



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 Forestry Configuration

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320 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C7.1	
Net Power		
ISO 9249	117 kW	157 hp
ISO 9249 (DIN)	159 hp (metric)	
Engine Power		
ISO 14396	118 kW	158 hp
ISO 14396 (DIN)	160 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel capability	Up to B20 ⁽¹⁾	

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- 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 1,800 rpm.

⁽¹⁾Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% 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.

*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	21 800 kg	48,100 lb
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- HD Reach boom, HD R2.9 (9'6") stick, HDS 1.40 m³ (1.83 yd³) bucket, 700 mm (28") triple grouser shoes, and 3.7 mt (8,200 lb) counterweight.

Track

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

Drive

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

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – 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	25 L	6.6 gal
Swing Drive	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

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Standards

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

Sound Performance

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

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

Operating Weights and Ground Pressures

	600 mm (24") Double Grouser Shoes		600 mm (24") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		790 mm (31") Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Base Machine Configurations								
Base Frame with HD Track Rollers and Standard Carrier Rollers								
3.7 mt (8,200 lb) Counterweight + Long Undercarriage Base Machine								
HD Reach Boom + HD R2.9 (9'6") Stick + 1.40 m ³ (1.83 yd ³) HDS Bucket	21 800 (48,100)	45.3 (6.6)	21 400 (47,200)	44.5 (6.5)	21 700 (47,800)	38.7 (5.6)	22 100 (48,700)	34.9 (5.1)

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

320 Hydraulic Excavator Specifications

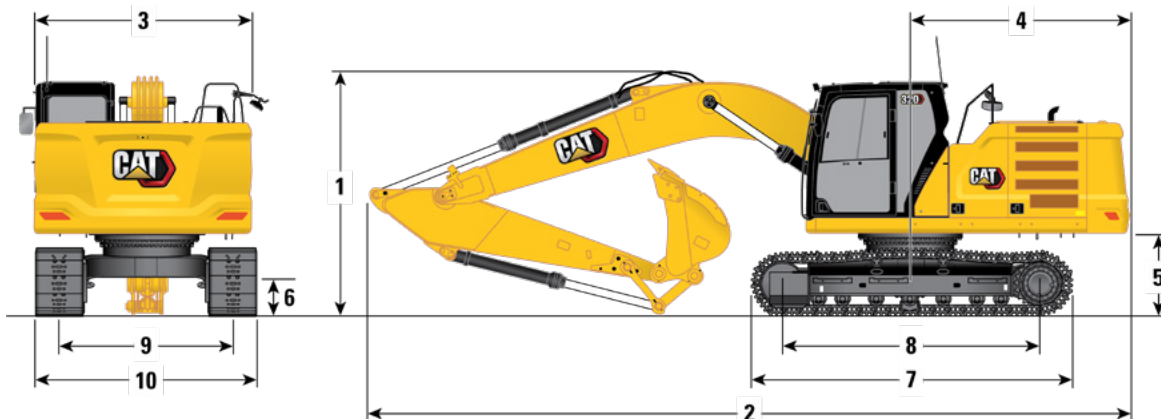
Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	14 010	30,900
Base Machine (with 4.7 mt [10,400 lb] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	15 040	33,100
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, SD base frame with SD track rollers and SD carrier rollers for long undercarriage, without boom cylinders – does not include 90% fuel and 75 kg [165 lb] operator)	14 200	31,300
Track Shoes:		
600 mm (24") Width, 13 mm (0.51") Thick Double Grouser Track Shoes	3080	6,800
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2690	5,900
700 mm (28") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	3050	6,700
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	3370	7,400
Two Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweights:		
3.7 mt (8,200 lb) Counterweight	3700	8,200
4.7 mt (10,400 lb) Counterweight (Super Long Reach [SLR] only)	4700	10,400
Swing Frame:		
Standard Swing Frame	1890	4,170
Semi-HD Swing Frame	1910	4,210
Undercarriages:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers	4390	9,680
SD Base Frame with SD Track Rollers and SD Carrier Rollers	4630	10,200
Booms (including lines, pins, stick cylinder):		
HD Reach Boom 5.7 m (18'8")	1900	4200
Super Long Reach Boom 8.85 m (29'0")	2170	4,800
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
HD Reach Stick R2.9B1 (9'6")	1100	2,400
HD Reach Stick R2.5B1 (8'2")	1060	2,300
Super Long Reach Stick 6.28A (20'7")	1340	3,000
Buckets (without linkage):		
1.19 m ³ (1.56 yd ³) General Duty (GD)	800	1,800
1.19 m ³ (1.56 yd ³) Heavy Duty (HD)	940	2,100
1.20 m ³ (1.57 yd ³) HD	940	2,100
1.40 m ³ (1.83 yd ³) HD	1010	2,230
1.40 m ³ (1.83 yd ³) HDS	1030	2,300
0.57 m ³ (0.75 yd ³) Ditch Cleaning (DC)	390	900
0.53 m ³ (0.69 yd ³) GD	410	900

320 Hydraulic Excavator Specifications

Dimensions

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



Boom Options

HD Reach Boom
5.7 m (18'8")

SLR Boom
8.85 m (29'0")

Stick Options

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

R2.5B1 (8'2")

SLR Stick
6.28A (20'7")

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"	3080 mm	10'1"	3190 mm	10'6"
With Boom/Stick Installed	2910 mm	9'7"	2910 mm	9'7"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2480 mm	8'2"	2650 mm	8'8"

2 Machine Length:

With Boom/Stick/Bucket Installed	9530 mm	31'3"	9530 mm	31'3"	12 750 mm	41'9"
With Boom/Stick Installed	9500 mm	31'2"	9500 mm	31'2"	12 760 mm	41'9"
With Boom Installed	8450 mm	27'9"	8450 mm	27'9"	8920 mm	29'3"

3 Upper Frame Width

	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
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4 Tail Swing Radius

	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
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5 Counterweight Clearance

	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
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6 Ground Clearance

	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
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7 Track Length

	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
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8 Length to Center of Rollers

	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
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9 Track Gauge

	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
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10 Undercarriage Width:

600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"
700 mm (28") Shoes	3080 mm	10'1"	3080 mm	10'1"	3080 mm	10'1"
790 mm (31") Shoes	3170 mm	10'5"	3170 mm	10'5"	3170 mm	10'5"

Bucket Type

HD

HD

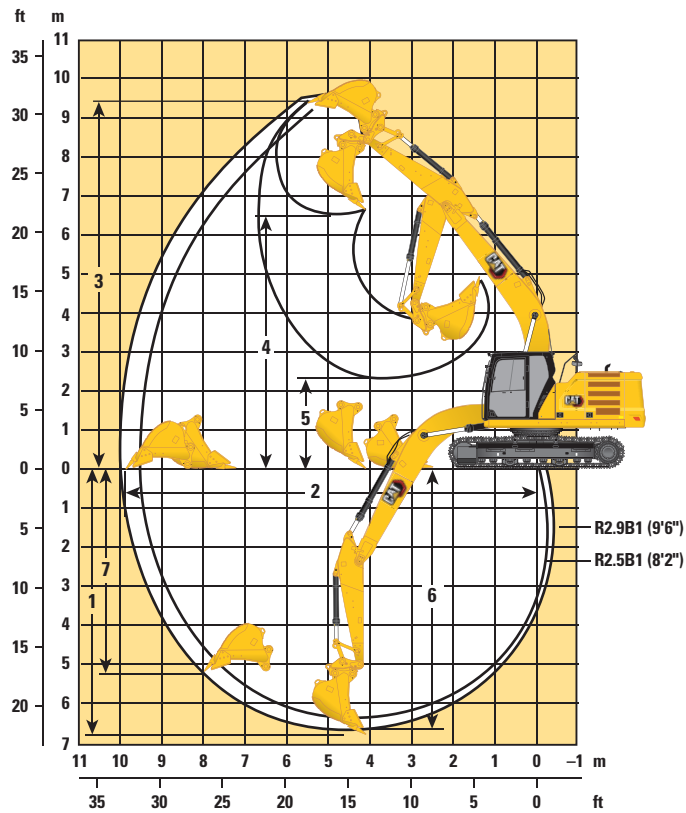
Ditch Cleaning

Bucket Capacity	1.19 m ³	1.56 yd ³	1.19 m ³	1.56 yd ³	0.57 m ³	0.75 yd ³
Bucket Tip Radius	1580 mm	5'2"	1580 mm	5'2"	1073 mm	3'6"

