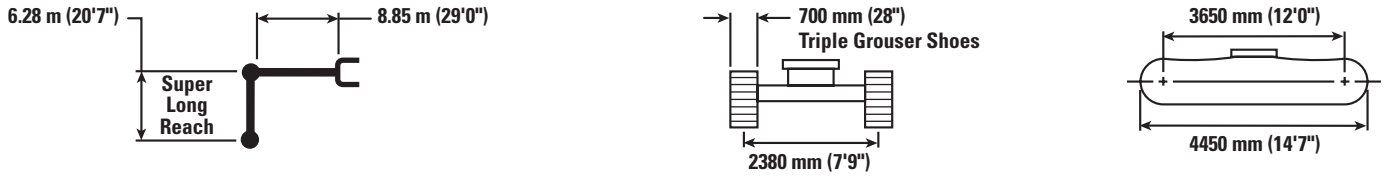
Lift capacity stays with ±5% for all available track shoes.

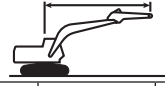










Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

# 320 Hydraulic Excavator Specifications

## Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket (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									*1450 *3,200	*1450 *3,200	10 350 400
10 500 mm 420 in	kg lb			*2200 *4,850	*2200 *4,850					*1350 *2,950	*1350 *2,950	11 660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2200 *4,200	1950 4,100			*1300 *2,850	*1300 *2,850	12 660 500
7500 mm 300 in	kg lb			*2250 *4,900	*2250 *4,900	*2200 *4,850	1900 4,100			*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 5,150	*2300 *5,000	1850 3,950	*2100 *3,700	1450 3,050	*1250 *2,750	*1250 *2,750	13 970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2550 *5,550	2300 4,900	*2400 *5,200	1800 3,800	*2300 4,900	1400 2,950	*1300 *2,800	1200 2,650	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2750 5,900	*2800 *6,000	2150 4,600	*2550 *5,500	1700 3,600	2250 4,800	1350 2,850	*1300 *2,900	1150 2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,400	2550 5,450	*3000 *6,450	2000 4,250	2650 5,650	1600 3,400	2200 4,700	1300 2,750	*1400 *3,000	1100 2,400	14 600 580
0 mm 0 in	kg lb	*3700 *8,050	2350 5,000	3100 6,700	1850 4,000	2550 5,450	1500 3,200	2150 4,550	1250 2,600	*1450 *3,200	1100 2,350	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 3,050	2100 4,450	1200 2,550	*1550 *3,450	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3600 7,750	2100 4,500	2950 6,300	1700 3,600	2450 5,200	1400 3,000	2050 *4,200	1200 2,500	*1750 *3,800	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			*1950 *4,300	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3550 7,700	2050 4,400	2900 6,250	1650 3,600	2450 5,300	1400 3,050			*2300 *5,100	1350 3,000	12 340 490
-7500 mm -300 in	kg lb	3650 7,850	2100 4,550	2950 6,400	1750 3,750					*2700 *5,950	1600 3,550	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,500	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

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	4.2 mt (9,300 lb) Counterweight	4.7 mt (10,400 lb) Counterweight
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		Reach Boom	SLR Boom
									R2.9 (9'6")	6.28A (20'7")
<b>Pin-On (No Quick Coupler)</b>										
General Duty	B	600	24	0.46	0.60	550	1,212	100	●	
	B	750	30	0.64	0.84	621	1,368	100	●	
	B	1000	39	0.93	1.22	717	1,580	100	●	
	B	1050	42	1.00	1.31	737	1,624	100	●	
	B	1050	42	1.00	1.31	737	1,624	100	●	
	B	1200	48	1.19	1.56	807	1,778	100	⊙	
	B	1400	55	1.43	1.87	874	1,926	100	X	
	B	1500	60	1.58	2.06	914	2,014	100	X	
Heavy Duty	B	600	24	0.46	0.61	635	1,400	100	●	
	B	750	30	0.64	0.84	737	1,625	100	●	
	B	900	36	0.81	1.06	818	1,804	100	●	
	B	1050	42	1.00	1.31	872	1,923	100	●	
	B	1200	48	1.19	1.56	929	2,048	100	⊙	
	B	1350	54	1.38	1.81	1036	2,284	100	X	
	B	1500	60	1.58	2.06	1094	2,412	100	X	
Cleanup	B	1800	72	1.60	2.09	979	2,157	100	○	
	B	2000	78	1.76	2.31	1045	2,303	100	○	
	B	2000	78	1.76	2.31	1045	2,303	100	○	
Ditch Cleaning Tilt	B	1800	72	1.40	1.83	1105	2,437	100	○	
General Duty	312, A	900	36	0.53	0.69	403	888	100		◇
Ditch Cleaning	312, A	1200	48	0.57	0.74	386	851	100		◇
Maximum load with pin-on (payload + bucket)								kg	3010	800
								lb	6,636	1,764

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>)
- 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.

