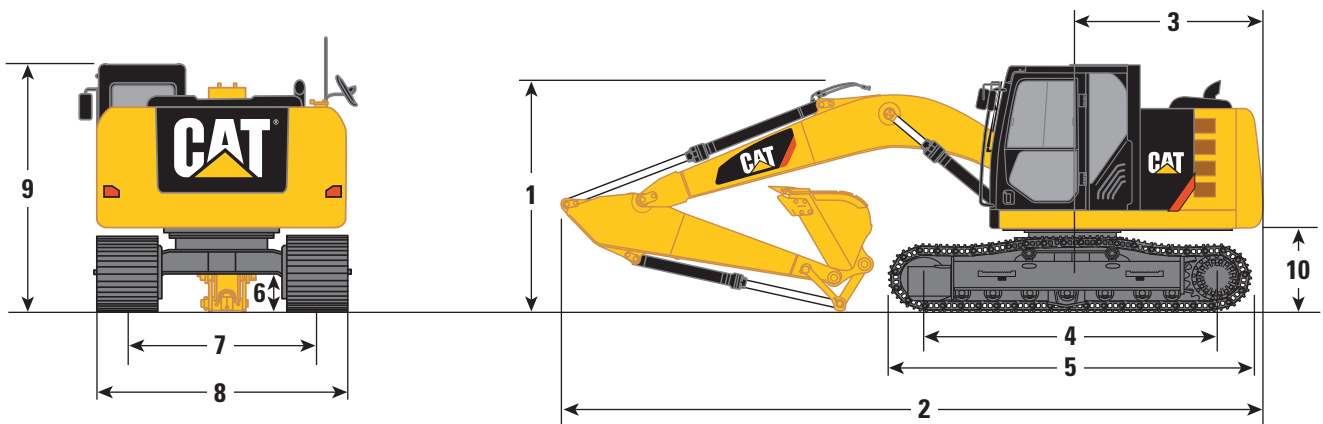


312E Hydraulic Excavator

Dimensions

All dimensions are approximate.



Stick	Reach Boom 4.65 m (15'3")		
	R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")
	mm (ft)	mm (ft)	mm (ft)
1 Shipping Height*	2980 (9'9")	2980 (9'9")	2980 (9'9")
Shipping Height at Boom Top	2830 (9'3")	2970 (9'9")	2830 (9'3")
Shipping Height with Guard Rail	2980 (9'9")	2980 (9'9")	2980 (9'9")
Shipping Height with Top Guard	2970 (9'9")	2970 (9'9")	2970 (9'9")
2 Shipping Length			
Long Undercarriage	7670 (25'2")	7650 (25'1")	7670 (25'2")
Long Undercarriage with Blade	7960 (26'1")	7920 (26'0")	7950 (26'1")
3 Tail Swing Radius	2160 (7'1")	2160 (7'1")	2160 (7'1")
4 Length to Center of Rollers			
Long Undercarriage	3040 (10'0")	3040 (10'0")	3040 (10'0")
5 Track Length			
Long Undercarriage	3750 (12'4")	3750 (12'4")	3750 (12'4")
6 Ground Clearance	440 (1'5")	440 (1'5")	440 (1'5")
7 Track Gauge	1990 (6'6")	1990 (6'6")	1990 (6'6")
8 Transport Width			
500 mm (20") Shoes	2490 (8'2")	2490 (8'2")	2490 (8'2")
600 mm (24") Shoes	2590 (8'6")	2590 (8'6")	2590 (8'6")
700 mm (28") Shoes	2690 (8'10")	2690 (8'10")	2690 (8'10")
770 mm (30") Shoes	2760 (9'1")	2760 (9'1")	2760 (9'1")
9 Cab Height	2770 (9'1")	2770 (9'1")	2770 (9'1")
Cab Height with Top Guard	2970 (9'9")	2970 (9'9")	2970 (9'9")
10 Counterweight Clearance**	890 (2'11")	890 (2'11")	890 (2'11")

