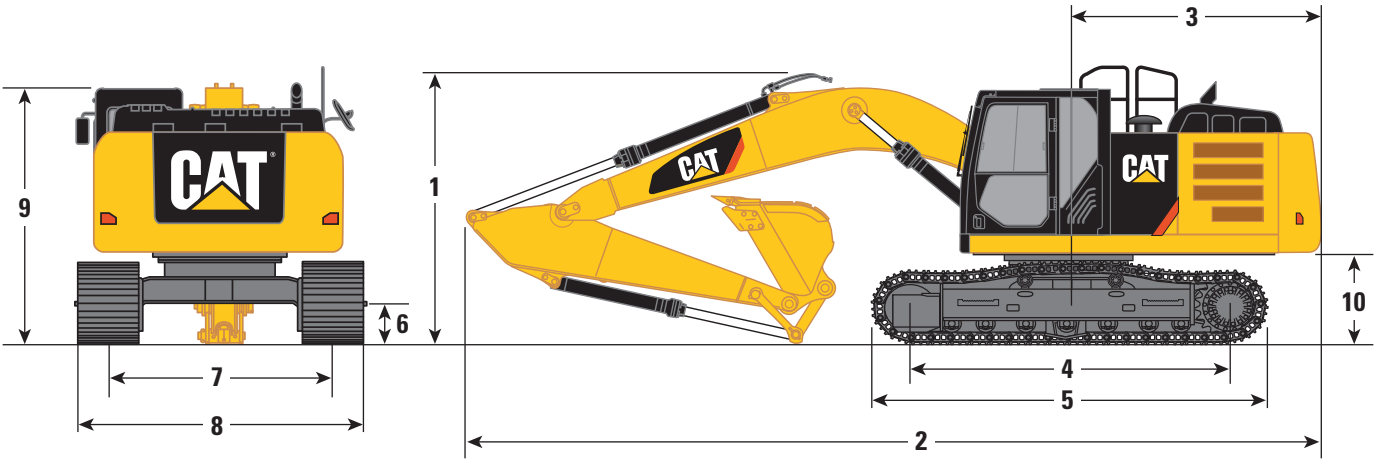


318E Hydraulic Excavator

Dimensions

All dimensions are approximate.



Stick	Reach Boom 5.1 m (16'9")			
	R3.1 m (10'2")		R2.6 m (8'6")	
1 Shipping Height*	3390 mm	11'1"	3100 mm	10'2"
Shipping Height at Boom Top	3390 mm	11'1"	3040 mm	10'0"
Shipping Height with Guard Rail	3100 mm	10'2"	3100 mm	10'2"
Shipping Height with Top Guard	3100 mm	10'2"	3100 mm	10'2"
2 Shipping Length	8580 mm	28'2"	8570 mm	28'1"
3 Tail Swing Radius	2500 mm	8'2"	2500 mm	8'2"
4 Length to Center of Rollers	3265 mm	10'9"	3265 mm	10'9"
5 Track Length	4075 mm	13'4"	4075 mm	13'4"
6 Ground Clearance	440 mm	1'5"	440 mm	1'5"
7 Track Gauge	1990 mm	6'6"	1990 mm	6'6"
8 Transport Width				
500 mm (20") Shoes	2520 mm	8'3"	2520 mm	8'3"
600 mm (24") Shoes	2590 mm	8'6"	2590 mm	8'6"
700 mm (28") Shoes	2690 mm	8'10"	2690 mm	8'10"
9 Cab Height	2890 mm	9'6"	2890 mm	9'6"
Cab Height with Top Guard	3100 mm	10'2"	3100 mm	10'2"
10 Counterweight Clearance**	1010 mm	3'4"	1010 mm	3'4"

*Including shoe lug height.

