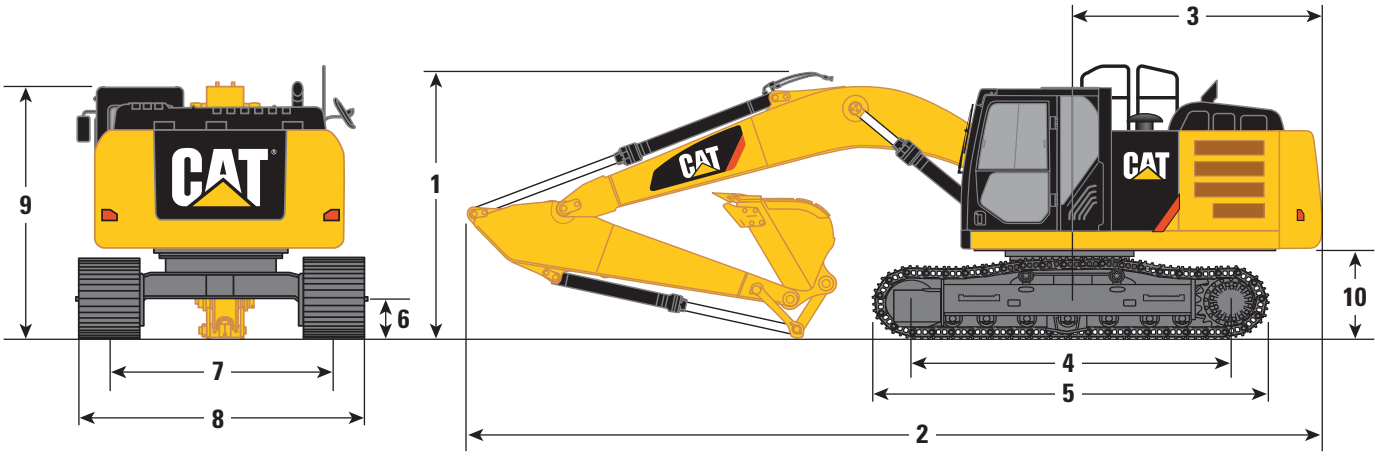
324E Hydraulic Excavator

Dimensions

All dimensions are approximate.



		ES & HD Reach Booms 5.9 m		Mass Boom 5.3 m	Variable Angle Booms 2.8 m (Stub), 3.3 m (Fore)		Super Long Reach Boom 10.2 m
	Stick	**R2.95CB1**	**R2.5CB1**	**M2.5DB**	**R2.95CB1**	**R2.5CB1**	**Super Long Reach 7.85 m**
		mm	**mm**	**mm**	**mm**	**mm**	**mm**
1	Shipping Height*	3221	3410	3500	3115	3115	3229
	Shipping Height with Guard Rail (without fronts)	3283	3283	3283	3283	3283	3283
	Shipping Height with Top Guard (without fronts)	3190	3190	3190	3190	3190	3190
2	Shipping Length	10 063	10 100	9480	10 202	10 199	14 352
3	Tail Swing Radius	2947	2947	2947	2947	2947	2947
4	Length to Center of Rollers						
	Long Undercarriage	3830	3830	3830	3830	3830	3830
	Long Narrow Undercarriage	3830	3830	3830	3830	3830	–
5	Track Length						
	Long Undercarriage	4640	4640	4640	4640	4640	4640
	Long Narrow Undercarriage	4640	4640	4640	4640	4640	–
6	Ground Clearance						
	Long Undercarriage	440	440	440	440	440	440
	Long Narrow Undercarriage	440	440	440	440	440	–
7	Track Gauge						
	Long Undercarriage	2590	2590	2590	2590	2590	2590
	Long Narrow Undercarriage	2390	2390	2390	2390	2390	–
8	Transport Width						
	Long Undercarriage – 600 mm Shoes	3190	3190	3190	3190	3190	3190
	Long Undercarriage – 700 mm Shoes	3290	3290	3290	3290	3290	3290
	Long Undercarriage – 790 mm Shoes	3380	3380	3380	3380	3380	3380
	Long Undercarriage – 900 mm Shoes	3490	3490	3490	3490	3490	3490
	Long Narrow Undercarriage – 600 mm Shoes	2990	2990	2990	2990	2990	–
	Long Narrow Undercarriage – 700 mm Shoes	3090	3090	3090	3090	3090	–
	Long Narrow Undercarriage – 790 mm Shoes	3180	3180	3180	3180	3180	–
9	Cab Height	2996	2996	2996	2996	2996	2996
	Cab Height with Top Guard	3190	3190	3190	3190	3190	3190
10	Counterweight Clearance**	1088	1088	1088	1088	1088	1088

