



# 323

## 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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# 323 Hydraulic Excavator Specifications

## Engine

Engine Model	Cat® C7.1 ACERT™	
Net Power (ISO 9249)	117 kW	157 hp
Net Power (ISO 14396)	118 kW	158 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in <sup>3</sup>

- The 323 meets U.S. EPA Tier 3 and EU Stage IIIA equivalent emission standards.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- 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.

## Swing Mechanism

Swing Speed	11.3 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf-ft

## Weights

Operating Weight	22 300 kg	49,200 lb
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• Long undercarriage, 4.2 mt (4.6 t) counterweight, 5.7 m (18'8") HD Reach boom, HD R2.9 (9'6") stick, 1.18 m<sup>3</sup> (1.54 yd<sup>3</sup>) HD bucket and 600 mm (24") HD triple grouser shoes.

## Track

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

## Drive

Maximum Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	203 kN	45,614 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 – Lift Mode	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 psi
Boom Cylinder – Bore	120 mm	5 in
Boom Cylinder – Stroke	1260 mm	50 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

## Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	12 L	3.2 gal
Final Drive	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/ROPS	ISO 12117-2:2008
Cab	ISO 10262-1:1998 Level I
FOGS (optional)	ISO 10262-2:1998 Level II

## Sound Performance

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

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

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## Operating Weights and Ground Pressures

	600 mm (24") Triple Grouser Shoes				790 mm (31") Triple Grouser Shoes			
	Weight		Ground Pressure		Weight		Ground Pressure	
	kg	lb	kPa	psi	kg	lb	kPa	psi
<b>4.2 mt (4.6 t) Counterweight + Long Undercarriage Base Machine</b>								
Reach Boom + R2.9 (9'6") Stick + 1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> ) HD Bucket	22 300	49,200	46.4	6.7	23 000	50,700	36.3	5.3
<b>5.4 mt (6 t) Counterweight + Long Undercarriage Base Machine</b>								
HD Reach Boom + HD R2.9 (9'6") Stick + 1.30 m <sup>3</sup> (1.71 yd <sup>3</sup> ) HD Bucket	23 900	52,700	49.7	7.2	24 600	54,200	38.9	5.6

