



320

Hydraulic Excavator

Technical Specifications

Engine

Engine Model	Cat® C4.4
Engine Power (ISO 9249)	121 kW/162 hp/165 ps
Engine Power (ISO 14396)	122 kW/164 hp/166 ps
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L

- The 320 meets EU Stage IV emission standards.
- Recommended for use up to 4500 m altitude with engine power derate above 3000 m.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Rating at 1,800 rpm.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes.

Swing Mechanism

Swing Speed	11.3 rpm
Maximum Swing Torque	74 kN·m

Weights

Operating Weight	21 600 kg
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- Reach boom, R2.9 stick, GD 1.19 m³ bucket and 600 mm triple grouser shoes, 4.2 mt counterweight.

Track

Standard Track Shoes Width	600 mm
Optional Track Shoes Width	700 mm 790 mm 900 mm
Number of Shoes (each side)	49
Number of Track Rollers (each side)	8
Number of Carrier Rollers (each side)	2

Drive

Maximum Gradeability	35°/70%
Maximum Travel Speed	5.7 km/h
Maximum Drawbar Pull – Long Undercarriage	205 kN

Hydraulic System

Main System – Maximum Flow (Implement)	429 L/min (214.5 × 2 pumps)
Maximum Pressure – Equipment – Normal	35 000 kPa
Maximum Pressure – Equipment – Lift Mode	38 000 kPa
Maximum Pressure – Travel	34 300 kPa
Maximum Pressure – Swing	26 800 kPa
Boom Cylinder – Bore	120 mm
Boom Cylinder – Stroke	1260 mm
Stick Cylinder – Bore	140 mm
Stick Cylinder – Stroke	1504 mm
Bucket Cylinder – Bore	120 mm
Bucket Cylinder – Stroke	1104 mm

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Service Refill Capacities

Fuel Tank Capacity	345 L
Cooling System	25 L
Engine Oil	15 L
Swing Drive (each)	5 L
Final Drive (each)	5 L
Hydraulic System (including tank)	234 L
Hydraulic Tank	115 L
DEF Tank	39 L

Standards

Brakes	ISO 10265:2008
Cab/FOGS	ISO 10262:1998
Cab/ROPS	ISO 12117-2:2008

Sound Performance

ISO 6395 (external)	99 dB(A)
ISO 6396 (inside cab)	70 dB(A)

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

Operating Weights and Ground Pressures

	600 mm		700 mm		790 mm		900 mm	
	Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg	kPa	kg	kPa	kg	kPa	kg	kPa
4.2 mt Counterweight								
Reach Boom + R2.9 Stick + 1.19 m ³ GD Bucket	21 600	44.9	22 000	39.2	22 300	35.2	23 100	32.0

All operating weights include a 90% fuel tank with 75 kg operator.

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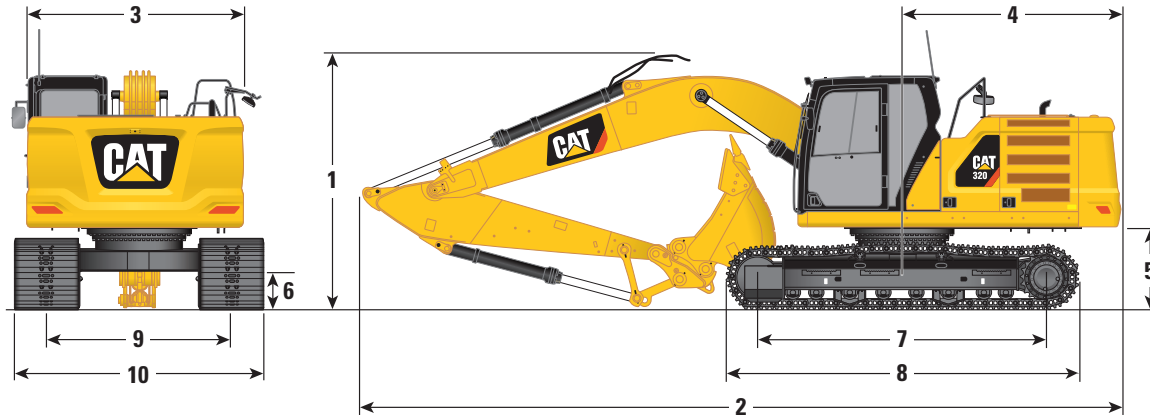
Major Component Weights

	kg
Base Machine (with 4.2 mt 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 operator)	14 800
Track Shoes:	
600 mm Width, 10 mm Thick Triple Grouser Track Shoes	2690
700 mm Width, 10 mm Thick Triple Grouser Track Shoes	3050
790 mm Width, 10 mm Thick Triple Grouser Track Shoes with Step Extension for ISO 2867:2011	3370
900 mm Width, 12.5 mm Thick Triple Grouser HD Track Shoes with Step Extension for ISO 2867:2011	4180
Two Boom Cylinders	340
Weight of 90% Fuel Tank and 75 kg Operator	310
Counterweight:	
4.2 mt Counterweight	4200
4.7 mt Counterweight	4700
Swing Frame:	
Semi-HD Swing Frame	1910
Standard and Long Undercarriage:	
Standard Base Frame with HD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4390
Booms (including lines, pins, stick cylinder):	
Reach Boom (5.7 m)	1710
Super Long Reach Boom (8.85 m)	2170
VA Boom (2.8 m Stub + 3.3 m Fore)	3050
Sticks (including lines, pins, bucket cylinder, bucket linkage):	
Reach Stick (R2.9B1)	990
Reach Stick (R2.5B1)	970
Super Long Reach Stick (6.28A)	1340
Buckets (without linkage):	
1.19 m ³ GD	800
0.57 m ³ Ditch Cleaning	390
0.53 m ³ GD	410
Quick Couplers:	
CW Dedicated QC	230
Pin Grabber QC	390

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Dimensions

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

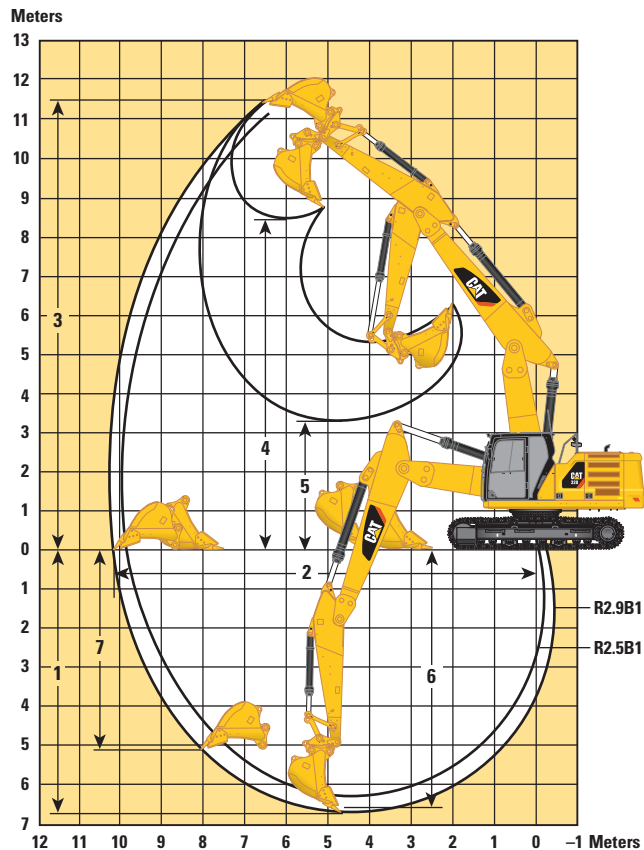
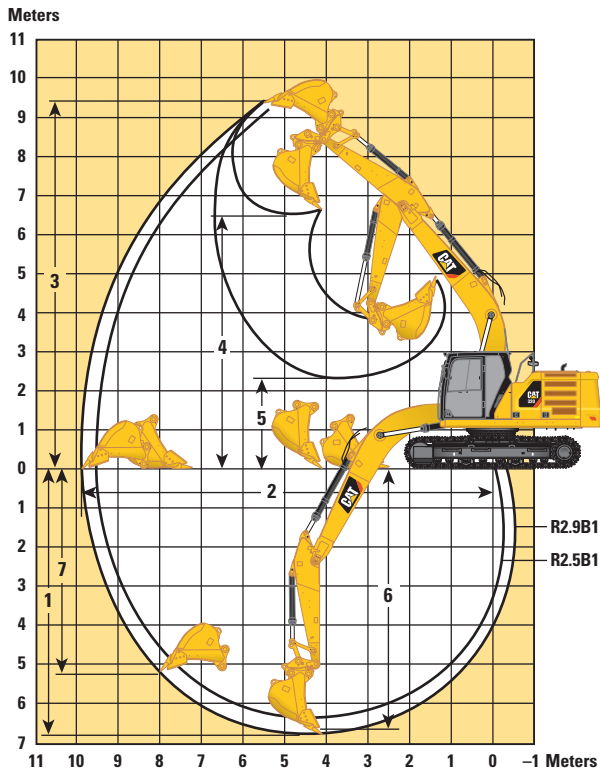


