

324E L

Hydraulic Excavator



Engine

Engine Model	Cat® C7.1 ACERT™	
Net Power – ISO 14396 (metric)	151 kW	205 hp
Net Power – ISO 14396 (imperial)	151 kW	202 hp

Drive

Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	227 kN	51,032 lbf

Weight

Minimum Weight	25 127 kg	55,396 lb
Maximum Weight	26 307 kg	57,997 lb

324E L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C7.1 ACERT	
Net Power – ISO 14396 (metric)	151 kW	205 hp
Net Power – ISO 14396 (imperial)	151 kW	202 hp
Bore	105 mm	4.13 in
Stroke	135 mm	5.31 in
Displacement	7.01 L	428 in ³

Weights

Minimum Weight*	25 127 kg	55,396 lb
Maximum Weight**	26 307 kg	57,997 lb

*Long Undercarriage, 5.9 m (19'4") reach boom, R2.5CB1 (8'2") stick, 4.0 mt (4.4 t) counterweight, 1.33 m³ (1.74 yd³) bucket, 600 mm (24") DG shoes.

**Long Undercarriage 5.3 m (17'5") mass boom, M2.5DB (8'2") stick, 4.0 mt (4.4 t) counterweight, 1.87 m³ (2.45 yd³) bucket, 790 mm (31") TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	462 L/min	122 gal/min
Swing System – Maximum Flow	231 L/min	61 gal/min
Maximum Pressure – Equipment Heavy Lift	38 000 kPa	5,512 psi
Maximum Pressure – Equipment Normal	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	24 497 kPa	3,553 psi
Pilot System – Maximum Flow	23.1 L/min	1,410 in ³ /min
Pilot System – Maximum Pressure	3920 kPa	569 psi
Boom Cylinder – Bore	135 mm	5 in
Boom Cylinder – Stroke	1305 mm	51 in
Stick Cylinder – Bore	140 mm	6 in
Stick Cylinder – Stroke	1660 mm	65 in
CB1 Bucket Cylinder – Bore	130 mm	5 in
CB1 Bucket Cylinder – Stroke	1156 mm	46 in
DB Bucket Cylinder – Bore	150 mm	6 in
DB Bucket Cylinder – Stroke	1151 mm	45 in

Drive

Maximum Travel Speed	5.3 km/h	3.3 mph
Maximum Drawbar Pull	227 kN	51,032 lbf

Swing Mechanism

Swing Speed	9.2 rpm	
Swing Torque	73.4 kN·m	54,137 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	520 L	137.37 gal
Cooling System	44 L	11.62 gal
Engine Oil (with filter)	22.5 L	5.94 gal
Swing Drive (each)	10 L	2.64 gal
Final Drive (each)	6 L	1.59 gal
Hydraulic System (including tank)	280 L	75.29 gal
Hydraulic Tank	155 L	40.95 gal

Track

Number of Shoes (each side)	
Long Undercarriage	51
Number of Track Rollers (each side)	
Long Undercarriage	8
Number of Carrier Rollers (each side)	
Long Undercarriage	2

Sound Performance

ISO 6396	
Operator Noise (Closed) (ROPS Cab)	71 dB(A)
Operator Noise (Open) (ROPS Cab)	76 dB(A)
ISO 6395	
Spectator Noise	104 dB(A)

- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6396, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in a noisy environment.

