



320

Hydraulic Excavator

Technical Specifications

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

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320 Hydraulic Excavator Specifications

Engine

Engine Model	Cat® 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	11.3 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

Weights

Operating Weight	22 000 kg	48,500 lb
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- HD Reach boom, HD R2.9 (9'6") stick, 1.19 m³ (1.56 yd³) Heavy Duty (HD) bucket, 790 mm (31") triple grouser shoes, and 3.7 mt (8,200 lb) counterweight.

Track

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

Drive

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

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Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	6 L	1.6 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

Standards

Brakes	ISO 10265:2008
Cab/Rollover Protective Structure (ROPS)	ISO 12117-2:2008
Cab/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") Triple Grouser Shoes		790 mm (31") Triple Grouser Shoes					
	Weight	Ground Pressure	Weight	Ground Pressure				
	kg	lb	kPa	psi	kg	lb	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 + 1.19 m ³ (1.56 yd ³) HD Bucket	21 300	47,000	44.3	6.4	22 000	48,500	34.8	5.0

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

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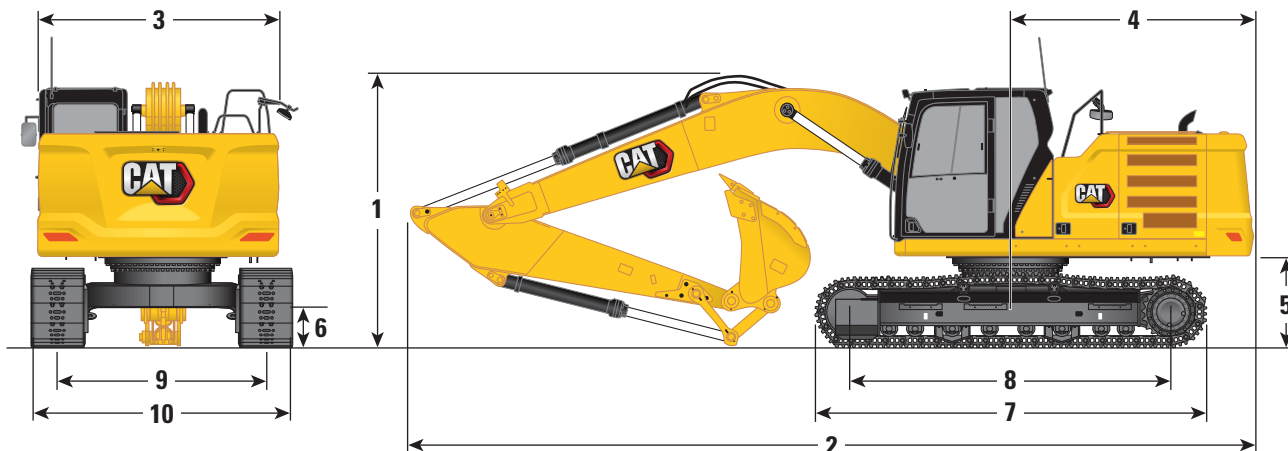
Major Component Weights

	kg	lb
Base Machine (with 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 cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 010	30,900
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD swing frame, HD Base frame with SD track rollers and standard carrier rollers for long undercarriage, without boom cylinder -does not include 90% fuel and 75 kg [165 lb] operator)	14 560	32,100
Base Machine (with 4.2 mt [9,300 lb] counterweight, semi-HD swing frame, standard base frame with HD track rollers and standard carrier rollers for long undercarriage, without boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	14 540	32,000
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 cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	15 040	33,100
Track Shoes:		
600 mm (24") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes	2690	5,900
790 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	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
4.2 mt (9,300 lb) Counterweight	4200	9,300
4.7 mt (10,400 lb) Counterweight (Super Long Reach [SLR] only)	4700	10,400
Swing Frames:		
Standard Swing Frame	1890	4,170
Semi-HD Swing Frame (Super Long Reach only)	1910	4,210
Undercarriages:		
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers	4390	9,680
HD Base Frame with SD Track Rollers and Standard Carrier Rollers	4410	9,720
Booms (including lines, pins, stick cylinder):		
HD Reach Boom 5.7 m (18'8")	1900	4,200
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) HD	940	2,100
0.57 m ³ (0.74 yd ³) Ditch Cleaning (DC)	390	850
0.53 m ³ (0.69 yd ³) General Duty (GD)	400	890

