

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 in³
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

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

Track

Optional Track Shoe Width	600 mm	24 in
Optional Track Shoe Width	790 mm	31 in
Optional Track Shoes Width	800 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	91.1 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)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in noisy environment(s).

Operating Weights and Ground Pressures

	600 mm (24") 10 mm (0.39") Thick Triple Grouser Shoes		790 mm (31") 10 mm (0.39") Thick Triple Grouser Shoes		800 mm (31 in) 10 mm (0.39") Thick Triple Grouser Shoes		800 mm (31 in) 12.5 mm (0.49") Thick Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
Base Machine Configurations	**kg (lb)**	**kPa (psi)**	**kg (lb)**	**kPa (psi)**	**kg (lb)**	**kPa (psi)**	**kg (lb)**	**kPa (psi)**
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 m³ (1.56 yd³) HD Bucket	21 300 (47,000)	44.3 (6.4)	22 000 (48,500)	34.8 (5.0)	22 000 (48,500)	34.3 (5.0)	22 200 (49,000)	34.6 (5.0)

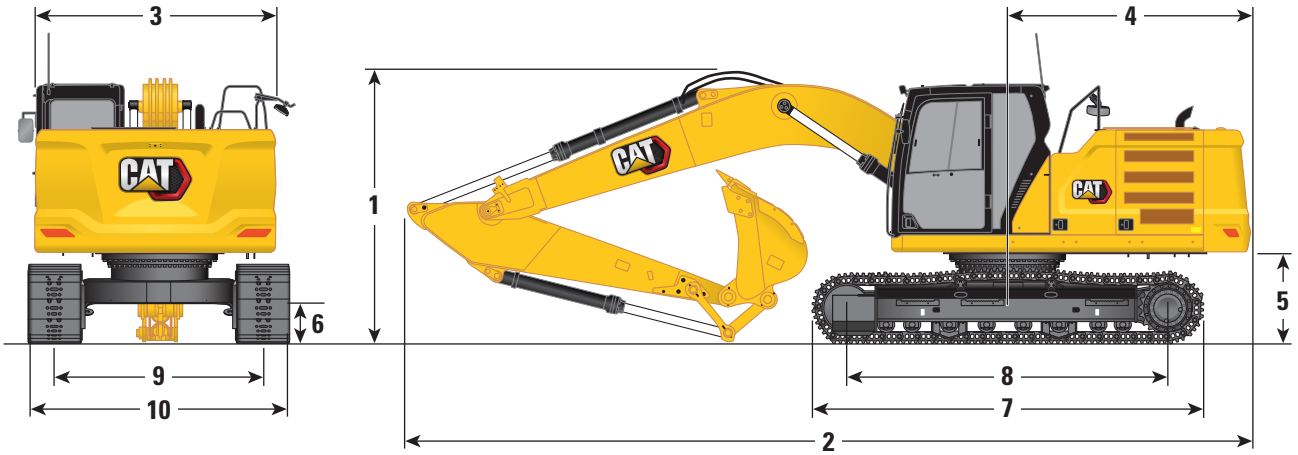
All operating weights include a 90% fuel tank with 75 kg (165 lb) operator.

Major Component Weights

	kg	lb
Base Machine (with 3.7 mt [8,200 lb] counterweight, standard swing frame, standard base frame with 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
800 mm (31") Width, 10 mm (0.39") Thick Triple Grouser Track Shoes with Step Extension	3380	7,400
800 mm (31") Width, 12.5 mm (0.49") Thick Triple Grouser Track Shoes with Step Extension	3600	7,900
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