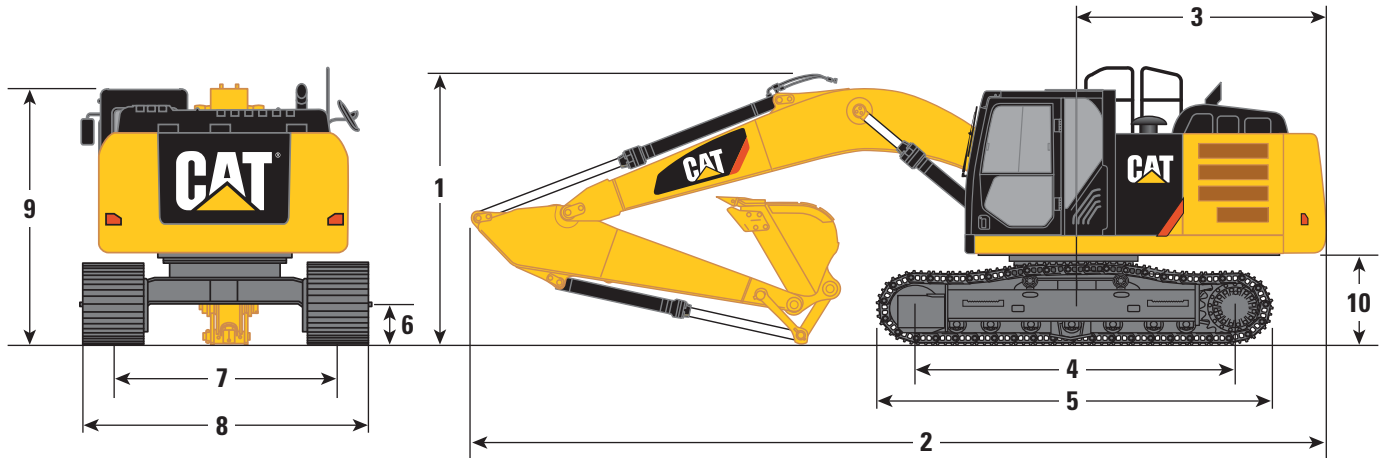
Standards

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

324E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



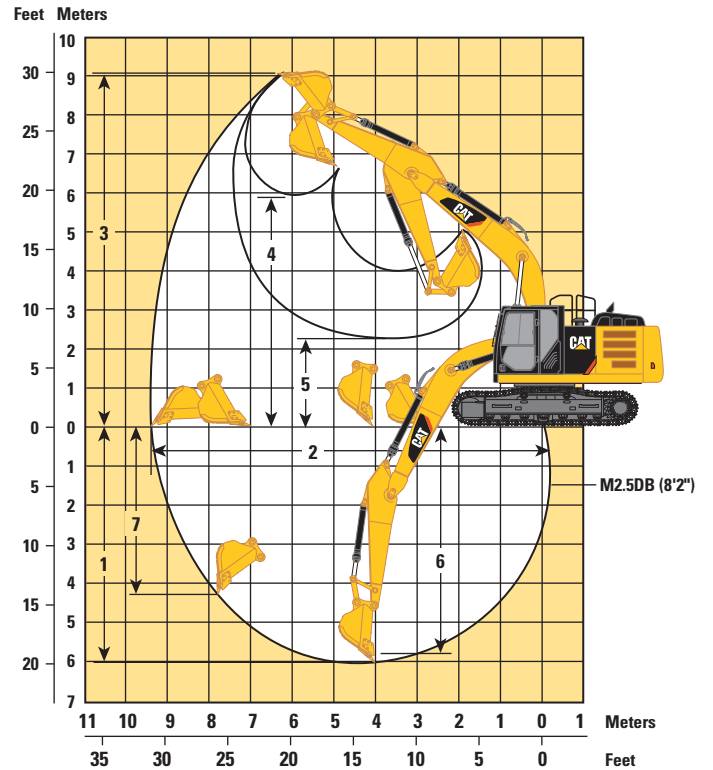
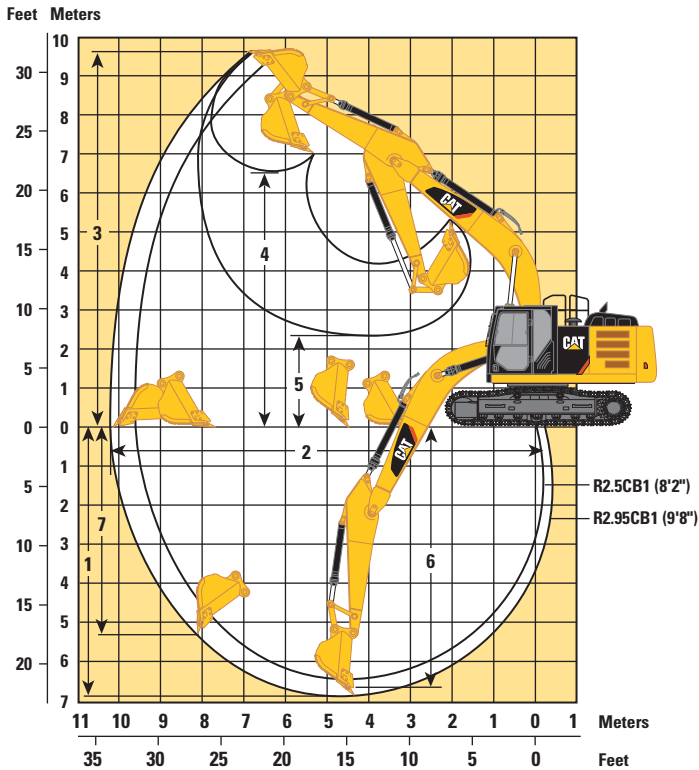
Stick	HD Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	R2.95CB1 (9'8")	R2.5CB1 (8'2")	M2.5DB (8'2")
1 Shipping Height*	3220 mm (10'7")	3410 mm (11'2")	3500 mm (11'6")
Shipping Height with Guard Rail (without fronts)	3283 mm (10'9")	3283 mm (10'9")	3283 mm (10'9")
Shipping Height with Top Guard (without fronts)	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
2 Shipping Length	10 063 mm (33'0")	10 100 mm (33'2")	9480 mm (31'1")
3 Tail Swing Radius	2947 mm (9'8")	2947 mm (9'8")	2947 mm (9'8")
4 Length to Center of Rollers			
Long Undercarriage	3830 mm (12'7")	3830 mm (12'7")	3830 mm (12'7")
5 Track Length			
Long Undercarriage	4640 mm (15'3")	4640 mm (15'3")	4640 mm (15'3")
6 Ground Clearance			
Long Undercarriage	440 mm (1'5")	440 mm (1'5")	440 mm (1'5")
7 Track Gauge			
Long Undercarriage	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
8 Transport Width			
Long Undercarriage – 600 mm (24") Shoes	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
Long Undercarriage – 700 mm (28") Shoes	3290 mm (10'10")	3290 mm (10'10")	3290 mm (10'10")
Long Undercarriage – 790 mm (31") Shoes	3380 mm (11'1")	3380 mm (11'1")	3380 mm (11'1")
9 Cab Height	2996 mm (9'10")	2996 mm (9'10")	2996 mm (9'10")
Cab Height with Top Guard	3190 mm (10'6")	3190 mm (10'6")	3190 mm (10'6")
10 Counterweight Clearance**	1088 mm (3'7")	1088 mm (3'7")	1088 mm (3'7")

*Including shoe lug height.