320 Hydraulic Excavator Specifications

Dimensions

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



Boom Options

HD Reach Boom
5.7 m (18'8")

SLR Boom
8.85 m (29'0")

Stick Options

HD Reach Sticks
R2.9B1 (9'6") R2.5B1 (8'2")

SLR Stick
6.28A (20'7")

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"	3160 mm	10'4"	3190 mm	10'6"
With Boom/Stick Installed	2910 mm	9'7"	2910 mm	9'7"	3070 mm	10'1"
With Boom Installed	2480 mm	8'2"	2480 mm	8'2"	2650 mm	8'8"

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 Upperframe Width

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

Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
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5 Counterweight Clearance

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

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

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

Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
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9 Track Gauge

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"
790 mm (31") Shoes	3170 mm	10'5"	3170 mm	10'5"	3170 mm	10'5"

Bucket Type

HD

HD

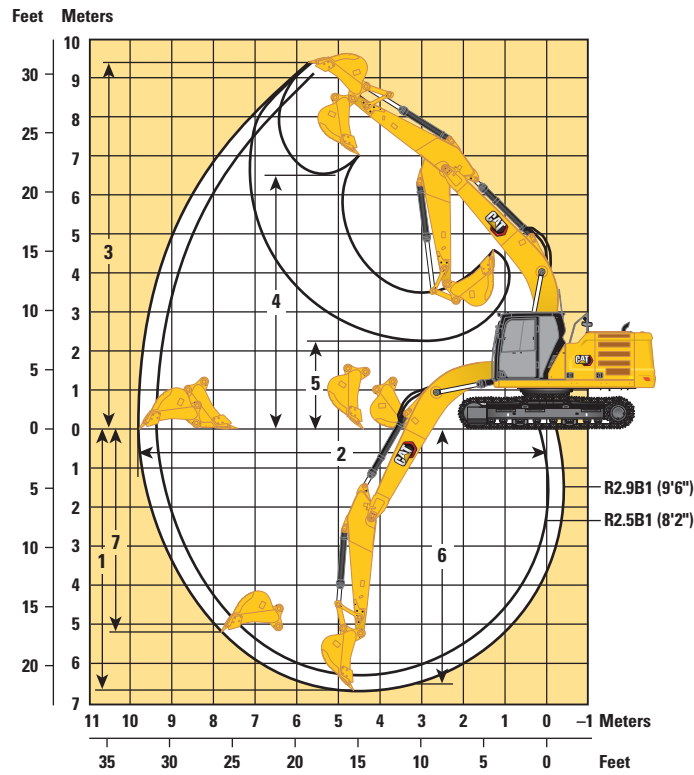
GD

Bucket Capacity	1.19 m ³	1.56 yd ³	1.19 m ³	1.56 yd ³	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1570 mm	5'2"	1570 mm	5'2"	1230 mm	4'0"

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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")

