



320

Hydraulic Excavator

Technical Specifications

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

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320 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4	
Net Power		
ISO 9249	128.5 kW	172 hp
ISO 9249 (DIN)	175 hp (metric)	
Engine Power		
ISO 14396	129.4 kW	174 hp
ISO 14396 (DIN)	176 hp (metric)	
Bore	105 mm	4 in
Stroke	127 mm	5 in
Displacement	4.4 L	269 in ³
Biodiesel capability	Up to B20 ⁽¹⁾	

- Meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Advertised power is tested per the specified standard 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.
- Engine speed at 2,200 rpm.

⁽¹⁾Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:

- ✓ 20% biodiesel FAME (fatty acid methyl ester)*
- ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

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

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

Weights

Operating Weight	21 900 kg	48,300 lb
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- Reach boom 5.7 m (18'8"), R2.9 (9'6") stick, 1.19 m³ (1.56 yd³) Heavy Duty (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)	6 L	1.6 gal
Final Drive (each)	4 L	1.1 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal
Diesel Exhaust Fluid (DEF) Tank	39 L	10.3 gal

Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Cab/Operator Protective Guard (OPG) (optional)	ISO 10262:1998 Level II

Sound Performance

ISO 6395:2008 (external)	99 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.

320 Hydraulic Excavator Specifications

Operating Weights and Ground Pressures

Base Machine Configurations	600 mm (24 in) Triple Grouser Shoes		700 mm (28 in) Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure
Base Frame with Track Rollers and Carrier Rollers				
4.2 mt (9,300 lb) Counterweight + Long Undercarriage Base Machine				
Reach Boom + R2.9 (9'6") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	21 900 kg	48,300 lb	45.6 kPa 6.6 psi	22 300 kg 49,200 lb 39.8 kPa 5.8 psi
HD Reach Boom + HD R2.9 (9'6") Stick + 1.19 m ³ (1.56 yd ³) HD Bucket	22 200 kg	49,000 lb	46.2 kPa 6.7 psi	22 600 kg 49,800 lb 40.3 kPa 5.8 psi

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

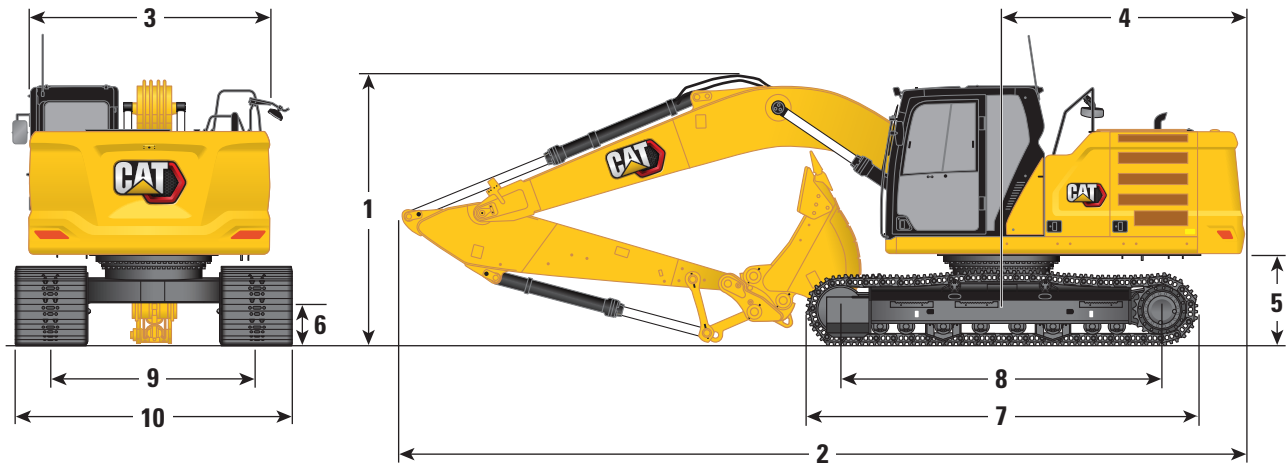
Major Component Weights

	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	4390	9,700
Booms (including lines, pins, stick cylinder):		
Reach Boom 5.7 m (18'8")	1710	3,800
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):		
Reach Stick R2.9B1 (9'6")	1080	2,400
HD Reach Stick R2.9B1 (9'6")	1110	2,400
Super Long Reach Stick 6.28A (20'7")	1340	3,000
Buckets (without linkage):		
1.19 m ³ (1.56 yd ³) HD	960	2,100
0.57 m ³ (0.75 yd ³) DC	390	850
0.53 m ³ (0.69 yd ³) General Duty (GD)	410	900
Quick Couplers (QC):		
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.

