313F/313F L Hydraulic Excavator Specifications

Engine

Engine Model	Cat C4.4 ACERT
Net Power – SAE J1349/ISO 9249	68 kW (92 PS)
Engine Power – ISO 14396	74 kW (101 PS)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L

Weights

Long Undercarriage, Reach Boom 4.65 m	
Minimum Operating Weight*	13 400 kg
Maximum Operating Weight**	14 900 kg
Standard Undercarriage, Reach Boom 4.65 m	
Minimum Operating Weight*	13 200 kg
Maximum Operating Weight**	14 600 kg
Long Undercarriage, Variable Angle Boom	
Minimum Operating Weight*	14 200 kg
Maximum Operating Weight**	15 600 kg
Standard Undercarriage, Variable Angle Boom	
Minimum Operating Weight*	13 900 kg
Maximum Operating Weight**	15 200 kg

*2.1 m stick, 2.2 mt counterweight, 0.53 m^3 bucket, and 500 mm shoes.
**3.0 m stick, 2.2 mt counterweight, 0.53 m^3 bucket and 700 mm shoes with blade.

Hydraulic System

Main System – Maximum Flow (Total)	256 L/min
Swing System – Maximum Flow	120 L/min
Maximum Pressure – Equipment	30 500 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	25 000 kPa
Pilot System – Maximum Flow	22 L/min
Pilot System – Maximum Pressure	4120 kPa
Boom Cylinder – Bore	110 mm
Boom Cylinder – Stroke	1015 mm
Stick Cylinder – Bore	120 mm
Stick Cylinder – Stroke	1197 mm
Bucket Cylinder – Bore	100 mm
Bucket Cylinder – Stroke	939 mm

Drive

Gradeability	30°/70%
Maximum Travel Speed	5.4 km/h
Maximum Drawbar Pull	113 kN

Swing Mechanism

Swing Speed	10.9 rpm
Swing Torque	30.9 kN·m

Service Refill Capacities

Fuel Tank Capacity	223 L
DEF Tank Capacity	20.5 L
Cooling System	22 L
Engine Oil (with filter)	13.5 L
Swing Drive (each)	2.4 L
Final Drive (each)	3 L
Hydraulic System (including tank)	164 L
Hydraulic Tank	90.6 L

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
Number of Shoes (each side)	
Standard Undercarriage	43 pieces
Number of Track Rollers (each side)	
Standard Undercarriage	6 pieces
Number of Carrier Rollers (each side)	
Standard Undercarriage	1 piece

Sound Performance

Operator Sound Pressure Level (ISO 6396:2008)	69 dB(A)
Exterior Sound Power Level (ISO 6395:2008)*	101 dB(A)

* European Union Directive "2000/14/EC" as amended by "2005/88/EC," 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 12117-2:2008
Cab/OPG	ISO 10262:1998

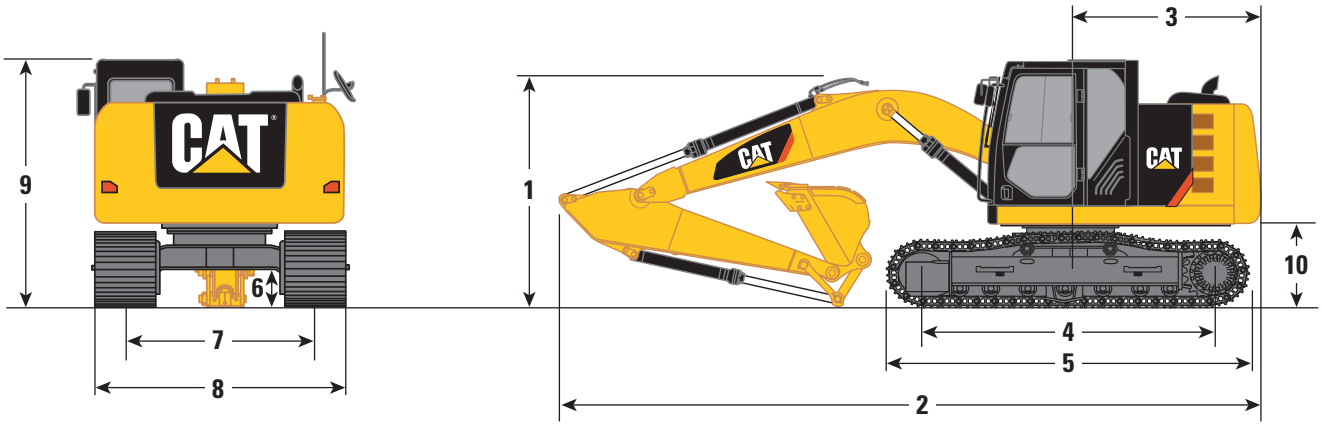
Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.90 kg of refrigerant which has a CO_2 equivalent 1.287 metric tonne.