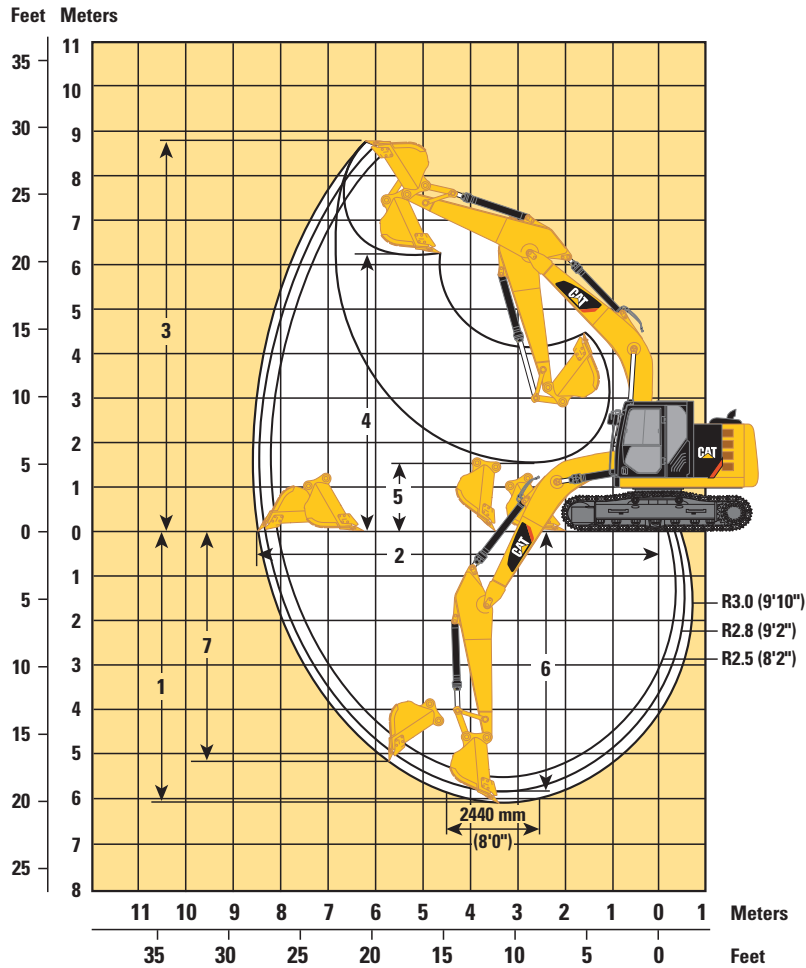
*Including shoe lug height.

**Without shoe lug height.

312E Hydraulic Excavator

Working Ranges

All dimensions are approximate.



Stick	Reach Boom 4.65 m (15'3")		
	R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")
	mm (ft)	mm (ft)	mm (ft)
1 Maximum Digging Depth	6040 (19'10")	5840 (19'2")	5540 (18'2")
2 Maximum Reach at Ground Level	8620 (28'3")	8430 (27'8")	8170 (26'10")
3 Maximum Cutting Height	8710 (28'7")	8590 (28'2")	8490 (27'10")
4 Maximum Loading Height	6330 (20'9")	6210 (20'4")	6100 (20'0")
5 Minimum Loading Height	1530 (5'0")	1730 (5'8")	2020 (6'8")
6 Maximum Depth Cut for 2440 mm (8'0") Level Bottom	5860 (19'3")	5650 (18'6")	5330 (17'6")
7 Maximum Vertical Wall Digging Depth	5200 (17'1")	5070 (16'8")	4840 (15'11")

312E Hydraulic Excavator

Operating Weight and Ground Pressure

Long Undercarriage without Blade

	770 mm (30")		700 mm (28")		600 mm (24")		500 mm (20")	
	Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes		Triple Grouser Shoes	
	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)	kg (lb)	kPa (psi)
Reach Boom – 4.65 m (15'3")								
R3.0 (9'10")	14 200 (31,310)	27.5 (3.98)	14 100 (31,090)	30.0 (4.35)	13 800 (30,430)	34.2 (4.97)	13 500 (29,770)	40.2 (5.83)
R2.8 (9'2")	14 200 (31,310)	27.5 (3.98)	14 000 (30,870)	29.8 (4.32)	13 800 (30,430)	34.2 (4.97)	13 500 (29,770)	40.2 (5.83)
R2.5 (8'2")	14 100 (31,090)	27.3 (3.97)	14 000 (30,870)	29.8 (4.32)	13 700 (30,210)	34.1 (4.94)	13 500 (29,770)	40.2 (5.83)

Long Undercarriage with Blade

Reach Boom – 4.65 m (15'3")								
R3.0 (9'10")	15 000 (33,080)	29.0 (4.21)	14 900 (32,850)	31.7 (4.60)	14 600 (32,190)	36.2 (5.26)	14 400 (31,750)	42.9 (6.22)
R2.8 (9'2")	15 000 (33,080)	29.0 (4.21)	14 900 (32,850)	31.7 (4.60)	14 600 (32,190)	36.2 (5.26)	14 300 (31,530)	42.6 (6.18)
R2.5 (8'2")	14 900 (32,850)	28.9 (4.20)	14 800 (32,630)	31.5 (4.57)	14 500 (31,970)	36.0 (5.22)	14 300 (31,530)	42.6 (6.18)

All weights are rounded up to nearest 100 kg and lb including General Duty 0.65 m³ (0.84 yd³) bucket (470 kg/1,040 lb).