Dimensions

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

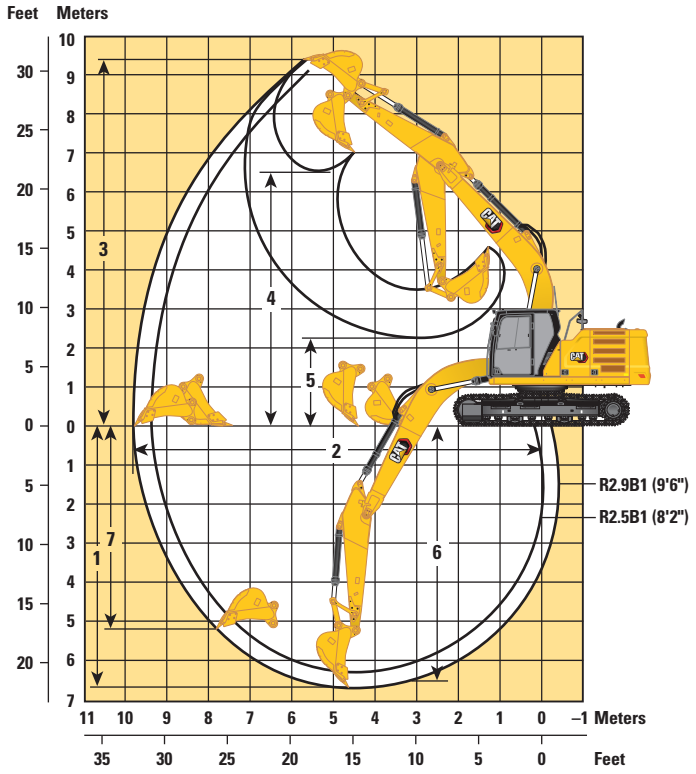


Boom Options	HD Reach Boom 5.7 m (18'8")				SLR Boom 8.85 m (29'0")	
Stick Options	HD Reach Sticks R2.9B1 (9'6")		R2.5B1 (8'2")		SLR Stick 6.28A (20'7")	
1 Machine Height:						
Top of Cab Height	2960 mm	9'9"	2960 mm	9'9"	2960 mm	9'9"
Top of GNSS Antenna Height (if installed)	3000 mm	9'10"	3000 mm	9'10"	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	2780 mm	9'1"	2780 mm	9'1"	2780 mm	9'1"
4 Tail Swing Radius	2830 mm	9'3"	2830 mm	9'3"	2830 mm	9'3"
5 Counterweight Clearance	1050 mm	3'5"	1050 mm	3'5"	1050 mm	3'5"
6 Ground Clearance	470 mm	1'7"	470 mm	1'7"	470 mm	1'7"
7 Track Length	4450 mm	14'7"	4450 mm	14'7"	4450 mm	14'7"
8 Length to Center of Rollers	3650 mm	12'0"	3650 mm	12'0"	3650 mm	12'0"
9 Track Gauge	2380 mm	7'9"	2380 mm	7'9"	2380 mm	7'9"
10 Undercarriage Width:						
600 mm (24") 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"
800 mm (31") Shoes	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"

320 Hydraulic Excavator Specifications

Working Ranges

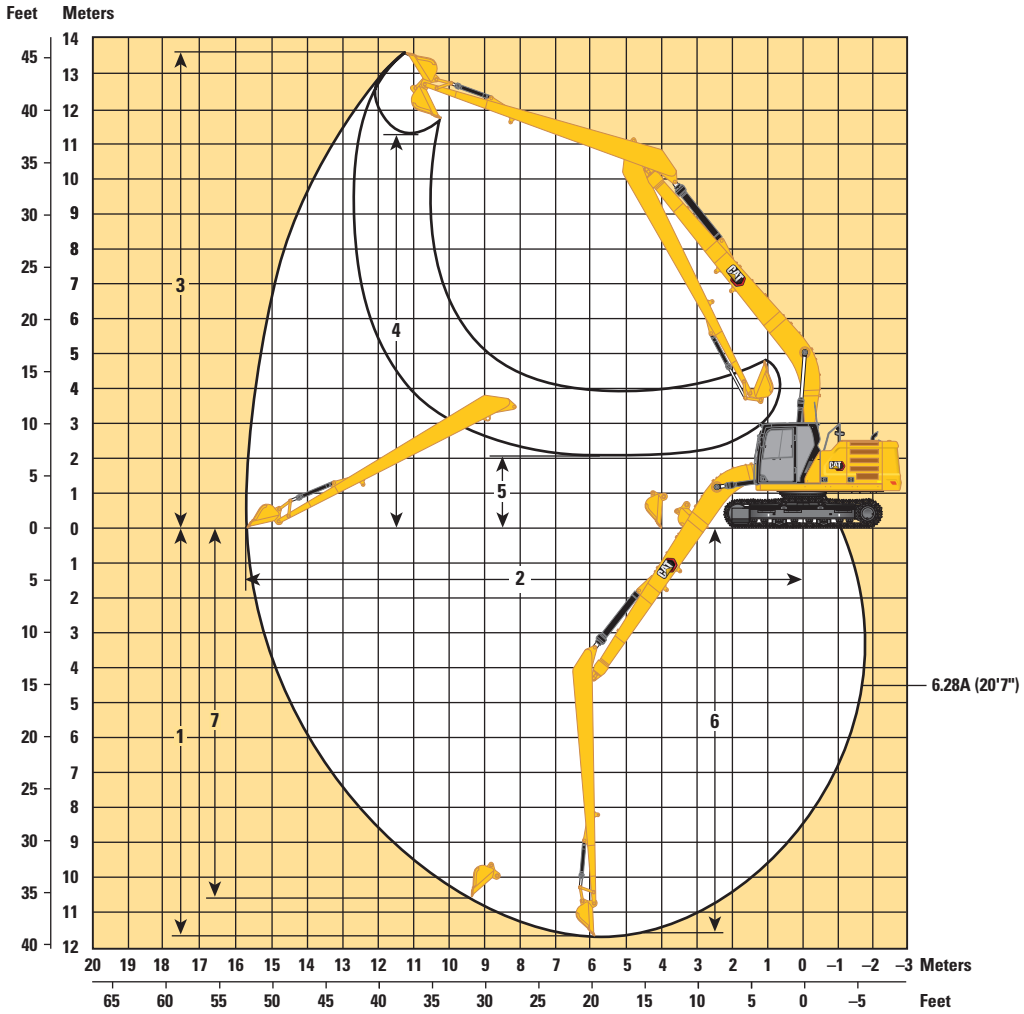
All dimensions are approximate and may vary depending on bucket selection.



Boom Option	HD Reach Boom 5.7 m (18'8")			
Stick 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"

Working Ranges *(continued)*

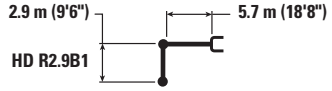
All dimensions are approximate and may vary depending on bucket selection.

