

312E

Hydraulic Excavator



Engine

Engine Model	Cat® C4.4 ACERT™	
Net Power – SAE J1349	68 kW	91 hp
Gross Power – SAE J1995	71 kW	95 hp

Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	114 kN	25,628 lbf

Weight

Minimum Operating Weight	13 500 kg	29,770 lb
Maximum Operating Weight	15 000 kg	33,080 lb

312E Hydraulic Excavator Specifications

Engine

Engine Model	Cat® C4.4 ACERT™	
Net Power – SAE J1349	68 kW	91 hp
Gross Power – SAE J1995	71 kW	95 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5.00 in
Displacement	4.4 L	269 in ³

Weights

Minimum Operating Weight*	13 500 kg	29,770 lb
Maximum Operating Weight**	15 000 kg	33,080 lb

*4.65 m (15'3") boom, 2.5 m (8'10") stick, 2.2 mt (2.4 t) counterweight, 0.65 m³ (0.84 yd³) bucket, and 500 mm (20") shoes.
 **4.65 m (15'3") boom, 3.0 m (9'10") stick, 2.2 mt (2.4 t) counterweight, 0.65 m³ (0.84 yd³) bucket, 770 mm (30") shoes with blade.

Hydraulic System

Main System – Maximum Flow (Total)	254 L/min	67 gal/min
Swing System – Maximum Flow	127 L/min	34 gal/min
Maximum Pressure – Equipment	30 500 kPa	4,424 psi
Maximum Pressure – Travel	35 000 kPa	5,076 psi
Maximum Pressure – Swing	23 000 kPa	3,336 psi
Pilot System – Maximum Flow	21.9 L/min	5.8 gal/min
Pilot System – Maximum Pressure	4120 kPa	598 psi
Boom Cylinder – Bore	110 mm	4 in
Boom Cylinder – Stroke	1015 mm	40 in
Stick Cylinder – Bore	120 mm	5 in
Stick Cylinder – Stroke	1197 mm	47 in
Bucket Cylinder – Bore	100 mm	4 in
Bucket Cylinder – Stroke	939 mm	37 in

Drive

Maximum Travel Speed	5.5 km/h	3.4 mph
Maximum Drawbar Pull	114 kN	25,628 lbf

Swing Mechanism

Swing Speed	11.5 rpm
Swing Torque	30.9 kN·m 22,791 lb ft

Service Refill Capacities

Fuel Tank Capacity	250 L	66.04 gal
Cooling System	22 L	5.81 gal
Engine Oil (with filter)	13.5 L	3.57 gal
Swing Drive	2.4 L	0.63 gal
Final Drive (each)	3 L	0.79 gal
Hydraulic System (including tank)	164 L	43.32 gal
Hydraulic Tank	90.6 L	23.93 gal

Track

Number of Shoes (each side)	
Long Undercarriage	46 pieces
Number of Track Rollers (each side)	
Long Undercarriage	7 pieces
Number of Carrier Rollers (each side)	
Long Undercarriage	2 pieces

Sound Performance

Operator Noise (Closed) – ISO 6396	69 dB(A)
Spectator Noise – ISO 6395	100 dB(A)

- When properly installed and maintained, the cab offered by Caterpillar, when tested with doors and windows closed according to ANSI/SAE J1166 OCT98, meets OSHA and MSHA requirements for operator sound exposure limits in effect at time of manufacture.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.