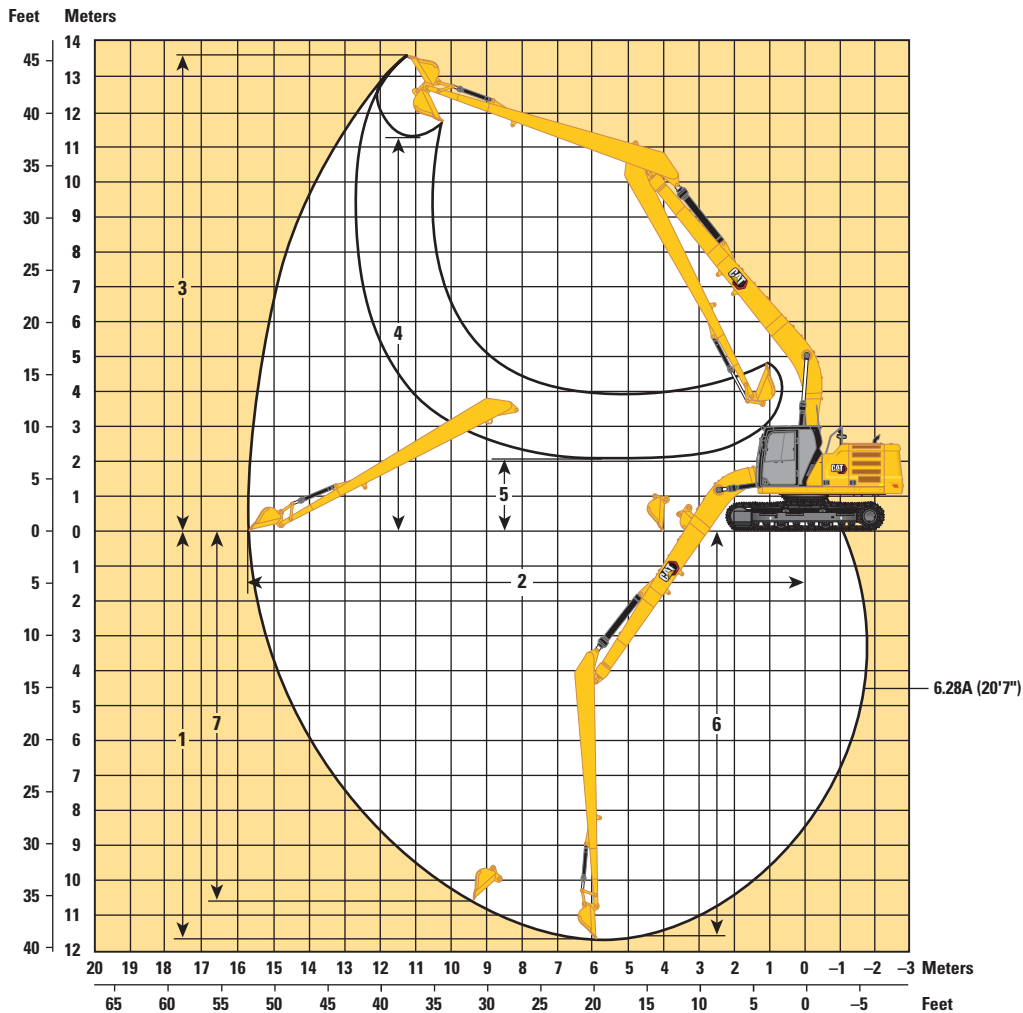
R2.5B1 (8'2")

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

320 Hydraulic Excavator Specifications

Working Ranges

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



Boom Option

SLR Boom
8.85 m (29'0")

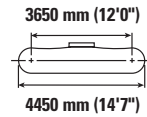
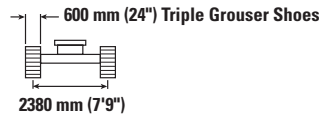
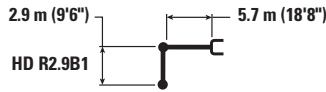
Stick Option

SLR Stick
6.28A (20'7")

1 Maximum Digging Depth	11 690 mm	38'4"
2 Maximum Reach at Ground Line	15 730 mm	51'7"
3 Maximum Cutting Height	13 610 mm	44'8"
4 Maximum Loading Height	11 290 mm	37'0"
5 Minimum Loading Height	2080 mm	6'9"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	11 590 mm	38'0"
7 Maximum Vertical Wall Digging Depth	10 560 mm	34'8"
Bucket Digging Force (ISO)	60 kN	13,549 lbf
Stick Digging Force (ISO)	49 kN	10,935 lbf
Bucket Type	GD	
Bucket Capacity	0.53 m ³	0.69 yd ³
Bucket Tip Radius	1230 mm	40"

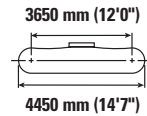
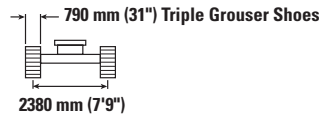
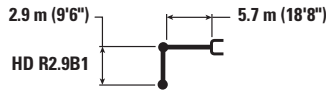
320 Hydraulic Excavator Specifications