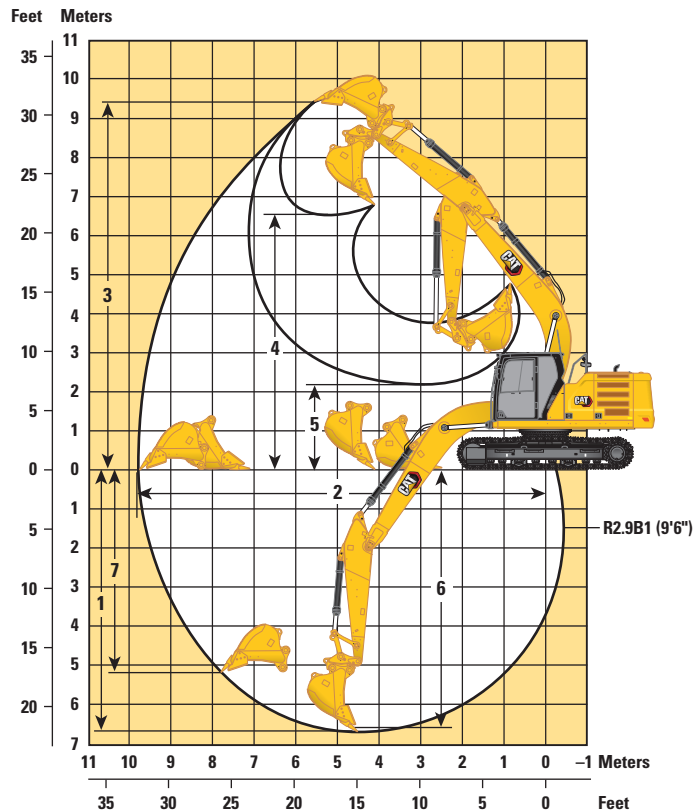


Boom Options	Reach/HD Reach Boom 5.7 m (18'8")		SLR Boom 8.85 m (29'0")			
Stick Options	Reach/HD Reach Stick R2.9B1 (9'6")		6.28A (20'7")		SLR Stick 6.28A (20'7")	
1 Machine Height:						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of GNSS Antenna Height (if installed)	3000 mm	9'10"	3000 mm	9'10"	3000 mm	9'10"
Top of OPG Height	3100 mm	10'2"	3100 mm	10'2"	3100 mm	10'2"
Handrail 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"
2 Machine Length:						
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"
3 Upperframe Width	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
7 Track Length	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
8 Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
9 Track Gauge	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
10 Undercarriage Width:						
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		DC		GD	
Bucket Capacity	1.19 m ³	1.56 yd ³	0.57 m ³	0.75 yd ³	0.53 m ³	0.69 yd ³
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.