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

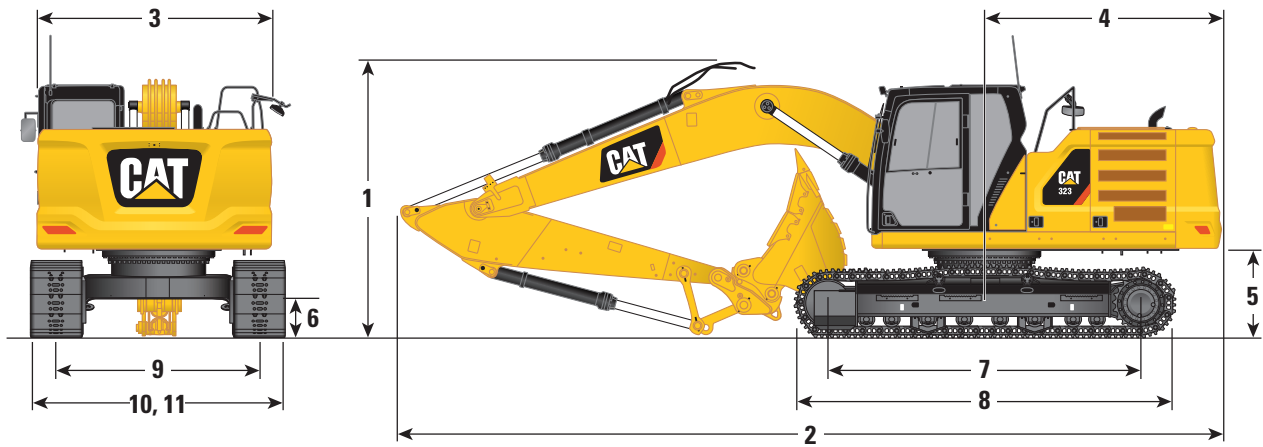
## Major Component Weights

	kg	lb
Base Machine (with 4.2 mt [4.6 t] counterweight, semi-HD swing frame, HD base frame with SD track rollers and standard carrier rollers for long undercarriage, with boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	15 000	33,100
Base Machine (with 5.4 mt [6 t] counterweight, HD swing frame, HD base frame with SD track rollers and standard carrier rollers for long undercarriage, with boom cylinder – does not include 90% fuel and 75 kg [165 lb] operator)	16 400	36,100
Track Shoes:		
600 mm (24") Width, 12.5 mm (0.49") Thick Triple Grouser HD Track Shoes	3080	6,800
790 mm (31") Width, 12.5 mm (0.49") Thick Triple Grouser HD Track Shoes with step extension for ISO 2867:2011	3800	8,400
Boom Cylinders	340	750
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	680
Counterweights:		
4.2 mt (4.6 t) Counterweight	4200	9,300
5.4 mt (6 t) Counterweight	5400	11,900
Swing Frame:		
Semi-HD Swing Frame, for C7.1 ACERT	1910	4,210
HD Swing Frame, for C7.1 ACERT	2090	4,600
Long Undercarriage:		
HD Base Frame with SD Track Rollers and Standard Carrier Rollers for Long Undercarriage	4470	9,900
Booms (including lines, pins, stick cylinder):		
HD Reach Boom (5.7 m/18'8")	2010	4,400
Sticks (including lines, pins, bucket cylinder, bucket linkage):		
HD Reach Stick (R2.9B1/9'6")	1160	2,600
HD Reach Stick (R2.5B1/8'2")	1150	2,500
Bucket (without linkage):		
1.30 m <sup>3</sup> (1.71 yd <sup>3</sup> ) HD	960	2,120

# 323 Hydraulic Excavator Specifications

## Dimensions

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



### Boom Options

**HD Reach Boom**  
5.7 m (18'8")

### Stick Options

**HD Reach Sticks**

**R2.9B1 (9'6")**

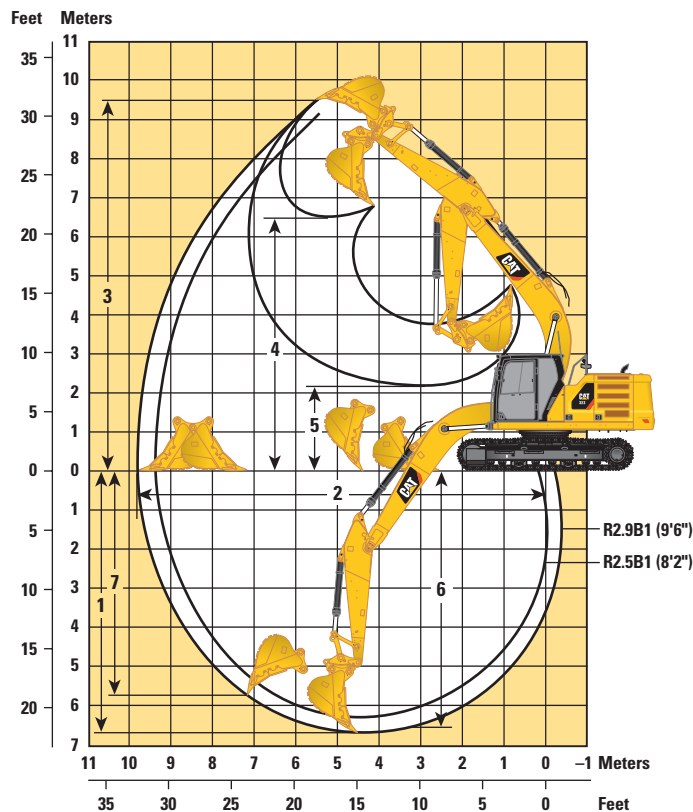
**R2.5B1 (8'2")**

		R2.9B1 (9'6")	R2.5B1 (8'2")
<b>1</b> Machine Height:			
Top of Cab Height	2960 mm	9'9"	2960 mm 9'9"
Top of FOGS Height	3100 mm	10'2"	3100 mm 10'2"
Handrails Height	2950 mm	9'8"	2950 mm 9'8"
With Boom/Stick/Bucket Installed	3160 mm	10'4"	3160 mm 10'4"
With Boom/Stick Installed	2910 mm	9'7"	2910 mm 9'7"
With Boom Installed	2480 mm	8'2"	2480 mm 8'2"
<b>2</b> Machine Length:			
With Boom/Stick/Bucket Installed	9530 mm	31'3"	9530 mm 31'3"
With Boom/Stick Installed	9500 mm	31'2"	9500 mm 31'2"
With Boom Installed	8450 mm	27'9"	8450 mm 27'9"
<b>3</b> Upperframe Width without Walkways	2780 mm	9'1"	2780 mm 9'1"
<b>4</b> Tail Swing Radius	2830 mm	9'3"	2830 mm 9'3"
<b>5</b> Counterweight Clearance	1050 mm	3'5"	1050 mm 3'5"
<b>6</b> Ground Clearance	470 mm	1'7"	470 mm 1'7"
<b>7</b> Track Length – Length to Center of Rollers	3650 mm	12'0"	3650 mm 12'0"
<b>8</b> Overall Track Length	4450 mm	14'7"	4450 mm 14'7"
<b>9</b> Track Gauge – Extended	2380 mm	7'9"	2380 mm 7'9"
<b>10</b> Track Width:			
600 mm (24") Shoes	2980 mm	9'9"	2980 mm 9'9"
790 mm (31") Shoes	3170 mm	10'5"	3170 mm 10'5"
<b>11</b> Undercarriage Width (with steps/without steps):			
600 mm (24") Shoes	2980 mm	9'9"	2980 mm 9'9"
790 mm (31") Shoes	3170 mm	10'5"	3170 mm 10'5"
Bucket Type		HD	HD
Bucket Capacity	1.30 m <sup>3</sup>	1.71 yd <sup>3</sup>	1.30 m <sup>3</sup> 1.71 yd <sup>3</sup>
Bucket Tip Radius	1580 mm	5'2"	1580 mm 5'2"