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	5100 10,950			*3900 *8,650	3650 8,200	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	4950 10,650	5400 11,550	3450 7,400	*3850 *8,450	3100 6,850	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7200 15,500	*6750 *14,650	4700 10,100	5250 11,300	3350 7,200	*3950 *8,650	2800 6,200	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	6650 14,350	7200 15,450	4450 9,550	5150 11,050	3250 6,950	*4200 *9,150	2700 5,950	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 050 23,700	6350 13,700	7000 15,050	4250 9,200	5050 10,800	3150 6,750	4400 9,650	2750 6,050	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	10 950 23,450	6300 13,500	6900 14,850	4200 9,000	5000 10,750	3100 6,700	4750 10,500	2950 6,550	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	12 300 26,350	*10 800 *23,350	6350 13,650	6950 14,900	4200 9,100			5650 12,500	3500 7,750	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	6550 14,100					*6600 *14,550	4850 10,900	5600 220

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	5200 11,200			*3900 *8,650	3750 8,350	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5050 10,850	5500 11,800	3550 7,600	*3850 *8,450	3200 7,050	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7350 15,850	*6750 *14,650	4800 10,350	5400 11,600	3450 7,350	*3950 *8,650	2900 6,350	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	6850 14,700	7400 15,850	4550 9,800	5250 11,300	3300 7,100	*4200 *9,150	2800 6,100	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	11 350 24,300	6550 14,050	7150 15,400	4400 9,400	5150 11,100	3200 6,900	4500 9,900	2800 6,200	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	11 250 24,050	6450 13,850	7100 15,200	4300 9,250	5150 11,050	3200 6,850	4900 10,750	3050 6,700	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	12 600 27,000	*10 800 *23,350	6500 13,950	7100 15,300	4350 9,300			5800 12,800	3600 7,950	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	6700 14,450					*6600 *14,550	4950 11,200	5600 220



ISO 10567:2007



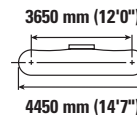
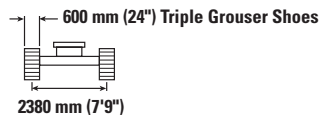
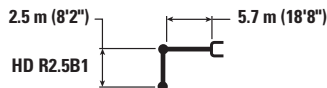
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

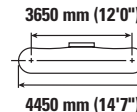
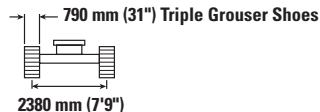
320 Hydraulic Excavator Specifications

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 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5050 10,800			*4700 *10,350	4050 9,000	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	4900 10,500	*5200	3400	*4600 *10,100	3350 7,450	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7050 15,250	*7100 *15,400	4650 10,000	5250 11,250	3350 7,150	*4700 *10,350	3050 6,650	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	6600 14,150	7150 15,400	4400 9,500	5150 11,000	3250 6,900	4600 10,150	2900 6,400	8050 320
0 mm 0 in	kg lb			11 050 23,650	6350 13,650	7000 15,000	4250 9,150	5050 10,850	3150 6,750	4750 10,400	2950 6,500	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 26,200	11 000 23,550	6300 13,550	6950 14,900	4200 9,050			5200 11,450	3250 7,100	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	12 450 26,700	*10 400 *22,500	6400 13,800	7000 15,100	4300 9,250			6300 14,000	3900 8,650	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	6700 14,450					*6700 *14,700	5800 13,200	4980 200

HD Reach Boom Lift Capacities – Counterweight: 3.7 mt (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 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5150 11,050			*4700 *10,350	4150 9,250	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	5000 10,750	*5200	3500	*4600 *10,100	3450 7,600	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7200 15,550	*7100 *15,400	4750 10,250	5350 11,550	3400 7,300	*4700 *10,350	3100 6,850	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	6750 14,500	7350 15,750	4550 9,750	5250 11,300	3300 7,100	4750 10,400	3000 6,550	8050 320
0 mm 0 in	kg lb			11 300 24,250	6500 14,000	7150 15,400	4350 9,400	5200 11,150	3250 6,950	4850 10,650	3050 6,650	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 26,850	11 250 24,100	6450 13,900	7100 15,250	4300 9,300			5300 11,750	3300 7,300	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	12 750 27,300	*10 400 *22,500	6550 14,150	7200 15,450	4400 9,450			6450 14,350	4000 8,900	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	6850 14,800					*6700 *14,700	5950 13,500	4980 200