(continued on next page)

# 320 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility (continued)

	Linkage	Width		Capacity		Weight		Fill	4.2 mt (9,300 lb) Counterweight
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		%
<b>With Cat Pin Grabber Coupler</b>									
General Duty	B	600	24	0.46	0.60	550	1,212	100	●
	B	750	30	0.64	0.84	621	1,368	100	●
	B	1,000	39	0.93	1.22	717	1,580	100	●
	B	1,050	42	1.00	1.31	737	1,624	100	⊙
	B	1,050	42	1.00	1.31	737	1,624	100	⊙
	B	1,200	48	1.19	1.56	807	1,778	100	⊖
	B	1,400	55	1.43	1.87	874	1,926	100	○
Heavy Duty	B	600	24	0.46	0.61	635	1,400	100	●
	B	750	30	0.64	0.84	737	1,625	100	●
	B	900	36	0.81	1.06	818	1,804	100	●
	B	1,050	42	1.00	1.31	872	1,923	100	⊙
	B	1,200	48	1.19	1.56	929	2,048	100	⊖
	B	1,350	54	1.38	1.81	1036	2,284	100	○
	B	1,500	60	1.58	2.06	1094	2,412	100	◇
Cleanup	B	1,800	72	1.60	2.09	979	2,157	100	◇
	B	2,000	78	1.76	2.31	1045	2,303	100	◇
	B	2,000	78	1.76	2.31	1045	2,303	100	◇
Ditch Cleaning Tilt	B	1,800	72	1.40	1.83	1105	2,437	100	○
Maximum load with coupler (payload + bucket)								kg	2636
								lb	5,811

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>)

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

# 320 Hydraulic Excavator Specifications

## Attachments Offering Guide

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

Match
  \* Working range front only
  † Allowed usage on machine less than 50%
  No Match

### PIN-ON ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)
Boom Type		Reach
Stick Length		2.92 m (9'7")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓
	H120 GC S	✓
	H120 S	✓
	H130 GC	
	H130 GC S	
	H130 S	✓†
Demolition and Sorting Grapples	G318	✓
Mobile Scrap and Demolition Shears	S3025	✓
	S3025 Flat Top	✓
Compactors (Vibratory Plate)	CVP110	✓

### CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)
Boom Type		Reach
Stick Length		2.92 m (9'7")
Hydraulic Hammers	H115 S	✓
	H120 GC	✓†
	H120 GC S	✓†
	H120 S	✓†
	H130 GC	✓†*
	H130 GC S	✓†
	H130 S	✓†
Demolition and Sorting Grapples	G318	✓
Mobile Scrap and Demolition Shears	S3025	✓*
	S3025 Flat Top	✓
Compactors (Vibratory Plate)	CVP110	✓

### BOOM-MOUNT ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)
Boom Type		Reach
Mobile Scrap and Demolition Shears	S2050	✓
	S3035	✓
	S3035 Flat Top	✓

# 320 Standard and Optional Equipment

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>CAB</b>			<b>ENGINE</b>		
ROPS, standard sound suppression	✓		Three selectable power modes	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓		Auto engine speed control	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor + additional monitor (for Cat Grade Advanced 2D and 3D)		✓	Auto engine idle shutdown	✓	
Auto bi-level air conditioner	✓		Work up to 3000 m (9,840 ft) above sea level without engine power de-rating	✓	
Jog dial and shortcut keys for monitor control	✓		52° C (125° F) high-ambient cooling capacity	✓	
Keyless push-to-start engine control			Cold starting capability for -32° C (-25° F)	✓	
Height-adjustable console, infinite with no tool	✓		Double element air filter with integrated pre-cleaner	✓	
Heated seat with air-adjustable suspension	✓		Electric fuel priming pump	✓	
51 mm (2 in) seat belt	✓		Electric cooling fans with auto-reverse function	✓	
Tilt-up left-side console	✓		<b>HYDRAULIC SYSTEM</b>		
Cat Stick Steer		✓	Boom and stick regeneration circuits	✓	
Bluetooth® integrated radio with USB ports	✓		Boom and stick lowering check valves	✓	
12V DC outlets	✓		Electronic main control valve	✓	
Document storage	✓		Auto Dig Boost <sup>(1)</sup>	✓	
Rear head storage net and lunchbox storage net	✓		Auto heavy lift	✓	
Cup and bottle holders	✓		Auto warm up	✓	
Openable two-piece front window	✓		Auto two-speed travel	✓	
Upper radial wiper with washer	✓		Boom and stick drift reduction valve	✓	
Openable skylight hatch	✓		Element type main hydraulic filter	✓	
LED dome light	✓		Slider joysticks	✓	
Floor welcome light	✓		Tandem type electronic main pump	✓	
Roller front sunscreen	✓		Hammer return filter circuit		✓
Roller rear sunscreen	✓		Advanced Tool Control (two pump, one/two way high-pressure flow)	✓	
Washable floor mat	✓		Medium pressure auxiliary circuit		✓
Beacon ready	✓		Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓
			Fine swing control	✓	