# 323 Hydraulic Excavator Specifications

## Working Ranges

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



### Boom Options

**HD Reach Boom**  
5.7 m (18'8")

### Stick Options

**HD Reach Sticks**

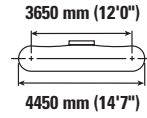
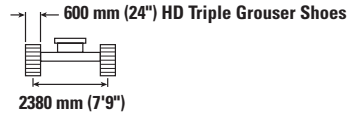
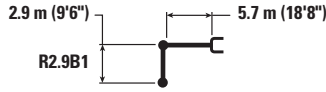
**R2.9B1 (9'6")**

**R2.5B1 (8'2")**

	R2.9B1 (9'6")		R2.5B1 (8'2")	
<b>1</b> Maximum Digging Depth	6730 mm	22'1"	6310 mm	
<b>2</b> Maximum Reach at Ground Line	9870 mm	32'4"	9470 mm	
<b>3</b> Maximum Cutting Height	9450 mm	31'0"	9250 mm	
<b>4</b> Maximum Loading Height	6480 mm	21'3"	6280 mm	
<b>5</b> Minimum Loading Height	2160 mm	7'1"	2580 mm	
<b>6</b> Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6560 mm	21'6"	6120 mm	
<b>7</b> Maximum Vertical Wall Digging Depth	5740 mm	18'10"	5340 mm	
Bucket Digging Force (SAE)	124 kN	27,901 lbf	124 kN	
Bucket Digging Force (ISO)	140 kN	31,505 lbf	140 kN	
Stick Digging Force (SAE)	104 kN	23,270 lbf	114 kN	
Stick Digging Force (ISO)	107 kN	23,962 lbf	118 kN	
Bucket Type	HD		HD	
Bucket Capacity	1.30 m <sup>3</sup>	1.71 yd <sup>3</sup>	1.30 m <sup>3</sup>	1.71 yd <sup>3</sup>
Bucket Tip Radius	1580 mm	5'2"	1580 mm	5'2"

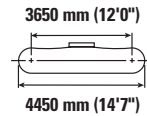
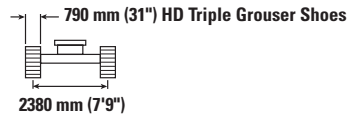
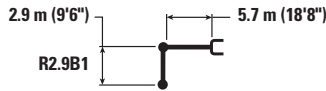
# 323 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,650	3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5250 11,300	*5500 *12,000	3700 7,900	*3850 *8,450	3300 7,300	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	7650 16,500	*6700 *14,500	5000 10,750	5600 12,000	3550 7,650	*3950 *8,650	3000 6,600	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	7100 15,250	*7600 16,350	4750 10,200	5450 11,700	3450 7,400	*4150 *9,150	2900 6,350	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	6750 14,550	7400 15,900	4550 9,750	5350 11,450	3350 7,200	*4600 *10,150	2950 6,450	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 400 *24,700	6650 14,350	7300 15,700	4450 9,600	5300 11,400	3300 7,150	5050 11,100	3150 6,950	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	13 050 28,000	*10 700 *23,050	6750 14,500	7350 15,800	4500 9,650			5950 13,250	3750 8,250	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	6950 15,000					*6550 *14,350	5150 11,600	5600 220

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – without Bucket – Heavy Lift: On



Reach	Unit	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
		ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	ISO	mm	in	
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	5400 11,650	*5500 *12,000	3800 8,100	*3850 *8,450	3400 7,550	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	7850 16,950	*6700 *14,500	5150 11,050	5750 12,350	3700 7,900	*3950 *8,650	3100 6,800	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	7300 15,700	*7600 *16,450	4900 10,500	5600 12,050	3550 7,650	*4150 *9,150	3000 6,550	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	7000 15,000	7650 16,400	4700 10,100	5500 11,850	3450 7,400	*4600 *10,150	3050 6,650	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 400 *24,700	6900 14,800	7550 16,200	4600 9,900	5450 11,750	3400 7,350	5200 11,500	3250 7,200	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	13 450 28,850	*10 700 *23,050	6950 14,950	7600 16,300	4650 10,000			6150 13,650	3850 8,500	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	7200 15,450					*6550 *14,350	5300 11,950	5600 220