**Without shoe lug height.

Working Ranges

All dimensions are approximate.



Stick	HD Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	R2.95CB1 (9'8")	R2.5CB1 (8'2")	M2.5DB (8'2")
1 Maximum Digging Depth	6810 mm (22'4")	6360 mm (20'10")	6000 mm (19'8")
2 Maximum Reach at Ground Level	10 110 mm (33'2")	9690 mm (31'9")	9200 mm (30'2")
3 Maximum Cutting Height	9690 mm (31'9")	9490 mm (31'2")	9060 mm (29'9")
4 Maximum Loading Height	7450 mm (24'5")	6440 mm (21'2")	5890 mm (19'4")
5 Minimum Loading Height	2410 mm (7'11")	2860 mm (9'5")	2280 mm (7'6")
6 Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6640 mm (21'9")	6160 mm (20'3")	5810 mm (19'1")
7 Maximum Vertical Wall Digging Depth	5300 mm (17'5")	4870 mm (16'0")	4250 mm (13'11")

324E L Hydraulic Excavator Specifications

Operating Weight and Ground Pressure

	790 mm (31") Triple Grouser Shoes				700 mm (28") Triple Grouser Shoes				600 mm (24") Double Grouser Shoes			
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
Long Undercarriage												
HD Reach Boom – 5.9 m (19'4")												
R2.95CB1 HD (9'8")	25 887	57,071	42.0	6.08	25 627	56,498	46.9	6.80	25 187	55,528	53.7	7.79
R2.5CB1 HD (8'2")	25 827	56,939	41.9	6.07	25 567	56,366	46.8	6.78	25 127	55,395	53.6	7.78
Mass Boom – 5.3 m (17'5")												
M2.5DB (8'2")	26 307	57,997	42.6	6.18	26 047	57,424	47.6	6.91	25 607	56,454	54.6	7.92

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Undercarriage	14 300 kg (31,530 lb)
Counterweight	
4.0 mt (4.4 t)	4020 kg (8,860 lb)
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 5.9 m (19'4")	1740 kg (3,840 lb)
Mass Boom – 5.3 m (17'5")	1850 kg (4,080 lb)
Stick (includes lines, pins and bucket cylinder)	
R2.95CB1 HD (9'8")	840 kg (1,850 lb)
R2.5CB1 HD (8'2")	780 kg (1,720 lb)
M2.5DB (8'2")	970 kg (2,140 lb)
Track Shoe (Long/per two tracks)	
600 mm (24") Double Grouser	3220 kg (7,100 lb)
700 mm (28") Triple Grouser	3680 kg (8,120 lb)
790 mm (31") Triple Grouser	3940 kg (8,680 lb)
Buckets	
CB1 1200HD – 1.33 m ³ (1.74 yd ³)	1047 kg (2,309 lb)
CB1 1350HD – 1.54 m ³ (2.01 yd ³)	1096 kg (2,416 lb)
DB 1500GD – 1.87 m ³ (2.45 yd ³)	1227 kg (2,705 lb)
A 1145DC – 0.6 m ³ (0.78 yd ³)	288.9 kg (637 lb)

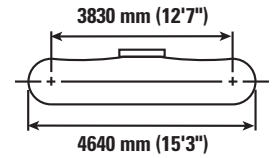
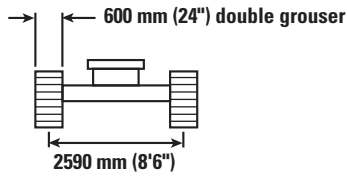
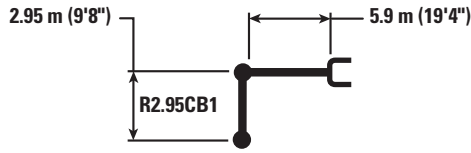
All weights are rounded up to nearest 10 kg and lb except for quick coupler and buckets. Kg and lb were rounded up separately so some of the kg and lb do not match. Base machine includes 75 kg (165 lb) operator weight, 90% fuel weight, and undercarriage with center guard.












Bucket and Stick Forces

Stick	Reach Booms 5.9 m (19'4")		Mass Boom 5.3 m (17'5")
	CB-Family Bucket		DB-Family Bucket
	R2.95CB1 (9'8")	R2.5CB1 (8'2")	M2.5DB (8'2")
General Duty			
Bucket Digging Force (ISO)	167 kN (37,500 lbf)	167 kN (37,500 lbf)	212 kN (47,700 lbf)
Stick Digging Force (ISO)	121 kN (27,200 lbf)	141 kN (31,700 lbf)	138 kN (31,000 lbf)
Heavy Duty			
Bucket Digging Force (ISO)	166 kN (37,318 lbf)	166 kN (37,318 lbf)	210 kN (47,200 lbf)
Stick Digging Force (ISO)	121 kN (27,200 lbf)	141 kN (27,200 lbf)	137 kN (30,800 lbf)
Severe Duty			
Bucket Digging Force (ISO)	166 kN (37,318 lbf)	166 kN (37,318 lbf)	–
Stick Digging Force (ISO)	121 kN (27,201 lbf)	141 kN (31,698 lbf)	–
Ditch Cleaning			
Bucket Digging Force (ISO)	–	–	–
Stick Digging Force (ISO)	–	–	–