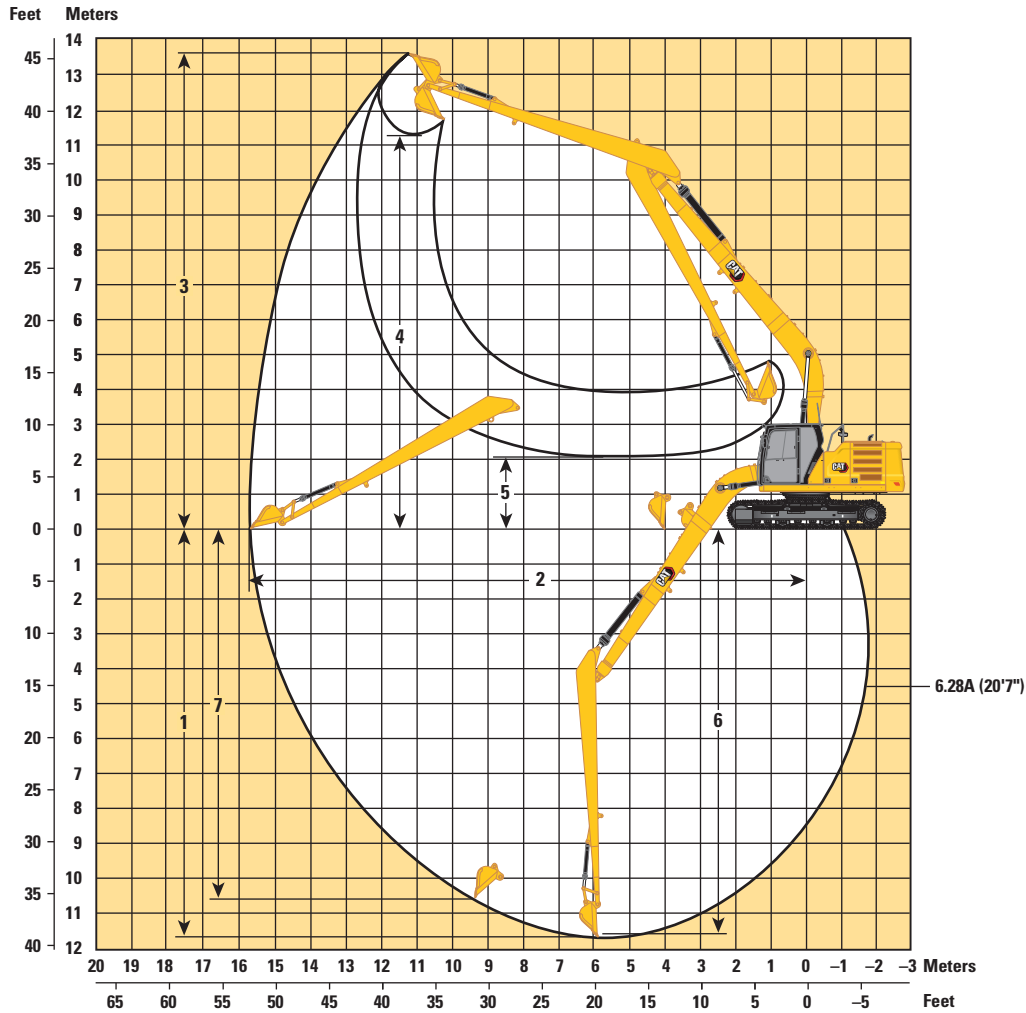


Boom Option	Reach/HD Reach Boom 5.7 m (18'8")	
Stick Option	Reach/HD Reach Stick R2.9B1 (9'6")	
1 Maximum Digging Depth	6720 mm	22'1"
2 Maximum Reach at Ground Line	9860 mm	32'4"
3 Maximum Cutting Height	9370 mm	30'9"
4 Maximum Loading Height	6490 mm	21'3"
5 Minimum Loading Height	2170 mm	7'1"
6 Maximum 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 Digging Force (ISO) – Auto Dig Boost	163 kN	36,709 lbf
Stick Digging Force (ISO) – Auto Dig Boost	115 kN	25,960 lbf
Bucket Type	HD	
Bucket Capacity	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1570 mm	5'2"

320 Hydraulic Excavator Specifications

Working Ranges

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



Boom Option

SLR Boom
8.85 m (29'0")

Stick Options

6.28A (20'7")

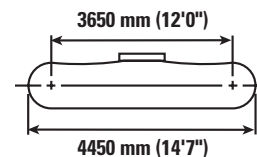
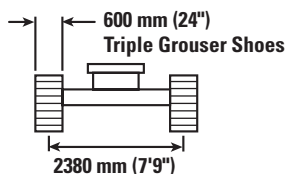
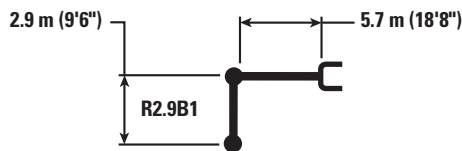
SLR Stick

6.28A (20'7")

1 Maximum Digging Depth	11 540 mm	37'10"	11 690 mm	38'4"
2 Maximum Reach at Ground Line	15 570 mm	51'1"	15 730 mm	51'7"
3 Maximum Cutting Height	13 540 mm	44'5"	13 610 mm	44'8"
4 Maximum Loading Height	11 440 mm	37'6"	11 290 mm	37'0"
5 Minimum Loading Height	2240 mm	7'4"	2080 mm	6'10"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 440 mm	37'6"	11 590 mm	38'0"
7 Maximum Vertical Wall Digging Depth	11 020 mm	36'2"	10 560 mm	34'8"
Bucket Digging Force (ISO)	62 kN	13,841 lbf	60 kN	13,549 lbf
Stick Digging Force (ISO)	49 kN	10,966 lbf	49 kN	10,935 lbf
Bucket Type	DC		GD	
Bucket Capacity	0.57 m ³	0.75 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1070 mm	3'6"	1220 mm	4'0"

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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
6000 mm 240 in	kg lb							*5450	5400			*4000	3950	7290
								*11,950	11,600			*8,800	8,750	290
4500 mm 180 in	kg lb							*6000	5250	*5650	3700	*3900	3350	7990
								*13,000	11,300	12,200	7,950	*8,600	7,400	320
3000 mm 120 in	kg lb					*8700	7650	*6850	5000	5550	3600	*4000	3050	8360
						*18,750	16,450	*14,900	10,800	11,950	7,750	*8,800	6,750	330
1500 mm 60 in	kg lb					*10 550	7150	7600	4800	5450	3500	*4250	2950	8450
						*22,800	15,350	16,300	10,300	11,700	7,550	*9,350	6,500	340
0 mm 0 in	kg lb			*6600	*6600	*11 600	6850	7400	4600	5350	3400	4700	3000	8260
				*15,200	*15,200	25,000	14,750	15,900	9,950	11,500	7,350	10,300	6,600	330
-1500 mm -60 in	kg lb	*7100	*7100	*11 400	*11 400	11 550	6750	7300	4550	5300	3400	5050	3250	7780
		*15,800	*15,800	*25,900	*25,900	24,800	14,550	15,750	9,800	11,450	7,300	11,150	7,150	310
-3000 mm -120 in	kg lb	*12 100	*12 100	*15 500	13 200	*10 950	6850	7350	4600			6000	3800	6950
		*27,150	*27,150	*33,600	28,250	*23,700	14,700	15,800	9,850			13,250	8,400	280
-4500 mm -180 in	kg lb			*12 400	*12 400	*8950	7050					*6750	5250	5600
				*26,550	*26,550	*19,000	15,200					*14,850	11,750	220