Boom Options	Reach Boom 5.7 m		SLR Boom 8.85 m	VA Boom 2.8 m Stub/3.3 m Fore	
Stick Options	Reach Sticks		SLR Stick	Reach Sticks	
	R2.9B1	R2.5B1	6.28A	R2.9B1	R2.5B1
1 Machine Height:					
Top of Cab Height	2960 mm	2960 mm	2960 mm	2960 mm	2960 mm
Top of FOGS Height	3100 mm	3100 mm	3100 mm	3100 mm	3100 mm
Handrails Height	2950 mm	2950 mm	2950 mm	2950 mm	2950 mm
With Boom/Stick/Bucket Installed	3160 mm	3160 mm	3190 mm	3000 mm	2910 mm
With Boom/Stick Installed	2910 mm	2910 mm	3070 mm	2790 mm	2700 mm
With Boom Installed	2480 mm	2480 mm	2650 mm	2310 mm	2310 mm
2 Machine Length:					
With Boom/Stick/Bucket Installed	9530 mm	9530 mm	12 750 mm	9770 mm	9800 mm
With Boom/Stick Installed	9500 mm	9500 mm	12 760 mm	9780 mm	9780 mm
With Boom Installed	8450 mm	8450 mm	8920 mm	8710 mm	8710 mm
3 Upperframe Width without Walkways	2780 mm	2780 mm	2780 mm	2780 mm	2780 mm
4 Tail Swing Radius	2830 mm	2830 mm	2830 mm	2830 mm	2830 mm
5 Counterweight Clearance	1050 mm	1050 mm	1050 mm	1050 mm	1050 mm
6 Ground Clearance	470 mm	470 mm	470 mm	470 mm	470 mm
7 Length to Center of Rollers	3650 mm	3650 mm	3650 mm	3650 mm	3650 mm
8 Track Length	4450 mm	4450 mm	4450 mm	4450 mm	4450 mm
9 Track Gauge	2380 mm	2380 mm	2380 mm	2380 mm	2380 mm
Track Width:					
600 mm Shoes	600 mm	600 mm	600 mm	600 mm	600 mm
700 mm Shoes	700 mm	700 mm	700 mm	700 mm	700 mm
790 mm Shoes	790 mm	790 mm	790 mm	790 mm	790 mm
900 mm Shoes	900 mm	900 mm	900 mm	900 mm	900 mm
10 Undercarriage Width (with steps/without steps):					
600 mm Shoes	2980 mm	2980 mm	2980 mm	2980 mm	2980 mm
700 mm Shoes	3080 mm	3080 mm	3080 mm	3080 mm	3080 mm
790 mm Shoes	3170 mm	3170 mm	3170 mm	3170 mm	3170 mm
900 mm Shoes	3280 mm	3280 mm	3280 mm	3280 mm	3280 mm
Bucket Type	GD	GD	DC	GD	GD
Bucket Capacity	1.19 m ³	1.19 m ³	0.57 m ³	1.19 m ³	1.19 m ³
Bucket Tip Radius	1570 mm	1570 mm	1070 mm	1570 mm	1570 mm

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Working Ranges

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



Boom Options

Reach Boom 5.7 m

VA Boom 2.8 m Stub/3.3 m Fore

Stick Options

Reach Sticks

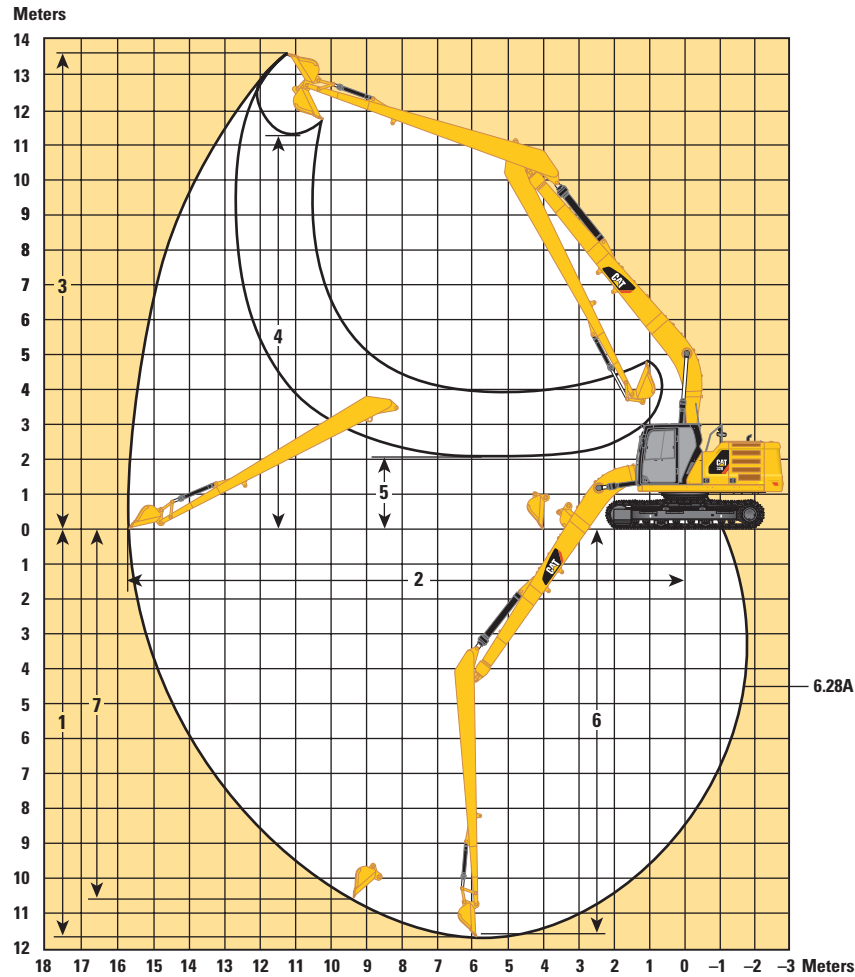
Reach Sticks

	R2.9B1	R2.5B1	R2.9B1	R2.5B1
1 Maximum Digging Depth	6720 mm	6300 mm	6700 mm	6280 mm
2 Maximum Reach at Ground Line	9860 mm	9470 mm	10 210 mm	9810 mm
3 Maximum Cutting Height	9370 mm	9170 mm	11 520 mm	11 180 mm
4 Maximum Loading Height	6490 mm	6290 mm	8410 mm	8070 mm
5 Minimum Loading Height	2170 mm	2590 mm	3260 mm	3660 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	6550 mm	6110 mm	6600 mm	6180 mm
7 Maximum Vertical Wall Digging Depth	5190 mm	4800 mm	5060 mm	4680 mm
Bucket Digging Force (ISO)	150 kN	150 kN	150 kN	150 kN
Stick Digging Force (ISO)	106 kN	118 kN	106 kN	118 kN
Bucket Type	GD	GD	GD	GD
Bucket Capacity	1.19 m ³	1.19 m ³	1.19 m ³	1.19 m ³
Bucket Tip Radius	1570 mm	1570 mm	1570 mm	1570 mm

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Working Ranges

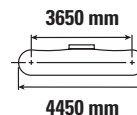
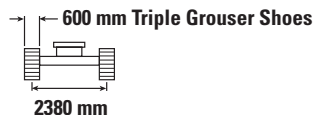
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Boom Option	SLR Boom 8.85 m	
Stick Options	6.28A	6.28A
	1 Maximum Digging Depth	11 540 mm
2 Maximum Reach at Ground Line	15 570 mm	15 730 mm
3 Maximum Cutting Height	13 540 mm	13 610 mm
4 Maximum Loading Height	11 440 mm	11 290 mm
5 Minimum Loading Height	2240 mm	2080 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	11 440 mm	11 590 mm
7 Maximum Vertical Wall Digging Depth	11 020 mm	10 560 mm
Bucket Digging Force (ISO)	62 kN	60 kN
Stick Digging Force (ISO)	49 kN	49 kN
Bucket Type	DC	GD
Bucket Capacity	0.57 m ³	0.53 m ³
Bucket Tip Radius	1070 mm	1230 mm

