

316E L

Hydraulic Excavator



Engine

Engine Model	Cat® C4.4 ACERT™	
Engine Power – ISO 14396	89 kW	119 hp

Drive

Maximum Travel Speed	5.2 km/h	3.2 mph
Maximum Drawbar Pull	156.2 kN	35,115 lbf

Weights

Minimum Operating Weight	17 200 kg	37,920 lb
Maximum Operating Weight	17 800 kg	39,242 lb

316E L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C4.4 ACERT	
Engine Power – ISO 14396	89 kW	119 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³

Weights

Minimum Operating Weight*	17 200 kg	37,920 lb
Maximum Operating Weight**	17 800 kg	39,242 lb

*Long Undercarriage, 5.1 m (16'9") reach boom, R2.25m (7'5") stick, 2.8 mt (3.09 t) counterweight, 0.76 m³ (0.994 yd³) bucket, 500 mm (20") TG shoes.

**Long Undercarriage, 5.1 m (16'9") reach boom, R2.9m (9'6") stick, 2.8 mt (3.09 t) counterweight, 0.76 m³ (0.994 yd³) bucket, 700 mm (28") TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	2 × 150 L/min	2 × 40 gal/min
Maximum Pressure – Equipment	35 000 kPa	5,076 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	22 600 kPa	3,278 psi
Pilot System – Maximum Flow	25.8 L/min	1,574 in ³ /min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1193 mm	47 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1331 mm	52 in
Bucket Cylinder – Bore	110 mm	4 in
Bucket Cylinder – Stroke	1039 mm	41 in

Drive

Maximum Travel Speed	5.2 km/h	3.2 mph
Maximum Drawbar Pull	156.2 kN	35,115 lbf

Swing Mechanism

Swing Speed	9.3 rpm	
Swing Torque	44.7 kN·m	32,969 lbf-ft

Service Refill Capacities

Fuel Tank Capacity	290 L	76.61 gal
Cooling System	24 L	6.34 gal
Engine Oil (with filter)	13.5 L	3.57 gal
Swing Drive (each)	2.4 L	0.63 gal
Final Drive (each)	5 L	1.32 gal
Hydraulic System (including tank)	190 L	50.19 gal
Hydraulic Tank	106 L	28.00 gal

Track

Number of Shoes (each side)	44 pieces
Number of Track Rollers (each side)	7 pieces
Number of Carrier Rollers (each side)	2 pieces

Sound Performance

ISO 6396	
Operator Sound	71 dB(A)

ISO 6395	
Spectator Sound	101 dB(A)

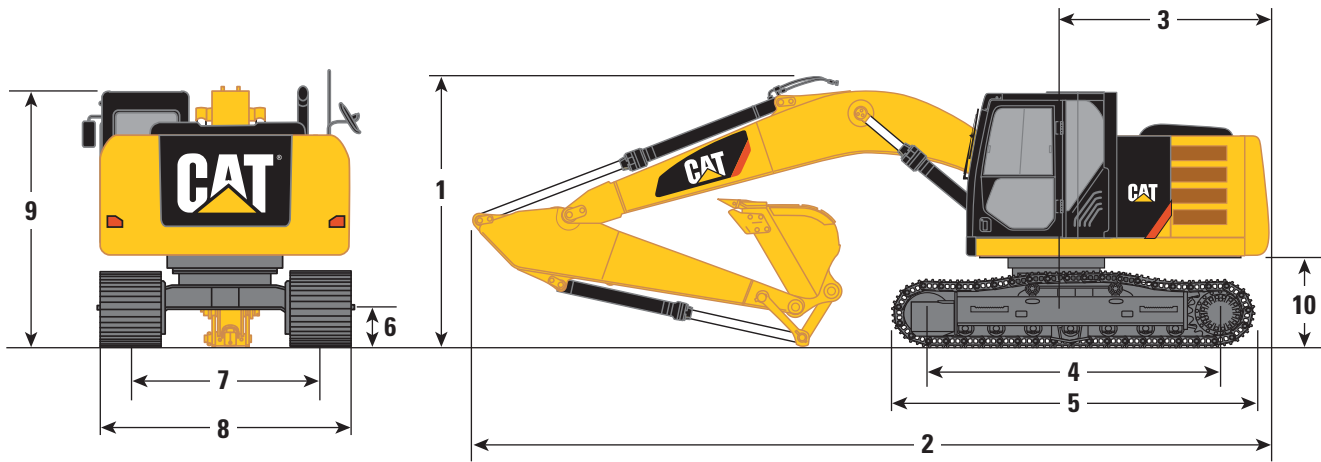
- Operator Sound – The operator sound level is measured according to the procedures specified in ISO 6394:1998, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2004/14/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
ROPS Cab	ISO 12117-2
Cab/OPG	ISO 10262 1998

Dimensions

All dimensions are approximate.