ISO 10567:2007



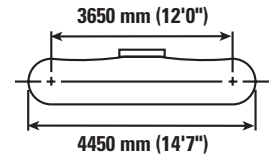
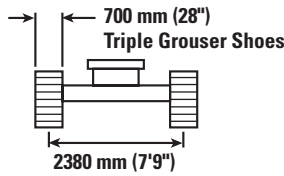
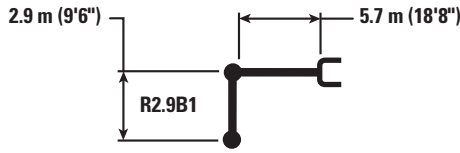
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories 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 *9,550	*4300 *9,550	6150 240
6000 mm 240 in	kg lb							*5450 *11,950	*5450 11,750			*4000 *8,800	4000 *8,800	7290 290
4500 mm 180 in	kg lb							*6000 *13,000	5350 11,450	*5650 *12,350	3750 8,100	*3900 *8,600	3400 7,500	7990 320
3000 mm 120 in	kg lb					*8700 *18,750	7750 16,650	*6850 *14,900	5100 10,950	5650 12,150	3700 7,900	*4000 *8,800	3100 6,850	8360 330
1500 mm 60 in	kg lb					*10 550 *22,800	7250 15,600	7700 16,550	4850 10,450	5550 11,900	3550 7,650	*4250 *9,350	3000 6,600	8450 340
0 mm 0 in	kg lb			*6600 *15,200	*6600 *15,200	*11 600 *25,050	6950 15,000	7500 16,150	4700 10,100	5450 11,700	3500 7,450	*4700 *10,350	3050 6,700	8260 330
-1500 mm -60 in	kg lb	*7100 *15,800	*7100 *15,800	*11 400 *25,900	*11 400 *25,900	*11 700 25,200	6900 14,800	7450 16,000	4600 9,950	5400 11,650	3450 7,450	5150 11,350	3300 7,250	7780 310
-3000 mm -120 in	kg lb	*12 100 *27,150	*12 100 *27,150	*15 500 *33,600	13 400 28,650	*10 950 *23,700	6950 14,950	7450 16,100	4650 10,000			6100 13,500	3850 8,550	6950 280
-4500 mm -180 in	kg lb			*12 400 *26,550	*12 400 *26,550	*8950 *19,000	7150 15,400					*6750 *14,850	5300 11,950	5600 220



ISO 10567:2007



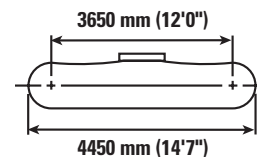
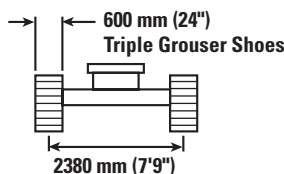
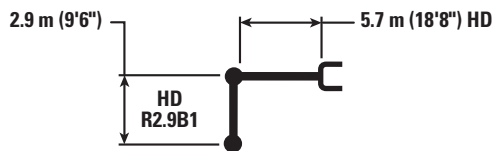
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

HD 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							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 19'09"
6000 mm 240 in	kg lb							*5350 *11,750	*5350 11,750			*3900 *8,650	*3900 *8,650	7290 23'08"
4500 mm 180 in	kg lb							*5900 *12,800	5300 11,400	*5550 *12,150	3750 8,000	*3850 *8,450	3350 7,400	7990 26'01"
3000 mm 120 in	kg lb					*8600 *18,550	7700 16,600	*6750 *14,650	5050 10,850	5600 12,050	3600 7,750	*3950 *8,650	3050 6,700	8360 27'04"
1500 mm 60 in	kg lb					*10 450 *22,500	7200 15,450	7650 16,500	4800 10,350	5500 11,800	3500 7,500	*4150 *9,150	2950 6,450	8450 27'08"
0 mm 0 in	kg lb			*6750 *15,500	*6750 *15,500	*11 450 *24,750	6900 14,800	7450 16,050	4600 9,950	5400 11,550	3400 7,300	*4600 *10,150	3000 6,550	8260 27'01"
-1500 mm -60 in	kg lb	*7200 *16,100	*7200 *16,100	*11 650 *26,450	*11 650 *26,450	*11 550 *25,000	6800 14,600	7400 15,850	4550 9,750	5350 11,500	3400 7,250	5100 11,200	3200 7,100	7780 25'05"
-3000 mm -120 in	kg lb	*12 350 *27,750	*12 350 *27,750	*15 300 *33,150	13 300 28,450	*10 800 *23,350	6850 14,750	7400 15,950	4550 9,850			6000 13,350	3800 8,400	6950 22'08"
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	7050 15,250					*6600 *14,550	5250 11,800	5600 18'00"



