



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	
Net Power (ISO 9249)	117 kW	157 hp
Engine Power (ISO 14396)	118 kW	158 hp
Bore	105 mm	4 in
Stroke	135 mm	5 in
Displacement	7.01 L	428 in ³
Biodiesel Capability	Up to B20 ⁽¹⁾	

- The 323 meets Brazil MAR-1 emission standards, equivalent to U.S. EPA Tier 3.
- Recommended for use up to 4500 m (14,760 ft) altitude with engine power derate above 3000 m (9,840 ft).
- Net power is tested per ISO 9249. Standards in effect at the time of manufacture.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator.
- Rated speed at 1,800 rpm.

⁽¹⁾Cat engines are compatible with the following renewable, alternative, and bio-fuels* with lower greenhouse gas emission impact:

- ✓ Up to B20 biodiesel (FAME)**
- ✓ Up to 100% HVO and GTL renewable fuels

*Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

**For use of blends up to B100, consult your Cat dealer.

Swing Mechanism

Swing Speed	11.25 rpm	
Maximum Swing Torque	82 kN·m	60,300 lbf·ft

Weights

Operating Weight	24 600 kg	54,200 lb
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- Long undercarriage, HD Reach boom, HD R2.5 m (8'2") stick, 1.56 m³ (2.04 yd³) SDS bucket, 600 mm double grouser shoes, 5.4 mt (11,900 lb) counterweight.

Track

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

Drive

Gradeability	35°/70%	
Maximum Travel Speed	5.7 km/h	3.5 mph
Maximum Drawbar Pull	204 kN	45,861 lbf

Hydraulic System

Main System – Maximum Flow (Implement)	429 L/min (215 × 2 pumps)	113 gal/min (57 × 2 pumps)
Swing System – Maximum Flow	No swing pump	
Maximum Pressure – Equipment – Normal	35 000 kPa	5,075 psi
Maximum Pressure – Equipment – Heavy Lift Mode/Auto Dig Boost	38 000 kPa	5,510 psi
Maximum Pressure – Travel	34 300 kPa	4,974 psi
Maximum Pressure – Swing	27 500 kPa	3,998 psi
Boom Cylinder – Bore	120 mm	5 in
Boom Cylinder – Stroke	1260 mm	50 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1504 mm	59 in
Bucket Cylinder – Bore	120 mm	5 in
Bucket Cylinder – Stroke	1104 mm	43 in

Service Refill Capacities

Fuel Tank Capacity	345 L	86.6 gal
Cooling System	25 L	6.6 gal
Engine Oil	25 L	6.6 gal
Swing Drive	12 L	3.2 gal
Final Drive (each)	5 L	1.3 gal
Hydraulic System (including tank)	234 L	61.8 gal
Hydraulic Tank	115 L	30.4 gal

Standards

Brakes	ISO 10265:2008
Cab/ROPS	ISO 12117-2:2008
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") Double Grouser Shoes		600 mm (24") HD Triple Grouser Shoes		700 mm (28") HD Triple Grouser Shoes		790 mm (31") HD Triple Grouser Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
5.4 mt (11,900 lb) Counterweight + Long Undercarriage Base Machine								
HD Reach Boom + HD R2.5 m (8'2") Stick + 1.56 m ³ (2.04 yd ³) SDS Bucket	24 600 (54,200)	51.2 (7.4)	24 600 (54,200)	51.2 (7.4)	25 000 (55,100)	44.6 (6.5)	25 300 (55,800)	40.0 (5.8)