Reach Boom 5.1 m (16'9")

Stick	R2.9 (9'6")	R2.6 (8'6")	R2.25 (7'4")
1 Shipping Height*	3090 mm (10'2")	3090 mm (10'2")	3090 mm (10'2")
Shipping Height at Boom Top	3080 mm (10'1")	3020 mm (9'11")	2920 mm (9'7")
Shipping Height with Guard Rail	3090 mm (10'2")	3090 mm (10'2")	3090 mm (10'2")
Shipping Height with Top Guard	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
2 Shipping Length	8580 mm (28'2")	8570 mm (28'1")	8550 mm (28'1")
3 Tail Swing Radius	2500 mm (8'2")	2500 mm (8'2")	2500 mm (8'2")
4 Length to Center of Rollers	3170 mm (10'5")	3170 mm (10'5")	3170 mm (10'5")
5 Track Length	3970 mm (13'0")	3970 mm (13'0")	3970 mm (13'0")
6 Ground Clearance	440 mm (1'5")	440 mm (1'5")	440 mm (1'5")
7 Track Gauge	1990 mm (6'6")	1990 mm (6'6")	1990 mm (6'6")
8 Transport Width			
500 mm (20") Shoes	2520 mm (8'3")	2520 mm (8'3")	2520 mm (8'3")
600 mm (24") Shoes	2590 mm (8'6")	2590 mm (8'6")	2590 mm (8'6")
700 mm (28") Shoes	2690 mm (8'10")	2690 mm (8'10")	2690 mm (8'10")
9 Cab Height	2890 mm (9'6")	2890 mm (9'6")	2890 mm (9'6")
Cab Height with Top Guard	3100 mm (10'2")	3100 mm (10'2")	3100 mm (10'2")
10 Counterweight Clearance**	1010 mm (3'4")	1010 mm (3'4")	1010 mm (3'4")
Bucket Capacity (General Duty)	0.76 m ³ (0.994 yd ³)	0.76 m ³ (0.994 yd ³)	0.76 m ³ (0.994 yd ³)
Bucket Tip Radius	1380 mm (4'6")	1380 mm (4'6")	1380 mm (4'6")

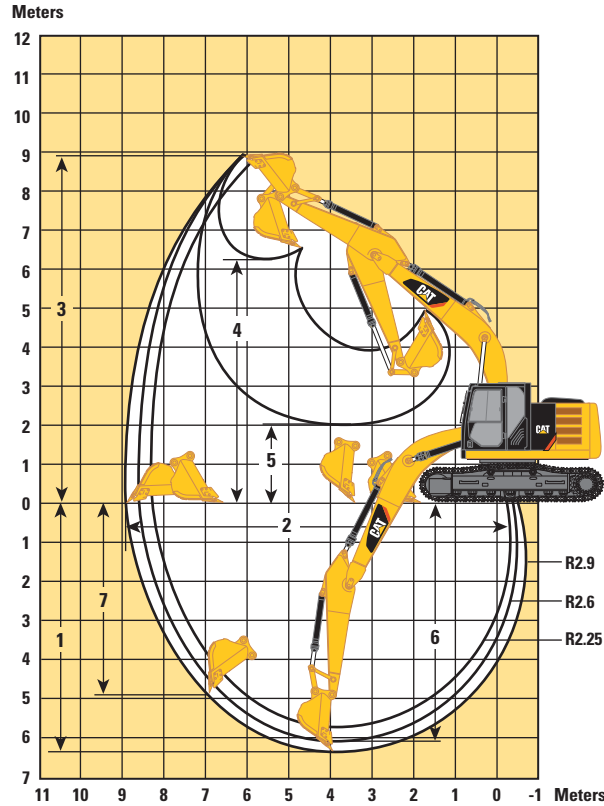
*Including shoe lug height.