ISO 10567:2007



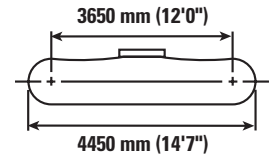
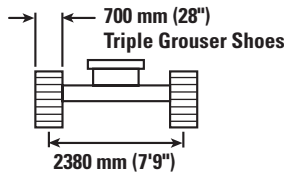
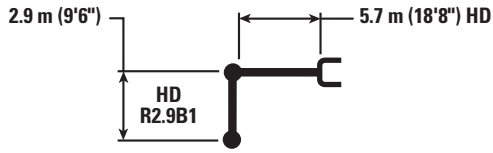
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

HD 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							*4900	*4900			4250 *9,400	4250 *9,400	6150 19'09"
6000 mm 240 in	kg lb							*5350 *11,750	*5350 *11,750			3900 *8,650	3900 *8,650	7290 23'08"
4500 mm 180 in	kg lb							*5900 *12,800	5350 11,500	*5550 *12,150	3750 8,050	3850 *8,450	3400 7,450	7990 26'01"
3000 mm 120 in	kg lb					*8600 *18,550	7800 16,750	*6750 *14,650	5100 10,950	5650 12,200	3650 7,850	3950 *8,650	3100 6,800	8360 27'04"
1500 mm 60 in	kg lb					*10 450 *22,500	7250 15,600	*7700 *16,650	4850 10,450	5550 11,900	3550 7,600	*4150 *9,150	2950 6,500	8450 27'08"
0 mm 0 in	kg lb			*6750 *15,500	*6750 *15,500	*11 450 *24,750	6950 14,950	7550 16,200	4650 10,050	5450 11,700	3450 7,400	*4600 *10,150	3000 6,600	8260 27'01"
-1500 mm -60 in	kg lb	*7200 *16,100	*7200 *16,100	*11 650 *26,450	*11 650 *26,450	*11 550 *25,000	6850 14,750	7450 16,000	4600 9,850	5400 11,650	3400 7,350	5150 11,350	3250 7,150	7780 25'05"
-3000 mm -120 in	kg lb	*12 350 *27,750	*12 350 *27,750	*15 300 *33,150	13 400 28,700	*10 800 *23,350	6900 14,900	7500 16,100	4600 9,950			6100 13,500	3850 8,450	6950 22'08"
-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 18'00"



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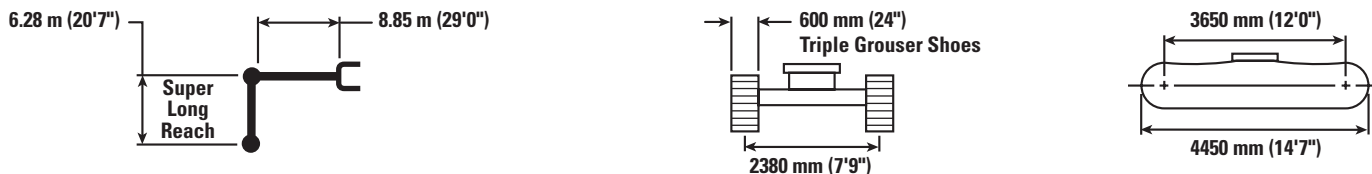
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

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

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

320 Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt (10,400 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		
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 10567:2007



*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.

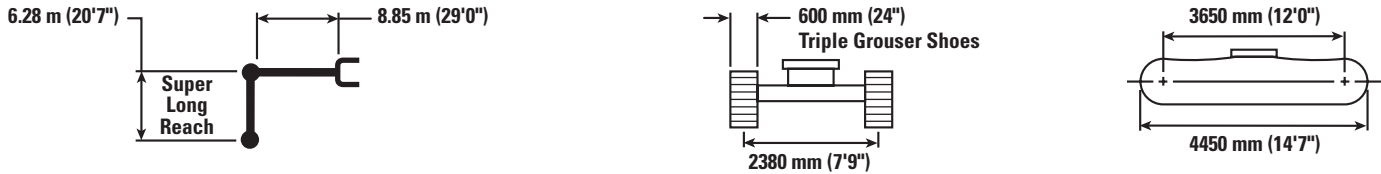
Lift capacity stays with ±5% for all available track shoes.