Major Component Weights

	kg	lb
Base Machine (with boom cylinder, without counterweight, front linkage and track)	5120	11,290
Long Undercarriage	2600	5,730
Counterweight 2.2 mt (2.4 t)	2200	4,850
Boom (includes lines, pins and stick cylinder)		
Reach Boom – 4.65 m (15'3")	1010	2,230
Stick (includes lines, pins, bucket cylinder, and bucket linkage)		
R3.0 (9'10")	560	1,230
R2.8 (9'2")	530	1,170
R2.5 (8'2")	480	1,060
R3.0 (9'10") for Thumb	610	1,350
Track Shoe (Long/per two tracks)		
500 mm (20") Triple Grouser	1560	3,440
600 mm (24") Triple Grouser	1820	4,010
700 mm (28") Triple Grouser	2100	4,630
770 mm (30") Triple Grouser	2240	4,940
Blade		
2500 mm (8'2")	810	1,790
2600 mm (8'6")	810	1,790
2700 mm (8'10")	820	1,810

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.

312E Hydraulic Excavator

Bucket and Stick Forces

Stick	Reach Boom 4.65 m (15'3")		
	R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")
	kN (lbf)	kN (lbf)	kN (lbf)
General Duty Bucket			
Bucket Digging Force (SAE)	85 (19,200)	85 (19,200)	85 (19,200)
Stick Digging Force (SAE)	57 (12,800)	60 (13,500)	64 (14,300)
Severe Duty Bucket			
Bucket Digging Force (SAE)	84 (18,800)	83 (18,700)	83 (18,700)
Stick Digging Force (SAE)	57 (12,800)	60 (13,400)	63 (14,200)

312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side















Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	2550 5,500			*2000 *4,350	*2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb					*3900 *8,400	3850 8,300	*3450 *7,550	2500 5,350			*2000 *4,350	1800 3,950	7.35 24.09
1.5 m 5.0 ft	kg lb			*7600 *16,250	6550 14,050	*4950 *10,650	3600 7,750	3700 8,000	2400 5,100	*2150	1700	*2050 *4,550	1700 3,750	7.52 24.67
Ground Line	kg lb			*7850 *18,150	6100 13,100	5550 11,950	3400 7,300	3600 7,750	2300 4,900			*2300 *5,000	1700 3,750	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	6000 12,850	5450 11,700	3300 7,100	3550 7,650	2250 4,800			*2700 *5,900	1850 4,100	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	6050 12,950	5450 11,700	3300 7,100	3600 7,750	2250			3550 7,900	2250 4,950	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	6250 13,400	*4050	3450					*4000 *8,800	3400 7,750	4.53 14.54













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

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				m ft		
													
6.0 m 20.0 ft	kg lb									*2300 *5,100	*2300 *5,100	5.70 18.45	
4.5 m 15.0 ft	kg lb					*3250 *7,150	*3250 *7,150	*3300 *7,250	2550 5,500	*2150 *4,750	2150 *4,750	6.65 21.70	
3.0 m 10.0 ft	kg lb			*5250 *11,200	*5250 *11,200	*4050 *8,800	3850 8,250	*3600 *7,800	2500 5,350	*2150 *4,700	1900 4,150	7.16 23.45	
1.5 m 5.0 ft	kg lb			*7950 *17,050	6500 13,950	*5100 *11,000	3600 7,700	3700 8,000	2400 5,100	*2250 *4,950	1800 3,900	7.33 24.04	
Ground Line	kg lb			*7500 *17,350	6100 13,100	5550 11,950	3400 7,300	3600 7,800	2300 4,950	*2500 *5,450	1800 3,950	7.18 23.57	
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	6000 12,900	5450 11,700	3300 7,100	3550 7,700	2250 4,850	*2950 *6,550	1950 4,300	6.70 21.95	
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	6100 13,050	5500 11,750	3350 7,150				3800 8,400	2400 5,300	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050	*6050						*4100 *10,000	3850 9,650	4.18 12.52

*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.

312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

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				m ft	
												
6.0 m 20.0 ft	kg lb				*3350 *7,450	*3350 *7,450				*2450 *5,400	*2450 *5,400	5.37 17.35
4.5 m 15.0 ft	kg lb				*3550 *7,750	*3550 *7,750	*3550 *7,100	2550 5,450		*2250 *4,950	*2250 *4,950	6.37 20.77
3.0 m 10.0 ft	kg lb			*5850 *12,500	*5850 *12,500	*4350 *9,400	3800 8,200	*3750 8,200	2500 5,350	*2250 *4,900	2000 4,400	6.90 22.60
1.5 m 5.0 ft	kg lb			*8450 *18,150	6400 13,800	*5350 *11,500	3600 7,700	3750 8,000	2400 5,150	*2350 *5,100	1900 4,150	7.08 23.22
Ground Line	kg lb			*6900 *15,950	6100 13,150	5550 11,950	3400 7,350	3650 7,800	2300 4,950	*2600 *5,650	1900 4,200	6.93 22.72
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	6100 13,050	5500 11,800	3350 7,200	3600 7,750	2300 4,900	*3100 *6,800	2100 4,600	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	6150 13,250	*5500 *11,850	3400 7,300			4150 *9,250	2650 5,850	5.47 17.83














Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

Shoes – 600 mm (24") triple grouser

	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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	2550 5,400			*2000 *4,350	*2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb					*3900 *8,400	3800 8,150	*3450 *7,550	2450 5,250			*2000 *4,350	1750 3,900	7.35 24.09
1.5 m 5.0 ft	kg lb			*7600 *16,250	6450 13,850	*4950 *10,650	3550 7,600	3650 7,850	2350 5,000	*2150 1700		*2050 *4,550	1650 3,650	7.52 24.67
Ground Line	kg lb			*7850 *18,150	6000 12,850	5450 11,700	3350 7,150	3550 7,600	2250 4,800			*2300 *5,000	1700 3,700	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	5850 12,600	5350 11,450	3250 6,950	3500 7,500	2200 4,700			*2700 *5,900	1800 4,000	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	5900 12,700	5350 11,450	3250 6,950	3500 7,500	2200			3500 7,750	2200 4,850	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	6100 13,150	*4050	3400					*4000 *8,800	3350 7,600	4.53 14.54

*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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312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

Shoes – 600 mm (24") triple grouser

 6.0 m 20.0 ft kg lb	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		 m ft			
	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	m ft	
										*2300 *5,100	*2300 *5,100	5.70 18.45
4.5 m 15.0 ft					*3250 *7,150	*3250 *7,150	*3300 *7,250	2500 5,400		*2150 *4,750	2100 4,700	6.65 21.70
3.0 m 10.0 ft			*5250 *11,200	*5250 *11,200	*4050 *8,800	3750 8,100	*3600 *7,800	2450 5,250		*2150 *4,700	1850 4,050	7.16 23.45
1.5 m 5.0 ft			*7950 *17,050	6400 13,700	*5100 *11,000	3550 7,600	3650 7,850	2350 5,050		*2250 *4,950	1750 3,800	7.33 24.04
Ground Line			*7500 *17,350	6000 12,850	5450 11,700	3350 7,200	3550 7,650	2250 4,850		*2500 *5,450	1750 3,850	7.18 23.57
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	5900 12,650	5350 11,500	3250 7,000	3500 7,550	2200 4,750	*2950 *6,550	1900 4,200	6.70 21.95
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	5950 12,800	5400 11,550	3250 7,050			3700 8,250	2350 5,200	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050 *6050						*4100 *10,000	3800 9,500	4.18 12.52

Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

Shoes – 600 mm (24") triple grouser

 6.0 m 20.0 ft kg lb	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		 m ft			
	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	 kg lb	m ft	
										*2450 *5,400	*2450 *5,400	5.37 17.35
4.5 m 15.0 ft					*3550 *7,750	*3550 *7,750	*3550 *7,100	2500 5,350		*2250 *4,950	*2250 *4,950	6.37 20.77
3.0 m 10.0 ft			*5850 *12,500	*5850 *12,500	*4350 *9,400	3750 8,050	3750 8,050	2450 5,250		*2250 *4,900	1950 4,300	6.90 22.60
1.5 m 5.0 ft			*8450 *18,150	6300 13,550	*5350 *11,500	3500 7,550	3650 7,850	2350 5,050		*2350 *5,100	1850 4,050	7.08 23.22
Ground Line			*6900 *15,950	6000 12,900	5450 11,750	3350 7,200	3550 7,650	2250 4,900		*2600 *5,650	1850 4,100	6.93 22.72
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	5950 12,800	5400 11,600	3300 7,050	3550 7,600	2250 4,800	*3100 *6,800	2050 4,550	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	6050 13,000	5450 11,650	3300 7,150			4100 9,100	2600 5,700	5.47 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.