ISO 10567



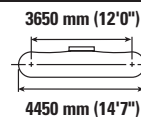
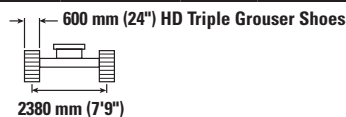
\* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

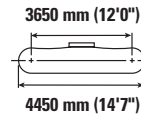
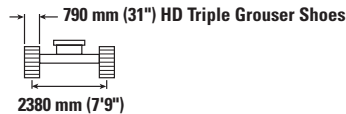
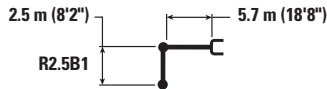
# 323 Hydraulic Excavator Specifications












## Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – 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					*5750 *12,600	5400 11,600			*4700 *10,350	4350 9,700	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	5250 11,250	*5150	3650	*4600 *10,100	3600 7,950	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7550 16,300	*7000 *15,200	5000 10,750	5600 12,000	3550 7,650	*4700 *10,350	3250 7,150	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	7050 15,200	7650 16,400	4750 10,200	5450 11,750	3450 7,450	4900 10,850	3100 6,850	8050 320
0 mm 0 in	kg lb			*11 450 *24,750	6800 14,650	7450 16,000	4600 9,850	5400 11,600	3400 7,300	5050 11,100	3200 7,000	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	6750 14,550	7400 15,900	4500 9,750			5550 12,200	3500 7,650	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	13 350 28,600	*10 250 *22,200	6900 14,800	7500 16,100	4600 9,900			6750 *14,900	4200 9,300	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	7200 15,500					*6600 *14,500	6250 14,150	4980 200

## Reach Boom Lift Capacities – Counterweight: 4.2 mt (4.6 t) – 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					*5750 *12,600	5550 11,900			*4700 *10,350	4450 9,950	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	5400 11,600	*5150	3750	*4600 *10,100	3700 8,200	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	7800 16,800	*7000 *15,200	5150 11,050	5750 12,400	3700 7,900	*4700 *10,350	3350 7,400	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	7250 15,650	*7850 *16,900	4900 10,500	5650 12,150	3550 7,700	*5000 *11,000	3250 7,100	8050 320
0 mm 0 in	kg lb			*11 450 *24,750	7000 15,100	7700 16,500	4700 10,150	5550 11,950	3500 7,500	5200 11,450	3300 7,200	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	7000 15,000	7650 16,400	4650 10,050			5700 12,600	3600 7,900	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	13 750 29,450	*10 250 *22,200	7100 15,250	*7600 *16,200	4750 10,250			*6800 *14,900	4350 9,600	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	7400 15,950					*6600 *14,500	6450 *14,500	4980 200



ISO 10567



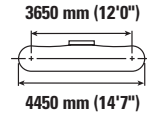
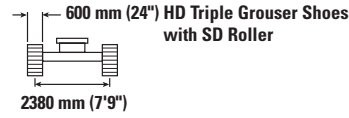
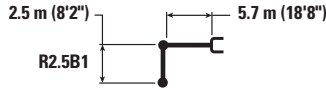
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Lift capacity stays with ±5% for all available track shoes.

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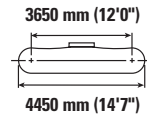
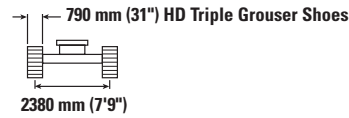
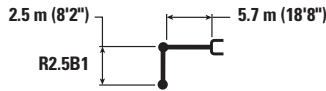
# 323 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 5.4 mt (6 t) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	*5750 *12,600			*4700 *10,350	*4700 *10,350	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	6100 13,150	*5150	4350	*4600 *10,100	4250 9,450	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	8850 19,100	*7000 *15,200	5850 12,650	*6100 *13,250	4250 9,100	*4700 *10,350	3900 8,550	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	8350 18,000	*7850 *16,950	5600 12,100	6350 13,600	4150 8,900	*5000 *11,000	3750 8,200	8050 320
0 mm 0 in	kg lb			*11 450 *24,750	8100 17,450	*8350 *18,100	5450 11,750	6250 13,450	4050 8,700	*5600 *12,350	3800 8,400	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	8050 17,350	*8400 *18,150	5400 11,650			6400 14,150	4150 9,150	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	*14 150 *30,650	*10 250 *22,200	8150 17,550	*7600 *16,200	5500 11,800			*6800 *14,900	5000 11,100	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	*7650 *16,000					*6600 *14,500	*6600 *14,500	4980 200