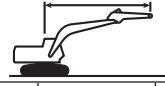










Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(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 10567:2007



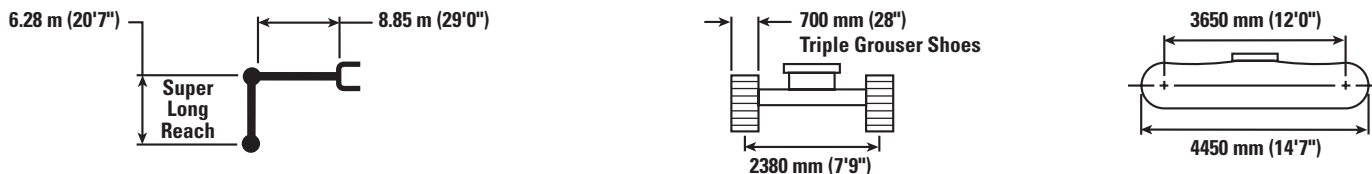
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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



		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											*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 10567:2007



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from the above lifting capacities. Lifting capacities are based on the machine standing on a firm, uniform supporting surface. The use of a work tool attachment point to handle/lift objects, could affect the machine lift performance.

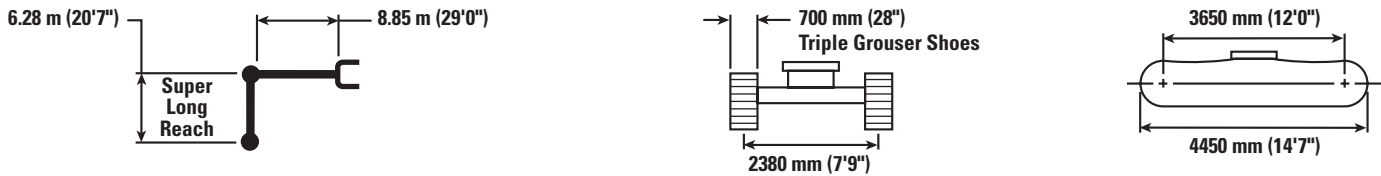
Lift capacity stays with ±5% for all available track shoes.

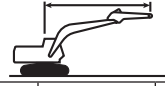










Always refer to the appropriate Operation and Maintenance Manual for specific product information.

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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 10567:2007



*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 ³	yd ³	kg	lb		%	Reach Boom	HD Reach Boom	SLR Boom
										R2.9 (9'6")	HD R2.9 (9'6")	6.28A (20'7")
Pin-On (No Quick Coupler)												
Utility Duty	B	600	24	0.39	0.51	503	1,108	100	●	●		
	B	900	36	0.65	0.84	613	1,351	100	●	●		
	B	1200	48	0.95	1.24	733	1,615	100	●	●		
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	○		
	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	2925	800
									lb	6,636	6,449	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/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)
- ◇ 900 kg/m³ (1,500 lb/yd³)
- X Not Recommended

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

(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 ³	yd ³	kg	lb		Reach Boom	HD Reach Boom
									R2.9 (9'6")	HD R2.9 (9'6")
With Cat Pin Grabber Coupler										
Utility Duty	B	600	24	0.39	0.51	503	1,108	100	●	●
	B	900	36	0.65	0.84	613	1,351	100	●	●
	B	1200	48	0.95	1.24	733	1,615	100	●	⊙
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	○	○
	B	1500	60	1.58	2.06	914	2,014	100	◇	◇
	B	1500	60	1.58	2.06	914	2,014	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	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	○	◇
	B	1500	60	1.58	2.06	1094	2,412	100	◇	◇
Cleanup	B	1800	72	1.60	2.09	979	2,157	100	◇	◇
	B	2000	78	1.76	2.31	1045	2,303	100	◇	X
	B	2000	78	1.76	2.31	1045	2,303	100	◇	X
Ditch Cleaning Tilt	B	1800	72	1.40	1.83	1105	2,437	100	○	◇
Maximum load with coupler (payload + bucket)								kg	2636	2503
								lb	5,811	5,518

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

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

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

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

320 Hydraulic Excavator Specifications

Attachments Offering Guide

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%

PIN-ON ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 GC	✓	✓
	H115 GC S	✓	✓
	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 Flat Top	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		4.2 mt (9,300 lb)	
Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 GC	✓	✓
	H115 GC S	✓	✓
	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 Flat Top	✓*	
Pulverizers	P218 Secondary Pulverizer	✓	✓*
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

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

Match † Allowed usage on machine less than 50%

PIN-ON ATTACHMENTS

Some attachments require more hydraulic flow and are best suited with a machine that has HP2 circuits and a tiltrotator with a high flow swivel. Check the hydraulic capability of your machine and tiltrotator and the requirements of your attachment to ensure a proper match.