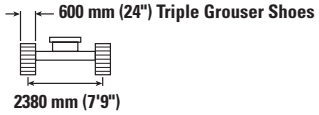


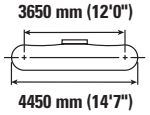
Boom Option	SLR Boom 8.85 m (29'0")	
Stick Option	**SLR Stick 6.28A (20'7")**	
1 Maximum Digging Depth	11 690 mm	38'4"
2 Maximum Reach at Ground Line	15 730 mm	51'7"
3 Maximum Cutting Height	13 610 mm	44'8"
4 Maximum Loading Height	11 290 mm	37'0"
5 Minimum Loading Height	2080 mm	6'9"
6 Maximum Depth 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	4'0"

320 Hydraulic Excavator Specifications

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

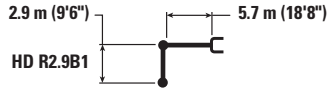




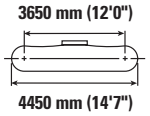


		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
														mm in
7500 mm 300 in	kg lb							*4850	*4850			*4200 *9,350	*4200 *9,350	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	5100 10,900			*3900 *8,600	3650 8,100	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	4900 10,600	5350 11,500	3400 7,300	*3800 *8,400	3050 6,750	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	7150 15,450	*6700 *14,500	4650 10,050	5250 11,250	3300 7,100	*3900 *8,600	2800 6,100	8360 330
1500 mm 60 in	kg lb					*10 350 *22,300	6600 14,250	7150 15,400	4400 9,450	5100 10,950	3200 6,850	*4150 *9,100	2650 5,850	8450 340
0 mm 0 in	kg lb			*6700 *15,400	*6700 *15,400	11 000 23,600	6300 13,550	6950 14,950	4200 9,050	5000 10,750	3100 6,650	4350 9,550	2700 5,950	8260 330
–1500 mm –60 in	kg lb	*7200 *16,050	*7200 *16,050	*11 650 *26,400	*11 650 25,700	10 900 23,350	6200 13,350	6850 14,750	4150 8,900	4950 10,650	3050 6,600	4700 10,400	2900 6,450	7780 310
–3000 mm –120 in	kg lb	*12 350 *27,700	*12 350 *27,700	*15 150 *32,850	12 200 26,150	*10 700 *23,100	6250 13,500	6900 14,850	4150 8,950			5600 12,400	3450 7,650	6950 280
–4500 mm –180 in	kg lb			*12 050 *25,850	*12 050 *25,850	*8700 *18,450	6500 14,000					*6550 *14,350	4800 10,800	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							*4850	*4850			*4200 *9,350	*4200 *9,350	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	5200 11,150			*3900 *8,600	3700 8,300	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5050 10,800	*5500 11,750	3500 7,500	*3800 *8,400	3150 6,950	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	7300 15800	*6700 *14,500	4750 10,250	5350 11,500	3400 7,300	*3900 *8,600	2850 6,250	8360 330
1500 mm 60 in	kg lb					*10 350 *22,300	6750 14,600	7350 15,750	4500 9,700	5250 11,250	3250 7,000	*4150 *9,100	2750 6,000	8450 340
0 mm 0 in	kg lb			*6700 *15,400	*6700 *15,400	11 300 24,150	6450 13,900	7150 15,300	4350 9,300	5100 11,000	3200 6,800	4450 9,800	2800 6,100	8260 330
–1500 mm –60 in	kg lb	*7200 *16,050	*7200 *16,050	*11 650 *26,400	*11 650 26,350	11 150 23,900	6350 13,700	7050 15,100	4250 9,100	5100 10,950	3150 6,750	4850 10,650	3000 6,600	7780 310
–3000 mm –120 in	kg lb	*12 350 *27,700	*12 350 *27,700	*15 150 *32,850	12 500 26,800	*10 700 *23,100	6450 13,850	7050 15,200	4300 9,200			5750 12,750	3550 7,850	6950 280
–4500 mm –180 in	kg lb			*12 050 *25,850	*12 050 *25,850	*8700 *18,450	6650 14,350					*6550 *14,350	4900 11,100	5600 220

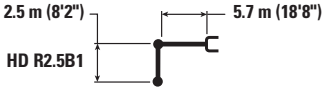
* ISO 10567:2007

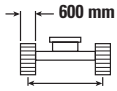
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

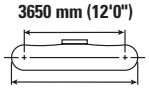
Lift capacity stays with ±5% for all available track shoes.