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Working Ranges

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

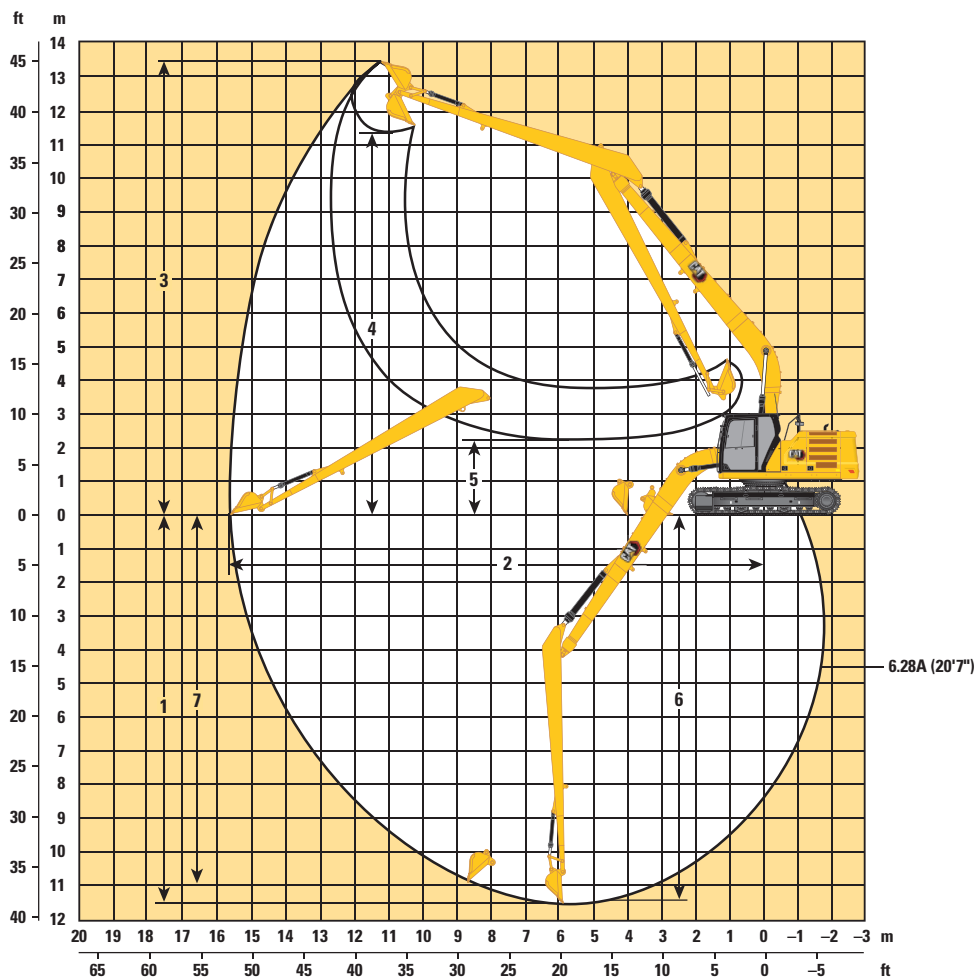


Boom Option	HD Reach Boom 5.7 m (18'8")			
Stick Options	HD Reach Sticks			
	R2.9B1 (9'6")		R2.5B1 (8'2")	
1 Maximum Digging Depth	6720 mm	22'1"	6300 mm	20'7"
2 Maximum Reach at Ground Line	9860 mm	32'4"	9470 mm	31'1"
3 Maximum Cutting Height	9370 mm	30'9"	9170 mm	30'1"
4 Maximum Loading Height	6490 mm	21'4"	6290 mm	20'8"
5 Minimum Loading Height	2170 mm	7'1"	2590 mm	8'6"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6550 mm	21'6"	6110 mm	20'1"
7 Maximum Vertical Wall Digging Depth	5190 mm	17'0"	4800 mm	15'9"
Bucket Digging Force (ISO)	150 kN	33,811 lbf	150 kN	33,811 lbf
Stick Digging Force (ISO)	106 kN	23,911 lbf	118 kN	26,491 lbf
Bucket Digging Force (ISO) – Auto Dig Boost	163 kN	36,709 lbf	163 kN	36,709 lbf
Stick Digging Force (ISO) – Auto Dig Boost	115 kN	25,960 lbf	128 kN	28,762 lbf
Bucket Type	HD		HD	
Bucket Capacity	1.19 m ³	1.56 yd ³	1.19 m ³	1.56 yd ³
Bucket Tip Radius	1570 mm	5'2"	1570 mm	5'2"

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Working Ranges

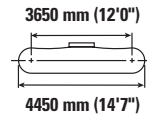
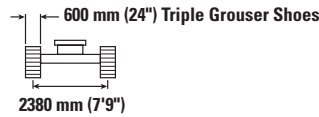
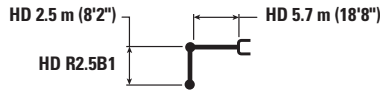
All dimensions are approximate and may vary depending on bucket selection.



Boom Option	SLR Boom 8.85 m (29'0")		SLR Boom 8.85 m (29'0")	
Stick Option	SLR Stick 6.28A (20'7")		SLR Stick 6.28A (20'7")	
1 Maximum Digging Depth	11 690 mm	38'4"	11 540 mm	37'10"
2 Maximum Reach at Ground Line	15 730 mm	51'7"	15 570 mm	51'1"
3 Maximum Cutting Height	13 610 mm	44'8"	13 540 mm	44'5"
4 Maximum Loading Height	11 290 mm	37'0"	11 440 mm	37'6"
5 Minimum Loading Height	2080 mm	6'9"	2240 mm	7'4"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 590 mm	38'0"	11 440 mm	37'6"
7 Maximum Vertical Wall Digging Depth	10 560 mm	34'8"	11 020 mm	36'2"
Bucket Digging Force (ISO)	60 kN	13,549 lbf	62 kN	13,841 lbf
Stick Digging Force (ISO)	49 kN	10,935 lbf	49 kN	10,966 lbf
Bucket Type	GD		Ditch Cleaning	
Bucket Capacity	0.53 m ³	0.69 yd ³	0.57 m ³	0.75 yd ³
Bucket Tip Radius	1230 mm	4'0"	1070 mm	3'6"

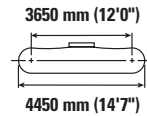
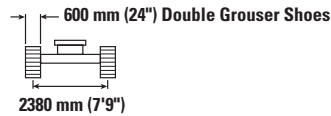
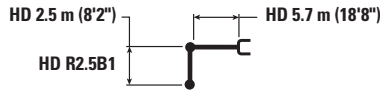
320 Hydraulic Excavator Specifications

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



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		3650 mm (12'0") 4450 mm (14'7")		mm in
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5000 10,700			*4700 *10,350	4000 8,900	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	4850 10,400	*5150	3350	*4600 *10,100	3300 7,300	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7000 15,050	*7000 *15,200	4600 9,850	5200 11,100	3250 7,000	*4700 *10,350	2950 6,550	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6450 13,950	7100 15,200	4350 9,350	5050 10,850	3150 6,800	4550 10,000	2850 6,250	8050 320
0 mm 0 in	kg lb			10 900 23,350	6200 13,400	6900 14,800	4150 9,000	5000 10,700	3100 6,600	4650 10,250	2900 6,350	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 25,750	10 850 23,250	6200 13,300	6850 14,700	4100 8,850			5100 11,300	3150 6,950	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	12 250 26,250	*10 250 *22,200	6300 13,500	6900 14,900	4200 9,050			6250 13,850	3850 8,500	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	6600 14,250					*6600 *14,500	5750 13,000	4980 200

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



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		3650 mm (12'0") 4450 mm (14'7")		mm in
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5100 10,900			*4700 *10,350	4050 9,050	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	4900 10,550	*5150	3400	*4600 *10,100	3350 7,450	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7100 15,300	*7000 *15,200	4650 10,050	5300 11,300	3350 7,150	*4700 *10,350	3050 6,650	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6600 14,200	7200 15,500	4400 9,500	5150 11,050	3200 6,900	4650 10,200	2900 6,350	8050 320
0 mm 0 in	kg lb			11 100 23,750	6350 13,650	7000 15,100	4250 9,150	5050 10,900	3150 6,750	4750 10,450	2950 6,500	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 26,200	11 050 23,650	6300 13,550	6950 14,950	4200 9,050			5200 11,500	3200 7,100	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	12 500 26,700	*10 250 *22,200	6400 13,750	7050 15,200	4300 9,200			6350 14,100	3900 8,650	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	6700 14,500					*6600 *14,500	5850 13,200	4980 200



ISO 10567:2007



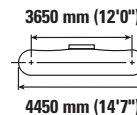
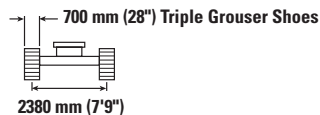
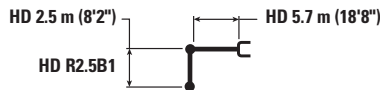
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

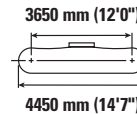
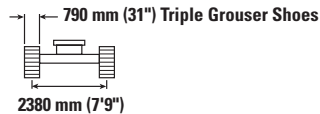
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HD Reach Boom Lift Capacities – Counterweight: 3.7 mt (8,200 lb) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5050 10,850			*4700 *10,350	4050 9,050	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	4900 10,550	*5150	3400	*4600 *10,100	3350 7,450	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7100 15,300	*7000 *15,200	4650 10,000	5250 11,300	3300 7,150	*4700 *10,350	3000 6,650	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6550 14,150	7200 15,450	4400 9,500	5150 11,050	3200 6,900	4650 10,200	2900 6,350	8050 320
0 mm 0 in	kg lb			11 100 23,750	6350 13,600	7000 15,050	4250 9,150	5050 10,900	3150 6,750	4750 10,450	2950 6,450	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 26,150	11 050 23,650	6300 13,500	6950 14,950	4200 9,000			5200 11,500	3200 7,100	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	12 450 26,700	*10 250 *22,200	6400 13,750	7050 15,150	4250 9,200			6350 14,100	3900 8,650	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	6700 14,450					*6600 *14,500	5800 13,200	4980 200

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



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	5150 11,000			*4700 *10,350	4100 9,150	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	4950 10,700	*5150	3450	*4600 *10,100	3400 7,550	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7200 15,500	*7000 *15,200	4700 10,150	5350 11,450	3350 7,250	*4700 *10,350	3050 6,750	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	6650 14,350	7300 15,700	4450 9,650	5200 11,200	3250 7,000	4700 10,350	2950 6,450	8050 320
0 mm 0 in	kg lb			11 250 24,100	6400 13,800	7100 15,300	4300 9,250	5150 11,050	3200 6,850	4800 10,600	3000 6,550	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 26,550	11 200 23,950	6400 13,700	7050 15,150	4250 9,150			5300 11,650	3250 7,200	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	12 650 27,050	*10 250 *22,200	6500 13,950	7150 15,400	4350 9,350			6450 14,300	3950 8,750	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	6800 14,650					*6600 *14,500	5900 13,400	4980 200



ISO 10567:2007



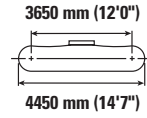
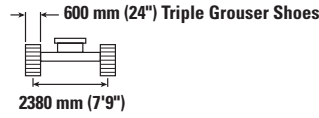
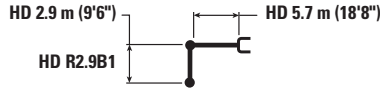
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Lift capacity stays with ±5% for all available track shoes.