**Without shoe lug height.

316E L Hydraulic Excavator Specifications

Working Ranges

All dimensions are approximate.



Stick	Reach Boom 5.1 m (16'9")		
	R2.9 (9'6")	R2.6 (8'6")	R2.25 (7'4")
1 Maximum Digging Depth	6390 mm (21'0")	6090 mm (20'0")	5740 mm (18'11")
2 Maximum Reach at Ground Level	8990 mm (29'6")	8780 mm (28'10")	8460 mm (27'9")
3 Maximum Cutting Height	8880 mm (29'2")	8920 mm (29'3")	8740 mm (28'8")
4 Maximum Loading Height	6270 mm (20'7")	6280 mm (20'7")	6110 mm (20'1")
5 Minimum Loading Height	2000 mm (6'7")	2300 mm (7'7")	2650 mm (8'8")
6 Maximum Depth Cut for 2440 mm (8'0'') Level Bottom	6160 mm (20'3")	5870 mm (19'3")	5500 mm (18'1")
7 Maximum Vertical Wall Digging Depth	4910 mm (16'1")	4930 mm (16'2")	4490 mm (14'9")

Operating Weight and Ground Pressure

	700 mm (28") Triple Grouser Shoes				600 mm (24") Triple Grouser Shoes				500 mm(20") Triple Grouser Shoes			
	kg	lb	kPa	psi	kg	lb	kPa	psi	kg	lb	kPa	psi
	Reach Boom – 5.10 m (16'9")											
R2.9 (9'6")	17 800	39,242	36	5.22	17 600	38,801	42	6.09	17 300	38,140	49	7.11
R2.6 (8'6")	17 700	39,022	36	5.22	17 500	38,581	41	5.95	17 300	38,140	49	7.11
R2.25 (7'4")	17 700	39,022	36	5.22	17 500	38,581	41	5.95	17 200	37,920	49	7.11

All weights are rounded up to nearest 100 kg and lb including General Duty 0.76 m³ (0.994 yd³) bucket (610 kg [1,344.8 lb]). Kg and lb were rounded up separately so some of the kg and lb do not match.

Actual weight will depend on final machine configuration.

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	5720 kg	12,610 lb
Long Undercarriage	3770 kg	8,310 lb
Counterweight – 2.8 mt (3.09 t)	2800 kg	6,170 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 5.10 m (16'9")	1320 kg	2,910 lb
Stick (includes lines, pins, bucket cylinder, and bucket linkage)		
R2.9 (9'6")	910 kg	2,010 lb
R2.6 (8'6")	840 kg	1,850 lb
R2.25 (7'4")	810 kg	1,790 lb
Track Shoe (Long/per two tracks)		
500 mm (20") Triple Grouser	2190 kg	4,830 lb
600 mm (24") Triple Grouser	2420 kg	5,340 lb
700 mm (28") Triple Grouser	2650 kg	5,840 lb

All weights are round 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.

Actual weight will depend on final machine configuration.

316E L Hydraulic Excavator Specifications

Bucket and Stick Forces

Stick	Reach Boom 5.10 m (16'9")					
	R2.9 (9'6")		R2.6 (8'6")		R2.25 (7'4")	
General Duty						
Bucket Digging Force (ISO)	111 kN	25,000 lb	111 kN	25,000 lb	111 kN	25,000 lb
Stick Digging Force (ISO)	75 kN	16,900 lb	80 kN	18,000 lb	88 kN	19,800 lb

316E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.9 (9'6")