313F/313F L Hydraulic Excavator Specifications

Dimensions

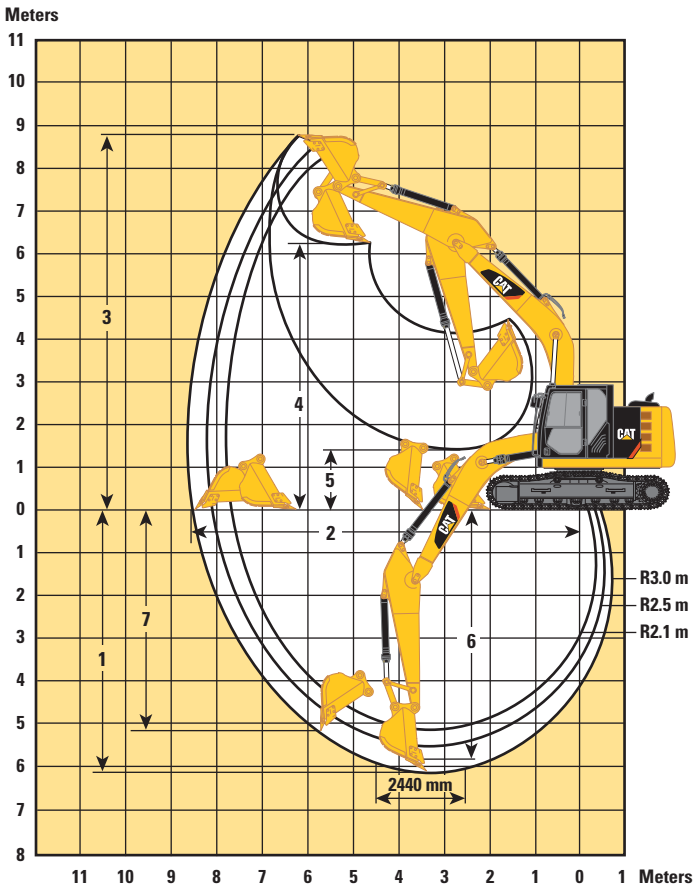
All dimensions are approximate.