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

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

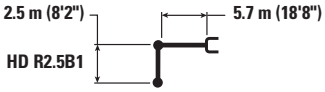


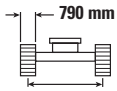


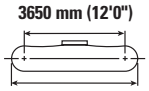


		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm **300 in**	kg **lb**									*5100 ***11,350**	*5100 ***11,350**	5600 **220**
6000 mm **240 in**	kg **lb**					*5800 ***12,700**	5050 **10,800**			*4700 ***10,350**	4050 **9,000**	6830 **270**
4500 mm **180 in**	kg **lb**			*7300 ***15,700**	*7300 ***15,700**	*6250 ***13,600**	4900 **10,500**	*5150	3400	*4600 ***10,100**	3350 **7,400**	7570 **300**
3000 mm **120 in**	kg **lb**			*9150 ***19,700**	7050 **15,200**	*7050 ***15,300**	4650 **9,950**	5250 **11,200**	3300 **7,100**	*4700 ***10,350**	3000 **6,600**	7960 **320**
1500 mm **60 in**	kg **lb**			*10 800 ***23,300**	6550 **14,100**	7150 **15,350**	4400 **9,450**	5100 **11,000**	3200 **6,900**	4600 **10,100**	2900 **6,350**	8050 **320**
0 mm **0 in**	kg **lb**			11 000 **23,600**	6300 **13,600**	6950 **15,000**	4250 **9,100**	5050 **10,800**	3150 **6,750**	4700 **10,350**	2950 **6,450**	7860 **310**
–1500 mm **–60 in**	kg **lb**	*12 250 ***27,900**	12 200 **26,100**	10 950 **23,500**	6300 **13,500**	6900 **14,850**	4200 **9,000**			5150 **11,400**	3200 **7,050**	7350 **290**
–3000 mm **–120 in**	kg **lb**	*14 250 ***30,900**	12 450 **26,600**	*10 350 ***22,350**	6400 **13,700**	7000 **15,050**	4250 **9,200**			6300 **14,000**	3900 **8,600**	6470 **260**
–4500 mm **–180 in**	kg **lb**			*7700 ***16,150**	6650 **14,400**					*6650 ***14,600**	5800 **13,150**	4980 **200**

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







		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**					*5800 ***12,700**	5150 **11,000**			*4700 ***10,350**	4100 **9,200**	6830 **270**
4500 mm **180 in**	kg **lb**			*7300 ***15,700**	*7300 ***15,700**	*6250 ***13,600**	5000 **10,700**	*5150	3500	*4600 ***10,100**	3400 **7,550**	7570 **300**
3000 mm **120 in**	kg **lb**			*9150 ***19,700**	7200 **15,550**	*7050 ***15,300**	4750 **10,200**	5350 **11,500**	3400 **7,300**	*4700 ***10,350**	3100 **6,800**	7960 **320**
1500 mm **60 in**	kg **lb**			*10 800 ***23,300**	6700 **14,450**	7300 **15,750**	4500 **9,700**	5250 **11,250**	3300 **7,050**	4700 **10,350**	2950 **6,500**	8050 **320**
0 mm **0 in**	kg **lb**			11 300 **24,200**	6500 **13,950**	7150 **15,350**	4350 **9,350**	5150 **11,100**	3200 **6,900**	4850 **10,650**	3000 **6,650**	7860 **310**
–1500 mm **–60 in**	kg **lb**	*12 250 ***27,900**	*12 250 **26,750**	11 250 **24,050**	6450 **13,850**	7100 **15,250**	4300 **9,250**			5300 **11,700**	3300 **7,250**	7350 **290**
–3000 mm **–120 in**	kg **lb**	*14 250 ***30,900**	12 700 **27,250**	*10 350 ***22,350**	6550 **14,050**	7150 **15,450**	4350 **9,400**			6450 **14,350**	4000 **8,850**	6470 **260**
–4500 mm **–180 in**	kg **lb**			*7700 ***16,150**	6850 **14,750**					*6650 ***14,600**	5950 **13,450**	4980 **200**

* **ISO 10567:2007**

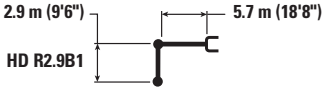
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

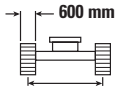
Lift capacity stays with ±5% for all available track shoes.

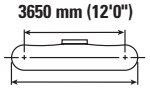
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 Hydraulic Excavator Specifications

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

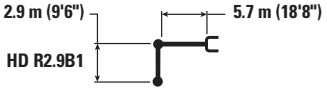


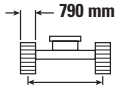


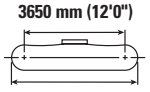


		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
														mm in
7500 mm 300 in	kg lb							*4850	*4850			*4200 *9,350	*4200 *9,350	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 11,550			*3900 *8,600	3850 *8,600	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5200 11,200	*5500 *12,000	3650 7,800	*3800 *8,400	3250 7,250	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	7600 16,350	*6700 *14,500	4950 10,650	5500 11,850	3550 7,600	*3900 *8,600	3000 6,550	8360 330
1500 mm 60 in	kg lb					*10 350 *22,300	7050 15,150	7550 16,200	4700 10,100	5400 11,550	3400 7,350	*4150 *9,100	2850 6,300	8450 340
0 mm 0 in	kg lb			*6700 *15,400	*6700 *15,400	*11 350 *24,500	6750 14,500	7350 15,750	4500 9,700	5300 11,350	3300 7,150	*4600 *10,100	2900 6,350	8260 330
–1500 mm –60 in	kg lb	*7200 *16,050	*7200 *16,050	*11 650 *26,400	*11 650 *26,400	*11 450 24,650	6650 14,300	7250 15,550	4450 9,550	5250 11,300	3300 7,050	5000 11,000	3150 6,900	7780 310
–3000 mm –120 in	kg lb	*12 350 *27,700	*12 350 *27,700	*15 150 *32,850	13 050 27,900	*10 700 *23,100	6700 14,400	7300 15,650	4450 9,600			5900 13,100	3700 8,200	6950 280
–4500 mm –180 in	kg lb			*12 050 *25,850	*12 050 *25,850	*8700 *18,450	6950 14,950					*6550 *14,350	5150 11,550	5600 220