Shoes – 500 mm (20") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m 25.0 ft	kg lb											*2950 *6,500	*2950 *6,500	5.08 16.21
6.0 m 20.0 ft	kg lb							*3650 *7,350	3350 7,150			*2650 *5,800	*2650 *5,800	6.43 20.89
4.5 m 15.0 ft	kg lb							*4050 *8,850	3300 7,050			*2550 *5,650	2400 5,350	7.23 23.63
3.0 m 10.0 ft	kg lb			*8000 *17,000	*8000 *17,000	*5500 *11,900	4800 10,400	*4600 *10,000	3150 6,750	*3300 *6,050	2200 4,750	*2650 *5,800	2150 4,700	7.66 25.09
1.5 m 5.0 ft	kg lb			*7100 *17,000	*7100 *17,000	*6900 *14,900	4450 9,600	4850 10,450	3000 6,400	3500 7,500	2150 4,600	*2850 *6,250	2050 4,450	7.77 25.48
Ground Line	kg lb			*7050 *16,150	*7050 *16,150	7300 15,650	4200 9,050	4750 10,150	2850 6,100	3450	2100	*3200 *7,050	2050 4,500	7.58 24.87
-1.5 m -5.0 ft	kg lb	*5700 *12,750	*5700 *12,750	*10,100 *22,900	7550 16,150	7200 15,400	4100 8,850	4650 10,000	2800 6,000			3700 8,150	2250 4,950	7.07 23.16
-3.0 m -10.0 ft	kg lb	*9300 *20,850	*9300 *20,850	*11,100 *23,950	7650 16,400	7200 15,450	4150 8,900	4700 10,100	2800 6,050			4550 10,050	2750 6,050	6.16 20.07
-4.5 m -15.0 ft	kg lb			*8550 *18,150	7950 17,050	*5700	4350					*5550 *12,150	4200 9,550	4.60 14.75

Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.25 (7'4")

Shoes – 600 mm (24") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft				
												m ft
7.5 m 25.0 ft	kg lb									*3950 *3950	4.23	
6.0 m 20.0 ft	kg lb					*9,600 *9,600				*3400 *7,500	*3400 *7,500	5.79 18.75
4.5 m 15.0 ft	kg lb					*5000 *10,850	*5000 *10,850	*4600 *10,000	3300 7,000	*3250 *7,200	2750 6,100	6.67 21.77
3.0 m 10.0 ft	kg lb					*6250 *13,450	4750 10,300	*5050 10,900	3150 6,750	*3350 *7,300	2450 5,350	7.12 23.34
1.5 m 5.0 ft	kg lb					*7450 *16,100	4450 9,600	4900 10,550	3000 6,500	*3550 *7,850	2300 5,050	7.24 23.76
Ground Line	kg lb			*5600 *12,950	*5600 *12,950	7400 15,850	4300 9,200	4800 10,350	2900 6,250	3850 8,450	2350 5,150	7.04 23.10
-1.5 m -5.0 ft	kg lb	*6100 *13,600	*6100 *13,600	*10,800 *24,600	7800 16,750	7350 15,750	4250 9,150	4800 10,300	2900 6,200	4300 9,450	2600 5,750	6.49 21.25
-3.0 m -10.0 ft	kg lb			*10,150 *21,900	7950 17,100	*7150 *15,300	4300 9,300			5550 *12,250	3350 7,400	5.48 17.83

*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 within ± 5% for all available track shoes.

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

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side















Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.6 (8'6")

Shoes – 600 mm (24") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				m ft
														
7.5 m 25.0 ft	kg lb					*7,500 *7,500						*3250 *7,300	*3250 *7,300	4.76 15.09
6.0 m 20.0 ft	kg lb							*3500 *6,450	3350 *6,450			*2850 *6,350	*2850 *6,350	6.18 20.05
4.5 m 15.0 ft	kg lb					*4600 *10,000	*4600 *10,000	*4300 *9,400	3300 7,100			*2750 *6,100	2550 5,700	7.01 22.89
3.0 m 10.0 ft	kg lb			*8850 *18,850	*8850 *18,850	*5900 *12,650	4850 10,400	*4800 *10,450	3200 6,850			*2800 *6,200	2300 5,000	7.44 24.39
1.5 m 5.0 ft	kg lb					*7200 *15,550	4500 9,700	4950 10,600	3050 6,500	*3400	2200	*3000 *6,600	2150 4,750	7.56 24.80
Ground Line	kg lb			*6250 *14,400	*6250 *14,400	7400 15,900	4300 9,250	4800 10,350	2900 6,250			*3400 *7,450	2200 4,850	7.36 24.16
-1.5 m -5.0 ft	kg lb	*5750 *12,800	*5750 *12,800	*10 150 *23,100	7750 16,600	7350 15,700	4200 9,100	4750 10,250	2850 6,150			3950 8,750	2400 5,350	6.84 22.40
-3.0 m -10.0 ft	kg lb	*9950 *22,400	*9950 *22,400	*10 750 *23,200	7850 16,900	7400 15,850	4250 9,200					4950 11,000	3000 6,650	5.89 19.19
-4.5 m -15.0 ft	kg lb			*7750 *16,300	*7750 *16,300							*5400 *11,900	4900 11,200	4.23 13.51















Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.9 (9'6")

Shoes – 600 mm (24") triple grouser

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				m ft
														
7.5 m 25.0 ft	kg lb											*2950 *6,500	*2950 *6,500	5.08 16.21
6.0 m 20.0 ft	kg lb							*3650 *7,350	3400 7,250			*2650 *5,800	*2650 *5,800	6.43 20.89
4.5 m 15.0 ft	kg lb							*4050 *8,850	3350 7,150			*2550 *5,650	2450 5,400	7.23 23.63
3.0 m 10.0 ft	kg lb			*8000 *17,000	*8000 *17,000	*5500 *11,900	4900 10,500	*4600 *10,000	3200 6,850	*3300 *6,050	2250 4,800	*2650 *5,800	2150 4,800	7.66 25.09
1.5 m 5.0 ft	kg lb			*7100 *17,000	*7100 *17,000	*6900 *14,900	4500 9,700	4950 10,600	3000 6,500	3550 7,600	2200 4,650	*2850 *6,250	2050 4,550	7.77 25.48
Ground Line	kg lb			*7050 *16,150	*7050 *16,150	7400 15,850	4250 9,150	4800 10,300	2900 6,200	3500	2100	*3200 *7,050	2100 4,600	7.58 24.87
-1.5 m -5.0 ft	kg lb	*5700 *12,750	*5700 *12,750	*10 100 *22,900	7650 16,350	7250 15,600	4150 8,950	4700 10,150	2800 6,050			3750 8,250	2300 5,000	7.07 23.16
-3.0 m -10.0 ft	kg lb	*9300 *20,850	*9300 *20,850	*11 100 *23,950	7750 16,600	7300 15,650	4200 9,000	4750 10,250	2850 6,150			4600 10,200	2750 6,100	6.16 20.07
-4.5 m -15.0 ft	kg lb			*8550 *18,150	8000 17,250	*5700	4400					*5550 *12,150	4250 9,650	4.60 14.75

*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 within ± 5% for all available track shoes.

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

316E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.25 (7'4")

Shoes – 700 mm (28") triple grouser with step

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft				m ft
7.5 m 25.0 ft	kg lb									*3950	*3950	4.23
6.0 m 20.0 ft	kg lb					*9,600	*9,600			*3400	*3400	5.79 18.75
4.5 m 15.0 ft	kg lb					*5000 *10,850	*5000 *10,850	*4600 *10,000	3300 7,100	*3250 *7,200	2800 6,200	6.67 21.77
3.0 m 10.0 ft	kg lb					*6250 *13,450	4850 10,400	*5050 *10,950	3200 6,850	*3350 *7,300	2450 5,400	7.12 23.34
1.5 m 5.0 ft	kg lb					*7450 *16,100	4500 9,750	5000 10,700	3050 6,550	*3550 *7,850	2350 5,150	7.24 23.76
Ground Line	kg lb			*5600 *12,950	*5600 *12,950	7500 16,100	4350 9,350	4900 10,500	2950 6,350	3900 8,550	2400 5,250	7.04 23.10
-1.5 m -5.0 ft	kg lb	*6100 *13,600	*6100 *13,600	*10,800 *24,600	7900 16,950	7450 16,000	4300 9,250	4850 10,450	2950 6,300	4350 9,600	2650 5,850	6.49 21.25
-3.0 m -10.0 ft	kg lb			*10,150 *21,900	8050 17,300	*7150 *15,300	4400 9,400			*5550 *12,250	3400 7,500	5.48 17.83

Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.6 (8'6")