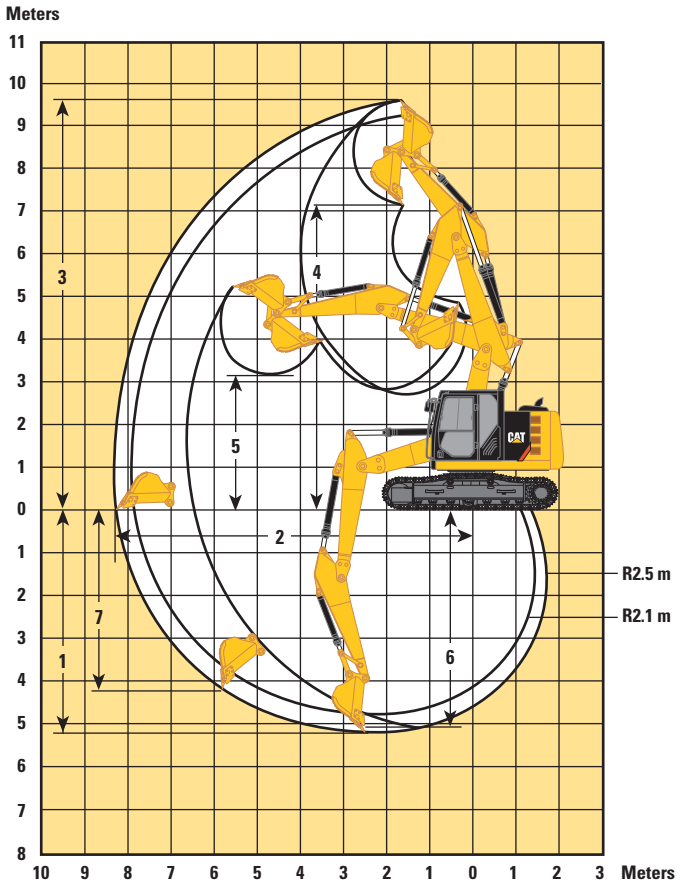


Boom Options	Reach Boom – 4.65 m			Variable Angle Boom	
Stick Options	**R3.0 m**	**R2.5 m**	**R2.1 m**	**R2.5 m**	**R2.1 m**
Bucket Type	**GD**	**GD**	**GD**	**GD**	**GD**
Bucket Capacity	**0.53 m³**	**0.53 m³**	**0.53 m³**	**0.53 m³**	**0.53 m³**
Tip Radius	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**
1 Shipping Height	2820 mm	2820 mm	2820 mm	2820 mm	2820 mm
2 Shipping Length					
Long Undercarriage	7670 mm	7670 mm	7690 mm	7730 mm	7770 mm
Long Undercarriage with Blade	7960 mm	7950 mm	7970 mm	8010 mm	8050 mm
Standard Undercarriage	7680 mm	7670 mm	7690 mm	7730 mm	7770 mm
Standard Undercarriage with Blade	7900 mm	7890 mm	7910 mm	7950 mm	7990 mm
3 Tail Swing Radius	2160 mm	2160 mm	2160 mm	2160 mm	2160 mm
4 Length to Center of Rollers					
Long Undercarriage	3040 mm	3040 mm	3040 mm	3040 mm	3040 mm
Standard Undercarriage	2780 mm	2780 mm	2780 mm	2780 mm	2780 mm
5 Track Length					
Long Undercarriage	3750 mm	3750 mm	3750 mm	3750 mm	3750 mm
Standard Undercarriage	3490 mm	3490 mm	3490 mm	3490 mm	3490 mm
6 Ground Clearance	440 mm	440 mm	440 mm	440 mm	440 mm
7 Track Gauge	1990 mm	1990 mm	1990 mm	1990 mm	1990 mm
8 Transport Width					
500 mm Shoes	2490 mm	2490 mm	2490 mm	2490 mm	2490 mm
600 mm Shoes	2590 mm	2590 mm	2590 mm	2590 mm	2590 mm
700 mm Shoes	2690 mm	2690 mm	2690 mm	2690 mm	2690 mm
9 Cab Height	2770 mm	2770 mm	2770 mm	2770 mm	2770 mm
Cab Height with Top Guard	2970 mm	2970 mm	2970 mm	2970 mm	2970 mm
10 Counterweight Clearance	890 mm	890 mm	890 mm	890 mm	890 mm

Working Ranges

All dimensions are approximate.





Boom Options	Reach Boom – 4.65 m			Variable Angle Boom	
Stick Options	**R3.0 m**	**R2.5 m**	**R2.1 m**	**R2.5 m**	**R2.1 m**
Bucket Capacity	**0.53 m³**	**0.53 m³**	**0.53 m³**	**0.53 m³**	**0.53 m³**
Tip Radius	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**	**1225 mm (J250)**
1 Maximum Digging Depth	6040 mm	5540 mm	5140 mm	5210 mm	4820 mm
2 Maximum Reach at Ground Line	8620 mm	8170 mm	7790 mm	8310 mm	7920 mm
3 Maximum Cutting Height	8710 mm	8490 mm	8230 mm	9610 mm	9250 mm
4 Maximum Loading Height	6330 mm	6100 mm	5850 mm	7160 mm	6810 mm
5 Minimum Loading Height	1530 mm	2020 mm	2420 mm	2750 mm	3110 mm
6 Maximum Depth Cut for 2440 mm Level Bottom	5860 mm	5330 mm	4900 mm	5090 mm	4680 mm
7 Maximum Vertical Wall Digging Depth	5200 mm	4840 mm	4380 mm	4260 mm	3840 mm