ISO 10567:2007



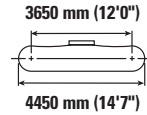
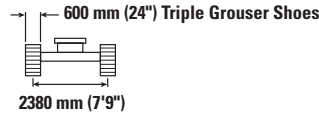
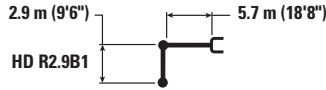
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Lift capacity stays with ±5% for all available track shoes.

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

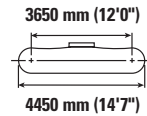
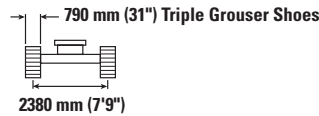
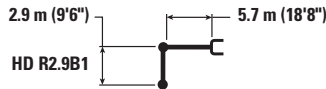
320 Hydraulic Excavator Specifications

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	*5350 *11,600			*3900 *8,650	3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5250 *11,250	*5550 *12,150	3700 7,900	*3850 *8,450	3300 7,300	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7650 16,450	*6750 *14,650	5000 10,750	5550 11,950	3600 7,700	*3950 *8,650	3000 6,650	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	7100 15,300	7600 16,300	4750 10,200	5400 11,650	3450 7,400	*4200 *9,150	2900 6,350	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 450 *24,750	6800 14,650	7400 15,850	4550 9,800	5300 11,450	3350 7,250	*4600 *10,150	2950 6,450	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 550 *24,750	6700 14,450	7300 15,650	4500 9,650	5300 11,350	3350 7,150	5050 11,100	3200 7,000	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	13 100 28,100	*10 800 *23,350	6750 14,550	7350 15,750	4500 9,700			5950 13,200	3750 8,300	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	7000 15,050					*6600 *14,550	5150 11,650	5600 220

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



Boom Length	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5350 *11,750	*5350 *11,750			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5900 *12,800	5350 11,500	*5550 *12,150	3750 8,050	*3850 *8,450	3400 7,500	7990 320
3000 mm 120 in	kg lb					*8600 *18,550	7800 16,800	*6750 *14,650	5100 11,000	5700 12,200	3650 7,850	*3950 *8,650	3100 6,800	8360 330
1500 mm 60 in	kg lb					*10 450 *22,500	7250 15,650	*7700 *16,650	4850 10,450	5550 11,950	3550 7,600	*4200 *9,150	2950 6,550	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 450 *24,750	6950 15,000	7550 16,250	4650 10,050	5450 11,700	3450 7,400	*4600 *10,150	3000 6,650	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 550 *25,000	6850 14,800	7450 16,050	4600 9,900	5400 11,650	3400 7,350	5150 11,350	3250 7,200	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 300 *33,150	13 400 28,750	*10 800 *23,350	6950 14,900	7500 16,150	4600 9,950			6100 13,500	3850 8,500	6950 280
-4500 mm -180 in	kg lb			*12 200 *26,100	*12 200 *26,100	*8750 *18,650	7150 15,400					*6600 *14,550	5300 11,900	5600 220



ISO 10567:2007



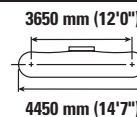
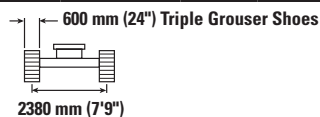
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Lift capacity stays with ±5% for all available track shoes.