Shoes – 700 mm (28") triple grouser with step

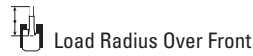
		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft		m ft		
7.5 m 25.0 ft	kg lb					*7,500	*7,500					*3250 *7,300	*3250 *7,300	4.76 15.09
6.0 m 20.0 ft	kg lb							*3500 *6,450	3400 *6,450			*2850 *6,350	*2850 *6,350	6.18 20.05
4.5 m 15.0 ft	kg lb					*4600 *10,000	*4600 *10,000	*4300 *9,400	3350 7,200			*2750 *6,100	2600 5,750	7.01 22.89
3.0 m 10.0 ft	kg lb			*8850 *18,850	*8850 *18,850	*5900 *12,650	4900 10,550	*4800 *10,450	3200 6,900			*2800 *6,200	2300 5,100	7.44 24.39
1.5 m 5.0 ft	kg lb					*7200 *15,550	4550 9,800	5000 10,750	3050 6,600	*3400	2250	*3000 *6,600	2200 4,800	7.56 24.80
Ground Line	kg lb			*6250 *14,400	*6250 *14,400	7500 16,100	4350 9,350	4900 10,500	2950 6,350			*3400 *7,450	2250 4,900	7.36 24.16
-1.5 m -5.0 ft	kg lb	*5750 *12,800	*5750 *12,800	*10,150 *23,100	7850 16,850	7450 15,950	4300 9,200	4800 10,350	2900 6,250			4050 8,850	2450 5,400	6.84 22.40
-3.0 m -10.0 ft	kg lb	*9950 *22,400	*9950 *22,400	*10,750 *23,200	8000 17,100	*7450 *16,000	4350 9,300					5000 11,150	3050 6,750	5.89 19.19
-4.5 m -15.0 ft	kg lb			*7750 *16,300	*7750 *16,300							*5400 *11,900	4950 11,350	4.23 13.51

*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 within ± 5% for all available track shoes.

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

Reach Boom Lift Capacities

















Boom – 5.10 m (16'9")

Counterweight – 2.8 mt (3.09 t)

Bucket – None

Stick – R2.9 (9'6")

Shoes – 700 mm (28") triple grouser with step

		1.5 m/5 ft		3.0 m/10 ft		4.5 m/15 ft		6.0 m/20 ft		7.5 m/25 ft				
														m ft
7.5 m 25.0 ft	kg lb											*2950 *6,500	*2950 *6,500	5.08 16.21
6.0 m 20.0 ft	kg lb							*3650 *7,350	3450 7,350			*2650 *5,800	*2650 *5,800	6.43 20.89
4.5 m 15.0 ft	kg lb							*4050 *8,850	3350 7,250			*2550 *5,650	2500 5,450	7.23 23.63
3.0 m 10.0 ft	kg lb			*8000 *17,000	*8000 *17,000	*5500 *11,900	4950 10,600	*4600 *10,000	3200 6,900	*3300 *6,050	2300 4,850	*2650 *5,800	2200 4,850	7.66 25.09
1.5 m 5.0 ft	kg lb			*7100 *17,000	*7100 *17,000	*6900 *14,900	4550 9,850	5000 10,750	3050 6,550	3600 7,700	2200 4,750	*2850 *6,250	2100 4,600	7.77 25.48
Ground Line	kg lb			*7050 *16,150	*7050 *16,150	7500 16,050	4300 9,300	4850 10,450	2950 6,300	3500	2150	*3200 *7,050	2100 4,650	7.58 24.87
-1.5 m -5.0 ft	kg lb	*5700 *12,750	*5700 *12,750	*10 100 *22,900	7750 16,600	7350 15,800	4200 9,100	4800 10,300	2850 6,150			3800 8,400	2300 5,100	7.07 23.16
-3.0 m -10.0 ft	kg lb	*9300 *20,850	*9300 *20,850	*11 100 *23,950	7850 16 800	7400 15,900	4250 9,150	4800 10,350	2900 6,250			4650 10,300	2800 6,200	6.16 20.07
-4.5 m -15.0 ft	kg lb			*8550 *18,150	8100 17,450	*5700	4450					*5550 *12,150	4300 9,800	4.60 14.75

*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 within ± 5% for all available track shoes.