324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in					
												mm	in
7500 mm 300 in	kg lb					*7100 *14,650	7100 *14,650			*5900 *13,100	*5900 *13,100	6430	250
6000 mm 240 in	kg lb					*7200 *15,750	7050 15,100	*5650	4850	*5600 *12,350	4850 10,800	7510	300
4500 mm 180 in	kg lb			*9350 *20,200	*9350 *20,200	*8000 *17,400	6800 14,600	7150	4800	*5600 *12,300	4150 9,150	8180	330
3000 mm 120 in	kg lb			*12 000 *25,750	9900 21,300	*9200 *19,950	6450 13,900	7000	4650	5700 12,550	3800 8,350	8540	340
1500 mm 60 in	kg lb			*14 250 *30,750	9250 19,900	9550 20,500	6150 13,200	6800	4450	5550 12,200	3650 8,050	8610	340
0 mm 0 in	kg lb			14 850 31,800	8900 19,100	9300 19,950	5900 12,750	6650	4350	5650 12,450	3700 8,150	8420	340
-1500 mm -60 in	kg lb	*11 050 *25,100	*11 050 *25,100	14 750 31,550	8800 18,900	9200 19,750	5800 12,500	6600	4300	6100 13,500	4000 8,800	7940	320
-3000 mm -120 in	kg lb	*18 100 *41,150	17 750 37,900	*14 150 *30,550	8850 19,100	9200 19,850	5850 12,600			7200 16,000	4700 10,350	7110	280
-4500 mm -180 in	kg lb	*15 700 *33,650	*15 700 *33,650	*11 550 *24,650	9100 19,650					*8600 *18,900	6400 14,350	5790	230



ISO 10567

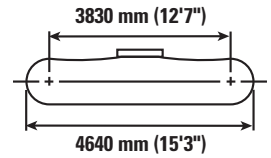
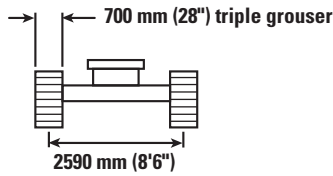
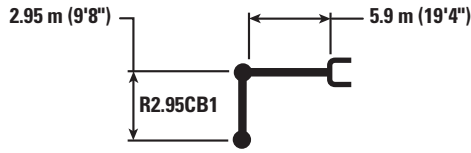



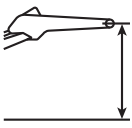









*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from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

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in					
												mm	in
7500 mm 300 in	kg lb					*7100 *14,650	*7100 *14,650			*5900 *13,100	*5900 *13,100	6430	250
6000 mm 240 in	kg lb					*7200 *15,750	7150 15,350	*5650	4950	*5600 *12,350	4900 10,950	7510	300
4500 mm 180 in	kg lb			*9350 *20,200	*9350 *20,200	*8000 *17,400	6900 14,850	7250 15,600	4850 10,450	*5600 *12,300	4200 9,300	8180	330
3000 mm 120 in	kg lb			*12 000 *25,750	10 050 21,650	*9200 *19,950	6550 14,150	7100 15,250	4700 10,150	5800 *12,750	3850 8,500	8540	340
1500 mm 60 in	kg lb			*14 250 *30,750	9400 20,200	9700 20,850	6250 13,450	6900 14,900	4550 9,800	5650 12,400	3700 8,200	8610	340
0 mm 0 in	kg lb			15 100 32,350	9050 19,450	9450 20,300	6000 12,950	6800 14,600	4450 9,550	5750 12,650	3800 8,300	8420	340
-1500 mm -60 in	kg lb	*11 050 *25,100	*11 050 *25,100	15 000 32,100	8950 19,250	9350 20,100	5900 12,750	6750 14,500	4400 9,450	6250 13,750	4050 8,950	7940	320
-3000 mm -120 in	kg lb	*18 100 *41,150	18 050 38,550	*14 150 *30,550	9000 19,400	9400 20,150	5950 12,800			7350 16,250	4750 10,550	7110	280
-4500 mm -180 in	kg lb	*15 700 *33,650	*15 700 *33,650	*11 550 *24,650	9250 19,950					*8600 *18,900	6500 14,600	5790	230



ISO 10567



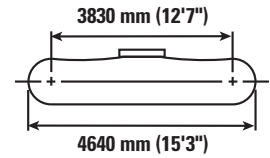
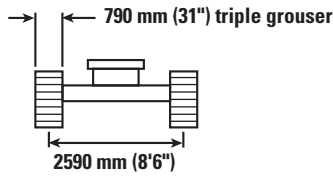
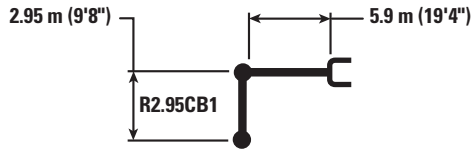
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








Lift capacity stays with $\pm 5\%$ for all available track shoes.