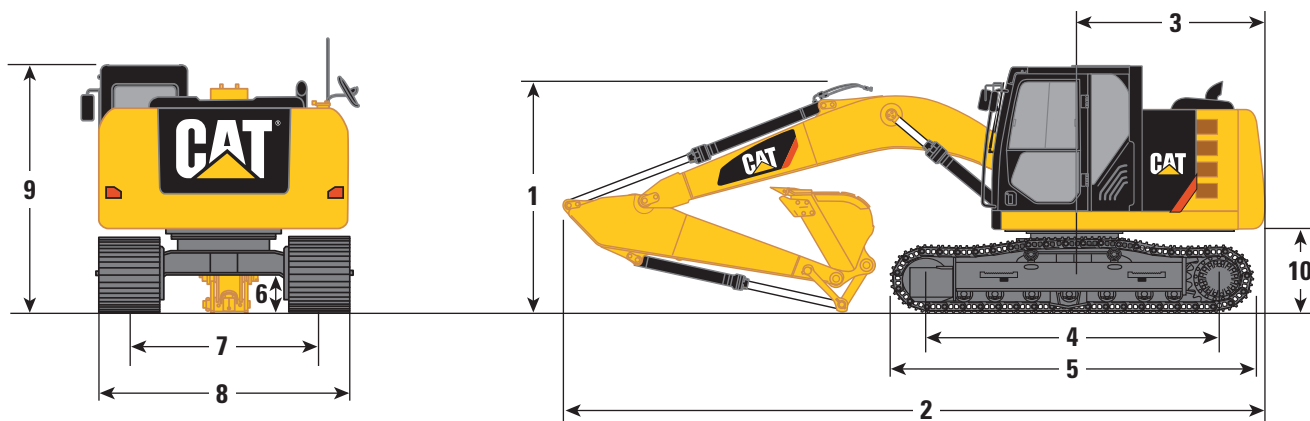
Standards

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

312E Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



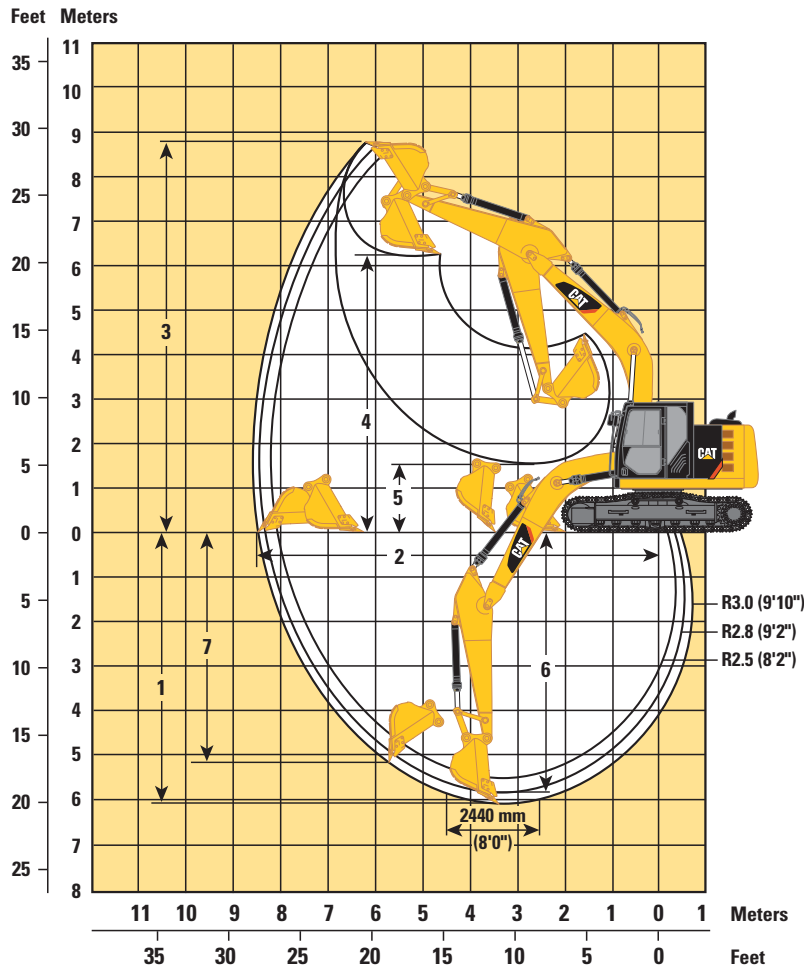
Stick	Reach Boom 4.65 m (15'3")		
	R3.0 (9'10")	R2.8 (9'2")	R2.5 (8'2")
	mm (ft)	mm (ft)	mm (ft)
1 Shipping Height*	2980 (9'9")	2980 (9'9")	2980 (9'9")
Shipping Height at Boom Top	2830 (9'3")	2970 (9'9")	2830 (9'3")
Shipping Height with Guard Rail	2980 (9'9")	2980 (9'9")	2980 (9'9")
Shipping Height with 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.