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

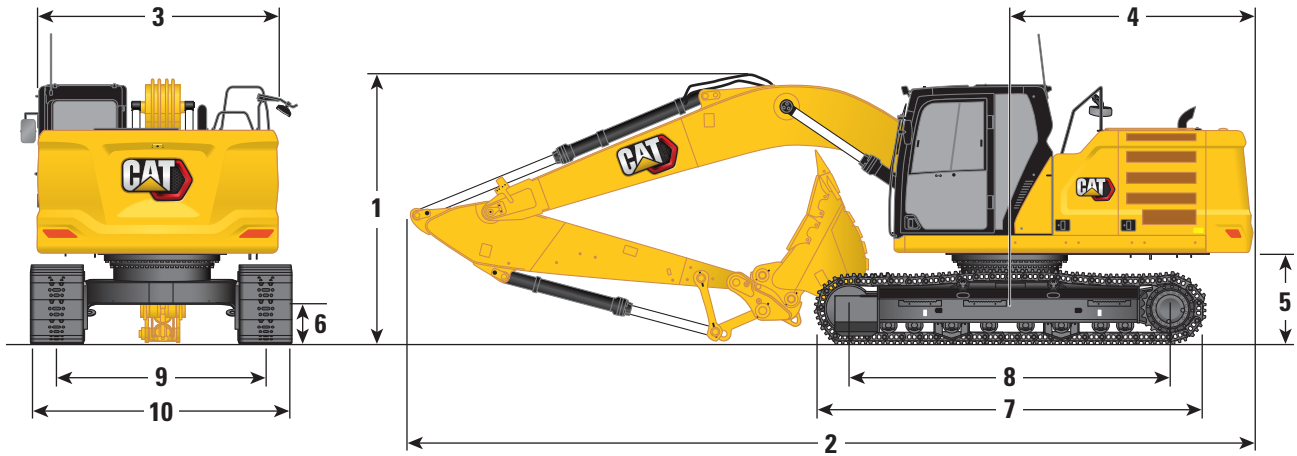
Major Component Weights

	kg	lb
Base Machine (with 5.4 mt [11,900 lb] counterweight, HD swing frame, HD base frame with SD track rollers and standard carrier rollers for long undercarriage – does not include boom, stick, bucket, boom cylinders, stick cylinder, bucket cylinder, tracks, 90% fuel tank and 75 kg [165 lb] operator).	16 400	36,100
Track Shoes:		
600 mm (24") Width, 13 mm (0.51") Thick Double Grouser Track Shoes	3080	6,800
600 mm (24") Width, 12.5 mm (0.49") Thick Triple Grouser HD Track Shoes	3080	6,800
700 mm (28") Width, 12.5 mm (0.49") Thick Triple Grouser HD Track Shoes	3490	7,700
790 mm (31") Width, 12.5 mm (0.49") Thick Triple Grouser HD Track Shoes with Step Extension for ISO 2867	3800	8,400
Boom Cylinders	340	700
Weight of 90% Fuel Tank and 75 kg (165 lb) Operator	310	700
Counterweight:		
5.4 mt (11,900 lb) Counterweight	5400	11,900
Swing Frame:		
HD Swing Frame	2090	4,600
Undercarriage:		
HD Base Frame with SD Track Rollers and Standard Carrier Rollers	4470	9,900
SD Base Frame with SD Track Rollers and SD Carrier Rollers	4680	10,300
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):		
1.19 m ³ (1.56 yd ³) SD	1070	2,400
1.40 m ³ (1.83 yd ³) HD	960	2,120
1.56 m ³ (2.04 yd ³) SDS	1290	2,800

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")**

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

2 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"

3 Upperframe Width without Walkways

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

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

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

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

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

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

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

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

Bucket Type

HD

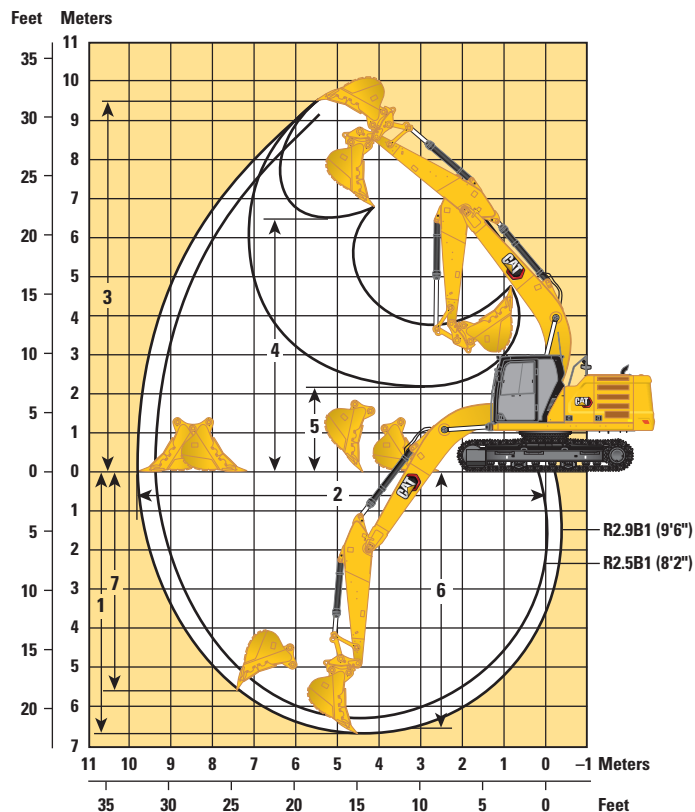
HD

Bucket Capacity	1.30 m ³	1.70 yd ³	1.30 m ³	1.70 yd ³
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")