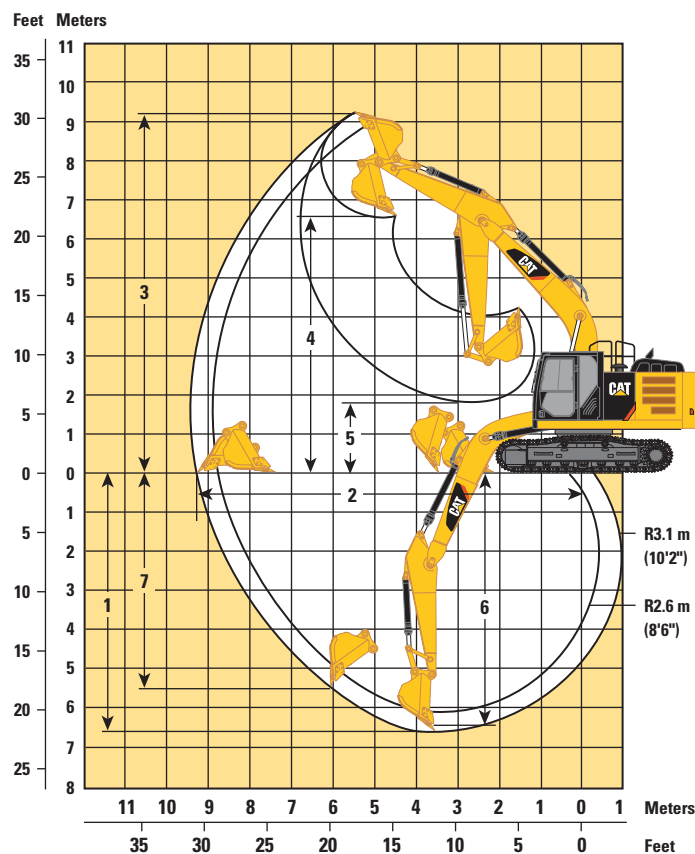
**Without shoe lug height.

Reach boom dimensions were calculated with 1200 mm (48") width, GD 0.91 m³ (1.19 yd³ bucket) with 1380 mm (4'5") tip radius.

318E Hydraulic Excavator

Working Ranges

All dimensions are approximate.



Stick	Reach Boom 5.1 m (16'9")			
	R3.1 m (10'2")		R2.6 m (8'6")	
1 Maximum Digging Depth	6590 mm	21'7"	6090 mm	20'0"
2 Maximum Reach at Ground Level	9260 mm	30'5"	8780 mm	28'10"
3 Maximum Cutting Height	9220 mm	30'3"	8930 mm	29'4"
4 Maximum Loading Height	6570 mm	21'7"	6280 mm	20'7"
5 Minimum Loading Height	1810 mm	5'11"	2310 mm	7'7"
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	6400 mm	21'0"	5860 mm	19'3"
7 Maximum Vertical Wall Digging Depth	5390 mm	17'8"	4920 mm	16'2"

Reach boom dimensions were calculated with 1200 mm (48") width, GD 0.91 m³ (1.19 yd³ bucket) with 1380 mm (4'5") tip radius.

318E Hydraulic Excavator

Major Component Weights

Base Machine (with boom cylinder, without counterweight, front linkage and track)	5900 kg	12,860 lb
Long Undercarriage	3930 kg	8,670 lb
Counterweight	3400 kg	7,500 lb
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 5.1 m (16'9")	1500 kg	3,310 lb
Reach Boom for CGC – 5.1 m (16'9")	1500 kg	3,310 lb
Stick (includes lines, pins and bucket cylinder)		
R3.1 m (10'2")	1000 kg	2,210 lb
R2.6 m (8'6")	910 kg	2,010 lb
R3.1 m (10'2") for CGC	1010 kg	2,230 lb
Track Shoe (Long/per two tracks)		
500 mm (20") Triple Grouser	2240 kg	4,940 lb
600 mm (24") Triple Grouser	2480 kg	5,470 lb
700 mm (28") Triple Grouser	2710 kg	5,980 lb

All weights are rounded up to nearest 10 kg and lb except for 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.