HD Reach Boom Lift Capacities – Counterweight: 4.2 mt (9,300 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							*4850	*4850			*4200 *9,350	*4200 *9,350	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,600	*3900 *8,600	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5350 11,450	*5500 *12,000	3750 8,000	*3800 *8,400	3350 7,400	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	7750 16,700	*6700 *14,500	5050 10,900	5650 12,150	3600 7,750	*3900 *8,600	3050 6,700	8360 330
1500 mm 60 in	kg lb					*10 350 *22,300	7200 15,500	*7600 *16,450	4800 10,350	5500 11,850	3500 7,500	*4150 *9,100	2950 6,450	8450 340
0 mm 0 in	kg lb			*6700 *15,400	*6700 *15,400	*11 350 *24,500	6900 14,850	7500 16,150	4600 9,950	5400 11,650	3400 7,300	*4600 *10,100	3000 6,550	8260 330
–1500 mm –60 in	kg lb	*7200 *16,050	*7200 *16,050	*11 650 *26,400	*11 650 *26,400	*11 450 *24,750	6800 14,600	7400 15,950	4550 9,750	5350 11,550	3350 7,250	5100 11,250	3200 7,100	7780 310
–3000 mm –120 in	kg lb	*12 350 *27,700	*12 350 *27,700	*15 150 *32,850	13 300 28,500	*10 700 *23,100	6850 14,750	7450 16,050	4550 9,850			6050 13,450	3800 8,400	6950 280
–4500 mm –180 in	kg lb			*12 050 *25,850	*12 050 *25,850	*8700 *18,450	7100 15,300					*6550 *14,350	5250 11,800	5600 220

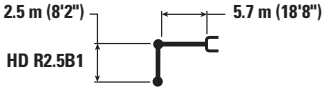
* ISO 10567:2007

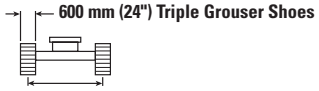
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

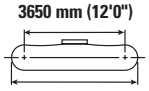
Lift capacity stays with ±5% for all available track shoes.

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

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

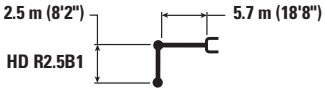




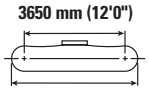


		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm **300 in**	kg **lb**									*5100 ***11,350**	*5100 ***11,350**	5600 **220**
6000 mm **240 in**	kg **lb**					*5800 ***12,700**	5350 **11,400**			*4700 ***10,350**	4300 **9,550**	6830 **270**
4500 mm **180 in**	kg **lb**			*7300 ***15,700**	*7300 ***15,700**	*6250 ***13,600**	5150 **11,100**	*5150	3600	*4600 ***10,100**	3550 **7,900**	7570 **300**
3000 mm **120 in**	kg **lb**			*9150 ***19,700**	7500 **16,150**	*7050 ***15,300**	4950 **10,600**	5500 **11,850**	3550 **7,600**	*4700 ***10,350**	3200 **7,100**	7960 **320**
1500 mm **60 in**	kg **lb**			*10 800 ***23,300**	7000 **15,050**	7550 **16,200**	4700 **10,100**	5400 **11,600**	3450 **7,350**	4850 **10,700**	3100 **6,800**	8050 **320**
0 mm **0 in**	kg **lb**			*11 500 **24,900**	6750 **14,500**	7350 **15,800**	4550 **9,750**	5300 **11,450**	3350 **7,200**	5000 **10,950**	3150 **6,900**	7860 **310**
–1500 mm **–60 in**	kg **lb**	*12 250 ***27,900**	*12 250 **27,850**	*11 350 ***24,650**	6700 **14,450**	7300 **15,700**	4500 **9,650**			5450 **12,050**	3450 **7,600**	7350 **290**
–3000 mm **–120 in**	kg **lb**	*14 250 ***30,900**	13 250 **28,350**	*10 350 ***22,350**	6800 **14,650**	7400 **15,900**	4550 **9,850**			6650 **14,750**	4150 **9,200**	6470 **260**
–4500 mm **–180 in**	kg **lb**			*7700 ***16,150**	7100 **15,350**					*6650 ***14,600**	6200 **14,000**	4980 **200**