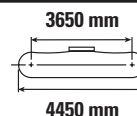
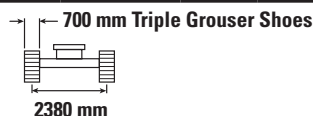
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Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
7500 mm	kg							*4950	*4950			*4300	*4300	6150
6000 mm	kg							*5450	5450			*3950	3950	7290
4500 mm	kg							*6000	5300	*5650	3750	*3900	3400	7990
3000 mm	kg					*8750	7700	*6900	5050	5600	3650	*4000	3100	8360
1500 mm	kg					*10 650	7200	7650	4850	5500	3550	*4250	3000	8450
0 mm	kg			*6600	*6600	*11 650	6950	7450	4650	5400	3450	*4700	3050	8260
-1500 mm	kg	*7050	*7050	*11 400	*11 400	11 700	6850	7400	4600	5350	3450	5100	3300	7780
-3000 mm	kg	*12 100	*12 100	*15 600	13 350	*11 000	6900	7400	4650			6050	3850	6950
-4500 mm	kg			*12 500	*12 500	*9000	7100					*6800	5250	5600

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
7500 mm	kg							*4950	*4950			*4300	*4300	6150
6000 mm	kg							*5450	*5450			*3950	*3950	7290
4500 mm	kg							*6000	5350	*5650	3800	*3900	3400	7990
3000 mm	kg					*8750	7750	*6900	5100	5650	3700	*4000	3150	8360
1500 mm	kg					*10 650	7250	7750	4900	5550	3600	*4250	3000	8450
0 mm	kg			*6600	*6600	*11 650	7000	7550	4700	5450	3500	*4700	3050	8260
-1500 mm	kg	*7050	*7050	*11 400	*11 400	*11 750	6950	7450	4650	5400	3450	5150	3300	7780
-3000 mm	kg	*12 100	*12 100	*15 600	13 450	*11 000	7000	7500	4650			6100	3900	6950
-4500 mm	kg			*12 500	*12 500	*9000	7200					*6800	5300	5600



ISO 10567



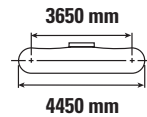
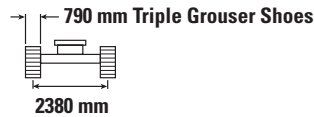
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Lift capacity stays with ±5% for all available track shoes.

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

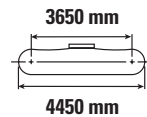
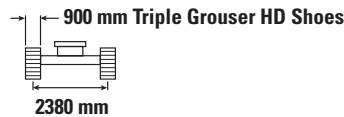
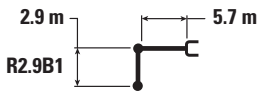
320 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
7500 mm	kg							*4950	*4950			*4300	*4300	6150
6000 mm	kg							*5450	*5450			*3950	*3950	7290
4500 mm	kg							*6000	5400	*5650	3850	*3900	3450	7990
3000 mm	kg					*8750	7850	*6900	5150	5750	3750	*4000	3150	8360
1500 mm	kg					*10 650	7350	7850	4950	5600	3600	*4250	3050	8450
0 mm	kg			*6600	*6600	*11 650	7100	7650	4800	5550	3550	*4700	3100	8260
-1500 mm	kg	*7050	*7050	*11 400	*11 400	*11 750	7000	7550	4700	5500	3500	5250	3350	7780
-3000 mm	kg	*12 100	*12 100	*15 600	13 650	*11 000	7050	7600	4750			6200	3950	6950
-4500 mm	kg			*12 500	*12 500	*9000	7250					*6800	5400	5600

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
7500 mm	kg							*4950	*4950			*4300	*4300	6150
6000 mm	kg							*5450	*5450			*3950	*3950	7290
4500 mm	kg							*6000	5550	*5650	3950	*3900	3550	7990
3000 mm	kg					*8750	8100	*6900	5350	5950	3850	*4000	3300	8360
1500 mm	kg					*10 650	7600	*7850	5100	5800	3750	*4250	3150	8450
0 mm	kg			*6600	*6600	*11 650	7350	7900	4950	5700	3650	*4700	3200	8260
-1500 mm	kg	*7050	*7050	*11 400	*11 400	*11 750	7250	7850	4850	5700	3650	5400	3500	7780
-3000 mm	kg	*12 100	*12 100	*15 600	14 050	*11 000	7300	7850	4900			6400	4050	6950
-4500 mm	kg			*12 500	*12 500	*9000	7500					*6800	5550	5600



ISO 10567



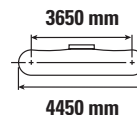
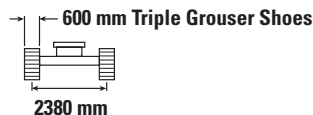
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Lift capacity stays with ±5% for all available track shoes.

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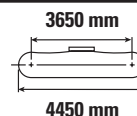
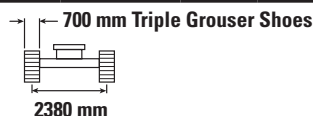
320 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



Reach Boom Length	Unit	3000 mm		4500 mm		6000 mm		7500 mm		Attachment		mm
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
7500 mm	kg									*5150	*5150	5600
6000 mm	kg					*5900	5350			*4750	4350	6830
4500 mm	kg			*7450	*7450	*6400	5250	*5250	3700	*4650	3650	7570
3000 mm	kg			*9350	7550	*7250	5000	5600	3650	*4750	3300	7960
1500 mm	kg			*11 050	7150	7600	4800	5500	3550	4950	3200	8050
0 mm	kg			11 750	6900	7450	4650	5400	3450	5050	3250	7860
-1500 mm	kg	*12 000	*12 000	*11 650	6900	7400	4600			5550	3550	7350
-3000 mm	kg	*14 650	13 500	*10 650	7000	7500	4700			6750	4250	6470
-4500 mm	kg			*7950	7250					*6900	6300	4980

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



Reach Boom Length	Unit	3000 mm		4500 mm		6000 mm		7500 mm		Attachment		mm
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
7500 mm	kg									*5150	*5150	5600
6000 mm	kg					*5900	5400			*4750	4400	6830
4500 mm	kg			*7450	*7450	*6400	5300	*5250	3750	*4650	3700	7570
3000 mm	kg			*9350	7650	*7250	5050	5650	3650	*4750	3350	7960
1500 mm	kg			*11 050	7200	7700	4850	5550	3550	5000	3250	8050
0 mm	kg			*11 800	7000	7550	4700	5450	3500	5100	3300	7860
-1500 mm	kg	*12 000	*12 000	*11 650	6950	7500	4650			5600	3600	7350
-3000 mm	kg	*14 650	13 600	*10 650	7050	7550	4750			6800	4300	6470
-4500 mm	kg			*7950	7300					*6900	6350	4980



ISO 10567



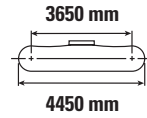
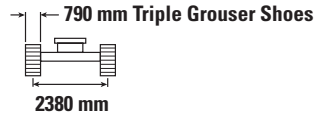
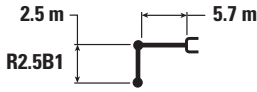
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








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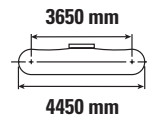
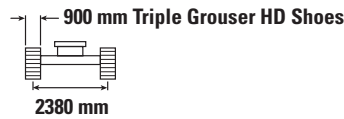
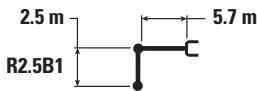
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








Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm				mm
												
7500 mm	kg									*5150	*5150	5600
6000 mm	kg					*5900	5500			*4750	4450	6830
4500 mm	kg			*7450	*7450	*6400	5350	*5250	3800	*4650	3750	7570
3000 mm	kg			*9350	7750	*7250	5100	5700	3700	*4750	3400	7960
1500 mm	kg			*11 050	7300	7800	4900	5600	3600	5050	3250	8050
0 mm	kg			*11 800	7100	7650	4800	5550	3550	5200	3350	7860
-1500 mm	kg	*12 000	*12 000	*11 650	7050	7600	4750			5700	3650	7350
-3000 mm	kg	*14 650	13 750	*10 650	7150	7650	4800			6900	4350	6470
-4500 mm	kg			*7950	7400					*6900	6450	4980