<sup>(1)</sup>Requires heavy lift valve; not available for Super Long Reach.

(continued on next page)



## Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
<b>UNDERCARRIAGE AND STRUCTURES</b>			<b>CAT TECHNOLOGY</b>		
600 mm (24") triple grouser track shoes	✓		Cat Product Link™	✓	
700 mm (28") triple grouser track shoes		✓	Work tool recognition	✓	
Tie-down points on base frame	✓		Work tool tracking*	✓	
Segmented track guiding guards	✓		Laser catcher		✓
Full-length track guiding guards		✓	Cat Grade with 2D and offset memory**	✓	
Bottom guards	✓		Cat Grade with Advanced 2D		✓
HD bottom guards		✓	Cat Grade with 3D connectivity:	✓	
Swivel guard	✓		– Compatibility with radios and base stations from Trimble, Topcon, and Leica		
Travel motor guards	✓		– Capability to install 3D grade systems from Trimble, Topcon, and Leica		
HD travel motor guards		✓	Cat Assist:	✓	
Grease lubricated track links	✓		– Grade Assist		
4200 kg (9,300 lb) counterweight	✓		– Boom Assist		
4700 kg (10,400 lb) counterweight for Super Long Reach		✓	– Bucket Assist		
Semi-HD swing frame	✓		– Swing Assist		
Standard base frame with HD track rollers and standard carrier rollers	✓		– Lift Assist***		
<b>BOOM, STICKS AND LINKAGES</b>			Cat Payload:	✓	
5.7 m (18'8") Reach boom	✓		– Static weigh		
2.9 m (9'6") Reach stick	✓		– Semiautomatic calibration		
Super Long Reach 8.85 m (29'0") boom		✓	– Payload/cycle information		
Super Long Reach 6.28 m (20'7") stick		✓	– USB reporting capability		
Bucket linkage, B1-family with lifting eye	✓		2D E-Fence:	✓	
Bucket linkage, A-family without lifting eye, SLR		✓	– E-ceiling		
<b>ELECTRICAL SYSTEM</b>			– E-floor		
1,000 CCA maintenance-free batteries (×2)	✓		– E-swing		
Centralized electrical disconnect switch	✓		– E-wall		
Programmable time-delay LED working lights	✓		– E-cab avoidance		
LED chassis light, LH and RH boom lights, cab lights with cover and rain protector – for use with 360° visibility		✓	Auto hammer stop	✓	
LED chassis light, LH and RH boom lights, cab lights	✓		Remote Services capability	✓	
Premium surround lighting package		✓			

\*Paired with PL161 attachment locator.

\*\*Optional on machines equipped with a Super Long Reach boom and stick.

\*\*\*Not available for Super Long Reach.

*(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>SERVICE AND MAINTENANCE</b>			<b>SAFETY AND SECURITY</b>		
Scheduled Oil Sampling (S·O·S <sup>SM</sup> ) ports	✓		Rearview and right-hand-sideview cameras	✓	
QuickEvac <sup>TM</sup> maintenance ready		✓	360° visibility		✓
Grouped location for engine oil and fuel filters	✓		Cat Detect – People Detection		✓
Ground-level second dipstick for engine oil	✓		Neutral lever (lock out) for all controls	✓	
Radiator screen		✓	Anti-skid plate and countersunk bolts on service platform	✓	
			Ground-level accessible secondary engine shutoff switch in cab	✓	
			RH handrail and handhold (ISO 2867:2011 compliant)	✓	
			Travel alarm	✓	
			Inspection lighting		✓

# 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
- 75 mm (3") retractable seat belt

### SAFETY AND SECURITY

- Bluetooth key fob

### SERVICE AND MAINTENANCE

- Grease gun holder

### ELECTRICAL

- Jump start wiring

### GUARDS

- Side rubber bumper
- Falling object guard system (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Full protecting vandalism guard

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

© 2021 Caterpillar  
All rights reserved

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

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEXQ2211-05 (08-2021)  
Replaces AEXQ2211-04  
Build Number: 07E  
(Aus-NZ)