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324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



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												mm	in
7500 mm 300 in	kg lb					*7100 *14,650	*7100 *14,650			*5900 *13,100	*5900 *13,100	6430	250
6000 mm 240 in	kg lb					*7200 *15,750	*7200 15,450	*5650	5000	*5600 *12,350	4950 11,050	7510	300
4500 mm 180 in	kg lb			*9350 *20,200	*9350 *20,200	*8000 *17,400	6950 14,950	7350 15,750	4900 10,550	*5600 *12,300	4250 9,400	8180	330
3000 mm 120 in	kg lb			*12 000 *25,750	10 150 21,850	*9200 *19,950	6600 14,250	7150 15,400	4750 10,250	*5800 *12,750	3900 8,600	8540	340
1500 mm 60 in	kg lb			*14 250 *30,750	9450 20,400	9800 21,050	6300 13,550	7000 15,050	4600 9,900	5700 12,550	3750 8,250	8610	340
0 mm 0 in	kg lb			15 250 32,650	9150 19,650	9550 20,500	6100 13,100	6850 14,750	4500 9,650	5800 12,800	3800 8,400	8420	340
-1500 mm -60 in	kg lb	*11 050 *25,100	*11 050 *25,100	15 150 32,400	9050 19,450	9450 20,300	6000 12,850	6800 14,650	4450 9,550	6300 13,850	4100 9,050	7940	320
-3000 mm -120 in	kg lb	*18 100 *41,150	*18 100 38,900	*14 150 *30,550	9100 19,600	9500 20,400	6000 12,950			7400 16,400	4800 10,650	7110	280
-4500 mm -180 in	kg lb	*15 700 *33,650	*15 700 *33,650	*11 550 *24,650	9350 20,150					*8600 *18,900	6550 14,750	5790	230



ISO 10567

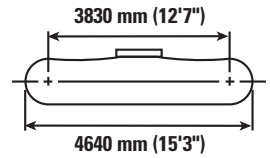
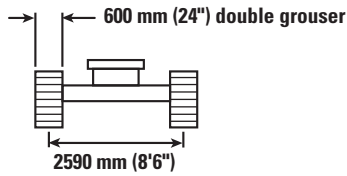
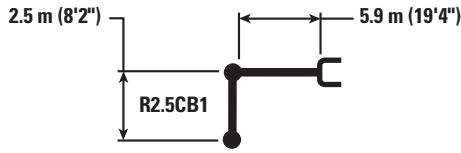













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Lift capacity stays with ±5% for all available track shoes.

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324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*7900 *17,450	7250 16,500	5860 230
6000 mm 240 in	kg lb					*7800 *17,050	6950 14,900			*7600 *16,800	5350 11,900	7040 280
4500 mm 180 in	kg lb			*10 250 *22,050	*10 250 *22,050	*8550 *18,550	6700 14,450	7100 15,250	4750 10,200	6750 14,900	4500 9,950	7750 310
3000 mm 120 in	kg lb			*12 800 *27,550	9700 20,950	*9650 *20,950	6400 13,800	6950 14,950	4600 9,900	6150 13,550	4100 9,000	8130 320
1500 mm 60 in	kg lb			*14 850 *32,000	9150 19,650	9500 20,450	6100 13,150	6800 14,650	4500 9,600	5950 13,100	3950 8,650	8210 330
0 mm 0 in	kg lb			14 850 31,750	8900 19,100	9300 20,000	5900 12,750	6700 14,400	4400 9,400	6100 13,450	4000 8,850	8000 320
-1500 mm -60 in	kg lb	*11 400 *26,000	*11 400 *26,000	14 800 31,700	8850 19,050	9250 19,850	5850 12,600			6700 14,750	4350 9,650	7500 300
-3000 mm -120 in	kg lb	*18 250 *39,550	18 000 38,450	*13 550 *29,300	9000 19,300	9300 20,050	5950 12,800			8100 18,000	5250 11,650	6610 260
-4500 mm -180 in	kg lb			*10 300 *21,700	9300 20,050					*8750 *19,150	7650 17,350	5150 200



ISO 10567



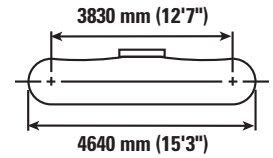
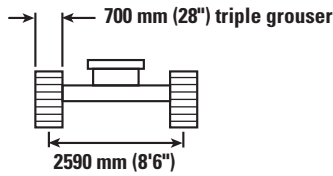
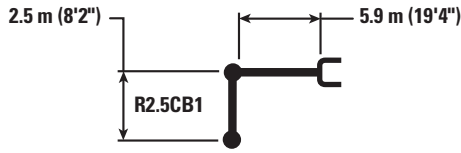
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