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 – 5.1 m (16'9")												
R3.1 m (10'2")	19 200	42,330	38	5.51	19 000	41,890	44	6.38	18 700	41,230	52	7.54
R2.6 m (8'6")	19 100	42,110	38	5.51	18 900	41,670	43	6.24	18 600	41,010	52	7.54

Bucket and Stick Forces

Stick	Reach Boom 5.1 m (16'9")			
	R3.1 m (10'2")		R2.6 m (8'6")	
General Duty				
Bucket Digging Force (SAE)	109 kN	24,400 lb	109 kN	24,400 lb
Stick Digging Force (SAE)	74 kN	16,700 lb	83 kN	18,600 lb
Severe Duty				
Bucket Digging Force (SAE)	107 kN	24,100 lb	107 kN	24,100 lb
Stick Digging Force (SAE)	74 kN	16,700 lb	82 kN	18,400 lb

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.

318E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R3.1 m (10'2")

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

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb											*2700 *6,000	*2700 *6,000	5.50 17.60
6.0 m 20.0 ft	kg lb							*3600 *7,850	*3600 *7,850			*2400 *5,300	*2400 *5,300	6.76 21.98
4.5 m 15.0 ft	kg lb							*3800 *8,300	3750 8,050	*2400	*2400	*2350 *5,100	*2350 *5,100	7.52 24.59
3.0 m 10.0 ft	kg lb			*7350 *15,650	*7350 *15,650	*5200 *11,200	*5200 *11,200	*4350 *9,450	3600 7,700	*3750 *7,450	2550 5,400	*2350 *5,200	2300 5,050	7.93 25.99
1.5 m 5.0 ft	kg lb			*8100 *19,450	*8100 *19,450	*6600 *14,200	5050 10,900	*5050 *10,900	3400 7,250	4100 8,750	2450 5,250	*2500 *5,500	2200 4,800	8.03 26.36
Ground Line	kg lb			*7200 *16,550	*7200 *16,550	*7550 *16,350	4800 10,250	5550 11,850	3250 6,950	4000 8,600	2350 5,050	*2800 *6,100	2200 4,850	7.85 25.76
-1.5 m -5.0 ft	kg lb	*5450 *12,150	*5450 *12,150	*10 050 *22,850	8500 18,250	*7900 *17,100	4650 10,000	5450 11,700	3150 6,750			*3300 *7,300	2400 5,300	7.36 24.12
-3.0 m -10.0 ft	kg lb	*9050 *20,350	*9050 *20,350	*11 100 *23,950	8600 18,450	*7500 *16,200	4650 10,000	*5450 *11,650	3150 6,800			*4400 *9,850	2850 6,350	6.49 21.17
-4.5 m -15.0 ft	kg lb			*8800 *18,700	*8800 *18,700	*5950 *12,500	4850 10,400					*5050 *11,100	4150 9,400	5.03 16.22

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R2.6 m (8'6")