Operating Weights and Ground Pressures

	700 mm Shoes		600 mm Shoes		500 mm Shoes	
	Weight	Ground Pressure	Weight	Ground Pressure	Weight	Ground Pressure
Long Undercarriage – 2.2 mt Counterweight without Blade						
Reach Boom – 4.65 m						
R3.0 m Stick	14 100 kg	30.0 kPa	13 800 kg	34.3 kPa	13 500 kg	40.3 kPa
R2.5 m Stick	14 000 kg	29.8 kPa	13 700 kg	34.0 kPa	13 400 kg	40.0 kPa
R2.1 m Stick	14 000 kg	29.8 kPa	13 700 kg	34.0 kPa	13 500 kg	40.3 kPa
Variable Angle Boom						
R2.5 m Stick	14 700 kg	31.3 kPa	14 440 kg	35.9 kPa	14 200 kg	42.3 kPa
R2.1 m Stick	14 700 kg	31.3 kPa	14 500 kg	36.0 kPa	14 200 kg	42.3 kPa
Long Undercarriage – 2.2 mt Counterweight with Blade						
Reach Boom – 4.65 m						
R3.0 m Stick	14 900 kg	31.7 kPa	14 600 kg	36.3 kPa	14 400 kg	42.9 kPa
R2.5 m Stick	14 800 kg	31.5 kPa	14 500 kg	36.0 kPa	14 300 kg	42.6 kPa
R2.1 m Stick	14 800 kg	31.5 kPa	14 500 kg	36.0 kPa	14 300 kg	42.6 kPa
Variable Angle Boom						
R2.5 m Stick	15 600 kg	33.2 kPa	15 300 kg	38.0 kPa	15 000 kg	44.7 kPa
R2.1 m Stick	15 600 kg	33.2 kPa	15 300 kg	38.0 kPa	15 000 kg	44.7 kPa
Standard Undercarriage – 2.2 mt Counterweight without Blade						
Reach Boom – 4.65 m						
R3.0 m Stick	13 700 kg	29.2 kPa	13 500 kg	33.5 kPa	13 200 kg	39.4 kPa
R2.5 m Stick	13 600 kg	29.0 kPa	13 400 kg	33.3 kPa	13 200 kg	39.4 kPa
R2.1 m Stick	13 700 kg	29.2 kPa	13 400 kg	33.3 kPa	13 200 kg	39.4 kPa
Variable Angle Boom						
R2.5 m Stick	13 400 kg	28.5 kPa	14 100 kg	35.0 kPa	13 900 kg	41.5 kPa
R2.1 m Stick	13 400 kg	28.5 kPa	14 100 kg	35.0 kPa	13 900 kg	41.5 kPa
Standard Undercarriage – 2.2 mt Counterweight with Blade						
Reach Boom – 4.65 m						
R3.0 m Stick	14 600 kg	31.1 kPa	14 300 kg	35.5 kPa	14 100 kg	42.0 kPa
R2.5 m Stick	14 500 kg	30.9 kPa	14 200 kg	35.3 kPa	14 000 kg	41.7 kPa
R2.1 m Stick	14 500 kg	30.9 kPa	14 200 kg	35.3 kPa	14 000 kg	41.7 kPa
Variable Angle Boom						
R2.5 m Stick	15 200 kg	32.4 kPa	14 900 kg	37.0 kPa	14 700 kg	43.8 kPa
R2.1 m Stick	15 200 kg	32.4 kPa	14 900 kg	37.0 kPa	14 700 kg	43.8 kPa

Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	5190
Long Undercarriage	2600
Standard Undercarriage	2410
Counterweight 2.2 mt	2200
Boom (includes lines, pins and stick cylinder)	
Reach Boom – 4.65 m	1010
VA Boom	1760
Stick (includes lines, pins, bucket cylinder, and bucket linkage)	
R3.0 m	670
R2.5 m	590
R2.1 m	600
Track Shoe (Long/per two tracks)	
500 mm Triple Grouser	1560
600 mm Triple Grouser	1820
700 mm Triple Grouser	2100
Track Shoe (Standard/per two tracks)	
700 mm Triple Grouser	1950
Quick Coupler (NEW Pin Grabber Coupler) with Pin	210
Blade	
2500 mm	810
2600 mm	810
2700 mm	820
Bucket with Sidecutter and Tip	
GD 0.53 m^3	440

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

Base machine includes 75 kg operator weight, 90% fuel weight, and undercarriage with center guard.

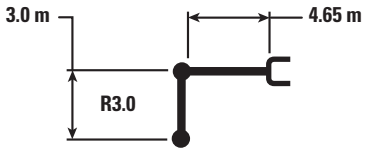
Bucket and Stick Forces

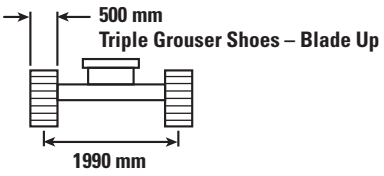
Boom Options	**Reach Boom – 4.65 m**			**Variable Angle Boom**	
Stick Options	**R3.0 m**	**R2.5 m**	**R2.1 m**	**R2.5 m**	**R2.1 m**
Bucket	**0.53 m^3**	**0.53 m^3**	**0.53 m^3**	**0.53 m^3**	**0.53 m^3**
Bucket Digging Force (SAE)	85 kN	85 kN	85 kN	85 kN	85 kN
Bucket Digging Force (ISO)	95 kN	95 kN	95 kN	95 kN	95 kN
Stick Digging Force (SAE)	57 kN	64 kN	71 kN	64 kN	71 kN
Stick Digging Force (ISO)	58 kN	65 kN	74 kN	65 kN	74 kN

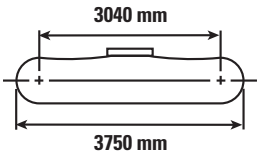
313F/313F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Long Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm				mm
7500 mm	kg											*2550	*2550	4370
6000 mm	kg											*2100	*2100	5950
4500 mm	kg							*3150	2650			*2000	*2000	6860
3000 mm	kg					*3850	*3850	*3450	2550			*2000	1850	7360
1500 mm	kg			*7550	6700	*4900	3700	3600	2450	*2150	1750	*2050	1750	7520
0 mm	kg			*7850	6250	5400	3500	3500	2350			*2300	1750	7380
–1500 mm	kg	*4500	*4500	*9300	6150	5300	3400	3450	2300			*2700	1900	6910
–3000 mm	kg	*7500	*7500	*8550	6200	5300	3400	3500	2300			3450	2300	6040
–4500 mm	kg			*6450	6400	*4050	3550					*4000	3500	4530