Counterweight 4.2 mt (9,300 lb)

Boom Type		Reach	HD Reach
Stick Length		R2.9 (9'6")	HD R2.9 (9'6")
Hydraulic Hammers	H115 GC	✓	✓
	H115 GC S	✓	✓
	H115 S	✓	✓
	H120 GC S	✓†	✓
	H120 S	✓†	✓
Compactors (Vibratory Plate)	CVP75	✓	✓
	CVP110	✓	✓

NOTE: Use hammers on tiltrotators less than 10% of working hours per year or maximum 200 hours per year. Refer to your Operation and Maintenance Manual for recommended hydraulic flow requirements.

BOOM-MOUNT ATTACHMENTS

Counterweight 4.2 mt (9,300 lb)

Boom Type		Reach	HD Reach
Mobile Scrap and Demolition Shears	S3035 Flat Top	✓	✓

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
CAB			ENGINE		
ROPS	✓		Cat® C4.4 twin turbo diesel engine	✓	
OPG		✓	Three selectable power modes: Power, Smart, Eco	✓	
High-resolution 254 mm (10 in) LCD touchscreen monitor	✓		Auto engine speed control	✓	
Auto bi-level air conditioner	✓		Auto engine idle shutdown	✓	
Jog dial and shortcut keys for monitor control	✓		Work up to 3000 m (9,840 ft) above sea level without engine power de-rating	✓	
Keyless push-to-start engine control			52° C (125° F) high-ambient cooling capacity	✓	
Height-adjustable console	✓		Cold starting capability for -32° C (-25° F)	✓	
Tilt-up left-side console	✓		Double element air filter with integrated pre-cleaner	✓	
Heated air-suspension seat	✓		Electric fuel priming pump	✓	
51 mm (2 in) seat belt	✓		Electric cooling fans with auto-reverse function	✓	
Monitor integrated Bluetooth® radio with USB/Auxiliary ports	✓		HYDRAULIC SYSTEM		
12V DC outlets	✓		Boom and stick regeneration circuits	✓	
Document storage	✓		Electronic main control valve	✓	
Overhead storage and rear storage with nets	✓		Auto Dig Boost	✓ ¹	
Beverage holder	✓		Auto heavy lift	✓ ²	
Cup holder	✓		Auto warm up	✓	
Openable two-piece front window	✓		Auto two-speed travel	✓	
Rear window emergency exit	✓		Boom and stick drift reduction valve	✓	
Upper radial wiper with washer	✓		Element type main hydraulic filter	✓	
Openable polycarbonate skylight hatch	✓		Slider joysticks	✓	
LED dome light	✓		Tandem type electronic main pump	✓	
Floor welcome light	✓		Medium pressure auxiliary circuit		✓
Roof sunscreen	✓		Hydraulic efficiency monitoring		✓
Roller front sunscreen	✓		Advanced tool control		✓
Roller rear sunscreen	✓		Quick coupler circuit for Cat pin grabber		✓
Washable floor mat	✓		Fine swing control		✓
Beacon ready	✓				
Cat Stick Steer		✓			

¹Requires heavy lift valve; not available for Super Long Reach.

²Not 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
UNDERCARRIAGE AND STRUCTURES			CAT TECHNOLOGY		
600 mm (24") triple grouser track shoes	✓		Cat Equipment Management:		
700 mm (28") triple grouser track shoes		✓	– VisionLink®	✓ ³	
Tie-down points on base frame	✓		– VisionLink Productivity		✓ ⁴
Segmented track guiding guards	✓		– Remote Flash	✓	
Full-length track guiding guards		✓	– Remote Troubleshoot	✓	
Bottom guards	✓		– Work tool recognition and tracking (PL161)	✓	
HD bottom guards		✓	– Operator Coaching		✓ ⁵
Swivel guard	✓		Cat Grade:		
Travel motor guards	✓		– Cat Grade with 2D	✓ ⁶	
HD travel motor guards		✓	– Cat Grade with 2D with Attachment Ready Option (ARO)		✓
Grease lubricated track links	✓		– Laser catcher		✓
4.2 mt (9,300 lb) counterweight	✓		– Cat Grade with 3D (single or dual GNSS)		✓
4.7 mt (10,400 lb) counterweight for Super Long Reach		✓	– Compatible with 3D grade systems from Trimble, Topcon, and Leica	✓	
Semi-HD swing frame	✓		– Cat Grade 3D Ready		✓
Standard base frame with HD track rollers and standard carrier rollers	✓		– Cat Grade Connectivity		✓ ⁴
BOOM, STICKS AND LINKAGES			Cat Assist: ⁶		
5.7 m (18'8") Reach boom		✓	– Grade Assist	✓	
5.7 m (18'8") HD Reach boom		✓	– Boom Assist	✓	
8.85 m (29'0") Super Long Reach boom		✓	– Bucket Assist	✓	
2.9 m (9'6") Reach stick		✓	– Swing Assist	✓	
6.28 m (20'7") Super Long Reach stick		✓	– Lift Assist	✓	
2.9 m (9'6") HD Reach stick		✓	Cat Payload: ⁶		
Bucket linkage, B1-family with lifting eye, Cat Grade	✓		– On-the-go weighing	✓	
Bucket linkage, A-family without lifting eye, SLR		✓	– Semiautomatic calibration	✓	
ELECTRICAL SYSTEM			– Payload/cycle information	✓	
1,000 CCA maintenance-free batteries (×2)	✓		– VisionLink Productivity back office reporting		✓ ⁴
Centralized electrical disconnect switch	✓		Cat Advanced Payload:		
Programmable time-delay LED working lights	✓		– Daily totals		✓
LED chassis light, Left Hand (LH) and Right Hand (RH) boom lights, cab lights with cover and rain protector – for use with 360° visibility		✓	– Custom lists		✓
LED chassis light, LH and RH boom lights, cab lights	✓		– Smart weight target		✓
Premium surround lighting package		✓	– E-ticket Integration		✓ ⁴
			Other:		
			Cat Tiltrotator (TRS) integration		✓