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

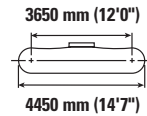
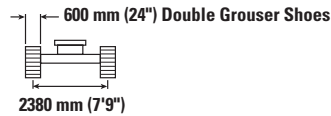
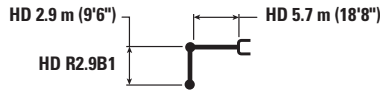
320 Hydraulic Excavator Specifications

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



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

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



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900 *11,650	*4900 5150 11,100			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	5150 11,100			*3900 *8,650	3700 8,250	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5000 10,750	5450 11,650	3500 7,450	*3850 *8,450	3100 6,900	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	7250 15,650	*6700 *14,500	4750 10,200	5300 11,400	3350 7,250	*3950 *8,650	2850 6,200	8360 330
1500 mm 60 in	kg lb					*10,350 *22,250	6700 14,400	7250 15,600	4450 9,600	5200 11,150	3250 6,950	*4150 *9,150	2700 5,950	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11,150 23,900	6400 13,700	7050 15,150	4300 9,200	5050 10,900	3150 6,750	4400 9,700	2750 6,050	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11,350 *25,750	*11,350 *25,750	11,050 23,650	6300 13,500	6950 14,950	4200 9,000	5050 10,850	3100 6,700	4800 10,550	2950 6,550	7780 310
-3000 mm -120 in	kg lb	*12,050 *27,000	*12,050 *27,000	*15,150 *32,750	12,350 26,450	*10,700 *23,050	6350 13,650	7000 15,050	4250 9,100			5700 12,600	3500 7,750	6950 280
-4500 mm -180 in	kg lb			*12,050 *25,750	*12,050 *25,750	*8650 *18,400	6600 14,200					*6550 *14,350	4850 10,950	5600 220



ISO 10567:2007



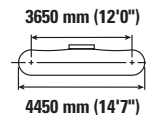
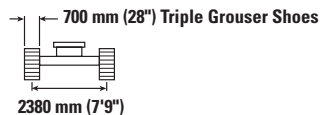
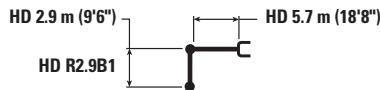
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Lift capacity stays with ±5% for all available track shoes.

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

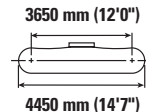
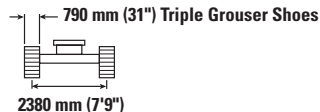
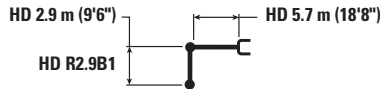
320 Hydraulic Excavator Specifications

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



Reach (mm/in)	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm/in		
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	5150 11,100			*3900 *8,650	3700 8,250	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5000 10,750	5450 11,650	3500 7,450	*3850 *8,450	3100 6,900	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	7250 15,600	*6700 *14,500	4750 10,150	5300 11,400	3350 7,200	*3950 *8,650	2800 6,200	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	6700 14,400	7250 15,600	4450 9,600	5200 11,100	3250 6,950	*4150 *9,150	2700 5,950	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 150 23,850	6350 13,700	7050 15,150	4250 9,200	5050 10,900	3150 6,750	4400 9,700	2750 6,050	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	11 000 23,600	6300 13,500	6950 14,900	4200 9,000	5050 10,850	3100 6,700	4800 10,550	2950 6,550	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	12 350 26,400	*10 700 *23,050	6350 13,650	7000 15,000	4200 9,100			5700 12,600	3500 7,750	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	6650 14,150					*6550 *14,350	4850 10,950	5600 220

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



Reach (mm/in)	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm/in		
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	5250 11,200			*3900 *8,650	3750 8,350	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5050 10,850	*5500 11,800	3550 7,550	*3850 *8,450	3150 7,000	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	7350 15,800	*6700 *14,500	4800 10,300	5400 11,550	3400 7,300	*3950 *8,650	2850 6,300	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	6800 14,600	7350 15,800	4500 9,750	5250 11,300	3300 7,050	*4150 *9,150	2750 6,050	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 300 24,200	6450 13,900	7150 15,350	4350 9,300	5150 11,050	3200 6,850	4500 9,850	2800 6,100	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	11 200 23,950	6350 13,700	7050 15,150	4250 9,150	5100 11,000	3150 6,800	4850 10,700	3000 6,650	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	12 500 26,750	*10 700 *23,050	6450 13,850	7100 15,250	4300 9,200			5750 12,750	3550 7,850	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	6650 14,350					*6550 *14,350	4950 11,100	5600 220



ISO 10567:2007



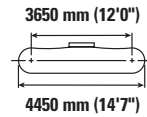
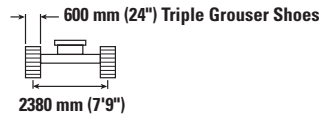
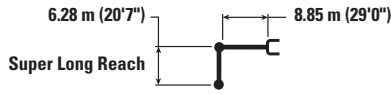
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in	
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
12 000 mm	kg											*1450	10 350
480 in	lb											*3,200	400
10 500 mm	kg											*1350	11 660
420 in	lb											*2,950	460
9000 mm	kg											*1300	12 660
360 in	lb											*2,850	500
7500 mm	kg											*1250	13 410
300 in	lb											*2,800	530
6000 mm	kg											*1250	13 970
240 in	lb											*2,750	550
4500 mm	kg											*1300	14 340
180 in	lb											*2,800	570
3000 mm	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	*3600	*1300	14 550
120 in	lb			*11,800	*11,800	*12,900	*12,900	*9,550	*9,550	*7,800	*7,800	*2,900	580
1500 mm	kg					*6750	6400	*5250	4400	*4100	3250	*1400	14 600
60 in	lb					*15,950	13,800	*11,300	9,550	*8,850	7,050	*3,000	580
0 mm	kg			*2000	*2000	*4650	*4650	*5900	3950	*4550	3000	*1450	14 490
0 in	lb			*4,550	*4,550	*10,700	*10,700	*12,700	8,550	*9,800	6,400	*3,200	570
-1500 mm	kg	*2100	*2100	*2700	*2700	*4650	*4650	*6250	3700	4750	2750	*1550	14 230
-60 in	lb	*4,600	*4,600	*6,050	*6,050	*10,500	*10,500	*13,550	7,950	10,200	5,950	*3,450	560
-3000 mm	kg	*2850	*2850	*3500	*3500	*5200	*5200	6350	3550	4600	2650	*1750	13 790
-120 in	lb	*6,350	*6,350	*7,850	*7,850	*11,700	11,450	13,650	7,650	9,900	5,700	*3,800	550
-4500 mm	kg	*3650	*3650	*4400	*4400	*6050	5350	6300	3500	4550	2600	*1950	13 170
-180 in	lb	*8,150	*8,150	*9,900	*9,900	*13,700	11,500	13,550	7,550	9,800	5,550	*4,300	520
-6000 mm	kg	*4550	*4550	*5400	*5400	*7200	*5450	*6150	3550	4550	2600	*2300	12 340
-240 in	lb	*10,100	*10,100	*12,150	*12,150	*16,300	11,750	*13,250	7,650	9,850	5,600	*5,100	490
-7500 mm	kg	*5500	*5500	*6550	*6550	*7300	5650	*5650	3700	*4550	2700	*2700	11 240
-300 in	lb	*12,250	*12,250	*14,800	*14,800	*15,650	12,200	*12,150	7,900	*9,750	5,750	*5,950	440
-9000 mm	kg			*7950	*7950	*6150	5950	*4850	3850	*3900	2800	*2700	9800
-360 in	lb			*17,450	*17,450	*13,100	12,800	*10,350	8,350	*8,300	6,100	*5,900	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.

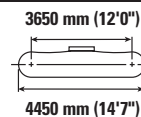
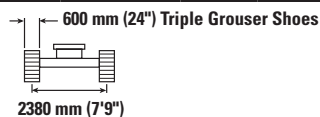
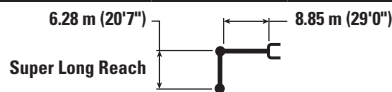
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
												
12 000 mm 480 in	kg lb									*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 4,050			*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 *5,150	*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 4,850	*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 4,550	*2550 *5,500	1700 3,600	2250 4,750	1350 2,850	*1300 *2,900	1150 2,500	14 550 580
1500 mm 60 in	kg lb	*3450 *7,400	2500 5,400	*3000 *6,450	2000 4,250	2650 5,650	1600 3,400	2150 4,650	1300 2,700	*1400 *3,000	1100 2,400	14 600 580
0 mm 0 in	kg lb	*3700 *8,050	2350 5,000	3100 6,650	1850 3,950	2550 5,450	1500 3,200	2100 4,500	1250 2,600	*1450 *3,200	1100 2,350	14 490 570
-1500 mm -60 in	kg lb	3700 7,950	2200 4,650	3000 6,400	1750 3,750	2450 5,300	1450 3,050	2050 4,450	1200 2,500	*1550 *3,450	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3600 7,700	2100 4,450	2900 6,250	1700 3,600	2400 5,200	1400 2,950	2050 *4,200	1150 2,500	*1750 *3,800	1150 2,450	13 790 550
-4500 mm -180 in	kg lb	3550 7,600	2050 4,350	2850 6,150	1650 3,500	2400 5,150	1350 2,950			*1950 *4,300	1200 2,650	13 170 520
-6000 mm -240 in	kg lb	3550 7,600	2050 4,350	2900 6,200	1650 3,550	2450 5,250	1400 3,000			*2300 *5,100	1350 3,000	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 3,550	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,500	2250 4,850							*2700 *5,900	2000 4,550	9800 380



ISO 10567:2007



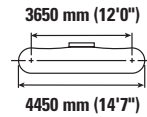
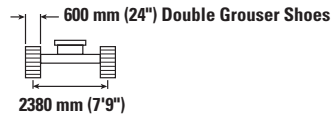
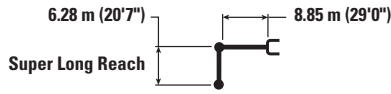
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	
12 000 mm 480 in	kg lb											*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	1250 2,700	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 2,550	14 550 580
1500 mm 60 in	kg lb					*6750 *15,950	6450 14,000	*5250 *11,300	4450 9,650	*4100 *8,850	3300 7,100	*1400 *3,000	1100 2,450	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 8,650	*4550 *9,800	3000 6,500	*1450 *3,200	1100 2,400	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	3750 8,050	4800 10,350	2800 6,050	*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 *11,600	*6400 *13,850	3600 7,750	4700 10,050	2700 5,750	*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	5450 11,650	*6400 *13,750	3600 7,700	4600 9,950	2650 5,650	*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	5550 11,900	*6150 *13,250	3600 7,800	4650 9,950	2650 5,700	*2300 *5,100	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,250	*5500 *12,250	*6550 *14,800	*6550 *14,800	*7300 *15,650	5750 12,350	*5650 *12,150	3750 8,050	*4550 *9,750	2700 5,850	*2700 *5,950	1600 3,600	11 240 440
-9000 mm -360 in	kg lb			*7950 *17,450	*7950 *17,450	*6150 *13,100	6000 13,000	*4850 *10,350	3900 8,450	*3900 *8,300	2850 6,200	*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.