## Reach Boom Lift Capacities – Counterweight: 5.4 mt (6 t) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*5750 *12,600	*5750 *12,600			*4700 *10,350	*4700 *10,350	6830 270
4500 mm 180 in	kg lb			*7250 *15,600	*7250 *15,600	*6200 *13,500	6200 13,450	*5150	4450	*4600 *10,100	4350 9,650	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	9050 19,550	*7000 *15,200	6000 12,950	*6100 *13,250	4350 9,350	*4700 *10,350	3950 8,750	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	8550 18,400	*7850 *16,950	5750 12,400	*6450 *13,950	4250 9,100	*5000 *11,000	3850 8,400	8050 320
0 mm 0 in	kg lb			*11 450 *24,750	8300 17,850	*8350 *18,100	5600 12,050	6400 13,800	4150 8,950	*5600 *12,350	3900 8,600	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	8250 17,750	*8400 *18,150	5550 11,950			*6600 *14,500	4250 9,400	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	*14 150 *30,650	*10 250 *22,200	8350 18,000	*7600 *16,200	5600 12,100			*6800 *14,900	5100 11,350	6470 260
-4500 mm -180 in	kg lb			*7650 *16,000	*7650 *16,000					*6600 *14,500	*6600 *14,500	4980 200



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.

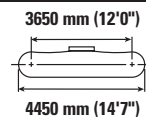
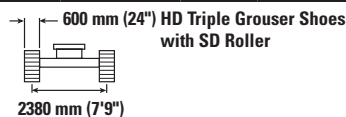
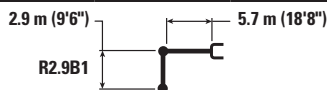
Lift capacity stays with ±5% for all available track shoes.

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



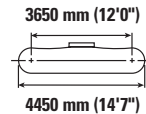
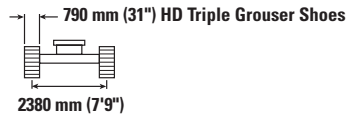
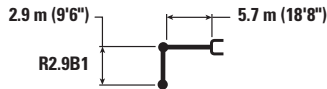
# 323 Hydraulic Excavator Specifications

## Reach Boom Lift Capacities – Counterweight: 5.4 mt (6 t) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	*5850 *12,700	*5500 12,000	4350 9,350	*3850 *8,450	*3850 *8,450	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	*8550 *18,400	*6700 *14,500	5900 12,650	*5850 *12,700	4250 9,100	*3950 *8,650	*3600 *7,900	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	8400 18,050	*7600 *16,450	5600 12,100	*6300 13,550	4100 8,850	*4150 *9,150	3450 7,650	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	8050 17,350	*8250 *17,850	5450 11,700	6200 13,350	4000 8,650	*4600 *10,150	3550 7,750	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 400 *24,700	7950 17,150	*8450 18,250	5350 11,500	6150 13,250	4000 8,600	*5400 *11,950	3800 8,400	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	*15 150 *32,750	*10 700 *23,050	8050 17,300	*7900 *17,050	5400 11,600			*6500 *14,250	4450 9,900	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	8250 17,800					*6550 *14,350	6150 13,800	5600 220

## Reach Boom Lift Capacities – Counterweight: 5.4 mt (6 t) – without Bucket – Heavy Lift: On



Reach mm in	kg lb	1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300 *11,650	*5300 *11,650			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	*5850 *12,700	*5500 12,000	4450 9,550	*3850 *8,450	*3850 *8,450	7990 320
3000 mm 120 in	kg lb					*8550 *18,400	*8550 *18,400	*6700 *14,500	6000 12,950	*5850 *12,700	4350 9,350	*3950 *8,650	*3700 *8,100	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	8600 18,500	*7600 *16,450	5750 12,400	*6300 *13,650	4200 9,050	*4150 *9,150	3550 7,850	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	8250 17,800	*8250 *17,850	5550 12,000	6350 13,700	4100 8,850	*4600 *10,150	3600 7,950	8260 330
-1500 mm -60 in	kg lb	*7000 *15,650	*7000 *15,650	*11 350 *25,750	*11 350 *25,750	*11 400 *24,700	8150 17,600	*8450 *18,250	5500 11,800	6300 13,600	4100 8,800	*5400 *11,950	3900 8,600	7780 310
-3000 mm -120 in	kg lb	*12 050 *27,000	*12 050 *27,000	*15 150 *32,750	*15 150 *32,750	*10 700 *23,050	8250 17,700	*7900 *17,050	5500 11,900			*6500 *14,250	4600 10,150	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	8450 18,250					*6550 *14,350	6300 14,150	5600 220



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.