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

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

324E L Hydraulic Excavator Specifications

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb									*7900 *17,450	7350 16,700	5860 230
6000 mm 240 in	kg lb					*7800 *17,050	7050 15,150			*7600 *16,800	5400 12,100	7040 280
4500 mm 180 in	kg lb			*10 250 *22,050	*10 250 *22,050	*8550 *18,550	6800 14,700	7200 15,500	4800 10,350	6850 15,150	4550 10,100	7750 310
3000 mm 120 in	kg lb			*12 800 *27,550	9850 21,250	*9650 *20,950	6500 14,000	7100 15,200	4700 10,100	6250 13,800	4150 9,150	8130 320
1500 mm 60 in	kg lb			*14 850 *32,000	9300 20,000	9650 20,800	6200 13,350	6900 14,900	4550 9,800	6050 13,350	4000 8,800	8210 330
0 mm 0 in	kg lb			15 100 32,300	9050 19,450	9450 20,300	6000 12,950	6800 14,650	4450 9,600	6200 13,700	4100 9,000	8000 320
-1500 mm -60 in	kg lb	*11 400 *26,000	*11 400 *26,000	*15 050 32,250	9000 19,350	9400 20,200	5950 12,850			6800 15,000	4450 9,800	7500 300
-3000 mm -120 in	kg lb	*18 250 *39,550	*18 250 39,050	*13 550 *29,300	9150 19,650	9500 20,400	6050 13,050			8250 18,300	5350 11,800	6610 260
-4500 mm -180 in	kg lb			*10 300 *21,700	9450 20,400					*8750 *19,150	7800 17,650	5150 200



ISO 10567

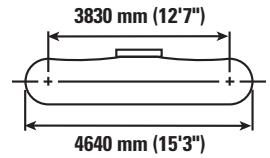
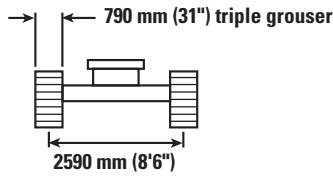
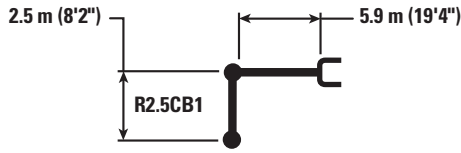













*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from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

324E L Heavy Duty Reach Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				
												mm in
7500 mm 300 in	kg lb									*7900 *17,450	7400 16,850	5860 230
6000 mm 240 in	kg lb					*7800 *17,050	7100 15,250			*7600 *16,800	5450 12,200	7040 280
4500 mm 180 in	kg lb			*10 250 *22,050	*10 250 *22,050	*8550 *18,550	6900 14,800	7300 15,650	4850 10,450	6900 15,300	4600 10,200	7750 310
3000 mm 120 in	kg lb			*12 800 *27,550	9950 21,450	*9650 *20,950	6550 14,150	7150 15,350	4750 10,200	6300 13,900	4200 9,250	8130 320
1500 mm 60 in	kg lb			*14 850 *32,000	9350 20,200	9750 21,000	6250 13,500	7000 15,050	4600 9,900	6150 13,500	4050 8,900	8210 330
0 mm 0 in	kg lb			15 250 32,650	9150 19,650	9550 20,550	6100 13,100	6900 14,800	4500 9,700	6300 13,800	4150 9,100	8000 320
-1500 mm -60 in	kg lb	*11 400 *26,000	*11 400 *26,000	*15 050 32,550	9100 19,550	9500 20,400	6050 12,950			6900 15,150	4500 9,900	7500 300
-3000 mm -120 in	kg lb	*18 250 *39,550	*18 250 39,450	*13 550 *29,300	9200 19,850	9550 20,600	6100 13,150			8300 18,500	5400 11,950	6610 260
-4500 mm -180 in	kg lb			*10 300 *21,700	9550 20,600					*8750 *19,150	7850 17,800	5150 200



ISO 10567



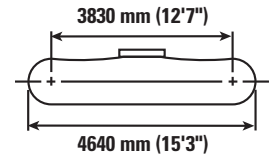
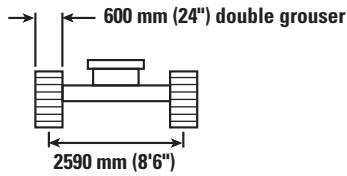
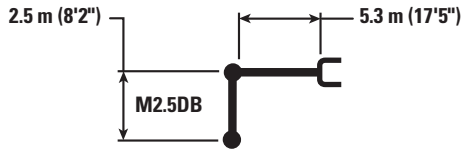
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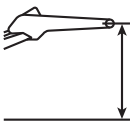











Lift capacity stays with ±5% for all available track shoes.

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

324E L Hydraulic Excavator Specifications

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



	3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in			
														
7500 mm 300 in	kg lb											*7900 *17,650	*7900 *17,650	5010 200
6000 mm 240 in	kg lb					*8250 *18,150	6800 14,600					*7200 *15,900	6200 13,850	6350 250
4500 mm 180 in	kg lb			*9850 *21,300	*9850 *21,300	*8650 *18,850	6650 14,300					*7050 *15,550	5000 11,100	7140 280
3000 mm 120 in	kg lb			*12 200 *26,350	9900 21,250	*9650 *20,900	6400 13,700	6850	4500			6800 15,050	4500 9,850	7540 300
1500 mm 60 in	kg lb			*14 400 *31,050	9250 19,900	9500 20,450	6100 13,100	6750 14,500	4400 9,450			6600 14,450	4300 9,450	7630 300
0 mm 0 in	kg lb			14 900 31,950	8900 19,150	9300 19,950	5900 12,650					6800 14,950	4400 9,650	7410 300
-1500 mm -60 in	kg lb	*17 150 *39,050	*17 150 *37,700	14 800 31,750	8850 19,000	9250 19,850	5850 12,550					7600 16,750	4900 10,750	6860 270
-3000 mm -120 in	kg lb	*18 350 *39,700	17 950 38,400	*13 200 *28,400	9000 19,300							*9550 *21,050	6150 13,700	5870 230