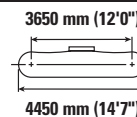
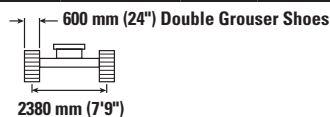
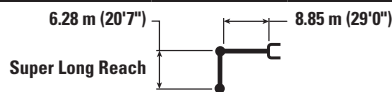
Lift capacity stays with ±5% for all available track shoes.

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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
12 000 mm 480 in	kg lb									*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	1950 4,100			*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 *5,200	*2300 *5,000	1900 4,000	*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 3,850	*2300 4,950	1400 3,000	*1300 *2,800	1250 2,700	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2750 5,950	*2800 *6,000	2150 4,600	*2550 *5,500	1700 3,650	2250 4,850	1350 2,900	*1300 *2,900	1150 2,550	14 550 580
1500 mm 60 in	kg lb	*3450 *7,400	2550 5,450	*3000 *6,450	2000 4,300	2650 5,700	1600 3,450	2200 4,700	1300 2,750	*1400 *3,000	1100 2,450	14 600 580
0 mm 0 in	kg lb	*3700 *8,050	2350 5,050	3150 6,700	1900 4,000	2550 5,500	1550 3,250	2150 4,600	1250 2,650	*1450 *3,200	1100 2,400	14 490 570
-1500 mm -60 in	kg lb	3750 8,050	2200 4,750	3000 6,500	1800 3,800	2500 5,350	1450 3,100	2100 4,500	1200 2,550	*1550 *3,450	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3650 7,800	2100 4,500	2950 6,300	1700 3,650	2450 5,250	1400 3,000	2100 *4,200	1200 2,550	*1750 *3,800	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	3600 7,700	2050 4,400	2900 6,250	1650 3,600	2450 5,250	1400 3,000			*1950 *4,300	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3600 7,700	2050 4,450	2900 6,300	1700 3,600	2450 5,300	1400 3,050			*2300 *5,100	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	3650 7,900	2150 4,600	3000 *6,450	1750 3,750					*2700 *5,950	1600 3,600	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,500	2250 4,900							*2700 *5,900	2050 4,600	9800 380



ISO 10567:2007



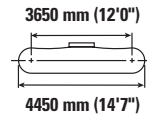
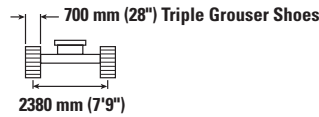
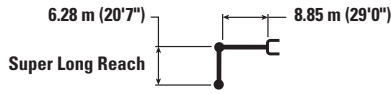
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Lift capacity stays with ±5% for all available track shoes.

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

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	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	1250 2,700	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 13,950	*5250 *11,300	4450 9,650	*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 8,650	*4550 *9,800	3000 6,500	*1450 *3,200	1100 2,400	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	3750 8,050	4800 10,350	2800 6,050	*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 *11,600	*6400 *13,800	3600 7,750	4650 10,050	2700 5,750	*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 11,650	*6400 *13,700	3550 7,650	4600 9,900	2650 5,650	*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	5550 11,900	*6150 *13,250	3600 7,750	4650 9,950	2650 5,700	*2300 *5,100	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	*5500 *12,250	*5500 *12,250	*6550 *14,800	*6550 *14,800	*7300 *15,650	5750 12,350	*5650 *12,150	3700 8,000	*4550 *9,750	2700 5,850	*2700 *5,950	1600 3,600	11 240 440
-9000 mm -360 in	kg lb			*7950 *17,450	*7950 *17,450	*6150 *13,100	6000 12,950	*4850 *10,350	3900 8,450	*3900 *8,300	2850 6,200	*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.

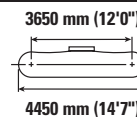
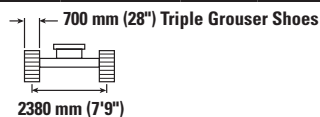
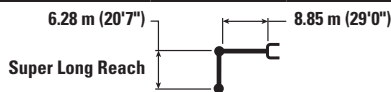
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
												
12 000 mm 480 in	kg lb									*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	1950 4,100			*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 5,200	*2300 *5,000	1900 4,000	*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 3,850	*2300 4,950	1400 3,000	*1300 *2,800	1250 2,700	14 340 570
3000 mm 120 in	kg lb	*3100 *6,750	2750 5,950	*2800 *6,000	2150 4,600	*2550 *5,500	1700 3,650	2250 4,850	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 4,300	2650 5,700	1600 3,450	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 5,050	3150 6,700	1900 4,000	2550 5,500	1500 3,250	2150 4,600	1250 2,650	*1450 *3,200	1100 2,400	14 490 570
-1500 mm -60 in	kg lb	3750 8,050	2200 4,700	3000 6,450	1750 3,800	2500 5,350	1450 3,100	2100 4,500	1200 2,550	*1550 *3,450	1100 2,400	14 230 560
-3000 mm -120 in	kg lb	3650 7,800	2100 4,500	2950 6,300	1700 3,650	2450 5,250	1400 3,000	2100 *4,200	1200 2,550	*1750 *3,800	1150 2,500	13 790 550
-4500 mm -180 in	kg lb	3600 7,700	2050 4,400	2900 6,250	1650 3,550	2450 5,200	1400 3,000			*1950 *4,300	1250 2,700	13 170 520
-6000 mm -240 in	kg lb	3600 7,700	2050 4,450	2900 6,250	1700 3,600	2450 5,300	1400 3,050			*2300 *5,100	1400 3,050	12 340 490
-7500 mm -300 in	kg lb	3650 7,850	2100 4,550	3000 *6,450	1750 3,750					*2700 *5,950	1600 3,600	11 240 440
-9000 mm -360 in	kg lb	*3150 *6,500	2250 4,900							*2700 *5,900	2050 4,600	9800 380



ISO 10567:2007



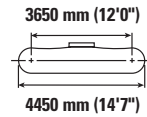
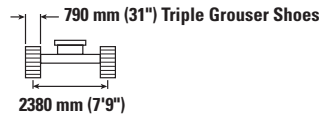
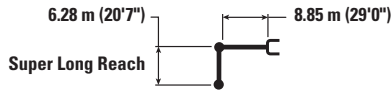
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off



Reach (mm/in)	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm/in		
		kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	kg/lb	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	1250 2,750	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	1200 2,550	14 550 580
1500 mm 60 in	kg/lb					*6750 *15,950	6550 14,150	*5250 *11,300	4550 9,750	*4100 *8,850	3350 7,200	*1400 *3,000	1150 2,450	14 600 580
0 mm 0 in	kg/lb			*2000 *4,550	*2000 *4,550	*4650 *10,700	*4650 *10,700	*5900 *12,700	4100 8,800	*4550 *9,800	3050 6,600	*1450 *3,200	1100 2,450	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	3800 8,200	*4850 *10,450	2850 6,150	*1550 *3,450	1150 2,450	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 *11,700	*6400 *13,900	3650 7,900	4750 10,200	2750 5,850	*1750 *3,800	1150 2,550	13 790 550
-4500 mm -180 in	kg/lb	*3650 *8,150	*3650 *8,150	*4400 *9,900	*4400 *9,900	*6050 *13,700	5500 11,850	*6400 *13,800	3650 7,800	4700 10,100	2700 5,750	*1950 *4,300	1250 2,750	13 170 520
-6000 mm -240 in	kg/lb	*4550 *10,100	*4550 *10,100	*5400 *12,150	*5400 *12,150	*7200 *16,300	5650 12,100	*6150 *13,250	3650 7,900	4700 10,100	2700 5,800	*2300 *5,100	1400 3,100	12 340 490
-7500 mm -300 in	kg/lb	*5500 *12,250	*5500 *12,250	*6550 *14,800	*6550 *14,800	*7300 *15,650	5800 12,550	*5650 *12,150	3800 8,150	*4550 *9,750	2750 5,950	*2700 *5,950	1650 3,650	11 240 440
-9000 mm -360 in	kg/lb			*7950 *17,450	*7950 *17,450	*6150 *13,100	6100 *13,100	*4850 *10,350	3950 8,550	*3900 *8,300	2900 6,300	*2700 *5,900	2100 4,700	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.

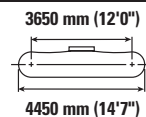
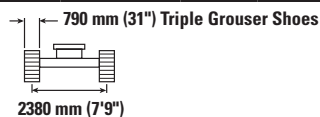
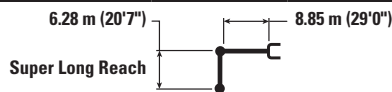
Lift capacity stays with ±5% for all available track shoes.