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







		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**					*5800 ***12,700**	5450 **11,650**			*4700 ***10,350**	4350 **9,750**	6830 **270**
4500 mm **180 in**	kg **lb**			*7300 ***15,700**	*7300 ***15,700**	*6250 ***13,600**	5300 **11,350**	*5150	3700	*4600 ***10,100**	3650 **8,050**	7570 **300**
3000 mm **120 in**	kg **lb**			*9150 ***19,700**	7650 **16,450**	*7050 ***15,300**	5050 **10,850**	5650 **12,100**	3600 **7,750**	*4700 ***10,350**	3300 **7,250**	7960 **320**
1500 mm **60 in**	kg **lb**			*10 800 ***23,300**	7150 **15,400**	7700 **16,550**	4800 **10,350**	5550 **11,900**	3500 **7,550**	5000 **10,950**	3150 **6,950**	8050 **320**
0 mm **0 in**	kg **lb**			*11 500 ***24,950**	6900 **14,850**	7550 **16,200**	4650 **10,000**	5450 **11,700**	3450 **7,400**	5100 **11,200**	3250 **7,100**	7860 **310**
–1500 mm **–60 in**	kg **lb**	*12 250 ***27,900**	*12 250 ***27,900**	*11 350 ***24,650**	6850 **14,750**	7450 **16,050**	4600 **9,900**			5600 **12,350**	3550 **7,750**	7350 **290**
–3000 mm **–120 in**	kg **lb**	*14 250 ***30,900**	13 550 **28,950**	*10 350 ***22,350**	6950 **15,000**	7550 **16,250**	4650 **10,050**			6800 ***15,050**	4250 **9,400**	6470 **260**
–4500 mm **–180 in**	kg **lb**			*7700 ***16,150**	7250 **15,700**					*6650 ***14,600**	6300 **14,300**	4980 **200**

* **ISO 10567:2007**

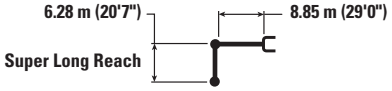
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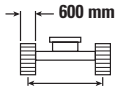
Lift capacity stays with ±5% for all available track shoes.

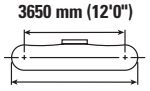
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 Hydraulic Excavator Specifications

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







		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
														mm **in**
12 000 mm **480 in**	kg **lb**											*1450 ***3,200**	*1450 ***3,200**	10 350 **400**
10 500 mm **420 in**	kg **lb**											*1350 ***2,950**	*1350 ***2,950**	11 660 **460**
9000 mm **360 in**	kg **lb**											*1300 ***2,850**	*1300 ***2,850**	12 660 **500**
7500 mm **300 in**	kg **lb**											*1250 ***2,800**	*1250 ***2,800**	13 410 **530**
6000 mm **240 in**	kg **lb**											*1250 ***2,750**	*1250 ***2,750**	13 970 **550**
4500 mm **180 in**	kg **lb**											*1300 ***2,800**	1200 **2,650**	14 340 **570**
3000 mm **120 in**	kg **lb**			*4700 ***11,800**	*4700 ***11,800**	*6050 ***12,900**	*6050 ***12,900**	*4450 ***9,550**	*4450 ***9,550**	*3600 ***7,800**	*3600 **7,800**	*1300 ***2,900**	1150 **2,500**	14 550 **580**
1500 mm **60 in**	kg **lb**					*6750 ***15,950**	6400 **13,800**	*5250 ***11,300**	4400 **9,550**	*4100 ***8,850**	3250 **7,050**	*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**	3950 **8,550**	*4550 ***9,800**	3000 **6,400**	*1450 ***3,200**	1100 **2,350**	14 490 **570**
–1500 mm **–60 in**	kg **lb**	*2100 ***4,600**	*2100 ***4,600**	*2700 ***6,050**	*2700 ***6,050**	*4650 ***10,500**	*4650 ***10,500**	*6250 ***13,550**	3700 **7,950**	4750 **10,200**	2750 **5,950**	*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 **11,450**	6350 **13,650**	3550 **7,650**	4600 **9,900**	2650 **5,700**	*1750 ***3,800**	1150 **2,450**	13 790 **550**
–4500 mm **–180 in**	kg **lb**	*3650 ***8,150**	*3650 ***8,150**	*4400 ***9,900**	*4400 ***9,900**	*6050 ***13,700**	5350 **11,500**	6300 **13,550**	3500 **7,550**	4550 **9,800**	2600 **5,550**	*1950 ***4,300**	1200 **2,650**	13 170 **520**
–6000 mm **–240 in**	kg **lb**	*4550 ***10,100**	*4550 ***10,100**	*5400 ***12,150**	*5400 ***12,150**	*7200 ***16,300**	5450 **11,750**	*6150 ***13,250**	3550 **7,650**	4550 **9,850**	2600 **5,600**	*2300 ***5,100**	1350 **3,000**	12 340 **490**
–7500 mm **–300 in**	kg **lb**	*5500 ***12,250**	*5500 ***12,250**	*6550 ***14,800**	*6550 ***14,800**	*7300 ***15,650**	5650 **12,200**	*5650 ***12,150**	3700 **7,900**	*4550 ***9,750**	2700 **5,750**	*2700 ***5,950**	1600 **3,550**	11 240 **440**
–9000 mm **–360 in**	kg **lb**			*7950 ***17,450**	*7950 ***17,450**	*6150 ***13,100**	5950 **12,800**	*4850 ***10,350**	3850 **8,350**	*3900 ***8,300**	2800 **6,100**	*2700 ***5,900**	2000 **4,550**	9800 **380**

* **ISO 10567:2007**

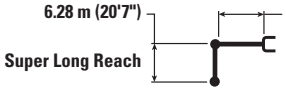
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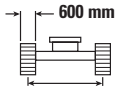
Lift capacity stays with ±5% for all available track shoes.