* ISO 10567

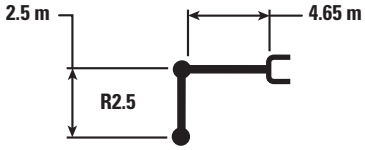
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

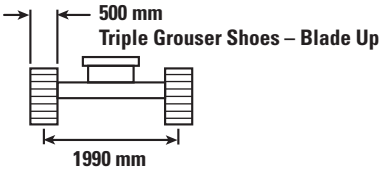
Lift capacity stays with ±5% for all available track shoes.

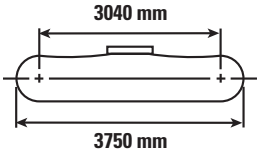
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Long Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
6000 mm	kg					*3350	*3350			*2450	*2450	5380
4500 mm	kg					*3550	*3550	*3500	2600	*2250	*2250	6370
3000 mm	kg			*5850	*5850	*4350	3900	3750	2550	*2250	2050	6900
1500 mm	kg			*8450	6550	*5300	3650	3600	2450	*2350	1950	7080
0 mm	kg			*6900	6250	5400	3500	3550	2350	*2600	1950	6930
–1500 mm	kg	*4850	*4850	*9200	6250	5350	3450	3500	2350	*3100	2150	6430
–3000 mm	kg	*8750	*8750	*8050	6300	5400	3450			4050	2700	5480

* ISO 10567

*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.

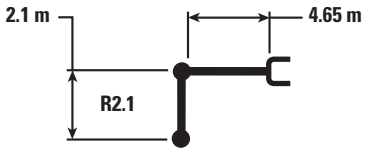
Lift capacity stays with ±5% for all available track shoes.

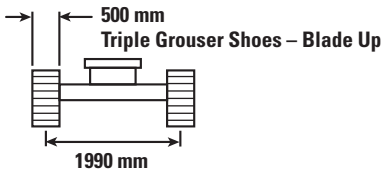
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

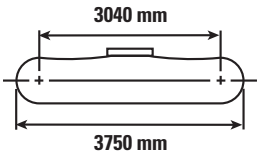
313F/313F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Long Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
6000 mm	kg					*3800	*3800			*3000	*3000	4870
4500 mm	kg					*3900	3800			*2750	2450	5950
3000 mm	kg			*6550	*6550	*4650	3650	3650	2350	*2700	2100	6520
1500 mm	kg					5500	3400	3550	2300	*2850	1950	6700
0 mm	kg			*6250	5850	5350	3250	3500	2200	3100	2000	6550
–1500 mm	kg	*5300	*5300	*8900	5850	5300	3200	3500	2200	3500	2200	6010
–3000 mm	kg			*7450	6000	*5100	3300			*4350	2900	4980

* ISO 10567

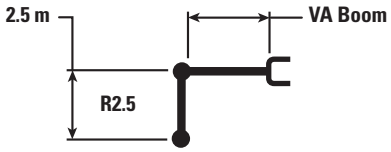
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

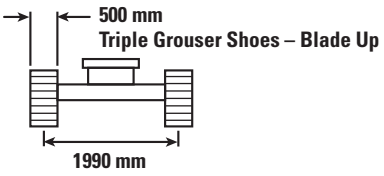
Lift capacity stays with ±5% for all available track shoes.

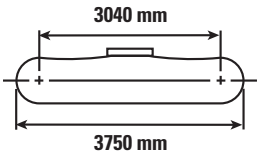
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Variable Angle Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Long Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
7500 mm	kg			*2850	*2850					*2750	*2750	3800
6000 mm	kg			*4350	*4350	*2250	*2250			*2150	*2150	5550
4500 mm	kg			*4550	*4550	*2900	*2900	*2000	*2000	*2000	*2000	6520
3000 mm	kg	*11 300	*11 300	*5200	*5200	*3600	*3600	*2100	*2100	*1950	1900	7040
1500 mm	kg	*4450	*4450	*6000	*6000	*4250	3550	*2350	2350	*2050	1800	7210
0 mm	kg	*3850	*3850	*6200	5950	5300	3300	*2700	2250	*2200	1800	7060
–1500 mm	kg	*5900	*5900	*6900	5900	*5100	3250	*3150	2200	*2600	2000	6570
–3000 mm	kg	*11 050	*11 050	*5450	*5450	*3450	3300			*2850	2600	5390

* ISO 10567

*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.

VA cylinder is flexible.