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

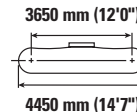
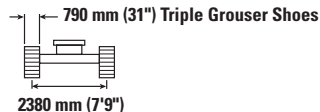
320 Hydraulic Excavator Specifications












HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 lb) – without Bucket – 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 *11,400	*5100 *11,400	5600 220
6000 mm 240 in	kg lb					*5800 *12,750	5350 11,450			*4700 *10,350	4300 9,600	6830 270
4500 mm 180 in	kg lb			*7300 *15,800	*7300 *15,800	*6300 *13,650	5200 11,150	*5200	3650	*4600 *10,100	3600 7,900	7570 300
3000 mm 120 in	kg lb			*9200 *19,800	7500 16,150	*7100 *15,400	4950 10,650	5500 11,850	3550 7,600	*4700 *10,350	3250 7,100	7960 320
1500 mm 60 in	kg lb			*10 850 *23,450	7000 15,100	7550 16,200	4700 10,150	5400 11,650	3450 7,400	4850 10,700	3100 6,850	8050 320
0 mm 0 in	kg lb			*11 600 24,950	6800 14,600	7350 15,850	4550 9,800	5350 11,450	3400 7,250	5000 11,000	3150 6,950	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,200	*11 950 *27,200	*11 450 *24,750	6750 14,500	7300 15,700	4500 9,700			5500 12,100	3450 7,600	7350 290
-3000 mm -120 in	kg lb	*14 350 *31,100	13 250 28,400	*10 400 *22,500	6850 14,700	7400 15,900	4600 9,900			6650 14,800	4150 9,250	6470 260
-4500 mm -180 in	kg lb			*7750 *16,250	7100 15,400					*6700 *14,700	6200 14,050	4980 200

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



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



ISO 10567:2007



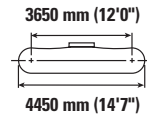
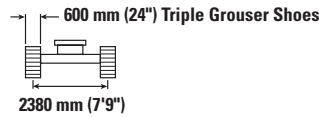
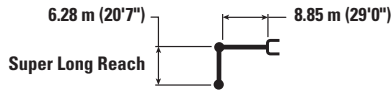
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Lift capacity stays with ±5% for all available track shoes.

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.

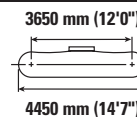
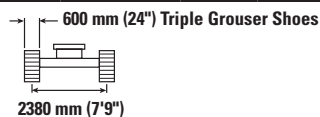
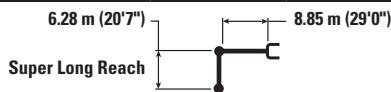
Lift capacity stays with ±5% for all available track shoes.












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



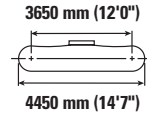
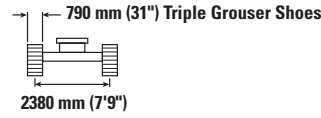
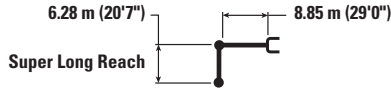
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

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



	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in	
	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb	kg lb		
12 000 mm 480 in												*1450 *3,200	*1450 *3,200	10 350 400
10 500 mm 420 in												*1350 *2,950	*1350 *2,950	11 660 460
9000 mm 360 in												*1300 *2,850	*1300 *2,850	12 660 500
7500 mm 300 in												*1250 *2,800	*1250 *2,800	13 410 530
6000 mm 240 in												*1250 *2,750	*1250 *2,750	13 970 550
4500 mm 180 in												*1300 *2,800	1250 2,750	14 340 570
3000 mm 120 in			*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					*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			*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		*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		*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		*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		*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		*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				*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.

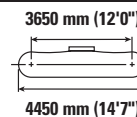
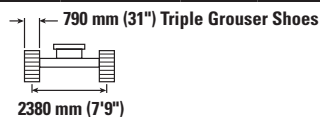
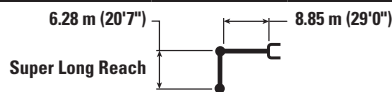
Lift capacity stays with ±5% for all available track shoes.