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

312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side















Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

Shoes – 500 mm (20") triple grouser

	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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	2500 5,350			*2000 *4,350	2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb					*3900 *8,400	3750 8,050	*3450 *7,550	2400 5,150			*2000 *4,350	1750 3,800	7.35 24.09
1.5 m 5.0 ft	kg lb			*7600 *16,250	6350 13,600	*4950 *10,650	3500 7,500	3600 7,700	2300 4,950	*2150	1650	*2050 *4,550	1650 3,600	7.52 24.67
Ground Line	kg lb			*7850 *18,150	5900 12,650	5350 11,500	3300 7,050	3500 7,450	2200 4,750			*2300 *5,000	1650 3,600	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	5750 12,350	5250 11,250	3200 6,800	3400 7,350	2150 4,600			*2700 *5,900	1800 3,950	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	5800 12,500	5250 11,250	3200 6,850	3450	2200			3400 7,600	2150 4,800	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	6000 12,950	*4050	3300					*4000 *8,800	3300 7,500	4.53 14.54













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

Shoes – 500 mm (20") triple grouser

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*2300 *5,100	*2300 *5,100	5.70 18.45
4.5 m 15.0 ft	kg lb					*3250 *7,150	*3250 *7,150	*3300 *7,250	2500 5,300	*2150 *4,750	2100 4,600	6.65 21.70
3.0 m 10.0 ft	kg lb			*5250 *11,200	*5250 *11,200	*4050 *8,800	3700 8,000	*3600 *7,800	2400 5,150	*2150 *4,700	1800 4,000	7.16 23.45
1.5 m 5.0 ft	kg lb			*7950 *17,050	6250 13,500	*5100 *11,000	3450 7,450	3600 7,700	2300 4,950	*2250 *4,950	1700 3,750	7.33 24.04
Ground Line	kg lb			*7500 *17,350	5900 12,650	5350 11,500	3300 7,050	3500 7,500	2200 4,750	*2500 *5,450	1750 3,800	7.18 23.57
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	5800 12,450	5250 11,300	3200 6,850	3450 7,400	2150 4,650	2950 6,500	1900 4,150	6.70 21.95
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	5850 12,600	5300 11,350	3200 6,900			3650 8,100	2300 5,100	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050	*6050					*4100 *10,000	3750 9,350	4.18 12.52

*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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312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

Shoes – 500 mm (20") triple grouser

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft		
													
6.0 m 20.0 ft	kg lb				*3350 *7,450	*3350 *7,450				*2450 *5,400	*2450 *5,400	5.37 17.35	
4.5 m 15.0 ft	kg lb				*3550 *7,750	*3550 *7,750	*3550 *7,100	2450 5,250		*2250 *4,950	2250 4,950	6.37 20.77	
3.0 m 10.0 ft	kg lb		*5850 *12,500	*5850 *12,500	*4350 *9,400	3700 7,950	3700 7,950	2400 5,150		*2250 *4,900	1950 4,250	6.90 22.60	
1.5 m 5.0 ft	kg lb		*8450 *18,150	6200 13,350	*5350 *11,500	3450 7,450	3600 7,700	2300 4,950		*2350 *5,100	1800 4,000	7.08 23.22	
Ground Line	kg lb		*6900 *15,950	5900 12,700	5400 11,550	3300 7,100	3500 7,550	2250 4,800		*2600 *5,650	1850 4,050	6.93 22.72	
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	5850 12,600	5300 11,350	3250 6,950	3500 7,450		2200 4,750	*3100 *6,800	2000 4,450	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	5950 12,800	5350 11,450	3250 7,050			4000 8,900	2550 5,600	5.47 17.83	















Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

Shoes – 700 mm (28") triple grouser – Blade Down

	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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb						*3150 *6,900	3050 6,500				*2000 *4,350	*2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb				*3900 *8,400	*3900 *8,400	*3450 *7,550	2950 6,350				*2000 *4,350	*2000 *4,350	7.35 24.09
1.5 m 5.0 ft	kg lb		*7600 *16,250	*7600 *16,250	*4950 *10,650	4300 9,250	*3950 *8,500	2850 6,100		*2150 2050		*2050 *4,550	2050 4,450	7.52 24.67
Ground Line	kg lb		*7850 *18,150	7550 16,150	*5750 *12,500	4100 8,800	*4350 *9,400	2750 5,900				*2300 *5,000	2050 4,500	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	7400 15,850	*6100 *13,200	4000 8,550	*4500 *9,700	2700 5,750			*2700 *5,900	2250 4,900	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	7450 15,950	*5750 *12,450	4000 8,550	*3950 8,550	2700			*3600 *7,950	2700 5,950	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	*6450 *13,700	*4050 *4050	*4050					*4000 *8,800	*4000 *8,800	4.53 14.54

*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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312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