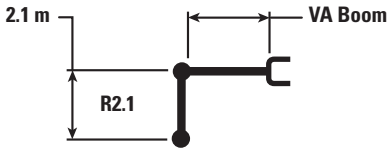
Lift capacity stays with ±5% for all available track shoes.

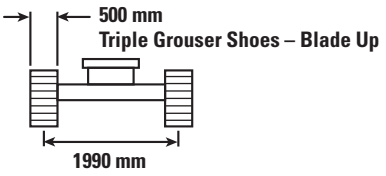
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

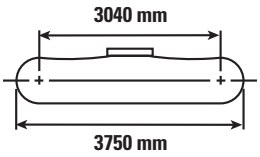
313F/313F L Hydraulic Excavator Specifications

Variable Angle Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Long Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
7500 mm	kg									*3700	*3700	3000
6000 mm	kg			*5300	*5300	*2700	*2700			*2700	*2700	5040
4500 mm	kg			*5300	*5300	*2500	*2500	*2500	*2500	*2450	2400	6090
3000 mm	kg	*11 000	*11 000	*5100	*5100	*3850	3750	*2550	2450	*2400	2050	6650
1500 mm	kg			*6800	6200	*4550	3450	*2850	2300	*2500	1900	6830
0 mm	kg	*5050	*5050	*5550	*5550	5250	3250	*3300	2250	*2750	1950	6670
–1500 mm	kg	*7500	*7500	*6050	5900	*4750	3250	*3150	2200	*2850	2150	6150
–3000 mm	kg	*11 900	*11 900	*5400	*5400	*3500	3350			*3350	3200	4660

* ISO 10567

*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.

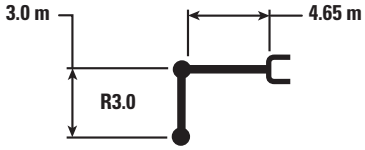
VA cylinder is flexible.

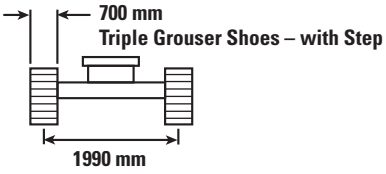
Lift capacity stays with ±5% for all available track shoes.

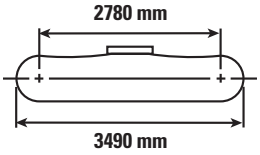
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Standard Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm		7500 mm				
														mm
7500 mm	kg											*2550	*2550	4370
6000 mm	kg											*2100	*2100	5950
4500 mm	kg							*3150	2500			*2000	*2000	6860
3000 mm	kg					*3850	3800	3350	2450			*2000	1750	7360
1500 mm	kg			*7550	6400	*4900	3550	3250	2350	*2150	1650	*2050	1650	7520
0 mm	kg			*7850	5950	4750	3300	3150	2250			*2300	1650	7380
–1500 mm	kg	*4500	*4500	9150	5850	4650	3200	3100	2200			2550	1800	6910
–3000 mm	kg	*7500	*7500	*8550	5900	4650	3200	3100	2200			3100	2200	6040
–4500 mm	kg			*6450	6100	*4050	3350					*4000	3350	4530

* ISO 10567

*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.

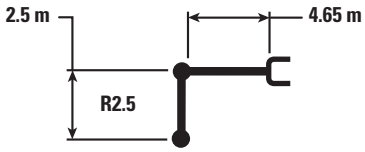
Lift capacity stays with ±5% for all available track shoes.

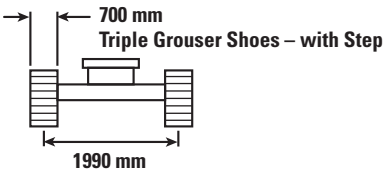
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

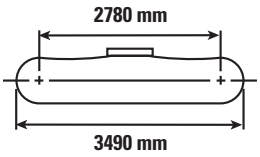
313F/313F L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Standard Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
6000 mm	kg					*3350	*3350			*2450	*2450	5380
4500 mm	kg					*3550	*3550	3400	2500	*2250	*2250	6370
3000 mm	kg			*5850	*5850	*4350	3750	3350	2450	*2250	1950	6900
1500 mm	kg			*8450	6300	5000	3500	3250	2350	*2350	1850	7080
0 mm	kg			*6900	6000	4800	3350	3150	2250	*2600	1850	6930
–1500 mm	kg	*4850	*4850	*9200	5950	4700	3250	3150	2250	2850	2050	6430
–3000 mm	kg	*8750	*8750	*8050	6050	4750	3300			3600	2550	5480

* ISO 10567

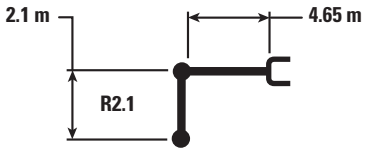
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

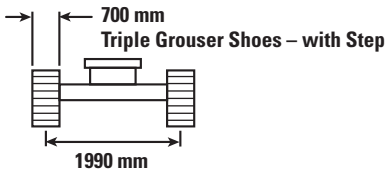
Lift capacity stays with ±5% for all available track shoes.