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

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb					*7,500 *7,500	*7,500					*3250 *7,250	*3250 *7,250	4.76 15.12
6.0 m 20.0 ft	kg lb							*3500 *6,450	*3500 *6,450			*2850 *6,300	*2850 *6,300	6.19 20.06
4.5 m 15.0 ft	kg lb					*4550 *9,850	*4550 *9,850	*4200 *9,200	3700 7,950			*2750 *6,050	*2750 *6,050	7.01 22.90
3.0 m 10.0 ft	kg lb			*8750 *18,550	*8750 *18,550	*5800 *12,450	5400 11,650	*4750 *10,250	3550 7,650			*2800 *6,150	2550 5,600	7.44 24.40
1.5 m 5.0 ft	kg lb					*7050 *15,250	5050 10,850	*5350 *11,550	3400 7,300	*3400	2450	*3000 *6,550	2450 5,350	7.56 24.80
Ground Line	kg lb			*6750 *15,550	*6750 *15,550	*7850 *16,950	4800 10,300	5550 11,950	3250 7,000			*3350 *7,400	2450 5,400	7.36 24.16
-1.5 m -5.0 ft	kg lb	*6200 *13,800	*6200 *13,800	*10 950 *24,950	8650 18,550	*7950 *17,200	4700 10,150	5500 11,800	3200 6,900			*4100 *9,100	2700 5,950	6.84 22.39
-3.0 m -10.0 ft	kg lb	*10 750 *24,150	*10 750 *24,150	*10 500 *22,650	8800 18,850	*7250 *15,650	4750 10,250					*5250 *11,500	3350 7,450	5.88 19.18
-4.5 m -15.0 ft	kg lb			7500 15,850	7500 15,850							5250 11,550	5250 11,550	4.22 13.48

*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.

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

318E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R3.1 m (10'2")

Shoes – 600 mm (24") triple grouser with step

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb											*2700 *6,000	*2700 *6,000	5.50 17.60
6.0 m 20.0 ft	kg lb							*3600 *7,850	*3600 *7,850			*2400 *5,300	*2400 *5,300	6.76 21.98
4.5 m 15.0 ft	kg lb							*3800 *8,300	3700 7,950	*2400	*2400	*2350 *5,100	*2350 *5,100	7.52 24.59
3.0 m 10.0 ft	kg lb			*7350 *15,650	*7350 *15,650	*5200 *11,200	*5200 *11,200	*4350 *9,450	3550 7,600	*3750 *7,450	2500 5,350	*2350 *5,200	2250 5,000	7.93 25.99
1.5 m 5.0 ft	kg lb			*8100 *19,450	*8100 *19,450	*6600 *14,200	5000 10,800	*5050 *10,900	3350 7,200	4050 8,650	2400 5,150	*2500 *5,500	2150 4,750	8.03 26.36
Ground Line	kg lb			*7200 *16,550	*7200 *16,550	*7550 *16,350	4700 10,150	5450 11,700	3200 6,850	3950 8,450	2350 5,000	*2800 *6,100	2200 4,800	7.85 25.76
-1.5 m -5.0 ft	kg lb	*5450 *12,150	*5450 *12,150	*10 050 *22,850	8400 18,000	*7900 *17,100	4600 10,050	5350 11,550	3100 6,650			*3300 *7,300	2350 5,200	7.36 24.12
-3.0 m -10.0 ft	kg lb	*9050 *20,350	*9050 *20,350	*11 100 *23,950	8500 18,200	*7500 *16,200	4600 9,900	5400 11,600	3100 6,700			*4400 *9,850	2850 6,250	6.49 21.17
-4.5 m -15.0 ft	kg lb			*8800 *18,700	8750 *18,700	*5950 *12,500	4750 10,300					*5050 *11,100	4100 9,300	5.03 16.22

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R2.6 m (8'6")