Reach Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: On



		3000 mm		4500 mm		6000 mm		7500 mm				mm
												
7500 mm	kg									*5150	*5150	5600
6000 mm	kg					*5900	5650			*4750	4600	6830
4500 mm	kg			*7450	*7450	*6400	5500	*5250	3900	*4650	3850	7570
3000 mm	kg			*9350	7950	*7250	5300	5900	3850	*4750	3500	7960
1500 mm	kg			*11 050	7550	8050	5100	5800	3750	*5100	3400	8050
0 mm	kg			*11 800	7300	7900	4950	5750	3650	5400	3450	7860
-1500 mm	kg	*12 000	*12 000	*11 650	7300	7850	4900			5900	3750	7350
-3000 mm	kg	*14 650	14 200	*10 650	7400	*7850	4950			*7050	4500	6470
-4500 mm	kg			*7950	7650					*6900	6650	4980



ISO 10567



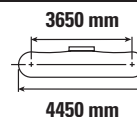
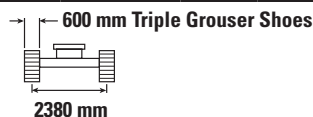
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

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

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

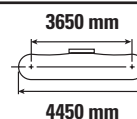
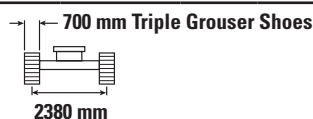
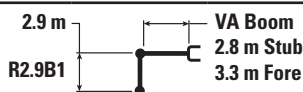
320 Hydraulic Excavator Specifications

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
9000 mm	kg					*4650	*4650					*4750	*4750	4880
7500 mm	kg					*6450	*6450	*3950	*3950			*3950	*3950	6620
6000 mm	kg					*6650	*6650	*4750	*4750	*3700	3700	*3650	3550	7690
4500 mm	kg			*10 500	*10 500	*6600	*6600	*4650	*4650	*3650	3650	*3550	3000	8350
3000 mm	kg			*10 000	*10 000	*6400	*6400	*3850	*3850	*3950	3500	*3600	2750	8710
1500 mm	kg			*5750	*5750	*5600	*5600	*4350	*4350	*4450	3350	*3800	2650	8790
0 mm	kg	*6500	*6500	*5250	*5250	*7400	6450	*5150	4350	*5050	3250	*4100	2700	8610
-1500 mm	kg	*8250	*8250	*8500	*8500	*8400	6400	*6500	4300	*4850	3200	*3950	2900	8160
-3000 mm	kg	*13 200	*13 200	*8900	*8900	*6250	*6250	*4950	4350			*3250	*3250	7340
-4500 mm	kg	*20 550	*20 550	*9200	*9200	*5850	*5850					*4850	*4850	5350

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
9000 mm	kg					*4650	*4650					*4750	*4750	4880
7500 mm	kg					*6450	*6450	*3950	*3950			*3950	*3950	6620
6000 mm	kg					*6650	*6650	*4750	*4750	*3700	*3700	*3650	3550	7690
4500 mm	kg			*10 500	*10 500	*6600	*6600	*4650	*4650	*3650	*3650	*3550	3050	8350
3000 mm	kg			*10 000	*10 000	*6400	*6400	*3850	*3850	*3950	3550	*3600	2750	8710
1500 mm	kg			*5750	*5750	*5600	*5600	*4350	*4350	*4450	3400	*3800	2650	8790
0 mm	kg	*6500	*6500	*5250	*5250	*7400	6550	*5150	4400	*5050	3250	*4100	2700	8610
-1500 mm	kg	*8250	*8250	*8500	*8500	*8400	6450	*6500	4350	*4850	3250	*3950	2900	8160
-3000 mm	kg	*13 200	*13 200	*8900	*8900	*6250	*6250	*4950	4400			*3250	*3250	7340
-4500 mm	kg	*20 550	*20 550	*9200	*9200	*5850	*5850					*4850	*4850	5350



ISO 10567



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

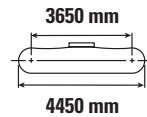
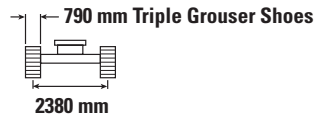
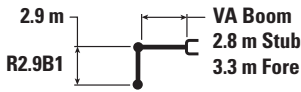
VA cylinder is flexible.

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

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

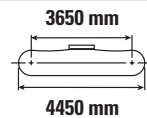
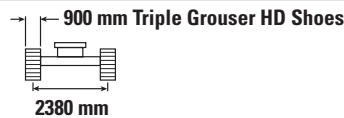
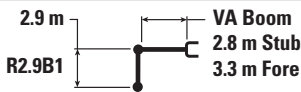
320 Hydraulic Excavator Specifications

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



Boom Length	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
9000 mm	kg					*4650	*4650					*4750	*4750	4880
7500 mm	kg					*6450	*6450	*3950	*3950			*3950	*3950	6620
6000 mm	kg					*6650	*6650	*4750	*4750	*3700	*3700	*3650	3600	7690
4500 mm	kg			*10 500	*10 500	*6600	*6600	*4650	*4650	*3650	*3650	*3550	3100	8350
3000 mm	kg			*10 000	*10 000	*6400	*6400	*3850	*3850	*3950	3600	*3600	2800	8710
1500 mm	kg			*5750	*5750	*5600	*5600	*4350	*4350	*4450	3400	*3800	2700	8790
0 mm	kg	*6500	*6500	*5250	*5250	*7400	6650	*5150	4450	*5050	3300	*4100	2750	8610
-1500 mm	kg	*8250	*8250	*8500	*8500	*8400	6550	*6500	4400	*4850	3250	*3950	2950	8160
-3000 mm	kg	*13 200	*13 200	*8900	*8900	*6250	*6250	*4950	4450			*3250	*3250	7340
-4500 mm	kg	*20 550	*20 550	*9200	*9200	*5850	*5850					*4850	*4850	5350

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



Boom Length	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
		Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	Hydraulic	Tipping	
9000 mm	kg					*4650	*4650					*4750	*4750	4880
7500 mm	kg					*6450	*6450	*3950	*3950			*3950	*3950	6620
6000 mm	kg					*6650	*6650	*4750	*4750	*3700	*3700	*3650	*3650	7690
4500 mm	kg			*10 500	*10 500	*6600	*6600	*4650	*4650	*3650	*3650	*3550	3200	8350
3000 mm	kg			*10 000	*10 000	*6400	*6400	*3850	*3850	*3950	3700	*3600	2900	8710
1500 mm	kg			*5750	*5750	*5600	*5600	*4350	*4350	*4450	3550	*3800	2800	8790
0 mm	kg	*6500	*6500	*5250	*5250	*7400	6850	*5150	4650	*5050	3450	*4100	2850	8610
-1500 mm	kg	*8250	*8250	*8500	*8500	*8400	6800	*6500	4550	*4850	3400	*3950	3050	8160
-3000 mm	kg	*13 200	*13 200	*8900	*8900	*6250	*6250	*4950	4600			*3250	*3250	7340
-4500 mm	kg	*20 550	*20 550	*9200	*9200	*5850	*5850					*4850	*4850	5350



ISO 10567



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

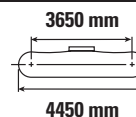
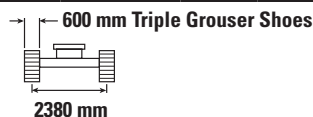
VA cylinder is flexible.

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

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

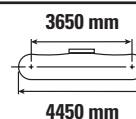
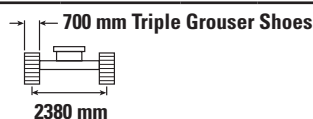
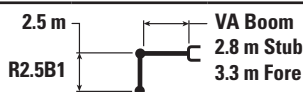
320 Hydraulic Excavator Specifications

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
9000 mm	kg											*5950	*5950	4110
7500 mm	kg					*6850	*6850	*4800	*4800			*4750	*4750	6080
6000 mm	kg					*6750	*6750	*4300	*4300			*4400	3850	7230
4500 mm	kg			*10 400	*10 400	*6600	*6600	*4200	*4200	*4400	3600	*4250	3250	7930
3000 mm	kg			*9450	*9450	*5900	*5900	*4050	*4050	*4600	3450	*4300	2950	8300
1500 mm	kg			*6450	*6450	*6050	*6050	*4650	4550	*5050	3300	*4550	2800	8390
0 mm	kg	*9250	*9250	*6050	*6050	*8100	6450	*5550	4350	5250	3250	*4600	2900	8210
-1500 mm	kg	*10 400	*10 400	*8950	*8950	*7800	6450	*6200	4300	*4450	3250	*4050	3150	7720
-3000 mm	kg	*16 250	*16 250	*9050	*9050	*5700	*5700	*4300	*4300			*3650	*3650	6780
-4500 mm	kg	*21 050	*21 050	*9500	*9500							*6550	*6550	4150