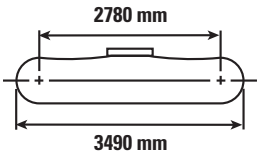
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

Reach Boom Lift Capacities – Counterweight: 2.2 mt – with Bucket Linkages, without Bucket

Standard Undercarriage







		1500 mm		3000 mm		4500 mm		6000 mm				
												mm
6000 mm	kg					*3800	*3800			*3000	*3000	4870
4500 mm	kg					*3900	3850			*2750	2450	5950
3000 mm	kg			*6550	*6550	*4650	3650	3300	2400	*2700	2100	6520
1500 mm	kg					4900	3450	3200	2300	2750	1950	6700
0 mm	kg			*6250	5900	4750	3300	3150	2250	2800	2000	6550
–1500 mm	kg	*5300	*5300	*8900	5900	4700	3250	3150	2250	3150	2250	6010
–3000 mm	kg			*7450	6050	4800	3350			4150	2950	4980

* ISO 10567

*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 with ±5% for all available track shoes.

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

Work Tool Offering Guide* – Europe

Boom Type	Reach Boom			Variable Angle Boom	
Stick Size	**R3.0 m**	**R2.5 m**	**R2.1 m**	**R2.5 m**	**R2.1 m**
Hydraulic Hammer	H110Es H115Es	H110Es H115Es	H110Es H115Es	H110Es H115Es***	H110Es H115Es***
Demolition and Sorting Grapple	G310B (pin-on only)	G310B	G310B		
Mobile Scrap and Demolition Shear	S320B**	S320B**	S320B**	S320B**	S320B**
Compactor (Vibratory Plate)	CVP75	CVP75	CVP75	CVP75	CVP75
Contractors' Grapple	G112B	G112B	G112B	G112B	G112B
Orange Peel Grapple	These work tools are available for the 313F L. Consult your Cat dealer for proper match.				
Trash Grapple					
Center-Lock™ Pin Grabber Coupler					
Dedicated Quick Coupler					

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

**Boom mount.

***Pin-on or CW coupler.

Work Tool Offering Guide* – Australia/New Zealand

Boom Type	Reach Boom	
Stick Size	**R3.0 m**	**R2.5 m**
Hydraulic Hammer	H95Es H110Es H115Es	H95Es H110Es H115Es
Demolition & Sorting Grapple	G310B***#	G310B**###
Mobile Scrap and Demolition Shear	S320B##	S320B##
Compactor (Vibratory Plate)	CVP75	CVP75
Contractors' Grapple	G112B	G112B
Orange Peel Grapple	These work tools are available for the 313F L. Consult your Cat dealer for proper match.	
Trash Grapple		
Thumbs		
Rakes		
Center-Lock Pin Grabber Coupler		
Dedicated Quick Coupler		

*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.

##Boom mount.

###Over the front only with CW coupler.

Bucket Specifications and Compatibility – Europe

	Width	Capacity	Weight	Fill	Reach Boom			VA Boom	
	mm	m^3	kg	%	R3.0 m	R2.5 m	R2.1 m	R2.5 m	R2.1 m
Without Quick Coupler									
General Duty (GD)	600	0.31	315	100%	●	●	●	●	●
	750	0.41	362	100%	●	●	●	●	●
	900	0.53	411	100%	●	●	●	●	●
	1000	0.60	436	100%	●	●	●	●	●
	1100	0.68	470	100%	◉	●	●	◉	●
	1200	0.76	499	100%	⊖	◉	●	⊖	◉
Heavy Duty (HD)	450	0.20	276	100%	●	●	●	●	●
	1200	0.76	506	100%	⊖	◉	●	⊖	◉
Maximum load pin-on (payload + bucket)				kg	1745	1970	2125	1760	1895
With Center-Lock Quick Coupler									
General Duty (GD)	600	0.31	315	100%	●	●	●	●	●
	750	0.41	362	100%	●	●	●	●	●
	900	0.53	411	100%	●	●	●	●	●
	1000	0.60	436	100%	●	●	●	●	●
	1100	0.68	470	100%	◉	●	●	◉	●
	1200	0.76	499	100%	⊖	◉	●	⊖	◉
Heavy Duty (HD)	450	0.20	276	100%	●	●	●	●	●
	1200	0.76	506	100%	⊖	◉	●	⊖	◉
Maximum load with coupler (payload + bucket)				kg	1499	1724	1879	1514	1649

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.