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	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	2000 4,150			*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 4,150			*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 4,050	*2100 *3,700	1500 3,100	*1250 *2,750	*1250 *2,750	13 970 550
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	14 340 570
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	14 550 580
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	14 600 580
0 mm 0 in	kg lb	*3700 *8,050	2400 5,150	3200 6,800	1900 4,100	2600 5,600	1550 3,300	2200 4,650	1250 2,700	*1450 *3,200	1100 2,450	14 490 570
-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	14 230 560
-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	13 790 550
-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	13 170 520
-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	12 340 490
-7500 mm -300 in	kg lb	3700 *7,950	2150 4,650	3050 *6,450	1800 3,850					*2700 *5,950	1650 3,650	11 240 440
-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 %	Counterweight				
		mm	in	m³	yd³	kg	lb		HD Reach Boom				SLR Boom
									3.7 mt (8,200 lb)	4.2 mt (9,300 lb)	4.7 mt (10,400 lb)		
									R2.5HD (8'2")	R2.9HD (9'6")	R2.5HD (8'2")	R2.9HD (9'6")	6.28A (20'7")
Pin-On (No Quick Coupler)													
General Duty	B	1150	46	0.90	1.18	786	1,733	100	●	●	●	●	
	B	1250	50	1.00	1.31	820	1,808	100	●	⊙	●	●	
General Duty Excavation	B	1400	56	1.14	1.49	858	1,891	100	⊙	X	●	X	
Heavy Duty	B	1050	43	1.00	1.31	884	1,948	100	●	⊙	●	●	
	B	1200	49	1.19	1.56	955	2,105	100	⊖	⊖	⊙	⊖	
	B	1350	54	1.38	1.81	1018	2,244	100	○	X	⊖	X	
Severe Duty	B	1050	42	1.00	1.31	901	1,987	100	●	⊙	●	●	
	B	1100	43	1.00	1.31	965	2,128	90	●	⊙	●	●	
General Duty	312, A	900	36	0.53	0.69	403	888	100					◇
	Ditch Cleaning	312, A	1200	48	0.57	0.74	386	851	100				
Maximum load with pin-on (payload + bucket)								kg	2955	2735	3145	2915	880
								lb	6,515	6,030	6,934	6,426	1,940
With Cat Pin Grabber Coupler													
General Duty	B	1150	46	0.90	1.18	786	1,733	100	⊙	⊖	●	⊙	
	B	1250	50	1.00	1.31	820	1,808	100	⊙	⊖	⊙	⊙	
General Duty Excavation	B	1400	56	1.14	1.49	858	1,891	100	⊖	○	⊖	⊖	
Heavy Duty	B	1200	49	1.19	1.56	955	2,105	100	○	○	⊖	○	
	B	1050	42	1.00	1.31	901	1,987	100	⊖	○	⊙	⊖	
Severe Duty	B	1100	43	1.00	1.31	965	2,128	90	⊙	⊖	●	⊙	
	B	1250	49	1.19	1.56	1063	2,343	90	○	○	⊖	○	
Maximum load with coupler (payload + bucket)								kg	2533	2314	2772	2539	461
								lb	5,585	5,102	6,110	5,597	1,017

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

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

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

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

320 Hydraulic Excavator Specifications

Attachments Offering Guide – Southeast Asia

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

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		Reach HD		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")	R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC	✓	✓	✓	✓
	H130 GC S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC20	✓	✓	✓	✓

Attachments Offering Guide – Pacific

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

Match * Working range front only

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		Reach HD		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")	R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC	✓	✓	✓	✓
	H130 GC S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓*	✓	✓
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC20	✓	✓	✓	✓

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide – Pacific (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)		4.2 mt (9,300 lb)	
Boom Type		Reach HD		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")	R2.5HD (8'2")	R2.9HD (9'6")
Hydraulic Hammers	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC	✓*		✓	✓*
	H130 GC S			✓	✓*
	H130 S	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓*	✓*	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓	✓	✓*	
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110			✓	✓
Rotary Cutters	RC20	✓	✓	✓	✓

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)		4.2 mt (9,300 lb)	
Boom Type		Reach HD		Reach HD	
Stick Length		R2.5HD (8'2")	R2.9HD (9'6")	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.