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
9000 mm	kg											*5950	*5950	4110
7500 mm	kg					*6850	*6850	*4800	*4800			*4750	*4750	6080
6000 mm	kg					*6750	*6750	*4300	*4300			*4400	3900	7230
4500 mm	kg			*10 400	*10 400	*6600	*6600	*4200	*4200	*4400	3600	*4250	3300	7930
3000 mm	kg			*9450	*9450	*5900	*5900	*4050	*4050	*4600	3500	*4300	2950	8300
1500 mm	kg			*6450	*6450	*6050	*6050	*4650	4600	*5050	3350	*4550	2850	8390
0 mm	kg	*9250	*9250	*6050	*6050	*8100	6500	*5550	4400	5300	3250	*4600	2900	8210
-1500 mm	kg	*10 400	*10 400	*8950	*8950	*7800	6500	*6200	4350	*4450	3250	*4050	3150	7720
-3000 mm	kg	*16 250	*16 250	*9050	*9050	*5700	*5700	*4300	*4300			*3650	*3650	6780
-4500 mm	kg	*21 050	*21 050	*9500	*9500							*6550	*6550	4150



ISO 10567



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

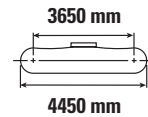
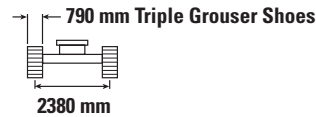
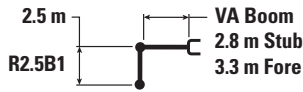
VA cylinder is flexible.

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

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

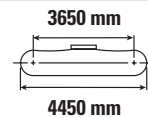
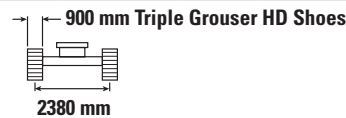
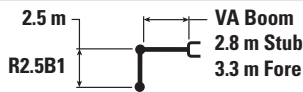
320 Hydraulic Excavator Specifications

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
9000 mm	kg											*5950	*5950	4110
7500 mm	kg					*6850	*6850	*4800	*4800			*4750	*4750	6080
6000 mm	kg					*6750	*6750	*4300	*4300			*4400	3950	7230
4500 mm	kg			*10 400	*10 400	*6600	*6600	*4200	*4200	*4400	3650	*4250	3300	7930
3000 mm	kg			*9450	*9450	*5900	*5900	*4050	*4050	*4600	3550	*4300	3000	8300
1500 mm	kg			*6450	*6450	*6050	*6050	*4650	*4650	*5050	3400	*4550	2900	8390
0 mm	kg	*9250	*9250	*6050	*6050	*8100	6600	*5550	4450	5400	3300	*4600	2950	8210
-1500 mm	kg	*10 400	*10 400	*8950	*8950	*7800	6600	*6200	4400	*4450	3300	*4050	3200	7720
-3000 mm	kg	*16 250	*16 250	*9050	*9050	*5700	*5700	*4300	*4300			*3650	*3650	6780
-4500 mm	kg	*21 050	*21 050	*9500	*9500							*6550	*6550	4150

Variable Angle Boom Lift Capacities – Counterweight: 4.2 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
		Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	Diagram	
9000 mm	kg											*5950	*5950	4110
7500 mm	kg					*6850	*6850	*4800	*4800			*4750	*4750	6080
6000 mm	kg					*6750	*6750	*4300	*4300			*4400	4100	7230
4500 mm	kg			*10 400	*10 400	*6600	*6600	*4200	*4200	*4400	3800	*4250	3450	7930
3000 mm	kg			*9450	*9450	*5900	*5900	*4050	*4050	*4600	3650	*4300	3100	8300
1500 mm	kg			*6450	*6450	*6050	*6050	*4650	*4650	*5050	3550	*4550	3000	8390
0 mm	kg	*9250	*9250	*6050	*6050	*8100	6850	*5550	4650	*5500	3450	*4600	3050	8210
-1500 mm	kg	*10 400	*10 400	*8950	*8950	*7800	6850	*6200	4600	*4450	3450	*4050	3350	7720
-3000 mm	kg	*16 250	*16 250	*9050	*9050	*5700	*5700	*4300	*4300			*3650	*3650	6780
-4500 mm	kg	*21 050	*21 050	*9500	*9500							*6550	*6550	4150



ISO 10567



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

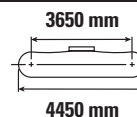
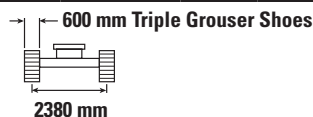
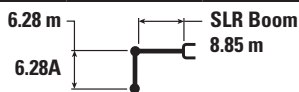
VA cylinder is flexible.

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

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

320 Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
														mm
12 000 mm	kg											*1300	*1300	10 350
10 500 mm	kg											*1200	*1200	11 660
9000 mm	kg											*1150	*1150	12 660
7500 mm	kg											*1100	*1100	13 410
6000 mm	kg											*1100	*1100	13 970
4500 mm	kg											*1100	*1100	14 340
3000 mm	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	3600	*1150	1150	14 550
1500 mm	kg					*6750	6400	*5250	4400	*4100	3250	*1200	1100	14 600
0 mm	kg			*2050	*2050	*4700	*4700	*5900	3950	*4550	3000	*1300	1100	14 490
-1500 mm	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3700	4750	2750	*1400	1100	14 230
-3000 mm	kg	*2850	*2850	*3550	*3550	*5200	*5200	6350	3550	4600	2650	*1500	1150	13 790
-4500 mm	kg	*3700	*3700	*4450	*4450	*6100	5350	6300	3500	4550	2600	*1700	1200	13 170
-6000 mm	kg	*4550	*4550	*5450	*5450	*7250	5450	*6150	3550	4550	2600	*2000	1350	12 340
-7500 mm	kg	*5500	*5500	*6600	*6600	*7300	5650	*5650	3650	*4550	2700	*2550	1600	11 240
-9000 mm	kg			*8000	*8000	*6150	5950	*4850	3850	*3950	2800	*2700	2000	9800

Reach (mm)	Unit	9000 mm		10 500 mm		12 000 mm		13 500 mm		mm		
												mm
12 000 mm	kg									*1300	*1300	10 350
10 500 mm	kg			*2200	*2200					*1200	*1200	11 660
9000 mm	kg			*2200	*2200	*2000	1950			*1150	*1150	12 660
7500 mm	kg			*2250	*2250	*2250	1900			*1100	*1100	13 410
6000 mm	kg			*2400	*2400	*2300	1850	*1850	1450	*1100	*1100	13 970
4500 mm	kg	*2800	*2800	*2600	2300	*2400	1800	2300	1400	*1100	*1100	14 340
3000 mm	kg	*3100	2750	*2800	2150	*2550	1700	2250	1350	*1150	1150	14 550
1500 mm	kg	*3450	2500	*3000	2000	2650	1600	2200	1300	*1200	1100	14 600
0 mm	kg	*3750	2350	3100	1850	2550	1500	2100	1250	*1300	1100	14 490
-1500 mm	kg	3700	2200	3000	1750	2450	1450	2100	1200	*1400	1100	14 230
-3000 mm	kg	3600	2100	2900	1700	2400	1400	2050	1150	*1500	1150	13 790
-4500 mm	kg	3550	2050	2850	1650	2400	1400			*1700	1200	13 170
-6000 mm	kg	3550	2050	2900	1650	2450	1400			*2000	1350	12 340
-7500 mm	kg	3600	2100	2950	1700					*2550	1600	11 240
-9000 mm	kg	*3150	2250							*2700	2000	9800



ISO 10567



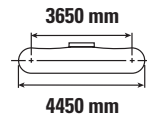
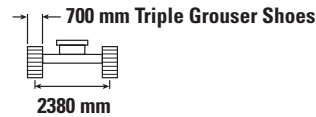
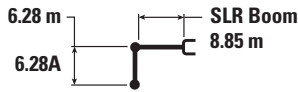
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

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

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

320 Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
														mm
12 000 mm	kg											*1300	*1300	10 350
10 500 mm	kg											*1200	*1200	11 660
9000 mm	kg											*1150	*1150	12 660
7500 mm	kg											*1100	*1100	13 410
6000 mm	kg											*1100	*1100	13 970
4500 mm	kg											*1100	*1100	14 340
3000 mm	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	*3600	*1150	*1150	14 550
1500 mm	kg					*6750	6450	*5250	4450	*4100	3300	*1200	1100	14 600
0 mm	kg			*2050	*2050	*4700	*4700	*5900	4000	*4550	3000	*1300	1100	14 490
-1500 mm	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3750	4800	2800	*1400	1100	14 230
-3000 mm	kg	*2850	*2850	*3550	*3550	*5200	*5200	6400	3600	4650	2700	*1500	1150	13 790
-4500 mm	kg	*3700	*3700	*4450	*4450	*6100	5400	6400	3550	4600	2650	*1700	1250	13 170
-6000 mm	kg	*4550	*4550	*5450	*5450	*7250	5500	*6150	3600	4600	2650	*2000	1400	12 340
-7500 mm	kg	*5500	*5500	*6600	*6600	*7300	5700	*5650	3700	*4550	2700	*2550	1600	11 240
-9000 mm	kg			*8000	*8000	*6150	6000	*4850	3900	*3950	2850	*2700	2050	9800