# 323 Hydraulic Excavator Specifications

## Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill %	Counterweight				
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		4.2 mt (4.6 t)		5.4 mt (6 t)		
									HD Reach Boom				
										HD R2.5 (8'2")	HD R2.9 (9'6")	HD R2.5 (8'2")	HD R2.9 (9'6")
<b>Pin-On (No Quick Coupler)</b>													
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	●	●	●	
	B	750	30	0.64	0.84	626	1,380	100	●	●	●	●	
	B	1200	48	1.19	1.56	812	1,789	100	●	⊙	●	●	
	B	1300	51	1.30	1.70	835	1,841	100	⊙	⊖	●	●	
	B	1400	55	1.43	1.87	879	1,937	100	⊖	⊖	●	⊙	
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	●	●	●	●	
	B	1200	48	1.19	1.56	917	2,022	100	⊙	⊙	●	●	
	B	1300	52	1.30	1.70	974	2,148	100	⊙	⊖	●	●	
Severe Duty	B	1050	42	1.00	1.31	948	2,091	90	●	●	●	●	
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	●	⊙	●	●	
Maximum load with pin-on (payload + bucket)								kg	3170	2935	3825	3555	
								lb	6,989	6,471	8,433	7,837	
	Linkage	Width		Capacity		Weight		Fill %	Counterweight				
		mm	in	m <sup>3</sup>	yd <sup>3</sup>	kg	lb		4.2 mt (4.6 t)		5.4 mt (6 t)		
									HD Reach Boom				
										HD R2.5 (8'2")	HD R2.9 (9'6")	HD R2.5 (8'2")	HD R2.9 (9'6")
<b>With Cat Pin Grabber Coupler</b>													
General Duty	B	600	24	0.46	0.61	555	1,223	100	●	●	●	●	
	B	750	30	0.64	0.84	626	1,380	100	●	●	●	●	
	B	1200	48	1.19	1.56	812	1,789	100	⊙	⊖	●	●	
	B	1300	51	1.30	1.70	835	1,841	100	⊖	○	●	⊙	
	B	1400	55	1.43	1.87	879	1,937	100	○	○	⊙	⊖	
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	⊙	⊖	●	●	
	B	1200	48	1.19	1.56	917	2,022	100	⊖	○	●	⊙	
	B	1300	52	1.30	1.70	974	2,148	100	⊖	○	⊙	⊙	
Severe Duty	B	1050	42	1.00	1.31	948	2,091	90	●	⊙	●	●	
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	⊖	⊖	●	●	
Maximum load with coupler (payload + bucket)								kg	2855	2572	3526	3248	
								lb	6,293	5,671	7,773	7,160	

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/m<sup>3</sup> (3,500 lb/yd<sup>3</sup>)
- ⊙ 1800 kg/m<sup>3</sup> (3,000 lb/yd<sup>3</sup>)
- ⊖ 1500 kg/m<sup>3</sup> (2,500 lb/yd<sup>3</sup>)
- 1200 kg/m<sup>3</sup> (2,000 lb/yd<sup>3</sup>)

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.

# 323 Hydraulic Excavator Specifications

## Attachments Offering Guide

### PIN-ON ATTACHMENTS

Undercarriage		Long			
		4.2 mt (4.6 t)		5.4 mt (6 t)	
Counterweight		HD Reach		HD Reach	
Boom Type		HD 2.5 m (8'2")	HD 2.9 m (9'7")	HD 2.5 m (8'2")	HD 2.9 m (9'7")
Stick Length					
Hydraulic Hammers	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120E S	✓	✓	✓	✓
	H130E S	✓	✓	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓
	MP318 D Jaw	✓	✓	✓	✓
	MP318 P Jaw	✓	✓	✓	✓
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓	✓
	G320B	✓*		✓	✓
	G320B WH			✓	
Mobile Scrap and Demolition Shears	S3025	✓	✓	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓
Orange Peel Grapples		✓	✓	✓	✓
Rippers		✓	✓	✓	✓
CW Dedicated Couplers		✓	✓	✓	✓
Cat Pin Grabber Couplers		✓	✓	✓	✓

\*Working range front only.

(continued on next page)

# 323 Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

### CAT PIN GRABBER COUPLER ATTACHMENTS

Undercarriage		Long			
		4.2 mt (4.6 t)		5.4 mt (6 t)	
Counterweight		HD Reach		HD Reach	
Boom Type		HD 2.5 m (8'2")	HD 2.9 m (9'7")	HD 2.5 m (8'2")	HD 2.9 m (9'7")
Stick Length		HD 2.5 m (8'2")	HD 2.9 m (9'7")	HD 2.5 m (8'2")	HD 2.9 m (9'7")
Hydraulic Hammers	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120E S	✓	✓	✓	✓
	H130E S	✓	✓	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓
	MP318 D Jaw	✓	✓	✓	✓
	MP318 P Jaw	✓	✓*	✓	✓
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓*	✓	✓
	G320B			✓	
Mobile Scrap and Demolition Shears	S3025	✓	✓*	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓
Rippers		✓	✓	✓	✓

\*Working range front only.