Shoes – 700 mm (28") triple grouser – Blade Down

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*2300 *5,100	*2300 *5,100	5.70 18.45
4.5 m 15.0 ft	kg lb					*3250 *7,150	*3250 *7,150	*3300 *7,250	3000 6,450	*2150 *4,750	*2150 *4,750	6.65 21.70
3.0 m 10.0 ft	kg lb			*5250 *11,200	*5250 *11,200	*4050 *8,800	*4050 *8,800	*3600 *7,800	2950 6,300	*2150 *4,700	*2150 *4,700	7.16 23.45
1.5 m 5.0 ft	kg lb			*7950 *17,050	*7950 *17,050	*5100 *11,000	4300 9,200	*4050 *8,750	2850 6,100	*2250 *4,950	2100 4,650	7.33 24.04
Ground Line	kg lb			*7500 *17,500	*7500 *16,150	*5900 *12,700	4100 8,800	*4400 *9,550	2750 5,900	*2500 *5,450	2150 4,700	7.18 23.57
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	7450 15,950	*6150 *13,250	4000 8,600	*4500 *9,700	2700 5,800	*2950 *6,550	2350 5,150	6.70 21.95
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	7500 16,100	*5700 *12,250	4000 8,650			*4050 *9,000	2850 6,350	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050 *6050						*4100 *10,000	*4100 *10,000	4.18 12.52













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

Shoes – 700 mm (28") triple grouser – Blade Down

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb					*3350 *7,450	*3350 *7,450			*2450 *5,400	*2450 *5,400	5.37 17.35
4.5 m 15.0 ft	kg lb					*3550 *7,750	*3550 *7,750	*3550 *7,100	3000 6,450	*2250 *4,950	*2250 *4,950	6.37 20.77
3.0 m 10.0 ft	kg lb			*5850 *12,500	*5850 *12,500	*4350 *9,400	*4350 *9,400	*3750 *8,200	2950 6,300	*2250 *4,900	*2250 *4,900	6.90 22.60
1.5 m 5.0 ft	kg lb			*8450 *18,150	7850 16,900	*5350 *11,500	4300 9,200	*4200 *9,050	2850 6,100	*2350 *5,100	2250 4,950	7.08 23.22
Ground Line	kg lb			*6900 *15,950	*6900 *15,950	*6000 *13,000	4100 8,850	*4500 *9,750	2750 5,950	*2600 *5,650	2300 5,000	6.93 22.72
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	7500 16,100	*6150 *13,300	4050 8,700	*4500 *9,650	2750 5,900	*3100 *6,800	2500 5,500	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	7600 16,300	*5500 *11,850	4100 8,750			*4200 *9,250	3150 6,950	5.47 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.

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312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side















Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

Shoes – 600 mm (24") triple grouser – Blade Down

	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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	2950 6,250			*2000 *4,350	*2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb					*3900 *8,400	*3900 *8,400	*3450 *7,550	2850 6,100			*2000 *4,350	*2000 *4,350	7.35 24.09
1.5 m 5.0 ft	kg lb			*7600 *16,250	*7600 *16,250	*4950 *10,650	4150 8,900	*3950 *8,500	2750 5,850	*2150	1950	*2050 *4,550	1950 4,300	7.52 24.67
Ground Line	kg lb			*7850 *18,150	7200 15,450	*5750 *12,500	3950 8,450	*4350 *9,400	2650 5,650			*2300 *5,000	2000 4,350	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	7050 15,150	*6100 *13,200	3850 8,200	*4500 *9,700	2600 5,550			*2700 *5,900	2150 4,700	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	7100 15,250	*5750 *12,450	3850 8,250	*3950	2600			*3600 *7,950	2600 5,700	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	*6450 *13,700	*4050	4000					*4000 *8,800	3950 *8,800	4.53 14.54













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

Shoes – 600 mm (24") triple grouser – Blade Down

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb									*2300 *5,100	*2300 *5,100	5.70 18.45
4.5 m 15.0 ft	kg lb					*3250 *7,150	*3250 *7,150	*3300 *7,250	2900 6,250	*2150 *4,750	*2150 *4,750	6.65 21.70
3.0 m 10.0 ft	kg lb			*5250 *11,200	*5250 *11,200	*4050 *8,800	*4050 *8,800	*3600 *7,800	2850 6,100	*2150 *4,700	*2150 *4,700	7.16 23.45
1.5 m 5.0 ft	kg lb			*7950 *17,050	7600 16,350	*5100 *11,000	4150 8,900	*4050 *8,750	2750 5,850	*2250 *4,950	2050 4,450	7.33 24.04
Ground Line	kg lb			*7500 *17,350	7200 15,450	*5900 *12,700	3950 8,450	*4400 *9,550	2650 5,650	*2500 *5,450	2050 4,500	7.18 23.57
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	7100 15,250	*6150 *13,250	3850 8,250	*4500 *9,700	2600 5,600	*2950 *6,550	2250 4,950	6.70 21.95
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	7200 15,400	*5700 *12,250	3850 8,300			*4050 *9,000	2750 6,100	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050	*6050					*4100 *10,000	*4100 *10,000	4.18 12.52

*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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312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side













Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

Shoes – 600 mm (24") triple grouser – Blade Down

	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft				m ft	
												
6.0 m 20.0 ft	kg lb				*3350 *7,450	*3350 *7,450				*2450 *5,400	*2450 *5,400	5.37 17.35
4.5 m 15.0 ft	kg lb				*3550 *7,750	*3550 *7,750	*3550 *7,100	2900 6,200		*2250 *4,950	*2250 *4,950	6.37 20.77
3.0 m 10.0 ft	kg lb			*5850 *12,500	*5850 *12,500	*4350 *9,400	*4350 *9,350	*3750 *8,200	2850 6,100	*2250 *4,900	*2250 *4,900	6.90 22.60
1.5 m 5.0 ft	kg lb			*8450 *18,150	7550 16,150	*5350 *11,500	4100 8,850	*4200 *9,050	2750 5,900	*2350 *5,100	2150 4,750	7.08 23.22
Ground Line	kg lb			*6900 *15,950	*6900 15,450	*6000 *13,000	3950 8,500	*4500 *9,750	2650 5,700	*2600 *5,650	2200 4,800	6.93 22.72
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	7150 15,400	*6150 *13,300	3900 8,350	*4500 *9,650	2650 5,650	*3100 *6,800	2400 5,300	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	7250 15,600	*5500 *11,850	3900 8,400			*4200 *9,250	3000 6,700	5.47 17.83















Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R3.0 (9'10")

Shoes – 500 mm (20") triple grouser – Blade Down

	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											*2550 *2550	4.37	
6.0 m 20.0 ft	kg lb											*2100 *4,650	*2100 *4,650	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	2850 6,050			*2000 *4,350	*2000 *4,350	6.86 22.39
3.0 m 10.0 ft	kg lb					*3900 *8,400	*3900 *8,400	*3450 *7,550	2750 5,900			*2000 *4,350	*2000 *4,350	7.35 24.09
1.5 m 5.0 ft	kg lb			*7600 *16,250	7350 15,800	*4950 *10,650	4000 8,550	*3950 *8,550	2650 5,650	*2150	1900	*2050 *4,550	1900 4,150	7.52 24.67
Ground Line	kg lb			*7850 *18,150	6900 14,800	*5750 *12,500	3800 8,100	*4350 *9,400	2550 5,450			*2300 *5,000	1900 4,150	7.38 24.20
-1.5 m -5.0 ft	kg lb	*4500 *10,050	*4500 *10,050	*9350 *20,250	6750 14,500	*6100 *13,200	3700 7,900	*4500 *9,700	2500 5,350			*2700 *5,900	2050 4,550	6.91 22.63
-3.0 m -10.0 ft	kg lb	*7500 *16,850	*7500 *16,850	*8550 *18,500	6800 14,600	*5750 *12,450	3700 7,900	*3950	2500			*3600 *7,950	2500 5,500	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	*6450 *13,700	*4050	3800					*4000 *8,800	3800 8,600	4.53 14.54

*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.

312E Hydraulic Excavator

Reach Boom Lift Capacities



Load Point Height



Load at Maximum Reach



Load Radius Over Front



Load Radius Over Side

Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.8 (9'2")

Shoes – 500 mm (20") triple grouser – Blade Down

 6.0 m 20.0 ft kg lb	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		 m ft			
											m ft	
										*2300 *5,100	*2300 *5,100	5.70 18.45
4.5 m 15.0 ft					*3250 *7,150	*3250 *7,150	*3300 *7,250	2800 6,000	*2150 *4,750	*2150 *4,750	6.65 21.70	
3.0 m 10.0 ft			*5250 *11,200	*5250 *11,200	*4050 *8,800	*4050 *8,800	*3600 *7,800	2750 5,900	*2150 *4,700	2100 4,550	7.16 23.45	
1.5 m 5.0 ft			*7950 *17,050	7300 15,650	*5100 *11,000	4000 8,550	*4050 *8,750	2650 5,650	*2250 *4,950	1950 4,300	7.33 24.04	
Ground Line			*7500 *17,350	6900 14,800	*5900 *12,700	3800 8,150	*4400 *9,550	2550 5,450	*2500 *5,450	2000 4,350	7.18 23.57	
-1.5 m -5.0 ft	kg lb	*4700 *10,450	*4700 *10,450	*9350 *20,200	6800 14,600	*6150 *13,250	3700 7,950	*4500 *9,700	2500 5,350	*2950 *6,550	2150 4,750	6.70 21.95
-3.0 m -10.0 ft	kg lb	*8000 *18,000	*8000 *18,000	*8400 *18,150	6850 14,750	*5700 *12,250	3700 8,000			*4050 *9,000	2650 5,850	5.80 18.90
-4.5 m -15.0 ft	kg lb			*6050 *6050						*4100 *10,000	*4100 *10,000	4.18 12.52