Shoes – 600 mm (24") triple grouser with step

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb					*7,500 *7,500	*7,500					*3250 *7,250	*3250 *7,250	4.76 15.12
6.0 m 20.0 ft	kg lb							*3500 *6,450	*3500 *6,450			*2850 *6,300	*2850 *6,300	6.19 20.06
4.5 m 15.0 ft	kg lb					*4550 *9,850	*4550 *9,850	*4200 *9,200	3650 7,850			*2750 *6,050	*2750 *6,050	7.01 22.90
3.0 m 10.0 ft	kg lb			*8750 *18,550	*8750 *18,550	*5800 *12,450	5350 11,500	*4750 *10,250	3500 7,550			*2800 *6,150	2500 5,550	7.44 24.40
1.5 m 5.0 ft	kg lb					*7050 *15,250	4950 10,700	*5350 *11,550	3350 7,200	*3400	2450	*3000 *6,550	2400 5,250	7.56 24.80
Ground Line	kg lb			*6750 *15,550	*6750 *15,550	*7850 *16,950	4750 10,200	5500 11,800	3200 6,900			*3350 *7,400	2450 5,350	7.36 24.16
-1.5 m -5.0 ft	kg lb	*6200 *13,800	*6200 *13,800	*10 950 *24,950	8550 18,300	*7950 *17,200	4650 10,000	5400 11,650	3150 6,800			*4100 *9,100	2700 5,900	6.84 22.39
-3.0 m -10.0 ft	kg lb	*10 750 *24,150	*10 750 *24,150	*10 500 *22,650	8700 18,650	*7250 *15,650	4700 10,150					*5250 *11,500	3300 7,350	5.88 19.18
-4.5 m -15.0 ft	kg lb			*7500 *15,850	*7500 *15,850							*5250 *11,550	*5250 *11,550	4.22 13.48

*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.

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318E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R3.1 m (10'2")

Shoes – 500 mm (20") triple grouser with step

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb											*2700 *6,000	*2700 *6,000	5.50 17.60
6.0 m 20.0 ft	kg lb							*3600 *7,850	*3600 *7,850			*2400 *5,300	*2400 *5,300	6.76 21.98
4.5 m 15.0 ft	kg lb							*3800 *8,300	3650 7,850	*2400	*2400	*2350 *5,100	*2350 *5,100	7.52 24.59
3.0 m 10.0 ft	kg lb			*7350 *15,650	*7350 *15,650	*5200 *11,200	*5200 *11,200	*4350 *9,450	3500 7,500	*3750 *7,450	2450 5,250	*2350 *5,200	2250 4,950	7.93 25.99
1.5 m 5.0 ft	kg lb			*8100 *19,450	*8100 *19,450	*6600 *14,200	4950 10,650	*5050 *10,900	3300 7,100	4000 8,550	2400 5,100	*2500 *5,500	2150 4,700	8.03 26.36
Ground Line	kg lb			*7200 *16,550	*7200 *16,550	*7550 *16,350	4650 10,050	5400 11,600	3150 6,750	3900 8,350	2300 4,950	*2800 *6,100	2150 4,750	7.85 25.76
-1.5 m -5.0 ft	kg lb		*5450 *12,150	*5450 *12,150	*10 050 *22,850	8300 17,800	*7900 *17,100	4550 9,750	5300 11,400	3050 6,600		*3300 *7,300	2350 5,150	7.36 24.12
-3.0 m -10.0 ft	kg lb		*9050 *20,350	*9050 *20,350	*11 100 *23,950	8400 18,000	*7500 *16,200	4550 9,800	5300 11,450	3100 6,650		*4400 *9,850	2800 6,200	6.49 21.17
-4.5 m -15.0 ft	kg lb					*8800 *18,700	8700 18,650	*5950 *12,500	4700 10,200			*5050 *11,100	4050 9,200	5.03 16.22

Boom – 5.1 m (19'9")

Counterweight – 3.4 mt (3.8 t)

Bucket – None

Stick – R2.6 m (8'6")