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

(continued on next page)

320 Hydraulic Excavator Specifications

SLR Boom Lift Capacities – Counterweight: 4.7 mt (10,400 lb) – without Bucket – Heavy Lift: Off (continued)



		9000 mm/360 in		10 500 mm/420 in		12 000 mm/480 in		13 500 mm/540 in				mm in
												
12 000 mm 480 in	kg lb									*1450 *3,200	*1450 *3,200	10350 400
10 500 mm 420 in	kg lb			*2200 *4,850	*2200 *4,850					*1350 *2,950	*1350 *2,950	11660 460
9000 mm 360 in	kg lb			*2200 *4,800	*2200 *4,800	*2200 *4,200	2000 4,150			*1300 *2,850	*1300 *2,850	12660 500
7500 mm 300 in	kg lb			*2250 *4,900	*2250 *4,900	*2200 *4,850	1950 4,150			*1250 *2,800	*1250 *2,800	13410 530
6000 mm 240 in	kg lb			*2400 *5,200	*2400 *5,200	*2300 *5,000	1900 4,050	*2100 *3,700	1500 3,100	*1250 *2,750	*1250 *2,750	13970 550
4500 mm 180 in	kg lb	*2800 *6,050	*2800 *6,050	*2550 *5,550	2350 5,000	2400 *5,200	1850 3,900	2300 *5,000	1450 3,050	*1300 *2,800	1250 2,750	14340 570
3000 mm 120 in	kg lb	*3100 *6,750	2800 6,000	*2800 *6,000	2200 4,700	*2550 *5,500	1750 3,700	2300 4,900	1400 2,950	*1300 *2,900	1200 2,550	14550 580
1500 mm 60 in	kg lb	*3450 *7,400	2600 5,550	*3000 *6,450	2050 4,350	*2700 5,800	1650 3,500	2250 4,800	1300 2,800	*1400 *3,000	1150 2,450	14600 580
0 mm 0 in	kg lb	*3700 *8,050	2400 5,150	3200 6800	1900 4,100	2600 5,600	1550 3,300	2200 4,650	1250 2,700	*1450 *3,200	1100 2,450	14490 570
-1500 mm -60 in	kg lb	3800 8,150	2250 4,800	3050 6,600	1800 3,850	2550 5,450	1500 3,150	2150 4,550	1250 2,600	*1550 *3,450	1150 2,450	14230 560
-3000 mm -120 in	kg lb	3700 7,950	2150 4,600	3000 6,400	1750 3,700	2500 5,350	1450 3,050	2100 *4,200	1200 2,600	*1750 *3,800	1150 2,550	13790 550
-4500 mm -180 in	kg lb	3650 7,850	2100 4,500	2950 6,350	1700 3,650	2450 5,300	1400 3,050			*1950 *4,300	1250 2,750	13170 520
-6000 mm -240 in	kg lb	3650 7,850	2100 4,500	2950 6,400	1700 3,650	2500 5,400	1450 3,100			*2300 *5,100	1400 3,100	12340 490
-7500 mm -300 in	kg lb	3700 *7,950	2150 4,650	3050 *6,450	1800 3,850					*2700 *5,950	1650 3,650	11240 440
-9000 mm -360 in	kg lb	*3150 *6,500	2300 4,950							*2700 *5,900	2100 4,700	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 %	3.7 mt (8,200 lb) Counterweight		4.7 mt (10,400 lb) Counterweight
		mm	in	m ³	yd ³	kg	lb		HD Reach Boom		SLR Boom
									R2.5HD (8'2")	R2.9HD (9'6")	6.28A (20'7")
Pin-On (No Quick Coupler)											
General Duty (GD)	B	1050	42	1.00	1.31	737	1,624	100	⊙	⊙	
	B	1050	42	1.16	1.52	848	1,869	100	⊖	⊖	
Heavy Duty (HD)	B	1050	42	1.00	1.31	892	1,967	100	●	⊙	
	B	1200	48	1.19	1.56	928	2,046	100	⊖	⊖	
Heavy Duty Spade (HDS)	B	1350	54	1.40	1.83	1025	2,260	100	○	○	
Severe Duty (SD)	B	1200	48	1.19	1.56	1038	2,289	90	⊙	⊖	
Severe Duty Spade (SDS)	B	1200	48	1.20	1.57	1011	2,229	90	⊙	⊖	
	B	1350	54	1.56	2.04	1213	2,674	90			
General Duty (GD)	312, A	900	36	0.53	0.69	403	888	100			◇
Ditch Cleaning (DC)	312, A	1200	48	0.57	0.74	386	851	100			◇
Maximum load with pin-on (payload + bucket)								kg	2955	2735	880
								lb	6,515	6,030	1,940
With Cat Pin Grabber Coupler											
General Duty (GD)	B	1050	42	1.00	1.31	737	1,624	100	⊙	⊖	
	B	1050	42	1.16	1.52	848	1,869	100	⊖	○	
Heavy Duty (HD)	B	1050	42	1.00	1.31	892	1,967	100	⊖	○	
	B	1200	48	1.19	1.56	928	2,046	100	○	○	
Heavy Duty Spade (HDS)	B	1350	54	1.40	1.83	1025	2,260	100	◇	◇	
Severe Duty (SD)	B	1200	48	1.19	1.56	1038	2,289	90	○	○	
Severe Duty Spade (SDS)	B	1200	48	1.20	1.57	1011	2,229	90	○	○	
	B	1350	54	1.56	2.04	1213	2,674	90			
Maximum load with coupler (payload + bucket)								kg	2533	2314	
								lb	5,585	5,102	

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)

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
 1800 kg/m³ (3,000 lb/yd³)
 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	
Boom Type		Reach HD	Reach HD
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓	✓
	H120 GC Side Mount	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓*
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓
Orange Peel Grapples	GSH420-500	●	●
	GSH420-600	●	●
	GSH420-750	●	●
	GSH425-750	○	○
	GSH425-950		
	GSH520-500	●	●
	GSH520-600	●	●
	GSH520-750	○	○

(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

* Working range front only

No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	
Boom Type		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC	✓	✓
	H120 GC Side Mount	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC S	✓*	
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓*
	MP318 Demolition Jaw	✓*	
	MP318 Shear Jaw	✓	✓*
	MP318 Universal Jaw	✓*	
Demolition and Sorting Grapples	G318	✓*	
Pulverizers	P218 Secondary Pulverizer	✓*	
	P318 Primary Pulverizer	✓*	
Mulchers	HM4015	✓	✓
	HM4815	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

S70 DEDICATED COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	
Boom Type		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓*
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓*
Demolition and Sorting Grapples	G318	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*	
Pulverizers	P218 Secondary Pulverizer	✓	✓*
	P318 Primary Pulverizer	✓	✓*
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

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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
 * Working range front only
 No Match

HCS70 DEDICATED COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	
Boom Type		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓*
	MP318 Demolition Jaw	✓	✓*
	MP318 Pulverizer Jaw	✓*	
	MP318 Shear Jaw	✓	✓*
	MP318 Universal Jaw	✓	
Demolition and Sorting Grapples	G318	✓	✓*
Pulverizers	P218 Secondary Pulverizer	✓*	
	P318 Primary Pulverizer	✓*	
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

HCS70/55 DEDICATED COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)	
Boom Type		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓
	H120 S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	
	MP318 Demolition Jaw	✓	
	MP318 Pulverizer Jaw	✓*	
	MP318 Shear Jaw	✓	✓*
	MP318 Universal Jaw	✓*	
Demolition and Sorting Grapples	G318	✓	
Pulverizers	P218 Secondary Pulverizer	✓*	
	P318 Primary Pulverizer	✓*	
Compactors (Vibratory Plate)	CVP110	✓	✓
Rotary Cutters	RC20	✓	✓

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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

* Working range front only

No Match

TRS18 (PIN-ON TOP/S70 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

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.

TRS18 (S70 TOP/S70 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

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.

TRS18 (PIN-ON TOP/HCS70 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

H115 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.

(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

* Working range front only

No Match

TRS18 (HCS70 TOP/HCS70 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

H115 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.

TRS18 (PIN-ON TOP/HCS70/55 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

H115 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.

TRS18 (HCS70/55 TOP/HCS70/55 BOTTOM) 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

3.7 mt (8,200 lb)

Boom Type

Reach HD

Stick Length

R2.5HD (8'2")

R2.9HD (9'6")

Hydraulic Hammers

H115 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.

(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

No Match

BOOM-MOUNT ATTACHMENTS

Counterweight	3.7 mt (8,200 lb)		
Boom Type		Reach HD	Reach ES
Mobile Scrap and Demolition Shears	S2050	✓	
	S3035 Flat Top	✓	✓

Thumb Specifications

Bucket Type	Tooth Quantity	Width		Pro Plus		Pro		Stiff Link		Utility	
		mm	in	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber	Pin-On	Cat Pin Grabber
General Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
	7	1350	54	✓	✓	✓	✓	✓	✓	✓	✓
Heavy Duty Power	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48				✓	✓	✓	✓	✓
Severe Duty	5	902	36	✓	✓	✓	✓	✓	✓	✓	✓
	5	1056	42	✓	✓	✓	✓	✓	✓	✓	✓
	6	1208	48	✓	✓	✓	✓	✓	✓	✓	✓
Pin Grabber Performance Buckets	5	902	36		✓					✓	✓
	5	1056	42		✓		✓			✓	✓
	6	1208	48		✓					✓	✓
	7	1350	54							✓	✓

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOM, STICKS AND LINKAGES			ELECTRICAL SYSTEM		
5.7 m (18'8") HD Reach boom		✓	1,000 CCA maintenance-free batteries (×2)	✓	
8.85 m (29'0") Super Long Reach boom		✓	Centralized electrical disconnect switch	✓	
2.9 m (9'6") HD Reach stick		✓	Programmable time-delay LED working lights	✓	
2.5 m (8'2") HD Reach stick		✓	LED chassis light, Left Hand (LH) and Right Hand (RH) boom lights for Reach and SLR, cab lights	✓	
6.28 m (20'7") Super Long Reach stick		✓	Premium surround lighting package		✓
Bucket linkage, B1-family with lifting eye		✓	ENGINE		
Bucket linkage, A-family with lifting eye, SLR		✓	Cat C7.1 single turbo diesel engine	✓	
CAT TECHNOLOGY			Three selectable power modes	✓	
VisionLink®	✓*		Auto engine speed control	✓	
VisionLink Productivity		✓	Auto engine idle shutdown	✓	
Remote Flash	✓		4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓	
Remote Troubleshoot	✓		52° C (125° F) high-ambient cooling capacity	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		Starting capability for -18° C (0° F)	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		Double element air filter with integrated pre-cleaner	✓	
Cat Grade 2D**	✓		Electric cooling fans with auto-reverse function	✓	
Cat Grade 2D with Attachment Ready Option (ARO)		✓	HYDRAULIC SYSTEM		
Cat Grade 3D single GNSS		✓	Boom and stick regeneration circuits	✓	
Cat Grade 3D dual GNSS		✓	Electronic main control valve	✓	
Laser catcher		✓	Auto warm up	✓	
Cat Assist:**	✓		Auto Dig Boost ¹	✓	
– Grade Assist			Auto heavy lift ¹	✓	
– Boom Assist			Auto two-speed travel	✓	
– Bucket Assist			Boom and stick drift reduction valve	✓	
– Swing Assist			Element type main hydraulic filter	✓	
– Lift Assist			Slider joysticks	✓	
Cat Payload:**	✓		Tandem type electronic main pump	✓	
– Static weigh			Hydraulic efficiency monitoring		✓
– Semiautomatic calibration			Hammer return filter circuit		✓
– Payload/cycle information			Tool Control (two pumps, one/two way high-pressure flow)		✓
Work tool recognition (PL161)***		✓	Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓
Work tool tracking (PL161)***		✓			
Cat Tilt Rotator (TRS) Integration		✓			
Operator Coaching		✓			