*(continued on next page)*

# 323 Hydraulic Excavator Specifications

## Attachments Offering Guide *(continued)*

### CW-40s DEDICATED COUPLER ATTACHMENTS

Undercarriage		Long			
		4.2 mt (4.6 t)		5.4 mt (6 t)	
Counterweight		HD Reach		HD Reach	
Boom Type		HD 2.5 m (8'2")	HD 2.9 m (9'7")	HD 2.5 m (8'2")	HD 2.9 m (9'7")
Stick Length					
Hydraulic Hammers	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120E S	✓	✓	✓	✓
	H130E S	✓	✓	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓
	MP318 D Jaw	✓	✓	✓	✓
	MP318 P Jaw	✓	✓	✓	✓
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓	✓
	G320B			✓	
	G320B WH			✓	
Mobile Scrap and Demolition Shears	S3025	✓	✓*	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓
Rippers		✓	✓	✓	✓

\*Working range front only.

*(continued on next page)*

# 323 Standard and Optional Equipment

## Attachments Offering Guide *(continued)*

### CW-40 DEDICATED COUPLER ATTACHMENTS

Undercarriage		Long			
		4.2 mt (4.6 t)		5.4 mt (6 t)	
Counterweight		HD Reach		HD Reach	
Boom Type		HD 2.5 m (8'2")	HD 2.9 m (9'7")	HD 2.5 m (8'2")	HD 2.9 m (9'7")
Stick Length					
Hydraulic Hammers	H120 GC	✓	✓	✓	✓
	H120 GC S	✓	✓	✓	✓
	H120E S	✓	✓	✓	✓
	H130E S	✓	✓	✓	✓
Multi-Processors	MP318 CC Jaw	✓	✓	✓	✓
	MP318 D Jaw	✓	✓	✓	✓
	MP318 P Jaw	✓	✓	✓	✓
	MP318 S Jaw	✓	✓	✓	✓
	MP318 U Jaw	✓	✓	✓	✓
Demolition and Sorting Grapples	G315B	✓	✓	✓	✓
	G315B	✓	✓	✓	✓
	G315B WH	✓	✓	✓	✓
	G320B			✓	
	G320B WH			✓	
Mobile Scrap and Demolition Shears	S3025	✓	✓*	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓	✓	✓
Pulverizers	P215	✓	✓	✓	✓
Crushers	P315	✓	✓	✓	✓
Rippers		✓	✓	✓	✓

\*Working range front only.

### BOOM-MOUNT ATTACHMENTS

Undercarriage		Long	
		4.2 mt (4.6 t)	5.4 mt (6 t)
Counterweight		HD Reach	
Boom Type		HD Reach	HD Reach
Mobile Scrap and Demolition Shears	S2050	✓	✓
	S3035	✓	✓

## Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
<b>ENGINE</b>			<b>UNDERCARRIAGE AND STRUCTURES</b>		
C7.1	✓		Tie-down points on base frame (ISO 15818:2017 compliant)	✓	
Three selectable power modes	✓		Track guiding guard, segmented two pieces	✓	
Automatic engine speed control	✓		Track guiding guard, full length		✓
Automatic engine idle shutdown	✓		Heavy-duty bottom guard	✓	
Work up to 3000 m (9,840 ft) above sea level without engine power de-rating	✓		Standard swivel guard	✓	
52° C (125° F) high-ambient cooling capacity	✓		Heavy-duty travel motor guards	✓	
Cold starting capability for -18° C (0° F)	✓		Grease lubricated track links	✓	
Cold starting capability for -32° C (-25° F)		✓	5.4 mt (6 t) counterweight	✓	
Double element air filter with integrated precleaner	✓		4.2 mt (4.6 t) counterweight		✓
Electric fuel priming pump	✓		HD swing frame	✓	
Reversible electric cooling fans	✓		Semi-HD swing frame		✓
Biodiesel capability up to B20	✓		HD swing bearing	✓	
<b>HYDRAULIC SYSTEM</b>			Standard swing frame		✓
Boom and stick regeneration circuits	✓		HD base frame with SD track rollers and standard carrier rollers	✓	
Heavy lift configuration		✓	Final drive with standard travel motor	✓	
Electronic main control valve	✓		<b>BOOMS, STICKS AND LINKAGES</b>		
Automatic warm up	✓		600 mm (24") HD triple grouser track shoes	✓	
Automatic two-speed travel	✓		790 mm (31") HD triple grouser track shoes		✓
Boom and stick drift reduction valve	✓		5.7 m (18'8") HD Reach boom	✓	
Element type main hydraulic filter	✓		2.9 m (9'6") HD Reach stick	✓	
Slider joysticks	✓		2.5 m (8'2") HD Reach stick		✓
Tandem type electronic main pump	✓		Bucket linkage, B1-family with lifting eye	✓	
Hammer return filter circuit		✓	Bucket linkage, B1-family without lifting eye		✓
Combined flow/high pressure auxiliary circuit		✓			