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 Specifications

Operating Weight and Ground Pressure

Long Undercarriage without Blade

	770 mm (30") Triple Grouser Shoes		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)	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.

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 Specifications

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	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	*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.

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 *5,650	*2550 *5,650	4.37 19.26
6.0 m 20.0 ft	kg lb										*2100 *4,650	*2100 *4,650	5.95 22.39
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	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

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312E Hydraulic Excavator Specifications

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

		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 5,400	*2150 *4,750	2100 4,700	6.65 21.70
3.0 m 10.0 ft	kg lb			*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	kg lb			*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	kg lb			*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

		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	2500 5,350	*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	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	kg lb			*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	kg lb			*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

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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	5.95 19.26
4.5 m 15.0 ft	kg lb						*3150 *6,900	2500 5,350				*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	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	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	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	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	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	6000 12,950	*4050	3300					*4000 *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 – 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.

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

312E Hydraulic Excavator Specifications

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	5.95 19.26
4.5 m 15.0 ft	kg lb							*3150 *6,900	3050 6,500			*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	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	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	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	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	2700			*3600 *7,950	6.04 19.69
-4.5 m -15.0 ft	kg lb			*6450 *13,700	*6450 *13,700	*4050	*4050					*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.

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

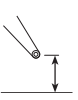
Boom – 4.65 m (15'3")

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 *17,350	*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	*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.

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

312E Hydraulic Excavator Specifications

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	*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.

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 – 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 *5,650	*2550 *5,650	4.37 19.26
6.0 m 20.0 ft	kg lb										*2100 *4,650	*2100 *4,650	5.95 22.39
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 *8,500	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 7,900	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 8,400					*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.

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312E Hydraulic Excavator Specifications

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

		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	2800 6,000	*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	2750 5,900	*2150 *4,700	2100 4,550	7.16 23.45
1.5 m 5.0 ft	kg lb			*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	kg lb			*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

		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	2800 6,000	*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	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	kg lb			*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	kg lb			*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.

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

Standard Equipment

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

• ENGINE

- C4.4 diesel engine
- Biodiesel capable
- Meets EPA Tier 4 Interim emission standards
- 2300 m (7,500 ft) altitude capability
- Electric priming pump
- Automatic engine speed control
- Economy and high power modes
- Two-speed travel
- Side-by-side cooling system
- Radial seal air filter
- Primary filter with water separator and water separator indicator
- Secondary filter
- Screen filter in fuel line
- Cold weather battery -25° C (-13° F)
- Jump start receptacle

• HYDRAULIC SYSTEM

- 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
- Capability of installing boom lowering control device and stick lowering check valve
- Fine swing control

• CAB

- Pressurized operator station with positive filtration
- 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
- Radio with MP3 auxiliary audio port
- Two 12V stereo speakers
- Storage shelf suitable for lunch or toolbox
- Color LCD display with indicators, 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
- Capability of installing two additional pedals
- Two power outlets, 10 amp (total)
- Travel alarm
- Laminated glass front upper window and tempered other windows
- Sunscreen

• UNDERCARRIAGE

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

• COUNTERWEIGHT

- 2.2 mt (2.4 t)

• ELECTRICAL

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

• LIGHTS

- Halogen boom light (left side)
- 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
- Rearview camera-ready