Shoes – 500 mm (20") triple grouser with step

		1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		7.5 m/25.0 ft				m ft
7.5 m 25.0 ft	kg lb					*7,500 *7,500	*7,500					*3250 *7,250	*3250 *7,250	4.76 15.12
6.0 m 20.0 ft	kg lb							*3500 *6,450	*3500 *6,450			*2850 *6,300	*2850 *6,300	6.19 20.06
4.5 m 15.0 ft	kg lb					*4550 *9,850	*4550 *9,850	*4200 *9,200	3650 7,800			*2750 *6,050	*2750 *6,050	7.01 22.90
3.0 m 10.0 ft	kg lb			*8750 *18,550	*8750 *18,550	*5800 *12,450	5300 11,400	*4750 *10,250	3500 7,450			*2800 *6,150	2500 5,500	7.44 24.40
1.5 m 5.0 ft	kg lb					*7050 *15,250	4900 10,600	*5350 *11,550	3300 7,100	*3400	2400	*3000 *6,550	2350 5,200	7.56 24.80
Ground Line	kg lb			*6750 *15,550	*6750 *15,550	*7850 *16,950	4700 10,050	5400 11,650	3200 6,850			*3350 *7,400	2400 5,300	7.36 24.16
-1.5 m -5.0 ft	kg lb		*6200 *13,800	*6200 *13,800	*10 950 *24,950	8450 18,100	*7950 *17,200	4600 9,900	5350 11,500	3150 6,700		*4100 *9,100	2650 5,800	6.84 22.39
-3.0 m -10.0 ft	kg lb		*10 750 *24,150	*10 750 *24,150	*10 500 *22,650	8600 18,400	*7250 *15,650	4650 10,000				*5250 *11,500	3250 7,250	5.88 19.18
-4.5 m -15.0 ft	kg lb					*7500 *15,850	*7500 *15,850					*5250 *11,550	*5250 *11,550	4.22 13.48

*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.

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318E Hydraulic Excavator

Work Tool Offering Guide*

Boom Type	Reach Boom	
Stick Size	R3.1 m (10'2")	R2.6 m (8'6")
Hydraulic Hammer	H115Es H120Es**	H115Es H120Es H130Es**
Multi-Processor		MP15 CC Jaw** MP15 CR Jaw** MP15 S Jaw**
Pulverizer		P215**
Mobile Scrap and Demolition Shear	S325B***	S325B***
Compactor (Vibratory Plate)	CVP75	CVP75
Contractors' Grapple	G315B	G315B
Trash Grapple	These work tools are available for the 318E L. Consult your Cat dealer for proper match.	
Thumbs		
Rakes		
Center-Lock Pin Grabber Coupler		
Dedicated Quick Coupler		

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

**Pin-on only.

***Boom Mount.

318E Hydraulic Excavator

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Booms	
	mm	in	m³	yd³	kg	lb	%	R2.6 m (8'6")	R3.1 m (10'2")
Without Quick Coupler									
General Duty (GD)	1200	48	0.91	1.19	693	1,526	100%	⊙	⊖
Heavy Duty (HD)	600	24	0.35	0.46	449	990	100%	●	●
	750	30	0.49	0.64	505	1,113	100%	●	●
	900	36	0.62	0.81	566	1,248	100%	●	●
	1050	42	0.76	1.00	618	1,362	100%	●	●
	1200	48	0.91	1.19	679	1,497	100%	⊙	⊖
Severe Duty (SD)	900	36	0.62	0.81	651	1,435	90%	●	●
	1050	42	0.76	1.00	710	1,564	90%	●	●
Maximum load pin-on (payload + bucket)							kg	2485	2205
							lb	5,477	4,860

	Width		Capacity		Weight		Fill	Reach Booms	
	mm	in	m³	yd³	kg	lb	%	R2.6 m (8'6")	R3.1 m (10'2")
With Center-Lock Quick Coupler									
General Duty (GD)	1200	48	0.91	1.19	693	1,526	100%	⊖	○
Heavy Duty (HD)	600	24	0.35	0.46	449	990	100%	●	●
	750	30	0.49	0.64	505	1,113	100%	●	●
	900	36	0.62	0.81	566	1,248	100%	●	●
	1050	42	0.76	1.00	618	1,362	100%	⊙	⊖
	1200	48	0.91	1.19	679	1,497	100%	⊖	○
Severe Duty (SD)	900	36	0.62	0.81	651	1,435	90%	●	●
	1050	42	0.76	1.00	710	1,564	90%	●	⊖
Maximum load with coupler (payload + bucket)							kg	2095	1815
							lb	4,617	4,000

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.

- 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.