³Provides core telematics data to manage health, maintenance insights, and condition monitoring. Other plans available for more comprehensive data reporting. Consult your Cat dealer for details.

⁴VisionLink subscription required. Consult your Cat dealer for details.

⁵VisionLink subscription required for back office reporting. Consult your Cat dealer for details.

⁶Optional on machines equipped with a Super Long Reach boom and stick.

(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
SERVICE AND MAINTENANCE			SAFETY AND SECURITY		
Scheduled Oil Sampling (S·O·S SM) ports	✓		Cat Command (remote control)		✓
QuickEvac TM maintenance ready		✓	2D E-Fence:	✓ ⁶	
Grouped location for engine oil and fuel filters	✓		– E-ceiling		
Ground-level second dipstick for engine oil	✓		– E-floor		
Radiator screen		✓	– E-swing		
Integrated vehicle health management system	✓		– E-wall		
			– E-cab avoidance		
			Auto hammer stop	✓	
			Rearview and right-side-view cameras	✓	
			360° visibility		✓
			Neutral lever (lock out) for all controls	✓	
			Anti-skid plate and countersunk bolts on service platform	✓	
			Ground-level accessible secondary engine shutoff switch in cab	✓	
			Lockable disconnect switch	✓	
			Swing alarm		✓
			RH handrail and handhold	✓	
			Travel alarm	✓	
			Inspection lighting		✓

⁶Optional on machines equipped with a Super Long Reach boom and stick.

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Lower radial wiper
- Rain protector plus cab light cover
- Laminated P5A glass front windshield
- LH/RH electrical pedal for tool control
- Armrest kit
- Seat with 4-point seatbelt capability
- Dual exit rear window kit
- 75 mm (3") retractable seat belt
- Auxiliary relay

ELECTRICAL

- Premium surround working lights

GUARDS

- Swivel guard
- Side rubber bumper guard
- Operator Protective Guards
- Mesh guard full front
- Mesh guard half front
- Full protecting vandalism guard

MAINTENANCE

- Jump start wiring
- Duct ready kit

SAFETY AND SECURITY

- Cat Detect – People Detection
- Cat Command – Remote control kit
- Seat belt indicator
- Bluetooth receiver
- Bluetooth key fob

OTHER ATTACHMENTS

- Delayed engine shutdown kit
- Upper cover for antennae
- Removable mast for antennae
- Power clam kit
- Grease gun holder

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C4.4 engine meets U.S. EPA Tier 4 Final, EU Stage V, and Japan 2014 emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)*
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels

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

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 kg (1.9 lb) of refrigerant which has a CO₂ equivalent of 1.216 metric tonnes (1.340 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

ISO 6395:2008 (external) – 99 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.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Cat Bio HYDO™ Advanced is an EU Ecolabel approved biodegradable hydraulic oil.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Smart mode matches machine power to digging requirements automatically
 - Eco mode supports reduced fuel consumption for light applications
 - Utilizing Cat technologies can help increase operating efficiencies
 - Extended service intervals help decrease maintenance costs
 - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	82.98%
Iron	5.36%
Nonferrous Metal	2.57%
Mixed Metal	1.57%
Mixed-Metal and Nonmetal	1.02%
Plastic	1.29%
Rubber	0.19%
Mixed Nonmetallic	0.22%
Fluid	3.18%
Other	1.62%
Uncategorized	0.00%
Total	100%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earthmoving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following value in the table may vary.

Recyclability – 97%

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

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

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