Reach (mm)	Unit	9000 mm		10 500 mm		12 000 mm		13 500 mm		mm		
												mm
12 000 mm	kg									*1300	*1300	10 350
10 500 mm	kg			*2200	*2200					*1200	*1200	11 660
9000 mm	kg			*2200	*2200	*2000	1950			*1150	*1150	12 660
7500 mm	kg			*2250	*2250	*2250	1950			*1100	*1100	13 410
6000 mm	kg			*2400	*2400	*2300	1900	*1850	1450	*1100	*1100	13 970
4500 mm	kg	*2800	*2800	*2600	2300	*2400	1800	*2300	1400	*1100	*1100	14 340
3000 mm	kg	*3100	2750	*2800	2150	*2550	1700	2250	1350	*1150	*1150	14 550
1500 mm	kg	*3450	2550	*3000	2000	2650	1600	2200	1300	*1200	1100	14 600
0 mm	kg	*3750	2350	3150	1900	2550	1550	2150	1250	*1300	1100	14 490
-1500 mm	kg	3750	2200	3000	1800	2500	1450	2100	1200	*1400	1100	14 230
-3000 mm	kg	3650	2100	2950	1700	2450	1400	2100	1200	*1500	1150	13 790
-4500 mm	kg	3600	2050	2900	1650	2450	1400			*1700	1250	13 170
-6000 mm	kg	3600	2050	2900	1700	2450	1400			*2000	1400	12 340
-7500 mm	kg	3650	2100	3000	1750					*2550	1600	11 240
-9000 mm	kg	*3150	2250							*2700	2050	9800



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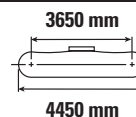
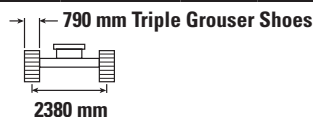
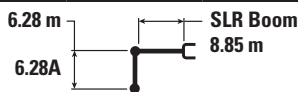
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

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

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

320 Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
														mm
12 000 mm	kg											*1300	*1300	10 350
10 500 mm	kg											*1200	*1200	11 660
9000 mm	kg											*1150	*1150	12 660
7500 mm	kg											*1100	*1100	13 410
6000 mm	kg											*1100	*1100	13 970
4500 mm	kg											*1100	*1100	14 340
3000 mm	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	*3600	*1150	*1150	14 550
1500 mm	kg					*6750	6550	*5250	4500	*4100	3350	*1200	1150	14 600
0 mm	kg			*2050	*2050	*4700	*4700	*5900	4100	*4550	3050	*1300	1100	14 490
-1500 mm	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3800	*4850	2850	*1400	1150	14 230
-3000 mm	kg	*2850	*2850	*3550	*3550	*5200	*5200	*6450	3650	4750	2750	*1500	1200	13 790
-4500 mm	kg	*3700	*3700	*4450	*4450	*6100	5500	*6400	3650	4700	2700	*1700	1250	13 170
-6000 mm	kg	*4550	*4550	*5450	*5450	*7250	5600	*6150	3650	4700	2700	*2000	1400	12 340
-7500 mm	kg	*5500	*5500	*6600	*6600	*7300	5800	*5650	3800	*4550	2750	*2550	1650	11 240
-9000 mm	kg			*8000	*8000	*6150	6100	*4850	3950	*3950	2900	*2700	2100	9800

Reach (mm)	Unit	9000 mm		10 500 mm		12 000 mm		13 500 mm		mm		
												mm
12 000 mm	kg									*1300	*1300	10 350
10 500 mm	kg			*2200	*2200					*1200	*1200	11 660
9000 mm	kg			*2200	*2200	*2000	2000			*1150	*1150	12 660
7500 mm	kg			*2250	*2250	*2250	1950			*1100	*1100	13 410
6000 mm	kg			*2400	*2400	*2300	1900	*1850	1500	*1100	*1100	13 970
4500 mm	kg	*2800	*2800	*2600	2350	*2400	1850	*2300	1450	*1100	*1100	14 340
3000 mm	kg	*3100	2800	*2800	2200	*2550	1750	2300	1400	*1150	*1150	14 550
1500 mm	kg	*3450	2600	*3000	2050	*2700	1650	2250	1350	*1200	1150	14 600
0 mm	kg	*3750	2400	3200	1900	2600	1550	2200	1250	*1300	1100	14 490
-1500 mm	kg	3800	2250	3050	1800	2550	1500	2150	1250	*1400	1150	14 230
-3000 mm	kg	3700	2150	3000	1750	2500	1450	2100	1200	*1500	1200	13 790
-4500 mm	kg	3650	2100	2950	1700	2450	1400			*1700	1250	13 170
-6000 mm	kg	3650	2100	2950	1700	2500	1450			*2000	1400	12 340
-7500 mm	kg	3700	2150	3050	1800					*2550	1650	11 240
-9000 mm	kg	*3150	2300							*2700	2100	9800



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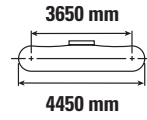
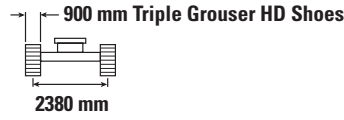
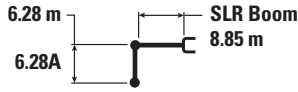
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

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

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

320 Hydraulic Excavator Specifications

Super Long Reach Boom Lift Capacities – Counterweight: 4.7 mt – without Bucket, Heavy Lift: Off



Reach (mm)	Unit	1500 mm		3000 mm		4500 mm		6000 mm		7500 mm		mm		
														mm
12 000 mm	kg											*1300	*1300	10 350
10 500 mm	kg											*1200	*1200	11 660
9000 mm	kg											*1150	*1150	12 660
7500 mm	kg											*1100	*1100	13 410
6000 mm	kg											*1100	*1100	13 970
4500 mm	kg											*1100	*1100	14 340
3000 mm	kg			*4700	*4700	*6050	*6050	*4450	*4450	*3600	*3600	*1150	*1150	14 550
1500 mm	kg					*6750	*6750	*5250	4700	*4100	3500	*1200	1200	14 600
0 mm	kg			*2050	*2050	*4700	*4700	*5900	4250	*4550	3200	*1300	1200	14 490
-1500 mm	kg	*2100	*2100	*2750	*2750	*4650	*4650	*6250	3950	*4850	3000	*1400	1200	14 230
-3000 mm	kg	*2850	*2850	*3550	*3550	*5200	*5200	*6450	3850	4950	2850	*1500	1250	13 790
-4500 mm	kg	*3700	*3700	*4450	*4450	*6100	5750	*6400	3800	4900	2800	*1700	1350	13 170
-6000 mm	kg	*4550	*4550	*5450	*5450	*7250	5850	*6150	3850	4900	2800	*2000	1500	12 340
-7500 mm	kg	*5500	*5500	*6600	*6600	*7300	6050	*5650	3950	*4550	2900	*2550	1750	11 240
-9000 mm	kg			*8000	*8000	*6150	*6150	*4850	4150	*3950	3050	*2700	2150	9800

Reach (mm)	Unit	9000 mm		10 500 mm		12 000 mm		13 500 mm		mm		
												mm
12 000 mm	kg									*1300	*1300	10 350
10 500 mm	kg			*2200	*2200					*1200	*1200	11 660
9000 mm	kg			*2200	*2200	*2000	*2000			*1150	*1150	12 660
7500 mm	kg			*2250	*2250	*2250	2050			*1100	*1100	13 410
6000 mm	kg			*2400	*2400	*2300	2000	*1850	1550	*1100	*1100	13 970
4500 mm	kg	*2800	*2800	*2600	2400	*2400	1900	*2300	1500	*1100	*1100	14 340
3000 mm	kg	*3100	2900	*2800	2250	*2550	1800	*2400	1450	*1150	*1150	14 550
1500 mm	kg	*3450	2700	*3000	2150	*2700	1700	2350	1400	*1200	1200	14 600
0 mm	kg	*3750	2500	*3200	2000	2700	1650	2300	1350	*1300	1200	14 490
-1500 mm	kg	3950	2350	3200	1900	2650	1550	2250	1300	*1400	1200	14 230
-3000 mm	kg	3850	2250	3100	1800	2600	1500	2200	1300	*1500	1250	13 790
-4500 mm	kg	3800	2200	3100	1800	2600	1500			*1700	1350	13 170
-6000 mm	kg	3800	2200	3100	1800	2600	1500			*2000	1500	12 340
-7500 mm	kg	*3750	2250	*3050	1850					*2550	1750	11 240
-9000 mm	kg	*3150	2400							*2700	2150	9800