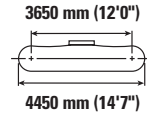
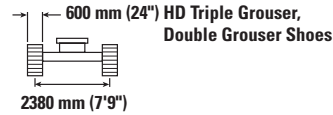
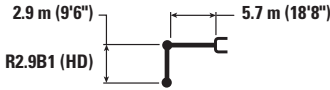
R2.5B1 (8'2")

	R2.9B1 (9'6")	22'1"	R2.5B1 (8'2")	20'7"
1 Maximum Digging Depth	6730 mm	22'1"	6310 mm	20'7"
2 Maximum Reach at Ground Line	9870 mm	32'4"	9470 mm	31'1"
3 Maximum Cutting Height	9450 mm	31'0"	9250 mm	30'4"
4 Maximum Loading Height	6480 mm	21'3"	6280 mm	20'7"
5 Minimum Loading Height	2160 mm	7'1"	2580 mm	8'5"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6560 mm	21'6"	6120 mm	20'1"
7 Maximum Vertical Wall Digging Depth	5620 mm	18'5"	5230 mm	17'2"
Bucket Digging Force (ISO)*	140 kN	31,505 lbf	140 kN	31,505 lbf
Stick Digging Force (ISO)*	107 kN	23,962 lbf	118 kN	26,550 lbf
Bucket Type	HD		HD	
Bucket Capacity	1.30 m ³	1.70 yd ³	1.30 m ³	1.70 yd ³
Bucket Tip Radius	1580 mm	5'2"	1580 mm	5'2"

*8.5% Auto Dig Boost pressure not included.

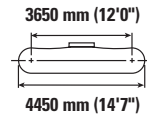
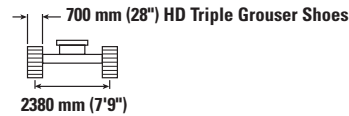
323 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900	*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 9,400	4400	*3850 *8,450	*3850 *8,450	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	*8550 *18,350	*6700 *14,500	5950 12,800	*5850 *12,700	4300 9,200	*3950 *8,650	3650 8,000	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	8450 18,200	*7600 *16,450	5650 12,200	*6300 *13,650	4150 8,950	*4150 *9,150	3500 7,700	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	8150 17,500	*8250 *17,850	5500 11,800	6250 13,450	4050 8,750	*4600 *10,150	3550 7,850	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	8050 17,300	*8450 *18,250	5400 11,600	6200 13,400	4000 8,650	*5400 *11,950	3850 8,450	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	8100 17,450	*7900 *17,050	5450 11,700			*6500 *14,250	4500 10,000	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	8350 17,950					*6550 *14,350	6200 13,900	5600 220

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900	*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 9,550	4450	*3850 *8,450	*3850 *8,450	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	*8550 *18,350	*6700 *14,500	6000 12,950	*5850 *12,700	4350 9,300	*3950 *8,650	3700 8,100	8360 330
1500 mm 60 in	kg lb					*10 350 *22,250	8550 18,450	*7600 *16,450	5750 12,350	*6300 *13,650	4200 9,050	*4150 *9,150	3550 7,800	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	8250 17,750	*8250 *17,850	5550 11,950	6350 13,650	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 17,550	*8450 *18,250	5450 11,750	6300 13,550	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	8200 17,700	*7900 *17,050	5500 11,850			*6500 *14,250	4550 10,100	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	8450 18,200					*6550 *14,350	6250 14,100	5600 220



ISO 10567



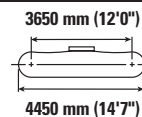
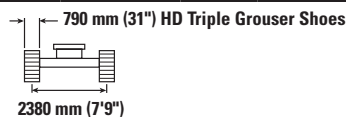
* Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