BOOM-MOUNT ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		HD Reach		HD Reach	
Mobile Scrap and Demolition Shears	S3035 Flat Top	✓		✓	

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ENGINE			UNDERCARRIAGE AND STRUCTURES		
Cat® C7.1 single turbo diesel engine	✓		600 mm (24") triple grouser track shoes		✓
Three selectable power modes	✓		790 mm (31") triple grouser track shoes	✓	
Auto engine speed control	✓		Tie-down points on base frame	✓	
Auto engine idle shutdown	✓		Segmented track guiding guards	✓	
4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓		Full-length track guiding guards		✓
52° C (125° F) high-ambient cooling capacity	✓		Bottom guards	✓	
Starting capability for -18° C (0° F) with jump start receptacle	✓		HD bottom guards		✓
Double element air filter with integrated pre-cleaner	✓		Swivel guard		✓
Electric cooling fans with auto-reverse function	✓		Travel motor guards	✓	
HYDRAULIC SYSTEM			HD travel motor guards		✓
Boom and stick regeneration circuits	✓		Grease lubricated track links	✓	
Electronic main control valve	✓		3700 kg (8,200 lb) counterweight	✓	
Auto Dig Boost ⁽¹⁾	✓		4200 kg (9,300 lb) counterweight for heavy-duty		✓
Auto heavy lift	✓		4700 kg (10,400 lb) counterweight for Super Long Reach		✓
Auto warm up	✓		Standard swing frame	✓	
Auto two-speed travel	✓		Semi-HD swing frame for HD and SLR		✓
Boom and stick drift reduction valve	✓		HD base frame with SD track rollers and standard carrier rollers		✓
Element type main hydraulic filter	✓		Standard base frame with HD track rollers and standard carrier rollers	✓	
Slider joysticks	✓		BOOM, STICKS AND LINKAGES		
Tandem type electronic main pump	✓		5.7 m (18'8") HD Reach boom		✓
Hammer return filter circuit		✓	8.85 m (29'0") Super Long Reach boom		✓
Hydraulic efficiency monitoring		✓	2.9 m (9'6") HD Reach stick		✓
Tool Control (two pumps, one/two way high-pressure flow)		✓	2.5 m (8'2") HD Reach stick		✓
Basic Tool Control (one pump, one way high-pressure flow)		✓	6.28 m (20'7") Super Long Reach stick		✓
Medium pressure circuit		✓	Bucket linkage, B1-family with lifting eye	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	Bucket linkage, B1-family without lifting eye		✓
			Bucket linkage, A-family with or without lifting eye, SLR		✓

(continued on next page)

⁽¹⁾Not available for Super Long Reach.

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
ELECTRICAL SYSTEM			SERVICE AND MAINTENANCE		
1,000 CCA maintenance-free batteries (×2)	✓		Scheduled Oil Sampling (S·O·S SM) ports	✓	
Centralized electrical disconnect switch	✓		Grouped location for engine oil and fuel filters	✓	
LED chassis light, Left Hand (LH) boom light, cab lights	✓		Ground-level second dipstick for engine oil	✓	
Premium surround lighting package		✓	Radiator screen		✓
CAT TECHNOLOGY			SAFETY AND SECURITY		
VisionLink®	✓*		Cat Command (remote control)		✓
VisionLink Productivity		✓	2D E-Fence:**	✓	
Remote Flash	✓		– E-ceiling		
Remote Troubleshoot	✓		– E-floor		
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓		– E-swing		
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓		– E-wall		
Cat Grade 2D**	✓		– E-cab avoidance		
Cat Grade 2D with Attachment Ready Option (ARO)		✓	Rearview camera and right-hand side mirror	✓	
Cat Grade 3D single GNSS		✓	Right-hand-sideview camera		✓
Cat Grade 3D dual GNSS		✓	360° visibility		✓
Laser catcher		✓	Neutral lever (lock out) for all controls	✓	
Cat Assist:**	✓		Anti-skid plate and countersunk bolts on service platform	✓	
– Grade Assist			Ground-level accessible secondary engine shutoff switch in cab	✓	
– Boom Assist			Lockable disconnect switch	✓	
– Bucket Assist			Right Hand (RH) handrail and handhold	✓	
– Swing Assist			Swing alarm		✓
– Lift Assist			Travel alarm		✓
Cat Payload:**	✓		Cab mirror for RH side track edge		✓
– Static weigh			Handholds inside radiator compartment		✓
– Semiautomatic calibration					
– Payload/cycle information					
– USB reporting capability					
Auto hammer stop	✓				
Work tool recognition (PL161)***	✓				
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 for Super Long Reach.

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

Dealer Installed Kit 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/Auxiliary 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

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

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

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