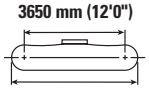
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

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**

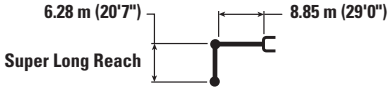
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

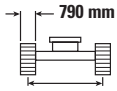
Lift capacity stays with ±5% for all available track shoes.

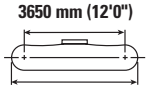
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

320 Hydraulic Excavator Specifications

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







		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
														mm **in**
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**

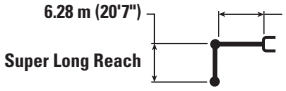
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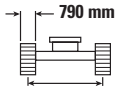
Lift capacity stays with ±5% for all available track shoes.

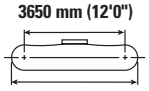
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

(continued on next page)

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				
									3.7 mt (8,200 lb)		4.2 mt (9,300 lb)		4.7 mt (10,400 lb)
									HD Reach Boom				SLR Boom
		mm	in	m^3	yd^3	kg	lb	%	R2.9HD (9'6")	R2.5HD (8'2")	R2.9HD (9'6")	R2.5HD (8'2")	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	⊖	
	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	⊖	◉	◉	◉	
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	2735	2955	2915	3145	880
								lb	6,030	6,515	6,426	6,934	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	2314	2533	2539	2772	461
								lb	5,102	5,585	5,597	6,110	1,017

The above loads are in compliance with hydraulic excavator standard EN 474-5:2022/AC:2022, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451:2007.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3 (3,500 lb/yd^3)
- ◉ 1800 kg/m^3 (3,000 lb/yd^3)
- ⊖ 1500 kg/m^3 (2,500 lb/yd^3)
- ○ 1200 kg/m^3 (2,000 lb/yd^3)
- ◇ 900 kg/m^3 (1,500 lb/yd^3)
- 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.

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

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		HD Reach		HD Reach	
Stick Length		HD 2.9 (9'6")	HD 2.5 (8'2")	HD 2.9 (9'6")	HD 2.5 (8'2")
Hydraulic Hammers	H115 GC	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC Side Mount	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC	✓	✓	✓	✓
	H130 GC S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
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		HD Reach		HD Reach	
Stick Length		HD 2.9 (9'6")	HD 2.5 (8'2")	HD 2.9 (9'6")	HD 2.5 (8'2")
Hydraulic Hammers	H115 GC	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓
	H120 GC S	✓*	✓	✓	✓
	H120 S	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓
	CVP110	✓	✓	✓	✓

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

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 No Match

PIN-ON ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		**HD Reach**		**HD Reach**	
Stick Length		**HD 2.9 (9'6")**	**HD 2.5 (8'2")**	**HD 2.9 (9'6")**	**HD 2.5 (8'2")**
Hydraulic Hammers	H115 GC	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC	✓	✓	✓	✓
	H130 GC S	✓	✓	✓	✓
	H130 S	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top	✓*	✓	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓	✓	✓
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC20	✓	✓	✓	✓

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		3.7 mt (8,200 lb)		4.2 mt (9,300 lb)	
Boom Type		**HD Reach**		**HD Reach**	
Stick Length		**HD 2.9 (9'6")**	**HD 2.5 (8'2")**	**HD 2.9 (9'6")**	**HD 2.5 (8'2")**
Hydraulic Hammers	H115 GC	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓
	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120 S	✓	✓	✓	✓
	H130 GC S		✓*	✓*	✓
	H130 S	✓	✓	✓	✓
Demolition and Sorting Grapples	G318	✓*	✓*	✓	✓
Mobile Scrap and Demolition Shears	S3025 Flat Top				✓*
Pulverizers	P218 Secondary Pulverizer		✓*	✓*	✓
Mulchers	HM4015	✓	✓	✓	✓
	HM4815	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Rotary Cutters	RC20	✓	✓	✓	✓

(continued on next page)

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

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		HD Reach		HD Reach	
Stick Length		HD 2.9 (9'6")	HD 2.5 (8'2")	HD 2.9 (9'6")	HD 2.5 (8'2")
Hydraulic Hammers	H115 GC	✓	✓	✓	✓
	H115 GC S	✓	✓	✓	✓
	H115 S	✓	✓	✓	✓
	H120 GC S	✓*	✓	✓	✓
	H120 S	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP75	✓	✓	✓	✓
	CVP110	✓	✓	✓	✓

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

BOOM-MOUNT ATTACHMENTS

Counterweight		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
ENGINE		
Cat C7.1 single turbo diesel engine	✓	
Three selectable power modes	✓	
Auto engine speed control	✓	
Auto engine idle shutdown	✓	
4500 m (14,760 ft) altitude capability with derate from 3000 m (9,840 ft)	✓	
52° C (125° F) high-ambient cooling capacity	✓	
Starting capability for –18° C (0° F) with jump start receptacle	✓	
Double element air filter with integrated pre-cleaner	✓	
Electric cooling fans with auto-reverse function	✓	
HYDRAULIC SYSTEM		
Boom and stick regeneration circuits	✓	
Electronic main control valve	✓	
Auto Dig Boost	✓[1]	
Auto heavy lift	✓	
Auto warm up	✓	
Auto two-speed travel	✓	
Boom and stick drift reduction valve	✓	
Element type main hydraulic filter	✓	
Slider joysticks	✓	
Tandem type electronic main pump	✓	
Hammer return filter circuit		✓
Hydraulic efficiency monitoring		✓
Tool Control (two pumps, one/two way high-pressure flow)		✓
Basic Tool Control (one pump, one way high-pressure flow)		✓
Medium pressure circuit		✓
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓

[1]Not available for Super Long Reach.