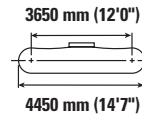
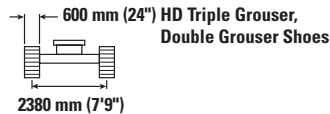
323 Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



		1500 mm/60 in		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb							*4900	*4900			*4250 *9,400	*4250 *9,400	6150 240
6000 mm 240 in	kg lb							*5300	*5300			*3900 *8,650	*3900 *8,650	7290 290
4500 mm 180 in	kg lb							*5850 *12,700	*5850 *12,700	*5500 9,650	4500	*3850 *8,450	*3850 *8,450	7990 320
3000 mm 120 in	kg lb					*8550 *18,350	*8550 *18,350	*6050 *14,500	6050 13,100	*5850 *12,700	4400 9,450	*3950 *8,650	*3950 *8,650	3700 8,200
1500 mm 60 in	kg lb					*10 350 *22,250	8650 18,650	*7600 *16,450	5800 12,500	*6300 *13,650	4250 9,150	*4150 *9,150	3600 7,900	8450 340
0 mm 0 in	kg lb			*6550 *15,050	*6550 *15,050	*11 300 *24,450	8350 17,950	*8250 *17,850	5600 12,100	6400 13,800	4150 8,950	*4600 *10,150	3650 8,050	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	8250 17,750	*8450 *18,250	5550 11,900	6400 13,750	4150 8,900	*5400 *11,950	3950 8,700	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	8300 17,900	*7900 *17,050	5550 12,000			*6500 *14,250	4600 10,250	6950 280
-4500 mm -180 in	kg lb			*12 050 *25,750	*12 050 *25,750	*8650 *18,400	8550 18,400					*6550 *14,350	6350 14,250	5600 220

Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in		mm in		
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*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



ISO 10567



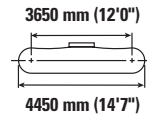
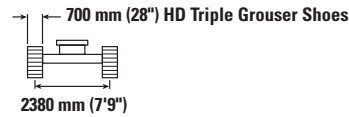
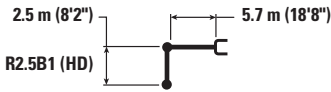
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Lift capacity stays with ±5% for all available track shoes.

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

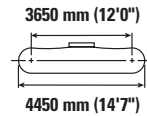
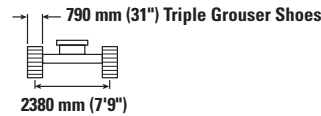
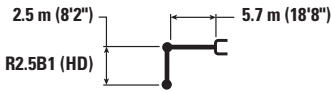
323 Hydraulic Excavator Specifications












Reach Boom Lift Capacities – Counterweight: 5.4 mt (11,900 lb) – without Bucket – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*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 13,350	*5150	4400	*4600 *10,100	4300 9,550	7570 300
3000 mm 120 in	kg lb			*9100 *19,600	8950 19,350	*7000 *15,200	5950 12,800	*6100 *13,250	4300 9,250	*4700 *10,350	3950 8,650	7960 320
1500 mm 60 in	kg lb			*10 750 *23,150	8450 18,200	*7850 *16,950	5700 12,250	6400 13,800	4200 9,000	*5000 *11,000	3800 8,350	8050 320
0 mm 0 in	kg lb			*11 450 *24,750	8200 17,650	*8350 *18,100	5550 11,900	6350 13,650	4100 8,850	*5600 *12,350	3850 8,500	7860 310
-1500 mm -60 in	kg lb	*11 950 *27,150	*11 950 *27,150	*11 300 *24,450	8150 17,550	*8400 *18,150	5500 11,800			6500 14,350	4200 9,300	7350 290
-3000 mm -120 in	kg lb	*14 150 *30,650	*14 150 *30,650	*10 250 *22,200	8250 17,800	*7600 *16,200	5550 12,000			*6800 *14,900	5050 11,250	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 (11,900 lb) – without Bucket – Heavy Lift: On



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*5100 *11,350	*5100 *11,350	5600 220
6000 mm 240 in	kg lb					*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