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

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

***Requires PL161 attachment locator on work tool and Bluetooth® receiver on machine.

¹Not 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
SAFETY AND SECURITY			UNDERCARRIAGE AND STRUCTURES		
Cat Command (remote control)		✓	700 mm (28") triple grouser track shoes		✓
2D E-Fence:**	✓		600 mm (24") double grouser shoes		✓
– E-ceiling			600 mm (24") triple grouser track shoes		✓
– E-floor			790 mm (31") triple grouser track shoes		✓
– E-swing			Tie-down points on base frame	✓	
– E-wall			Segmented track guiding guards	✓	
– E-cab avoidance			Full-length track guiding guards		✓
Auto hammer stop	✓		Bottom guards	✓	
Rearview camera and right-hand side mirror	✓		HD bottom guards		✓
Right-hand-sideview camera		✓	Swivel guard	✓	
360° visibility		✓	Travel motor guards	✓	
Neutral lever (lock out) for all controls	✓		HD travel motor guards		✓
Anti-skid plate and countersunk bolts on service platform	✓		Grease lubricated track links	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓		3.7 mt (8,200 lb) counterweight		✓
Lockable disconnect switch	✓		4.7 mt (10,400 lb) counterweight for Super Long Reach		✓
Swing alarm		✓			
RH handrail and handhold	✓				
Travel alarm	✓				
Inspection lighting		✓			
SERVICE AND MAINTENANCE					
Scheduled Oil Sampling (S·O·S SM) ports	✓				
QuickEvac TM maintenance ready		✓			
Grouped location for engine oil and fuel filters	✓				
Ground-level second dipstick for engine oil	✓				
Radiator screen		✓			
Integrated vehicle health management system	✓				

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

Dealer Installed Kits and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Lower radial wiper
- Rain protector plus cab light cover
- Polycarbonate roof hatch (Comfort cab only)
- Sun visor, slider (Comfort Cab only)
- 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

320 Cab Options

Cab Options

	Comfort	Deluxe
ROPS	●	●
High-resolution 203 mm (8") LCD touchscreen monitor	●	●
High-resolution 254 mm (10") LCD touchscreen monitor	○	○
Auto bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
Height-adjustable console, infinite with no tool	X	●
Height-adjustable console, three steps with tool	●	X
Tilt-up left-side console	X	●
Fixed left-side console	●	X
Mechanical-suspension seat	●	X
Heated air-suspension seat	X	●
51 mm (2") seat belt	●	●
Monitor integrated Bluetooth radio with USB/Aux ports	●	●
12V DC outlets	●	●
Document storage	●	●
Overhead storage and rear storage with nets	X	●
Beverage holder	●	●
Cup holder	●	●
Openable two-piece front window	●	●
Rear window emergency exit	●	●
Radial wiper with washer	●	●
Openable polycarbonate skylight hatch	X	●
Openable steel hatch	●	X
LED dome light	●	●
Roof sunscreen	X	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	○
Washable floor mat	●	●
Beacon ready	●	●
Auxiliary relay	X	○

- Standard
- Optional
- X Not available

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® C7.1 engine meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
 - Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:
 - ✓ 100% 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.
- *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) – 100 dB(A)

ISO 6396:2008 (inside cab) – 70 dB(A)

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

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
 - Increase operating efficiency up to 45% with standard Cat technologies
 - Cut maintenance costs with extended service intervals
 - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval



320

Forestry

The Cat 320 Forestry Configuration provides premium performance and operating efficiency. Up to 20 percent lower fuel consumption vs 320D2 FM and longer maintenance intervals significantly reduce operating costs. Severe Duty undercarriage features an 8-roller bottom, double supported carrier rollers, and 600 mm double grouser track shoes. ROPS comfort cab is fitted with 19 mm polycarbonate front window and 13 mm polycarbonate side windows.

Consult your dealer for regional availability.

Efficient Performance

- Use up to 20 percent less fuel than the Cat 320D2 FM excavator.
- Use onboard information systems to track operating costs, including fuel consumption and daily maintenance.
- The C7.1 engine can run on biodiesel up to B20 and meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- Match the excavator to the job with power modes; let Smart mode automatically match engine and hydraulic power to your processor.
- Auxiliary hydraulic options give you the versatility to use a wide range of attachments.
- Don't let the temperature stop you from working. The excavator has a standard high-ambient temperature capability of 52° C (125° F) and cold start capability of -18° C (0° F).

Operating Cost

- Expect up to 20 percent less maintenance cost than the 320D2 FM. (Savings calculated over 12,000 machine hours.)
- Do all daily maintenance at ground level.
- Check engine oil level quickly and safely with the ground-level engine oil dipstick; fill and check engine oil on top of the machine with a conveniently located second dipstick.
- Fuel filters are synchronized to be changed at 1,000 hours – double the interval from the previous filters.
- The air intake filter with pre-cleaner has double the dust holding capacity of the previous air intake filter.
- The hydraulic oil filter provides improved filtration performance, anti-drain valves to keep oil clean when the filter is replaced, and longer life with a 3,000 hour replacement interval – 50 percent longer than previous filter designs.
- High-efficiency cooling fans run only when needed; you can program intervals so they automatically reverse to keep cores clean without interrupting your work.
- S-O-S ports are on ground level, simplifying maintenance and allowing for quick, easy extraction of fluid samples for analysis.
- Remote troubleshoot connects you to a dealer service professional to help solve your problem and quickly get you to work.
- Remote flash works around your schedule to ensure your machine's software is up to date for optimal performance.
- Cat Product Link provides location, machine hours, fuel usage, productivity, idle time, diagnostic codes, and other machine data on demand through the VisionLink® online interface, helping you improve jobsite efficiency while lowering operating costs.

Comfort and Simplicity

- Work effectively in the Comfort cab with automatic climate control.
- Start the engine with a push button; use a Bluetooth key fob, smartphone app, or the Operator ID passcode.
- Program your power mode and joystick preferences using Operator ID; the excavator will remember what you set each time you go to work.
- Navigate quickly on the standard high-resolution 203 mm (8 in) touchscreen monitor, or with the optional 254 mm (10 in) touchscreen monitor, or with the aid of the jog dial control.
- Enjoy wide spacing between consoles for a more comfortable environment.
- Advanced viscous mounts reduce cab vibration up to 50 percent over previous excavator models.
- Stow your gear with plenty of in-cab storage behind and beneath the seat, overhead, and in the consoles.
- Use the standard radio's USB ports and Bluetooth technology to connect personal devices and make hands-free calls.
- Not sure how a function works or how to maintain the excavator? Always have the operator's manual at your fingertips in the touchscreen monitor.

Safety

- Access 100 percent of daily maintenance points from ground level – no need for you to climb on top of the excavator.
- The cab meets ISO 12117-2:2008 Rollover Protective Structure (ROPS) and ISO 8084:2003 Operator Protective Structure (OPS) standards.
- 19 mm front and 13 mm side windows are made of strong polycarbonate plastic
- Enjoy great visibility to the stem, in each swing direction, and behind you with the help of smaller cab pillars, larger windows, and a flat engine hood design.
- The standard hydraulic lockout lever isolates all hydraulic and travel functions in the lowered position.
- Ground-level shutoff switch stops all fuel to the engine when activated and shuts down the machine.
- A rearview camera is standard, and a right-hand-sideview camera is optional. Upgrade to 360° visibility and you'll easily see objects and personnel around the excavator in a single view.
- The right-hand service platform design provides easy, safe, and quick access to upper service platform; the service platform steps use anti-skid punch plate to prevent slipping.
- The right-hand handrails comply with ISO 2867:2011 requirements.



Engine

Engine Model	Cat C7.1	
Net Power		
ISO 9249	117 kW	157 hp
ISO 9249 (DIN)	159 hp (metric)	
Engine Power		
ISO 14396	118 kW	158 hp
ISO 14396 (DIN)	160 hp (metric)	
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel capability	Up to B20 ⁽¹⁾	

- Meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
- 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 1,800 rpm.

⁽¹⁾Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to:

- ✓ 100% 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.

*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	20 900 kg	46,100 lb
------------------	-----------	-----------

- HD Reach boom, HD R2.9 (9'6"), 600 mm (24") double grouser shoes, and 3.7 mt (8,200 lb) counterweight.