ISO 10567



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

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

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

320 Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width mm	Capacity m ³	Weight kg	Fill %	4.2 mt Counterweight				4.7 mt Counterweight
						Reach Boom		VA Boom		SLR Boom
						R2.5	R2.9	R2.5	R2.9	6.28A
Pin-On (No Quick Coupler)										
General Duty (GD) – EU	B	600	0.46	551	100	●	●	●	●	
	B	750	0.64	622	100	●	●	●	●	
	B	900	0.81	668	100	●	●	●	●	
	B	1050	1.00	734	100	●	●	●	⊙	
	B	1200	1.19	803	100	●	⊙	⊖	⊖	
	B	1300	1.30	835	100	⊙	⊖	⊖	○	
	B	1400	1.43	870	100	X	X	X	X	
General Duty (GD) – UK/ANZ (NO Adjuster)	B	600	0.46	546	100	●	●	●	●	
	B	750	0.64	617	100	●	●	●	●	
	B	1000	0.93	710	100	●	●	●	●	
	B	1200	1.19	799	100	●	⊙	⊖	⊖	
	B	1400	1.43	866	100	X	X	X	X	
	B	1500	1.58	906	100	X	X	X	X	
Heavy Duty (HD)	B	1050	1.00	880	100	●	●	⊙	⊖	
	B	1200	1.19	907	100	●	⊙	⊖	○	
	B	1300	1.30	962	100	⊙	⊖	○	○	
Severe Duty (SD)	B	1050	1.00	964	90	●	●	⊙	⊙	
Severe Duty (SDV)	B	1200	1.20	1001	90	●	⊙	⊖	⊖	
Mud/Cleanup (M/CU) – N America	B	1700	1.60	979	100	⊖	○	◇	◇	
Ditch Cleaning (DC)	B	2000	1.22	869	100	⊙	⊙	⊖	○	
Ditch Cleaning – Tilt (DCT)	B	2000	1.23	1096	100	⊙	⊖	○	○	
General Duty (GD)	312	900	0.53	403	100					◇
Ditch Cleaning (DC) Long Reach	312	1200	0.57	386	100					◇
Maximum load with pin-on (payload + bucket)					kg	3235	3010	2705	2520	800

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
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³
- ◇ 900 kg/m³
- 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

Bucket Specifications and Compatibility

	Linkage	Width mm	Capacity m ³	Weight kg	Fill %	4.2 mt Counterweight				4.7 mt Counterweight
						Reach Boom		VA Boom		SLR Boom
						R2.5	R2.9	R2.5	R2.9	6.28A
With Cat Pin Grabber Coupler										
General Duty (GD) – EU	B	600	0.46	551	100	●	●	●	●	
	B	750	0.64	622	100	●	●	●	●	
	B	900	0.81	668	100	●	●	●	⊙	
	B	1050	1.00	734	100	●	⊙	⊖	○	
	B	1200	1.19	803	100	⊙	⊖	○	◇	
	B	1300	1.30	835	100	⊖	○	○	◇	
General Duty (GD) – UK/ANZ	B	600	0.46	546	100	●	●	●	●	
	B	750	0.64	617	100	●	●	●	●	
	B	1000	0.93	710	100	●	●	⊙	⊖	
	B	1200	1.19	799	100	⊙	⊖	○	◇	
	B	1400	1.43	866	100	○	○	◇	◇	
	B	1500	1.58	906	100	○	◇	◇	X	
Heavy Duty (HD)	B	1050	1.00	880	100	⊙	⊙	⊖	○	
	B	1200	1.19	907	100	⊖	⊖	○	◇	
	B	1300	1.30	962	100	⊖	○	◇	◇	
Severe Duty (SD)	B	1050	1.00	964	90	●	⊙	⊖	○	
Severe Duty (SDV)	B	1200	1.20	1001	90	⊙	⊖	○	◇	
Ditch Cleaning (DC)	B	2000	1.22	869	100	⊖	⊖	○	◇	
Ditch Cleaning – Tilt (DCT)	B	2000	1.23	1096	100	⊖	○	◇	X	
Maximum load with coupler (payload + bucket)					kg	2863	2636	2328	2139	382

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
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³
- ◇ 900 kg/m³
- 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

Bucket Specifications and Compatibility

	Linkage	Width mm	Capacity m ³	Weight kg	Fill %	4.2 mt Counterweight				4.7 mt Counterweight
						Reach Boom		VA Boom		SLR Boom
						R2.5	R2.9	R2.5	R2.9	6.28A
With CW-40 Quick Coupler										
General Duty (GD)	B	900	0.81	658	100	●	●	●	●	
	B	1050	1.00	704	100	●	●	⊙	⊖	
	B	1200	1.19	764	100	⊙	⊙	⊖	○	
	B	1300	1.30	804	100	⊖	⊖	○	○	
Heavy Duty (HD)	B	600	0.46	611	100	●	●	●	●	
	B	1200	1.19	877	100	⊙	⊖	○	○	
	B	1300	1.30	931	100	X	X	X	X	
Severe Duty (SD)	B	1200	1.20	985	90	⊙	⊖	○	○	
Ditch Cleaning (DC)	B	2100	1.29	793	100	⊙	⊖	○	○	
	B	2100	1.46	812	100	⊖	○	○	◇	
	B	1800	1.50	777	100	⊖	○	○	◇	
	B	1800	1.50	826	100	⊖	○	◇	◇	
	B	2100	1.76	867	100	○	◇	◇	X	
Ditch Cleaning – Tilt (DCT)	B	2000	1.23	1161	100	⊖	○	◇	◇	
Maximum load with coupler (payload + bucket)					kg	3034	2808	2499	2311	554
With CW-40S Quick Coupler										
General Duty (GD)	B	600	0.46	503	100	●	●	●	●	
	B	750	0.64	588	100	●	●	●	●	
	B	900	0.81	655	100	●	●	●	●	
	B	1200	1.19	770	100	⊙	⊖	⊖	○	
	B	1300	1.30	801	100	⊖	⊖	○	○	
	B	1400	1.43	837	100	⊖	○	○	◇	
Heavy Duty (HD)	B	600	0.46	584	100	●	●	●	●	
	B	1200	1.19	874	100	⊙	⊖	○	○	
	B	1300	1.30	929	100	X	X	X	X	
Ditch Cleaning (DC)	B	2000	1.22	715	100	⊙	⊖	⊖	○	
	B	2200	1.36	769	100	⊖	⊖	○	◇	
Ditch Cleaning – Tilt (DCT)	B	2000	1.23	1142	100	⊖	○	◇	◇	
Maximum load with coupler (payload + bucket)					kg	3004	2779	2474	2289	569

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
- ⊙ 1800 kg/m³
- ⊖ 1500 kg/m³
- 1200 kg/m³
- ◇ 900 kg/m³
- X Not Recommended

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320 Hydraulic Excavator Specifications

Attachments Offering Guide

PIN-ON ATTACHMENTS

Counterweight		4.2 mt			
		Reach Boom		VA Boom	
Boom Type		2.5 m	2.9 m	2.5 m	2.9 m
Stick Length		2.5 m	2.9 m	2.5 m	2.9 m
Hydraulic Hammers	H115Es	✓	✓	✓	✓
	H120Es	✓	✓	✓	✓
	H130Es	✓	✓†	✓	✓†
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓
	MP318 D Jaw	✓	✓	✓	✓
	MP318 P Jaw	✓	✓	✓	✓
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Clamshell Grapples	CTV15	✓	✓	✓	✓
Orange Peel Grapples		✓	✓	✓	✓
Rippers		✓	✓	✓	✓
Cat Pin Grabber Couplers		✓	✓	✓	✓
Dedicated Quick Couplers		✓	✓	✓	✓

Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

†Allowed usage on machine less than 50%

Demolition and Sorting Grapple: WH – Waste Handling shells

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CAT PIN GRABBER COUPLER ATTACHMENTS