Maximum Material Density:

● 2100 kg/m^3

◉ 1800 kg/m^3

⊖ 1500 kg/m^3

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.

313F/313F L Hydraulic Excavator Specifications

Bucket Specifications and Compatibility – Europe

	Width	Capacity	Weight	Fill	Reach Boom			VA Boom	
	mm	m^3	kg	%	R3.0 m	R2.5 m	R2.1 m	R2.5 m	R2.1 m
With Quick Coupler (CW20/CW20s)									
General Duty (GD)	450	0.20	300	100%	●	●	●	●	●
	500	0.24	309	100%	●	●	●	●	●
	600	0.31	328	100%	●	●	●	●	●
	750	0.41	374	100%	●	●	●	●	●
	900	0.53	423	100%	●	●	●	●	●
	1000	0.60	452	100%	◉	●	●	◉	●
	1100	0.68	482	100%	⊖	◉	●	⊖	◉
	1200	0.76	511	100%	○	⊖	◉	○	⊖
Heavy Duty (HD)	500	0.24	319	100%	●	●	●	●	●
	1200	0.76	511	100%	○	⊖	◉	○	⊖
Maximum load with coupler (payload + bucket)				kg	1534	1759	1914	1549	1684

Bucket Specifications and Compatibility – Australia/New Zealand

					313F		313F L	
	Width	Capacity	Weight	Fill	Reach Boom		Reach Boom	
	mm	m^3	kg	%	R3.0 m	R2.5 m	R3.0 m	R2.5 m
With Center-Lock Quick Coupler								
General Duty (GD)	450	0.20	235	100%	●	●	●	●
	500	0.24	285	100%	●	●	●	●
	600	0.31	308	100%	●	●	●	●
	750	0.41	355	100%	●	●	●	●
	900	0.53	404	100%	◉	●	◉	●
	1050	0.65	452	100%	⊖	⊖	⊖	◉
	1200	0.76	492	100%	○	○	○	⊖
Maximum load with coupler (payload + bucket)				kg	1379	1469	1429	1644

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.

Maximum Material Density:

- ● 2100 kg/m^3
- ◉ 1800 kg/m^3
- ⊖ 1500 kg/m^3
- ○ 1200 kg/m^3

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.

Standard Equipment

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

ENGINE
- C4.4 ACERT diesel engine
- Biodiesel capable up to B20
- Meets Tier 4 Final and Stage IV 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
- 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
- Jump start receptacle
- Engine idle shutdown function

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
- Seat, high-back air suspension with heater
- 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
- 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)
- Laminated glass front upper window and tempered other windows

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

COUNTERWEIGHT
- 2.2 mt

ELECTRICAL
- Circuit breaker
- Capability to electrically connect a beacon
- Capability of installing electric fuel lifting pump

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 and side-view cameras

TECHNOLOGY
- Product Link

Optional Equipment

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

ENGINE
- Quick drains, engine and hydraulic oil

HYDRAULIC SYSTEM
- Control pattern quick-changer, two way
- Auxiliary hydraulics
- Boom and stick lines
- High-pressure line
- Medium-pressure line
- Cat quick coupler line – high-pressure capable
- Boom lowering and stick lowering control device
- Cat Bio hydraulic oil
- Electric refueling pumping

CAB
- Seat, high-back air suspension with heater
- Seat, high-back mechanical suspension (Europe only)
- Windshield wiper, lower with washer
- Air pre-filter
- Left foot switch
- Left pedal
- Straight travel pedal
- Rain protector
- Roll-down sun screen
- AM/FM radio (ANZ only)

UNDERCARRIAGE
- Standard undercarriage
- Long undercarriage
- 500 mm triple grouser shoes
- 500 mm triple grouser shoes (with/without rubber pad)
- 600 mm triple grouser shoes (Long undercarriage only)
- 700 mm triple grouser shoes
- Guard, standard bottom
- Center track guiding guard
- 2500 mm blade with replaceable cutting edge
- 2600 mm blade with replaceable cutting edge
- 2700 mm blade with replaceable cutting edge
- Swivel guard

FRONT LINKAGE
- Quick coupler
- Bucket linkage, with lifting eyes
- 4.65 m Reach boom
  - 3.0 m stick
  - 2.5 m stick
  - 2.5 m stick with Cat grade control
  - 2.1 m stick
- Variable Angle boom
  - 2.5 m stick
  - 2.1 m stick

LIGHTS
- Working lights, cab mounted with time delay
- HID lights, cab mounted with time delay
- Halogen boom lights (right side)

SECURITY
- FOGS, bolt-on
- Side steel bumper
- Guard rail
- Guard, cab front, mesh
- Guard, vandalism

TECHNOLOGY
- Cat Grade Control Depth and Slope