ISO 10567

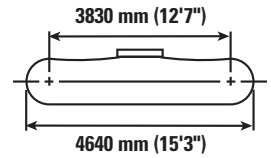
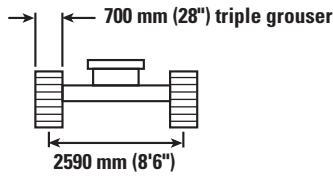
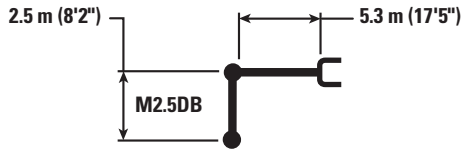













*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories must be deducted from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

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*7900 *17,650	*7900 *17,650	5010 200
6000 mm 240 in	kg lb					*8250 *18,150	6900 14,800			*7200 *15,900	6250 14,050	6350 250
4500 mm 180 in	kg lb			*9850 *21,300	*9850 *21,300	*8650 *18,850	6750 14,550			*7050 *15,550	5100 11,300	7140 280
3000 mm 120 in	kg lb			*12 200 *26,350	10 050 21,600	*9650 *20,900	6500 13,950	7000	4600	6950 15,300	4550 10,050	7540 300
1500 mm 60 in	kg lb			*14 400 *31,050	9400 20,200	9650 20,800	6200 13,300	6850 14,750	4500 9,600	6700 14,750	4350 9,600	7630 300
0 mm 0 in	kg lb			15 150 32,450	9050 19,500	9450 20,300	6000 12,900			6900 15,200	4500 9,850	7410 300
-1500 mm -60 in	kg lb	*17 150 *39,050	*17 150 38,300	*15 000 32,300	9000 19,300	9400 20,150	5950 12,800			7700 17,050	4950 10,950	6860 270
-3000 mm -120 in	kg lb	*18 350 *39,700	18 250 39,050	*13 200 *28,400	9150 19,650					*9550 *21,050	6250 13,900	5870 230



ISO 10567



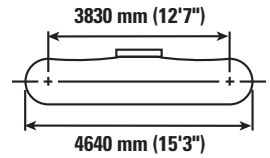
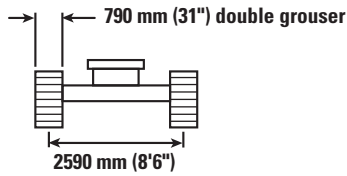
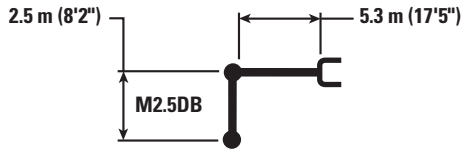
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Lift capacity stays with $\pm 5\%$ for all available track shoes.

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

324E L Hydraulic Excavator Specifications

324E L Mass Boom Lift Capacities – Standard Counterweight: 4.0 mt (4.4 t) – without Bucket



		3000 mm/120 in		4500 mm/180 in		6000 mm/240 in		7500 mm/300 in				mm in
												
7500 mm 300 in	kg lb									*7900 *17,650	*7900 *17,650	5010 200
6000 mm 240 in	kg lb					*8250 *18,150	7000 14,950			*7200 *15,900	6350 14,200	6350 250
4500 mm 180 in	kg lb			*9850 *21,300	*9850 *21,300	*8650 *18,850	6850 14,650			*7050 *15,550	5150 11,400	7140 280
3000 mm 120 in	kg lb			*12 200 *26,350	10 100 21,800	*9650 *20,900	6550 14,050	7050	4650	7000 15,450	4600 10,150	7540 300
1500 mm 60 in	kg lb			*14 400 *31,050	9500 20,400	9750 21,000	6250 13,450	6950 14,900	4500 9,700	6750 14,900	4400 9,700	7630 300
0 mm 0 in	kg lb			15 300 32,800	9150 19,650	9550 20,500	6050 13,000			6950 15,350	4550 9,950	7410 300
-1500 mm -60 in	kg lb	*17 150 *39,050	*17 150 38,700	*15 000 *32,550	9100 19,500	9500 20,400	6000 12,900			7800 17,200	5000 11,050	6860 270
-3000 mm -120 in	kg lb	*18 350 *39,700	*18 350 39,400	*13 200 *28,400	9200 19,850					*9550 *21,050	6300 14,050	5870 230



ISO 10567



*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads meet 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.