Boom – 4.65 m (15'3")

Counterweight – 2.2 mt (2.4 t)

Bucket – None

Stick – R2.5 (8'2")

Shoes – 500 mm (20") triple grouser – Blade Down

 6.0 m 20.0 ft kg lb	1.5 m/5.0 ft		3.0 m/10.0 ft		4.5 m/15.0 ft		6.0 m/20.0 ft		 m ft			
											m ft	
					*3350 *7,450	*3350 *7,450			*2450 *5,400	*2450 *5,400	5.37 17.35	
4.5 m 15.0 ft					*3550 *7,750	*3550 *7,750	*3550 *7,100	2800 6,000	*2250 *4,950	*2250 *4,950	6.37 20.77	
3.0 m 10.0 ft			*5850 *12,500	*5850 *12,500	*4350 *9,400	4200 9,050	*3750 *8,200	2750 5,850	*2250 *4,900	2200 4,850	6.90 22.60	
1.5 m 5.0 ft			*8450 *18,150	7200 15,500	*5350 *11,500	3950 8,550	*4200 *9,050	2650 5,650	*2350 *5,100	2100 4,550	7.08 23.22	
Ground Line			*6900 *15,950	*6900 14,800	*6000 *13,000	3800 8,150	*4500 *9,750	2550 5,500	*2600 *5,650	2100 4,650	6.93 22.72	
-1.5 m -5.0 ft	kg lb	*4900 *10,900	*4900 *10,900	*9250 *20,000	6850 14,700	*6150 *13,300	3750 8,000	*4500 *9,650	2550 5,450	*3100 *6,800	2300 5,100	6.42 21.04
-3.0 m -10.0 ft	kg lb	*8750 *19,750	*8750 *19,750	*8100 *17,450	6950 14,950	*5500 *11,850	3750 8,100			*4200 *9,250	2900 6,450	5.47 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.

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312E Hydraulic Excavator

Work Tool Offering Guide*

Boom Type	Reach Boom		
	R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")
Stick Size			
Hydraulic Hammer	H110Es H115Es	H110Es H115Es	H110Es H115Es
Mobile Scrap and Demolition Shear	S320B**	S320B**	S320B**
Compactor (Vibratory Plate)	CVP75	CVP76	CVP75
Contractors' Grapple	G112B	G112B	G112B
Trash Grapple			
Thumbs			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

These work tools are available for the 312E.
Consult your Cat dealer for proper match.

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

**Boom mount.

312E Hydraulic Excavator

Bucket Specifications and Compatibility

	Width		Capacity		Weight		Fill	Reach Boom			
	mm	in	m ³	yd ³	kg	lb		R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")	R3.0 (9'10") Thumb*
Without Quick Coupler											
General Duty (GD)	450	18	0.20	0.27	276	608	100%	●	●	●	●
	600	24	0.31	0.40	326	719	100%	●	●	●	●
	750	30	0.41	0.54	374	823	100%	●	●	●	●
	900	36	0.53	0.69	423	932	100%	●	●	●	●
	1050	42	0.65	0.84	469	1,034	100%	⊙	●	●	⊙
	1200	48	0.76	1.00	510	1,125	100%	X	X	X	X
Severe Duty (SD)	600	24	0.31	0.40	367	810	90%	●	●	●	●
	750	30	0.41	0.54	425	936	90%	●	●	●	●
	900	36	0.53	0.69	483	1,065	90%	●	●	●	●
	1050	42	0.65	0.84	529	1,166	90%	●	●	●	●
Maximum load pin-on (payload + bucket)							kg	1745	1835	1970	1695
							lb	3,846	4,044	4,342	3,736
With Center Lock Quick Coupler											
General Duty (GD)	450	18	0.20	0.27	276	608	100%	●	●	●	●
	600	24	0.31	0.40	326	719	100%	●	●	●	●
	750	30	0.41	0.54	374	823	100%	●	●	●	●
	900	36	0.53	0.69	423	932	100%	●	●	●	●
	1050	42	0.65	0.84	469	1,034	100%	⊙	●	●	⊙
	1200	48	0.76	1.00	510	1,125	100%	⊖	⊙	⊙	⊖
Severe Duty (SD)	600	24	0.31	0.40	367	810	90%	●	●	●	●
	750	30	0.41	0.54	425	936	90%	●	●	●	●
	900	36	0.53	0.69	483	1,065	90%	●	●	●	●
	1050	42	0.65	0.84	529	1,166	90%	●	●	●	●
Maximum load with coupler (payload + bucket)							kg	1499	1589	1724	1449
							lb	3,304	3,503	3,800	3,194

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 Long 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)
- X Not recommended

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.