	Standard	Optional
UNDERCARRIAGE AND STRUCTURES		
600 mm (24") triple grouser track shoes		✓
790 mm (31") triple grouser track shoes		✓
800 mm (31") triple grouser shoes		✓
Tie-down points on base frame	✓	
Segmented track guiding guards	✓	
Full-length track guiding guards		✓
Bottom guards	✓	
HD bottom guards		✓
Swivel guard		✓
Travel motor guards	✓	
HD travel motor guards		✓
Grease lubricated track links	✓	
3700 kg (8,200 lb) counterweight	✓	
4200 kg (9,300 lb) counterweight for heavy-duty		✓
4700 kg (10,400 lb) counterweight for Super Long Reach		✓
Standard swing frame	✓	
Semi-HD swing frame for HD and SLR		✓
HD base frame with SD track rollers and standard carrier rollers		✓
Standard base frame with HD track rollers and standard carrier rollers	✓	
BOOM, STICKS AND LINKAGES		
5.7 m (18'8") HD Reach boom		✓
8.85 m (29'0) Super Long Reach boom		✓
2.9 m (9'6") HD Reach stick		✓
2.5 m (8'2") HD Reach stick		✓
6.28 m (20'7") Super Long Reach stick		✓
Bucket linkage, B1-family with lifting eye		✓
Bucket linkage, B1-family without lifting eye		✓
Bucket linkage, A-family with or without lifting eye, SLR		✓

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
ELECTRICAL SYSTEM		
1,000 CCA maintenance-free batteries (×2)	✓	
Centralized electrical disconnect switch	✓	
LED chassis light, Left Hand (LH) boom light, cab lights	✓	
Premium surround lighting package		✓
CAT TECHNOLOGY		
Cat Equipment Management:		
– VisionLink™	✓[2]	
– Remote Flash	✓	
– Remote Troubleshoot	✓	
– Work tool recognition and tracking (PL161)	✓[3]	
– Operator Coaching		✓[4]
Cat Grade:		
– Cat Grade with 2D	✓[5]	
– Cat Grade with 2D with Attachment Ready Option (ARO)		✓
– Laser catcher		✓
– Cat Grade with 3D (single or dual GNSS)		✓
– Compatible with 3D grade systems from Trimble, Topcon, and Leica	✓	
– Cat Grade 3D Ready		✓
Cat Assist:[5]		
– Grade Assist	✓	
– Boom Assist	✓	
– Bucket Assist	✓	
– Swing Assist	✓	
– Lift Assist	✓	
Cat Payload:[5]		
– On-the-go weighing	✓	
– Semiautomatic calibration	✓	
– Payload/cycle information	✓	
– VisionLink back office reporting		✓[6]
Cat Advanced Payload:		
– Daily totals		✓
– Custom lists		✓
– Smart weight target		✓
– E-ticket Integration		✓[6]
Other:		
Cat Tiltrotator (TRS) integration		✓

	Standard	Optional
SERVICE AND MAINTENANCE		
S·O·S℠ ports	✓	
Grouped location for engine oil and fuel filters	✓	
Ground-level second dipstick for engine oil	✓	
Radiator screen		✓
Integrated vehicle health management system	✓	
SAFETY AND SECURITY		
Cat Command (remote control)		✓
2D E-Fence: – E-ceiling – E-floor – E-swing – E-wall – E-cab avoidance	✓[5]	
Rearview camera and right-hand side mirror	✓	
Right-hand-sideview camera		✓
360° visibility		✓
Neutral lever (lock out) for all controls	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
Lockable disconnect switch	✓	
Right Hand (RH) handrail and handhold	✓	
Swing alarm		✓
Travel alarm		✓
Cab mirror for RH side track edge		✓
Handholds inside radiator compartment		✓

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

[3]Requires PL161 attachment locator on work tool and Bluetooth® receiver on machine.

[4]VisionLink subscription required for back office reporting. Consult your Cat dealer for details.

[5]Optional on machines equipped with a Super Long Reach boom and stick.

[6]VisionLink subscription required. Consult your Cat dealer for details.

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

Cab Options

	Comfort	Deluxe
ROPS	●	●
OPG	○	○
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

320 Environmental Declaration

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 CO_2 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)

- External Sound – The spectator sound power level is measured according to the test procedures and conditions specified in ISO 6395:2008 for a Cat machine that is properly equipped and maintained. The measurements were conducted at 70% of the maximum engine cooling fan speed.

- Internal Sound – The operator sound pressure level is measured according to the test procedures and conditions specified in ISO 6396:2008 for a cab offered by Caterpillar, when properly installed and maintained and tested with the door and windows closed. The measurements were conducted at 70% of the maximum engine cooling fan speed.

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

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
  - Utilizing Cat technologies can help increase operating efficiencies
  - Extended service intervals help decrease maintenance costs
  - The latest hydraulic oil filter provides longer life with a 3,000-hour replacement interval

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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