Counterweight		4.2 mt			
Boom Type		Reach Boom		VA Boom	
Stick Length		2.5 m	2.9 m	2.5 m	2.9 m
Hydraulic Hammers	H115Es	✓†	✓†	✓†	✓†
	H120Es	✓†	✓†	✓†	✓†
	H130Es	✓†	✓†	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓	✓*	
	MP318 D Jaw	✓	✓	✓*	
	MP318 P Jaw	✓	✓*		
	MP318 S Jaw	✓	✓	✓*	
	MP318 U Jaw	✓	✓	✓*	
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓*	
Demolition and Sorting Grapples	G315B	✓	✓	✓*	
	G315B WH	✓	✓*	✓	✓*
Mobile Scrap and Demolition Shears	S3025	✓	✓*		
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓

Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

*Working range front only

†Allowed usage on machine less than 50%

Demolition and Sorting Grapple: WH – Waste Handling shells

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CW-40 DEDICATED COUPLER ATTACHMENTS

Counterweight		4.2 mt			
Boom Type		Reach Boom		VA Boom	
Stick Length		2.5 m	2.9 m	2.5 m	2.9 m
Hydraulic Hammers	H115Es	✓†	✓†	✓†	✓†
	H120Es	✓†	✓†	✓†	✓†
	H130Es	✓†	✓†	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓*
	MP318 D Jaw	✓	✓	✓	✓*
	MP318 P Jaw	✓	✓	✓*	
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓*
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓*
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓*	
Mobile Scrap and Demolition Shears	S3025	✓	✓		
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓

Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

*Working range front only

†Allowed usage on machine less than 50%

Demolition and Sorting Grapple: WH – Waste Handling shells

(continued on next page)

320 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

CW-40S DEDICATED COUPLER ATTACHMENTS

Counterweight		4.2 mt			
Boom Type		Reach Boom		VA Boom	
Stick Length		2.5 m	2.9 m	2.5 m	2.9 m
Hydraulic Hammers	H115Es	✓†	✓†	✓†	✓†
	H120Es	✓†	✓†	✓†	✓†
	H130Es	✓†	✓†	✓†	✓†
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓*
	MP318 D Jaw	✓	✓	✓	✓*
	MP318 P Jaw	✓	✓	✓*	
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓*
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓*
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓*	
Mobile Scrap and Demolition Shears	S3025	✓	✓		
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓

BOOM-MOUNT ATTACHMENTS

Counterweight		4.2 mt			
Boom Type		Reach Boom		VA Boom	
Mobile Scrap and Demolition Shears	S2050		✓		
	S3035		✓		✓

Offerings not available in all areas. Matches are dependent on excavator configurations. Consult your Cat dealer to determine what is offered in your area and for proper work tool match.

*Working range front only

†Allowed usage on machine less than 50%

Demolition and Sorting Grapple: WH – Waste Handling shells

320 Standard and Optional Equipment

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ENGINE			UNDERCARRIAGE AND STRUCTURES		
Cat C4.4 Twin Turbo diesel engine	✓		Tie-down points on base frame	✓	
Three selectable power modes	✓		Track guiding guard, segmented two pieces	✓	
One-touch low idle with automatic engine speed control	✓		Track guiding guard, full length		✓
Automatic engine idle shutdown	✓		Standard bottom guards	✓	
Work up to 3000 m above sea level without engine power de-rating	✓		HD bottom guards		✓
52° C high-ambient cooling capacity	✓		Standard swivel guard	✓	
Cold starting capability for -32° C	✓		Standard travel motor guards	✓	
Double element air filter with integrated precleaner	✓		HD travel motor guards		✓
Electric fuel priming pump	✓		Grease lubricated track links	✓	
On-demand electric cooling fans with auto-reverse function	✓		4.2 mt counterweight	✓	
Biodiesel capability up to B20	✓		4.7 mt counterweight for Super Long Reach		✓
HYDRAULIC SYSTEM			Semi-HD swing frame	✓	
Boom and stick regeneration circuits	✓		Standard swing bearing	✓	
Boom/stick lowering check valves		✓	Standard base frame with HD track rollers and standard carrier rollers	✓	
Electronic main control valve	✓		Final drive with bio oil travel motor	✓	
Auto hydraulic oil warm up	✓		BOOM, STICKS AND LINKAGES		
Automatic two-speed travel	✓		600 mm triple grouser track shoes	✓	
Boom and stick drift reduction valve	✓		700 mm triple grouser track shoes		✓
Element type main hydraulic filter	✓		790 mm triple grouser track shoes		✓
Slider joysticks	✓		900 mm HD triple grouser track shoes		✓
Tandem type electronic main pump	✓		5.7 m Reach boom	✓	
Advanced Tool Control (two pump, one/two way high-pressure flow)	✓		VA boom (2.8 m stub + 3.3 m fore)		✓
Medium pressure auxiliary circuit		✓	2.9 m Reach stick	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated	✓		2.5 m Reach stick		✓
SmartBoom™		✓	Super Long Reach 8.85 m boom		✓
			Super Long Reach 6.28 m stick		✓
			Bucket linkage, B1-family with lifting eye	✓	
			Bucket linkage, A-family 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		Standard	Optional
ELECTRICAL SYSTEM			SERVICE AND MAINTENANCE		
1,000 CCA maintenance-free batteries (×2)	✓		Sampling ports for Scheduled Oil Sampling (S·O·S SM)	✓	
Centralized electrical disconnect switch	✓		Preventative Maintenance ready (QuickEvac TM)		✓
Programmable time-delay LED working lights	✓		Grouped location for engine oil and fuel filters	✓	
LED chassis light, LH and RH boom lights for Reach and SLR, cab lights – 850 lumens	✓		Ground level second dipstick for engine oil	✓	
LED chassis light, LH and RH boom lights for VAB, cab lights – 850 lumens		✓	Radiator screen		✓
CAT CONNECT TECHNOLOGY			SAFETY AND SECURITY		
Cat Product Link TM	✓		Rear and right-side-view cameras	✓	
Cat GRADE with 2D (not available on SLR)	✓		360° visibility		✓
Cat GRADE with Advanced 2D (not available on SLR)		✓	Lift Assist	✓	
Cat GRADE with 3D (not available on SLR)		✓	Cat asset tracker	✓	
Laser Catcher		✓	Neutral lever (lock out) for all controls	✓	
Cat Assist:	✓		Anti-skid plate and countersunk bolts on service platform	✓	
– Boom Assist			Ground-level accessible secondary engine shutoff switch in cab	✓	
– Bucket Assist			Bluetooth [®] receiver	✓	
– Swing Assist			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
– Grade Assist					
Cat Payload:	✓				
– Payload Information					
– Static Weigh					
– Auto Calibration					
2D E-fence	✓				
Remote Flash capability	✓				
Remote Troubleshoot capability	✓				

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

- Radial lower wiper for 70/30 with washer
- LH/RH electrical pedal for tool control
- Rain protector plus cab light cover

HYDRAULIC

- Advanced Tool Control (two pumps, one/two way high-pressure flow)
- Medium Pressure Circuit
- Common Quick Coupler Circuit for Cat Pin Grabber

SAFETY AND SECURITY

- Bluetooth key fob

ELECTRICAL

- Jump start wiring
- LED premium lighting package

GUARDS

- Side rubber bumper
- FOGS (not compatible with cab light cover, rain protector)
- Mesh guard full front (not compatible with cab light cover, rain protector)
- Mesh guard lower half front

Cab Options

	Deluxe	Premium
ROPS, standard sound suppression	●	
ROPS, advanced sound suppression		●
Heated seat with air-adjustable suspension	●	
Heated and cooled seat with automatic adjustable suspension		●
Height-adjustable console, infinite with no tool	●	●
Tilt-up left-side console	●	●
High-resolution 254 mm LCD touchscreen monitor	●	●
High-resolution 254 mm LCD touchscreen monitor + additional monitor (only for use with Cat GRADE with Advanced 2D or Cat GRADE with 3D)	○	○
Automatic bi-level air conditioner	●	●
Jog dial and shortcut keys for monitor control	●	●
Keyless push-to-start engine control	●	●
51 mm seat belt	●	●
Bluetooth integrated radio with USB ports	●	●
12V DC outlets (×2)	●	●
Document storage	●	●
Cup and bottle holders	●	●
Openable two-piece front window	●	●
Fixed one-piece front window		○
Upper radial wiper with washer	●	
Parallel wiper with washer		●
Openable polycarbonate skylight hatch	●	●
Fixed glass skylight hatch		○
LED dome and lower interior lights	●	●
Roller rear sunscreen	○	●
Rear window emergency exit	●	●
Washable floor mat	●	●
Beacon ready	●	●

● Standard

○ Optional