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Reach HD	
		mm	in	m ³	yd ³	kg	lb		%	R2.5HD (8'2")
Pin-On (No Quick Coupler)										
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	●	●
	B	1200	48	1.19	1.56	928	2,046	100	●	●
Heavy Duty Spade	B	1350	54	1.40	1.83	1025	2,260	100	●	⊙
Severe Duty	B	1200	48	1.19	1.56	1038	2,289	90	●	●
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	●	●
	B	1350	54	1.56	2.04	1213	2,674	90	⊙	⊖
Maximum load with pin-on (payload + bucket)								kg	3825	3555
								lb	8,433	7,837
	Linkage	Width		Capacity		Weight		Fill	Reach HD	
		mm	in	m ³	yd ³	kg	lb		%	R2.5HD (8'2")
With Cat Pin Grabber Coupler										
Heavy Duty	B	1050	42	1.00	1.31	892	1,967	100	●	●
	B	1200	48	1.19	1.56	928	2,046	100	●	⊙
Heavy Duty Spade	B	1350	54	1.40	1.83	1025	2,260	100	⊙	⊖
Severe Duty	B	1200	48	1.19	1.56	1038	2,289	90	●	●
Severe Duty Spade	B	1200	48	1.20	1.57	1011	2,229	90	●	●
	B	1350	54	1.56	2.04	1213	2,674	90	⊖	⊖
Maximum load with coupler (payload + bucket)								kg	3526	3248
								lb	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/m³ (3,500 lb/yd³)
- ⊙ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)

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

323 Hydraulic Excavator Specifications

Attachments Offering Guide

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

Match
 No Match
 1800 kg/m³ (3,000 lb/yd³)
 1200 kg/m³ (2,000 lb/yd³)

PIN-ON ATTACHMENTS

Boom Type	Stick Length	Reach HD	
		2.5 m HD (8'2")	2.9 m (9'6")
Hydraulic Hammers	H120 GC	✓	✓
	H120 GC Side Mount	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G324	✓	✓
Mobile Scrap and Demolition Shears	S3025	✓	✓
	S3025 Flat Top	✓	✓
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P224 Secondary Pulverizer	✓	
	P318 Primary Pulverizer	✓	✓
	P324 Primary Pulverizer	✓	
Compactors (Vibratory Plate)	CVP110	✓	✓
Orange Peel Grapples	GSH420-500	●	●
	GSH420-600	●	●
	GSH420-750	●	●
	GSH425-750	●	●
	GSH425-950	●	●
	GSH425-1150	○	○
	GSH520-500	●	●
	GSH520-600	●	●
	GSH520-750	●	●
	GSH525-750	●	●
	GSH525-950	○	○
	GSH525-1150	○	

(continued on next page)

323 Hydraulic Excavator Specifications

Attachments Offering Guide *(continued)*

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

Match

No Match

CAT PIN GRABBER COUPLER ATTACHMENTS

Boom Type	Stick Length	Reach HD	
		2.5 m HD (8'2")	2.9 m HD (9'6")
Hydraulic Hammers	H120 GC	✓	✓
	H120 GC Side Mount	✓	✓
	H120 GC S	✓	✓
	H120 S	✓	✓
	H130 GC	✓	✓
	H130 GC S	✓	✓
	H130 S	✓	✓
Multi-Processors	MP318 Concrete Cutter Jaw	✓	✓
	MP318 Demolition Jaw	✓	✓
	MP318 Pulverizer Jaw	✓	✓
	MP318 Shear Jaw	✓	✓
	MP318 Universal Jaw	✓	✓
Demolition and Sorting Grapples	G318	✓	✓
	G324	✓	
Mobile Scrap and Demolition Shears	S3025	✓	✓
	S3025 Flat Top	✓	
Pulverizers	P218 Secondary Pulverizer	✓	✓
	P318 Primary Pulverizer	✓	✓
Compactors (Vibratory Plate)	CVP110	✓	✓

TRS18 (PIN-ON TOP/S70 BOTTOM) ATTACHMENTS

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

NOTE: Hammer on tiltrotator usage less than 10% of working hours. Refer to your OMM for recommended hydraulic flow requirements.