Work Tool Offering Guide*

Boom Type	HD Reach Booms		Mass Boom
	HD R2.95	HD R2.5	M2.5
Hydraulic Hammer	H120E s H130E s H140E s***	H120E s H130E s H140E s***	H120E s H130E s*** H140E s***
Multi-Processor	MP15 CC Jaw MP15 CR Jaw MP15 PP Jaw MP15 PS Jaw MP15 S Jaw MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw ^^ MP20 PS Jaw MP20 S Jaw MP20 TS Jaw ^^	MP15 CC Jaw MP15 CR Jaw MP15 PP Jaw MP15 PS Jaw MP15 S Jaw MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw MP20 PS Jaw MP20 S Jaw MP20 TS Jaw	MP20 CC Jaw MP20 CR Jaw MP20 PP Jaw MP20 PS Jaw MP20 S Jaw MP20 TS Jaw
Crusher	P315 P325***	P315 P325***	P325
Pulverizer	P215 P225	P215 P225	P225
Demolition and Sorting Grapple	G320B	G320B	G320B G325B
Mobile Scrap and Demolition Shear	S320B S340B###	S320B S340B###	S320B S325B*** S340B###
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Orange Peel Grapple			
Thumbs			
Rakes			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

These work tool are available for the 324E L.
Consult your Cat dealer for proper match.

* Matches are dependent on excavator configurations. Consult your Cat dealer for proper work tool match.

** Pin-on or CW coupler

*** Pin-on only

Over the front only

Boom mount

^ Over the front only with CW coupler

^^ Over the front only with CL coupler

324E L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility

	Linkage	Width		Capacity		Weight		Fill	Reach Boom (HD)		Mass Boom
		mm	in	m ³	yd ³	kg	lb		%	R2.5 HD (8'2")	R2.95 HD (9'8")
Without Quick Coupler									324E L		
Ditch Cleaning (DC)	A	1238	49	0.57	0.75	289	637	100			
	A	770	30	0.69	0.90	377	830	100			
General Duty (GD)	CB	600	24	0.63	0.83	724	1,595	100	●	●	
	CB	750	30	0.86	1.13	810	1,785	100	●	●	
	CB	900	36	1.09	1.43	907	1,998	100	●	●	
	CB	1050	42	1.34	1.75	979	2,157	100	●	◎	
	CB	1200	48	1.58	2.07	1070	2,358	100	●	⊙	
	CB	1350	54	1.83	2.40	1164	2,564	100	⊙	⊖	
Heavy Duty (HD)	CB	600	24	0.52	0.68	763	1,681	100	●	●	
	CB	750	30	0.71	0.93	847	1,866	100	●	●	
	CB	900	36	0.91	1.19	935	2,061	100	●	●	
	CB	1050	42	1.12	1.46	1024	2,256	100	●	●	
	CB	1200	48	1.33	1.74	1095	2,413	100	●	●	
	CB	1350	54	1.54	2.02	1188	2,618	100	●	◎	
Severe Duty (SD)	DB	1500	60	1.88	2.46	1624	3,579	100			⊖
	CB	600	24	0.52	0.68	810	1,784	90	●	●	
	CB	750	30	0.71	0.93	902	1,987	90	●	●	
	CB	900	36	0.91	1.19	999	2,202	90	●	●	
	CB	1050	42	1.12	1.46	1097	2,417	90	●	●	
CB	1200	48	1.33	1.74	1178	2,595	90	●	●		
Maximum load pin-on (payload + bucket)								kg	4405	4030	4750
								lb	9,709	8,882	10,469
Maximum Standard Bucket Width								in	54	54	66
With Center-Lock Coupler									324E L		
General Duty (GD)	CB	600	24	0.63	0.83	724	1,595	100	●	●	
	CB	750	30	0.86	1.13	810	1,785	100	●	●	
	CB	900	36	1.09	1.43	907	1,998	100	●	●	
	CB	1050	42	1.34	1.75	979	2,157	100	●	◎	
	CB	1200	48	1.58	2.07	1070	2,358	100	⊙	⊖	
	CB	1350	54	1.83	2.40	1164	2,564	100	⊖	○	
Heavy Duty (HD)	CB	600	24	0.52	0.68	763	1,681	100	●	●	
	CB	750	30	0.71	0.93	847	1,866	100	●	●	
	CB	900	36	0.91	1.19	935	2,061	100	●	●	
	CB	1050	42	1.12	1.46	1024	2,256	100	●	●	
	CB	1200	48	1.33	1.74	1095	2,413	100	●	◎	
	CB	1350	54	1.54	2.02	1188	2,618	100	⊙	⊖	
Severe Duty (SD)	DB	1500	60	1.88	2.46	1624	3,579	100			○
	CB	600	24	0.52	0.68	810	1,784	90	●	●	
	CB	750	30	0.71	0.93	902	1,987	90	●	●	
	CB	900	36	0.91	1.19	999	2,202	90	●	●	
	CB	1050	42	1.12	1.46	1097	2,417	90	●	●	
CB	1200	48	1.33	1.74	1178	2,595	90	●	◎		
Maximum load pin-on (payload + bucket)								kg	3900	3525	4192
								lb	8,597	7,770	9,239
Maximum Standard Bucket Width								in	54	54	66

The above loads are in compliance with hydraulic excavator standard EN474, they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity over the side with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- 2100 kg/m³ (3,500 lb/yd³)
- ◎ 1800 kg/m³ (3,000 lb/yd³)
- ⊖ 1500 kg/m³ (2,500 lb/yd³)
- 1200 kg/m³ (2,000 lb/yd³)

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.