Track

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

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	205 kN	46,000 lbf

Hydraulic System

Main System – Maximum Flow – Implement	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa	5,100 psi
Maximum Pressure – Equipment – Lift Mode	38 000 kPa	5,500 psi
Maximum Pressure – Travel	35 000 kPa	5,100 psi
Maximum Pressure – Swing	27 500 kPa	4,000 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

Service Refill Capacities

Fuel Tank Capacity	345 L	91.1 gal
Cooling System	12.5 L	3.3 gal
Engine Oil	25 L	6.6 gal
Swing Drive	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

Standards

Brakes	ISO 10265:2008
OPS	ISO 8084:2003
Cab/ROPS	ISO 12117-2:2008
OPG (optional)	ISO 10262:1998 Level II

Sound Performance

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

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

Operating Weights and Ground Pressures

	600 mm (24") HD Double Grouser Shoes	
	Weight kg (lb)	Ground Pressure kPa (psi)
Base Machine Configurations		
Base Frame with Track Rollers and Carrier Rollers		
3.7 mt (8,200 lb) Counterweight + Long Undercarriage Base Machine		
HD Reach Boom + HD R2.9 (9'6") Stick	20 900 kg (46,100 lb)	43.5 kPa (6.3 psi)
HD Reach Boom + HD R2.9 (9'6") Stick for Harvester	21 100 kg (46,600 lb)	43.9 kPa (6.4 psi)

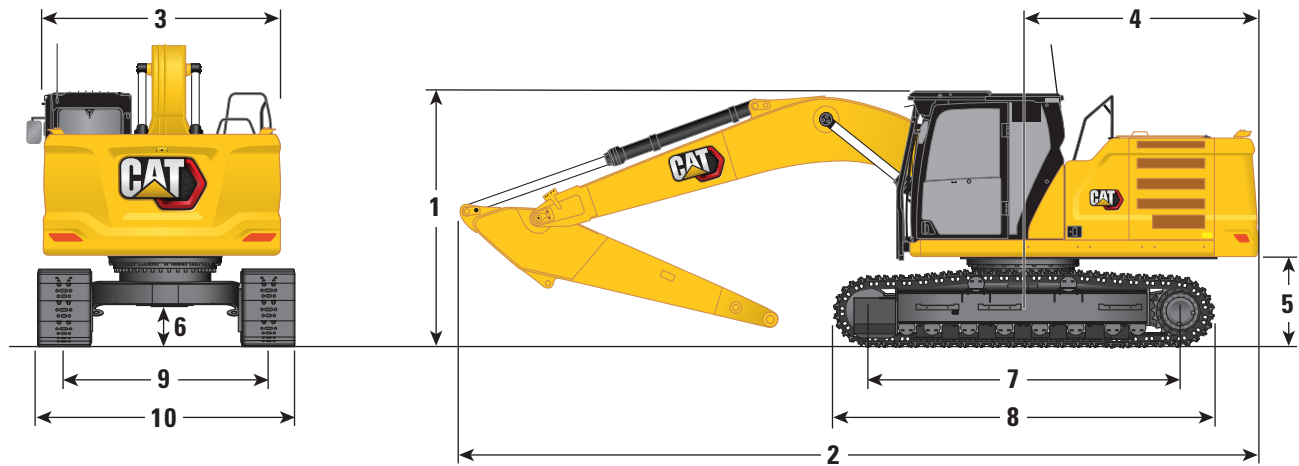
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with SD track rollers and standard carrier rollers with long undercarriage without boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 380	31,700
Track Shoes:		
600 mm (24") Width, 13 mm (0.51") Thick Double Grouser Track Shoes	3080	6,800
Two Boom Cylinders	350	800
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweights:		
3.7 mt (8,200 lb) Counterweight	3700	8,200
Swing Frame:		
Standard Swing Frame	1900	4,200
Undercarriage:		
Base Frame with Track Rollers and Carrier Rollers	5150	10,600
Booms (including lines, pins, stick cylinder):		
HD Reach Boom 5.7 m (18'8")	2020	3,900
HD Straight Boom 5.7 m (18'8") for Harvester	2080	4,000
HD Straight Boom 5.7 m (18'8") for Grapple	2020	3,900
Sticks (including lines, pins):		
HD Reach Stick R2.9B1 (9'6")	770	1,700
HD Reach Stick R2.9B1 (9'6") for Harvester	930	2,100
HD Reach Stick R2.9B1 (9'6") for Grapple	920	2,000
OPG	300	130

Dimensions

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

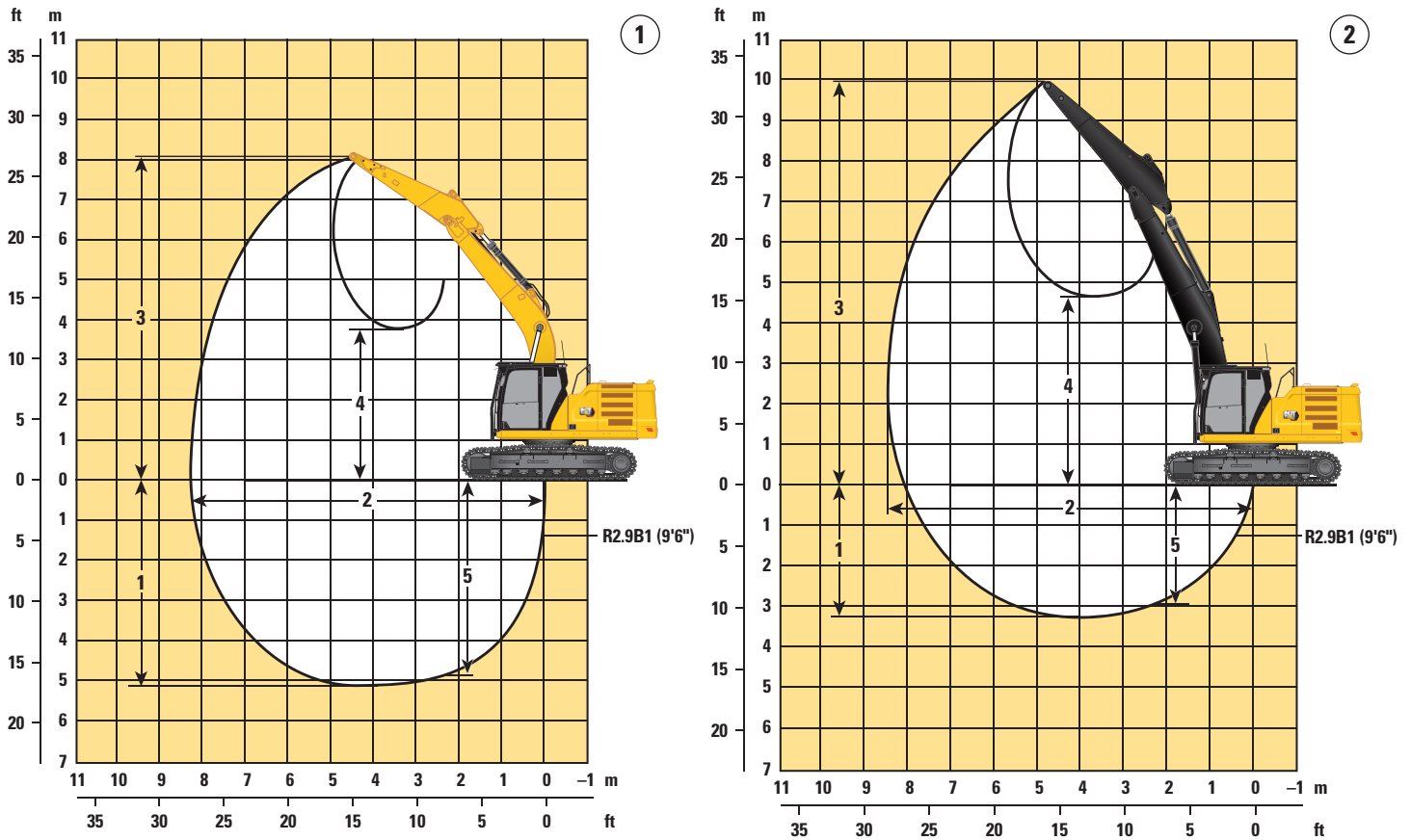


Boom Options	HD Reach Boom 5.7 m (18'8")		HD Straight Boom 5.7 m (18'8")			
Stick Options	HD Reach Stick R2.9B1 (9'6")		R2.9B1 (9'6") Harvester	HD Reach Stick R2.9B1 (9'6") Grapple		
1 Machine Height:						
Top of Cab Height	2970 mm	9'9"	2970 mm	9'9"	2970 mm	9'9"
Top of OPG Height	3120 mm	10'3"	3120 mm	10'3"	3120 mm	10'3"
Handrail Height	2970 mm	9'9"	2970 mm	9'9"	2970 mm	9'9"
With Boom/Stick Installed	2920 mm	9'7"	2590 mm	8'6"	2590 mm	8'6"
With Boom Installed	2480 mm	8'2"	2180 mm	7'2"	2180 mm	7'2"
2 Machine Length:						
With Boom/Stick Installed	9500 mm	31'2"	9550 mm	31'4"	9550 mm	31'4"
With Boom Installed	8460 mm	27'9"	8370 mm	27'6"	8370 mm	27'6"
3 Upper Frame 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	465 mm	1'6"	465 mm	1'6"	465 mm	1'6"
7 Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
8 Track Length	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
9 Track Gauge – Extended	2380 mm	7'10"	2380 mm	7'10"	2380 mm	7'10"
10 Undercarriage Width:						
600 mm (24") Shoes	2980 mm	9'9"	2980 mm	9'9"	2980 mm	9'9"

320 Forestry Specifications

Working Ranges – General Forestry (Processor)

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



Boom Options

HD Reach Boom
5.7 m (18'8")

①

HD Straight Boom
5.7 m (18'8")

②

Stick Options

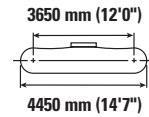
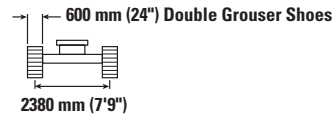
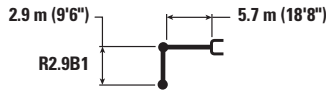
HD Reach Stick
R2.9B1 (9'6")

HD Reach Stick
R2.9B1 (9'6")
Harvester

HD Reach Stick
R2.9B1 (9'6")
Grapple

	HD Reach Stick R2.9B1 (9'6")	HD Reach Stick R2.9B1 (9'6") Harvester	HD Reach Stick R2.9B1 (9'6") Grapple
1 Maximum Digging Depth	5140 mm 16'10"	3260 mm 10'8"	3260 mm 10'8"
2 Maximum Reach at Ground Line	8260 mm 27'1"	8440 mm 27'8"	8440 mm 27'8"
3 Maximum Cutting Height	8070 mm 26'6"	9980 mm 32'9"	9980 mm 32'9"
4 Minimum Loading Height	3750 mm 12'4"	4770 mm 15'8"	4770 mm 15'8"
5 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	4800 mm 15'9"	2990 mm 9'10"	2990 mm 9'10"