BOOM-MOUNT ATTACHMENTS

Boom Type	Stick Length	Reach HD	
Mobile Scrap and Demolition Shears	S2050	✓	
	S3035	✓	
	S3035 Flat Top	✓	✓

323 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		
Three selectable power modes	✓		600 mm (24") double grouser shoes		✓
Automatic engine speed control	✓		600 mm (24") HD triple grouser shoes		✓
Automatic engine idle shutdown	✓		700 mm (28") HD triple grouser shoes		✓
Work up to 3000 m (9,840 ft) above sea level without engine power de-rating	✓		790 mm (31") HD triple grouser shoes		✓
52° C (125° F) high-ambient cooling capacity	✓		Tie-down points on base frame (ISO 15818:2017 compliant)	✓	
Cold starting capability for -18° C (0° F)	✓		Segmented track guiding guards	✓	
Double element air filter with integrated precleaner	✓		Full-length track guiding guards		✓
Electric fuel priming pump	✓		HD bottom guards	✓	
Reversible electric cooling fans	✓		Swivel guard	✓	
HYDRAULIC SYSTEM			HD travel motor guards	✓	
Boom and stick regeneration circuits	✓		Grease lubricated track links	✓	
Heavy lift configuration	✓		5400 kg (11,900 lb) counterweight	✓	
Electronic main control valve	✓		HD swing frame	✓	
Auto Dig Boost ⁽¹⁾	✓		HD swing bearing	✓	
Auto heavy lift	✓		HD base frame with SD track rollers and standard carrier rollers	✓	
Automatic warm up	✓		SD base frame with SD track rollers and SD carrier rollers for long undercarriage		✓
Automatic two-speed travel	✓		BOOMS, STICKS AND LINKAGES		
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 type with lifting eye	✓	
Hammer return filter circuit		✓	ELECTRICAL SYSTEM		
Combined flow/high pressure auxiliary circuit		✓	1,000 CCA maintenance-free batteries (×2)	✓	
Quick coupler circuit for Cat Pin Grabber and CW Dedicated		✓	Centralized electrical disconnect switch	✓	
			Programmable time-delay LED working lights	✓	
			LED chassis light, LH and RH boom lights, cab lights	✓	
			LED chassis light, LH and RH boom lights, cab lights with cover and rain protector – for use with 360° visibility		✓
			Premium surround lighting package		✓

⁽¹⁾Not available for Super Long Reach.

(continued on next page)

Standard and Optional Equipment *(continued)*

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

	Standard	Optional
CAT TECHNOLOGY		
Cat Product Link™	✓	
Work tool recognition*	✓	
Work tool tracking*	✓	
Laser catcher		✓
Cat Grade Connectivity		✓
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Cat Grade with 2D and offset memory	✓	
Cat Grade with Advanced 2D		✓
Cat Grade with 3D		✓
Cat Assist:	✓	
– 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	✓	

**Requires PL161 attachment locator on work tool and Bluetooth® receiver on machine. Contact your dealer for more information.

**Not available for Super Long Reach.

	Standard	Optional
SERVICE AND MAINTENANCE		
Scheduled Oil Sampling (S·O·S SM) ports	✓	
QuickEvac™ maintenance ready		✓
Grouped location for engine oil and fuel filters	✓	
Ground-level second dipstick for engine oil	✓	
Radiator screen		✓
SAFETY AND SECURITY		
Rearview camera and side RH mirror	✓	
360° visibility (must be used with 254 mm [10 in] monitor and cab light with cover)		✓
Cat Detect – People Detection		✓
Neutral lever (lock out) for all controls	✓	
Anti-skid plate and countersunk bolts on service platform	✓	
Ground-level accessible secondary engine shutoff switch in cab	✓	
RH handrail and handhold (ISO 2867:2011 compliant)	✓	
Inspection lighting		✓
Travel alarm	✓	
Handholds inside radiator compartment		✓

Dealer Installed Kit and Attachments

Attachments may vary. Consult your Cat dealer for details.

CAB

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

SAFETY AND SECURITY

- Bluetooth key fob

SERVICE AND MAINTENANCE

- Grease gun holder

ELECTRICAL

- Jump start wiring (Brazil only)

GUARDS

- Side rubber bumper (excluding Brazil)
- 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 (excluding Brazil)

Cab Options

	Comfort	Deluxe
ROPS, standard sound suppression	●	●
High-resolution 203 mm (8") LCD touchscreen monitor	●	●
High-resolution 254 mm (10") LCD touchscreen monitor	○	○
High-resolution 254 mm (10") LCD touchscreen 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 with air-adjustable suspension	●	●
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



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AEXQ2220-03 (10-2021)
Replaces AEXQ2220-02
Build Number: 07E
(S Am)