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

316E L Hydraulic Excavator Specifications

316E L Work Tool Offering Guide*

Boom Type	Reach Boom			
	Stick Size	R2.9 (9'6")	R2.6 (8'6")	R2.25 (7'4")
Hydraulic Hammer		H110Es H115Es H120Es	H110Es H115Es H120Es	H110Es H115Es H120Es
Multi-Processor				MP15 CC Jaw *** **** MP15 CR Jaw *** **** MP15 PS Jaw *** **** MP15 S Jaw ***
Crusher				P315 *** ****
Pulverizer				P215 ** #
Demolition and Sorting Grapple		G310B **	G310B	G310B G315B *** ****
Mobile Scrap and Demolition Shear		S325 ##	S325 ##	S325 ##
Compactor (Vibratory Plate)		CVP75	CVP75	CVP75
Contractors' Grapple		G115B	G115B	G115B
Orange Peel Grapple				
Trash Grapple				
Thumbs				
Rakes				
Center-Lock Pin Grabber Coupler				
Dedicated Quick Coupler				

These work tools are available for the 316E L.
Consult your Cat dealer for proper match.

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

**Pin-on or CW coupler.

***Pin-on only.

****Over the front only.

#Over the front only with CW coupler.

##Boom Mount.

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Boom		
	mm	in	m ³	yd ³	kg	lb	%	R2.9	R2.6	R2.25
With Centerlock Quick Coupler										
General Duty (GD)	500	20	0.30	0.39	403	888	100%	●	●	●
	600	24	0.35	0.46	433	954	100%	●	●	●
	750	30	0.49	0.64	476	1049	100%	●	●	●
	900	36	0.62	0.81	537	1184	100%	⊙	●	●
	1050	42	0.76	1.00	590	1301	100%	⊖	⊖	⊙
	1200	48	0.91	1.19	645	1422	100%	○	○	⊖
Maximum load pin-on (payload + bucket)							kg	1705	1815	1950
							lb	3,758	4,000	4,298

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 with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Densities with 3.0 m (9'10") thumb stick do not consider thumb weight.

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.

316E L Standard Equipment

Standard Equipment

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

ENGINE

- C4.4 ACERT diesel engine
- Biodiesel capable
- Meets European Union Stage IIIB and U.S. Tier 4 Interim emission standards
- 2300 m altitude capability
- Electric priming pump
- Automatic engine speed control
- Economy and high power modes
- Two-speed travel
- Side-by-side cooling system (tilt-up ATAAC, swing-out A/C condenser)
- Radial seal air filter
- Primary filter with water separator and water separator indicator
- Standard battery, -18° C (-0.4° F)
- Screen filter in fuel line
- Secondary fuel filter

HYDRAULIC SYSTEM

- Quick drains, engine and hydraulic oil (QuickEvac)
- Regeneration circuit for boom and stick
- Reverse swing dampening valve
- Automatic swing parking brake
- High-performance hydraulic return filter
- Capability of installing HP stackable valve and medium and QC valve
- Capability of installing additional auxiliary pump and circuit

CAB

- Pressurized operator station with positive filtration
- Mirror package
- Sliding upper door window (left-hand cab door)
- Glass-breaking safety hammer
- Removable lower windshield with in cab storage bracket
- Coat hook
- Beverage holder
- Literature holder
- AM/FM Radio with MP3 auxiliary audio port
- Two 12V stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with warning, filter/fluid change, and working hour information
- Adjustable armrest
- Height adjustable joystick consoles
- Neutral lever (lock out) for all controls
- Travel control pedals with removable hand levers
- Two power outlets, 10 amp (total)
- Laminated glass front window, 70/30 split (tempered glass for bottom front window)
- Sunscreen
- Seatbelt (76 mm [3"])
- Windshield wiper, lower with washer
- Seat, high-back air suspension heated and cooled
- Cab mirror
- Level sensor

FRONT LINKAGE

- Bucket linkage, with lifting eye

UNDERCARRIAGE

- Grease Lubricated Track GLT2, resin seal
- Towing eye on base frame
- Swivel guard

COUNTERWEIGHT

- 2.8 mt (3.09 t)

ELECTRICAL

- 80 amp alternator
- Circuit breaker
- Capability to electrically connect a beacon

LIGHTS

- Halogen boom lights (left and right)
- Time delay function for boom light and cab light
- Exterior lights integrated into storage box

SECURITY

- Cat one key security system
- Door locks
- Cap locks on fuel and hydraulic tanks
- Lockable external tool/storage box
- Signaling/warning horn
- Secondary engine shutoff switch
- Openable skylight for emergency exit
- Guardrail and handrail
- Rearview camera
- Travel alarm

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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