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



		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft		mm ft/in		
7.5 m 25 ft	kg lb							*4700	*4700			*4050 *9,000	*4050 *9,000	6160 19'9"
6.0 m 20 ft	kg lb							*5100 *11,150	*5100 *11,150			*3800 *8,350	*3800 *8,350	7290 23'8"
4.5 m 15 ft	kg lb							*5550 *12,100	5300 11,450	*5250 *11,450	3750 8,100	*3750 *8,200	3400 7,500	7990 26'1"
3.0 m 10 ft	kg lb					*8050 *17,350	7650 16,500	*6350 *13,800	5050 10,900	*5550 *12,100	3650 7,900	*3800 *8,350	3100 6,850	8360 27'4"
1.5 m 5 ft	kg lb					*9700 *20,950	7100 15,350	*7200 *15,550	4800 10,350	5550 11,900	3550 7,650	*4050 *8,850	3000 6,600	8450 27'8"
0 m 0 ft	kg lb			*6400 *14,700	*6400 *14,700	*10 600 *22,900	6800 14,700	7450 16,050	4650 10,000	5450 11,650	3450 7,450	*4450 *9,800	3050 6,700	8260 27'0"
-1.5 m -5 ft	kg lb	*6850 *15,300	*6850 *15,300	*10 950 *24,800	*10 950 *24,800	*10 700 *23,100	6750 14,450	7350 15,850	4550 9,800	5400 11,600	3450 7,400	5150 11,350	3300 7,200	7780 25'5"
-3.0 m -10 ft	kg lb	*11 600 *26,000	*11 600 *26,000	*14 050 *30,450	12 950 27,800	*10 000 *21,600	6800 14,600	7400 15,950	4600 9,850			6050 13,400	3850 8,500	6940 22'7"
-4.5 m -15 ft	kg lb			*11 200 *24,000	*11 200 *24,000	*8100 *17,300	7000 15,100					*6200 *13,600	5250 11,800	5590 18'0"



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.

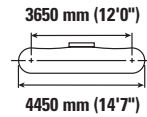
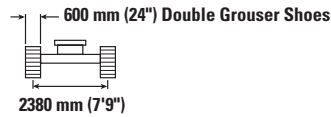
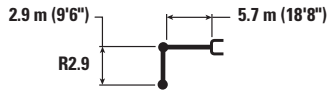
Lift capacity stays with ±5% for all available track shoes.












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

320 Forestry Specifications

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

Harvester



		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				mm ft/in
												
9.0 m 30 ft	kg lb			*5850	*5850					*5500 *12,500	*5500 *12,500	4580 14'2"
7.5 m 25 ft	kg lb			*6650 *14,750	*6650 *14,750	*5900 *11,850	5250 11,200			*4400 *9,750	*4400 *9,750	6390 20'7"
6.0 m 20 ft	kg lb			*6400 *14,150	*6400 *14,150	*6750 *14,750	5250 11,300			*3950 *8,750	3600 8,050	7490 24'4"
4.5 m 15 ft	kg lb	*7650 *16,050	*7650 *16,050	*7900 *17,050	*7900 *17,050	*7250 *15,750	5100 10,950	5600 12,050	3600 7,750	*3800 *8,350	3100 6,900	8170 26'8"
3.0 m 10 ft	kg lb			*10 100 *21,850	7350 15,800	*7700 16,600	4850 10,450	5500 11,800	3500 7,550	*3800 *8,300	2900 6,350	8530 27'11"
1.5 m 5 ft	kg lb			*10 650 *23,100	6800 14,650	7450 16,000	4600 9,900	5350 11,550	3400 7,300	*3900 *8,550	2800 6,150	8620 28'3"
0 m 0 ft	kg lb			*10 200 *22,100	6550 14,050	7250 15,600	4450 9,550	5300 11,350	3300 7,150	*4150 *9,150	2850 6,300	8430 27'7"
-1.5 m -5 ft	kg lb	*8850 *20,200	*8850 *20,200	*8700 *18,900	6500 14,000	*6700 *14,450	4400 9,450	*4850 *10,200	3300 7,150	*3950 *8,650	3100 6,850	7960 26'0"
-3.0 m -10 ft	kg lb			*6250 *13,400	*6250 *13,400	*4800 *10,100	4450 9,650			*4100 *9,250	4000 9,050	6540 21'0"



ISO 10567:2007



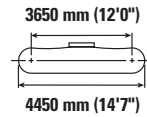
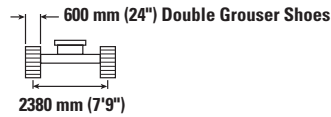
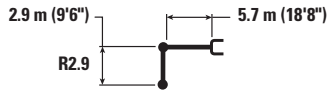
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

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

Grapple



		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft		Grapple		mm ft/in
9.0 m 30 ft	kg lb			*5850	*5850					*5450 *12,500	*5450 *12,500	4580 14'2"
7.5 m 25 ft	kg lb			*6650 *14,750	*6650 *14,750	*5900 *11,800	5250 11,200			*4350 *9,700	*4350 *9,700	6390 20'7"
6.0 m 20 ft	kg lb			*6400 *14,150	*6400 *14,150	*6750 *14,750	5250 11,300			*3950 *8,700	3650 8,050	7490 24'4"
4.5 m 15 ft	kg lb	*7650 *16,050	*7650 *16,050	*7900 *17,050	*7900 *17,050	*7300 *15,800	5100 10,950	5600 12,050	3600 7,750	*3800 *8,350	3150 6,900	8170 26'8"
3.0 m 10 ft	kg lb			*10 150 *21,900	7350 15,850	*7700 16,600	4850 10,450	5500 11,800	3500 7,550	*3800 *8,300	2900 6,350	8530 27'11"
1.5 m 5 ft	kg lb			*10 700 *23,200	6800 14,700	7450 16,000	4600 9,900	5350 11,550	3400 7,300	*3900 *8,550	2800 6,150	8620 28'3"
0 m 0 ft	kg lb			*10 250 *22,200	6550 14,150	7250 15,650	4450 9,600	5300 11,400	3350 7,150	*4150 *9,150	2900 6,300	8430 27'7"
-1.5 m -5 ft	kg lb	*8850 *20,150	*8850 *20,150	*8750 *19,000	6550 14,050	*6750 *14,550	4400 9,500	*4850 *10,250	3350 7,200	*4000 *8,700	3100 6,850	7960 26'0"
-3.0 m -10 ft	kg lb			*6300 *13,500	*6300 *13,500	*4850 *10,200	4500 9,650			*4150 *9,300	4050 9,100	6540 21'0"



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 Forestry Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
BOOMS AND STICKS			CAT TECHNOLOGY		
5.7 m (18' 8") HD Reach boom		✓	VisionLink®	✓*	
5.7 m (18' 8") HD Straight boom for Harvester		✓	VisionLink Productivity		✓
5.7 m (18' 8") HD Straight boom for Grapple		✓	ELECTRICAL SYSTEM		
2.9 m (9' 6") HD Reach stick		✓	Maintenance-free 1,000 CCA batteries (×2)	✓	
2.9 m (9' 6") HD Stick for Harvester		✓	Centralized electrical disconnect switch	✓	
2.9 m (9' 6") HD Stick for Grapple		✓	Programmable time-delay LED working lights	✓	
CAB			LED chassis light, LH and RH boom lights, LH and RH cab lights	✓	
ROPS	✓		Premium surround lighting package		✓
19 mm (3/4") polycarbonate front window	✓		ENGINE		
13 mm (1/2") polycarbonate side and rear windows	✓		Cat® C7.1 single turbo diesel engine	✓	
High-resolution 203 mm (8") LCD touchscreen monitor	✓		Three selectable power modes	✓	
High-resolution 254 mm (10") LCD touchscreen monitor		✓	Auto engine speed control	✓	
Auto bi-level air conditioner	✓		Auto engine idle shutdown	✓	
Jog dial and shortcut keys for monitor control	✓		4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓	
Keyless push-to-start engine control	✓		52° C (125° F) high-ambient cooling capacity	✓	
Height-adjustable console, three steps with tool, arm rest height and angle adjustment	✓		-18° C (0° F) cold start capability	✓	
Monitor integrated Bluetooth radio with USB/Auxiliary ports	✓		Double element air filter with integrated pre-cleaner	✓	
Air suspension seat with headrest	✓		Electric cooling fans with auto-reverse function	✓	
51 mm (2") seat belt	✓		GUARDS		
Tilt up left-side console	✓		Full-length track guiding guards	✓	
12V DC outlets	✓		HD bottom guards	✓	
Document storage	✓		Swivel guard	✓	
Cup and bottle holders	✓		HD travel motor guards	✓	
Upper parallel wiper with washer	✓		OPG		✓
Openable steel hatch	✓				
LED dome and lower lights	✓				
Roller front sunscreen	✓				
Roller rear sunscreen		✓			
Washable floor mat	✓				
Beacon ready	✓				
OPG ready	✓				

(continued on next page)

*Connect subscription only. Additional subscriptions are available. Contact your Cat dealer for availability.

320 Forestry 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
HYDRAULIC SYSTEM			SERVICE AND MAINTENANCE		
Tool Control 25 Hydraulic Package for Forestry (two pumps, one/two way high-pressure flow)	✓		Grouped location of engine oil and fuel filters	✓	
Auto heavy lift	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Boom and stick regeneration circuits	✓		Ground-level second dipstick for engine oil	✓	
Electronic main control valve	✓		QuickEvac TM maintenance ready		✓
Auto warm up	✓		Radiator screen		✓
Auto two-speed travel	✓		Integrated vehicle health management system	✓	
Boom and stick drift reduction valve	✓		UNDERCARRIAGE AND STRUCTURES		
Element type main hydraulic filter	✓		600 mm (24") HD double grouser track shoes	✓	
Slider joysticks	✓		Grease lubricated track links	✓	
Tandem type electronic main pump	✓		Tie-down points on base frame	✓	
Hydraulic efficiency monitoring		✓	3.7 mt (8,200 lb) counterweight	✓	
SAFETY AND SECURITY					
Rearview camera and right-hand side mirror	✓				
Right-hand-sideview camera		✓			
360° visibility for OPG	✓				
Neutral lever (lock out) for all controls	✓				
Lockable disconnect switch	✓				
Anti-skid plate and countersunk bolts on service platform	✓				
Swing alarm		✓			
Ground-level accessible secondary engine shutoff switch in cab	✓				
Travel alarm	✓				



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Replaces AEXQ2221-07
Build Number: 07G
(S Am [except Chile, Colombia])