(continued on next page)

# 323 Standard and Optional Equipment

## Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Optional
<b>ELECTRICAL SYSTEM</b>			<b>SERVICE AND MAINTENANCE</b>		
1,000 CCA maintenance-free batteries (×2)	✓		Sampling ports for Scheduled Oil Sampling (S·O·S <sup>SM</sup> )	✓	
1,000 CCA maintenance-free batteries (×4)		✓	QuickEvac <sup>TM</sup> maintenance ready		✓
Centralized electrical disconnect switch	✓		Grouped location for engine oil and fuel filters	✓	
Programmable time-delay LED working lights	✓		Ground-level second dipstick for engine oil	✓	
LED chassis light, LH and RH boom lights for Reach, cab lights	✓		Remote flash	✓	
<b>CAT TECHNOLOGY</b>			<b>SAFETY AND SECURITY</b>		
Cat Product Link <sup>TM</sup>	✓		Rearview camera and side RH mirror	✓	
Work tool recognition	✓		Rear and RH sideview cameras		✓
Work tool tracking*	✓		360° visibility		✓
Laser catcher		✓	Neutral lever (lock out) for all controls	✓	
Cat GRADE with 2D and offset memory	✓		Anti-skid plate and countersunk bolts on service platform	✓	
Cat GRADE with Advanced 2D		✓	Ground-level accessible secondary engine shutoff switch in cab	✓	
Cat GRADE with 3D connectivity:		✓	Radiator screen		✓
– Virtual Reference Station**			Bluetooth® receiver	✓	
– Internet Base Service Station**			RH handrail and hand hold (ISO 2867:2011 compliant)	✓	
– Trimble Connected Community**			Travel alarm		✓
Cat Assist:	✓		Cab mirror for RH side track edge		✓
– Grade Assist					
– Boom Assist					
– Bucket Assist					
– Swing Assist					
– Lift Assist					
Cat Payload:	✓				
– Static weigh					
– Semiautomatic calibration					
– Payload/cycle information					
– USB reporting capability					
2D E-Fence:	✓				
– E-ceiling					
– E-floor					
– E-swing					
– E-wall					
– E-cab avoidance					
Auto hammer stop	✓				
Remote Services capability	✓				

\*Paired with PL161 attachment locator.

\*\*Subscription required.



## Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

### CAB

- Radial lower wiper for 70/30 with washer
- LH and RH electrical pedal for tool control
- Rain protector plus cab light cover
- 75 mm (3") retractable seat belt
- Polycarbonate roof hatch kit (comfort cab)

### SAFETY AND SECURITY

- Bluetooth key fob

### ELECTRICAL

- Premium lighting package
- Jump start wiring

### GUARDS

- Falling object guard system (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
- Full Protecting Vandalism Guard
- Kits available for all regions

# 323 Cab Options

## Cab Options

	Comfort	Deluxe
ROPS, standard sound suppression	●	●
High-resolution 203 mm (8") LCD touch screen monitor	●	●
High-resolution 254 mm (10") LCD touch screen monitor	X	○
High-resolution 254 mm (10") LCD touch screen monitor + additional monitor (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	●	●
Height-adjustable console, three steps with tool	●	X
Height-adjustable console, infinite with no tool	X	●
Mechanically adjustable seat suspension	●	X
Heated seat	●	X
Heated seat with air-adjustable suspension	X	●
51 mm (2") seat belt	●	●
Fixed left side console	●	X
Tilt-up left-side console	X	●
Bluetooth integrated radio	●	X
Bluetooth integrated radio with USB ports	X	●
12V DC outlets	●	●
Document storage	●	●
Rear head storage net and lunchbox storage net	X	●
Cup and bottle holders	●	●
Openable two-piece front window	●	●
Upper radial wiper with washer	●	●
Parallel wiper with washer	X	●
Openable steel hatch	●	X
LED dome light	●	●
Floor welcome light	●	●
Roller front sunscreen	●	●
Roller rear sunscreen	○	○
Washable floor mat	●	●
Beacon ready	●	●

● Standard      ○ Optional      X Not available

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

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Replaces AEXQ2218-01  
Build Number: 07C  
(AME)

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

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