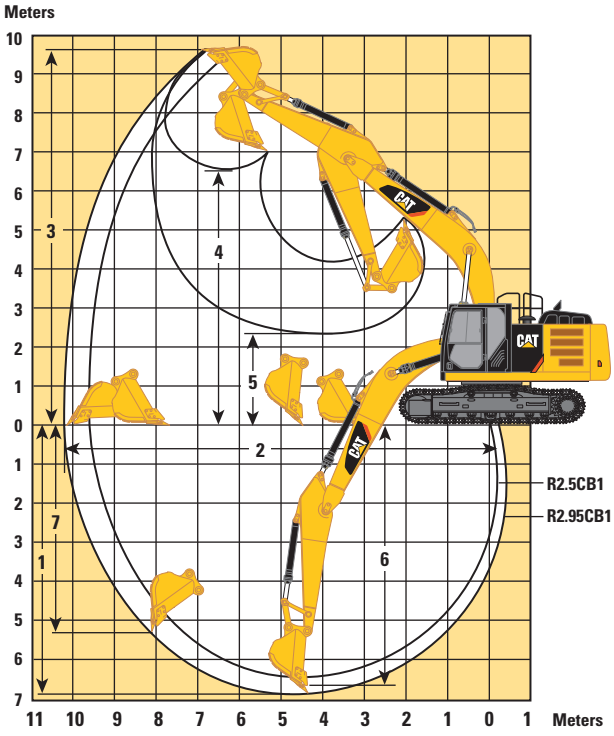
*Including shoe lug height.

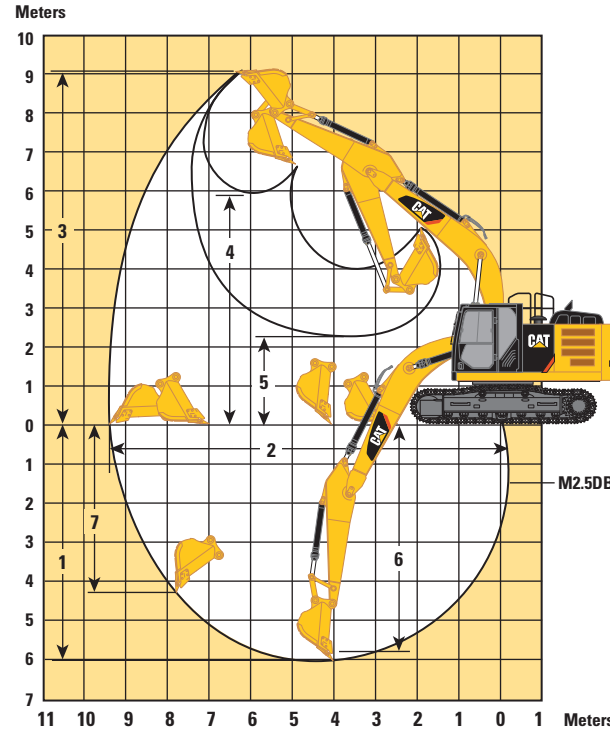
**Without shoe lug height.

324E Hydraulic Excavator

Working Ranges

All dimensions are approximate.



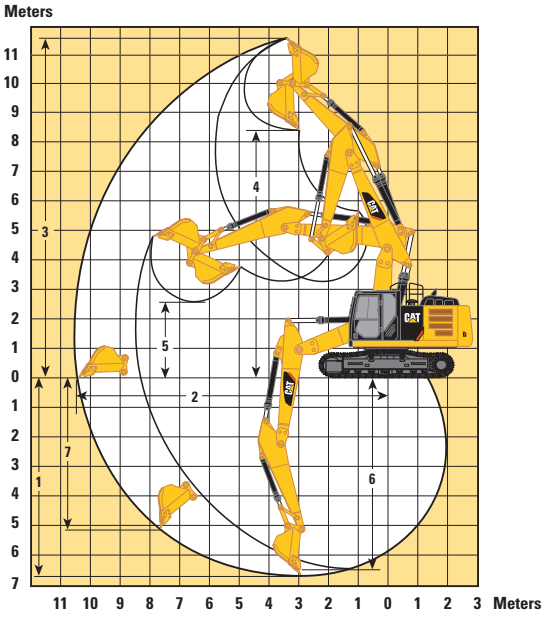


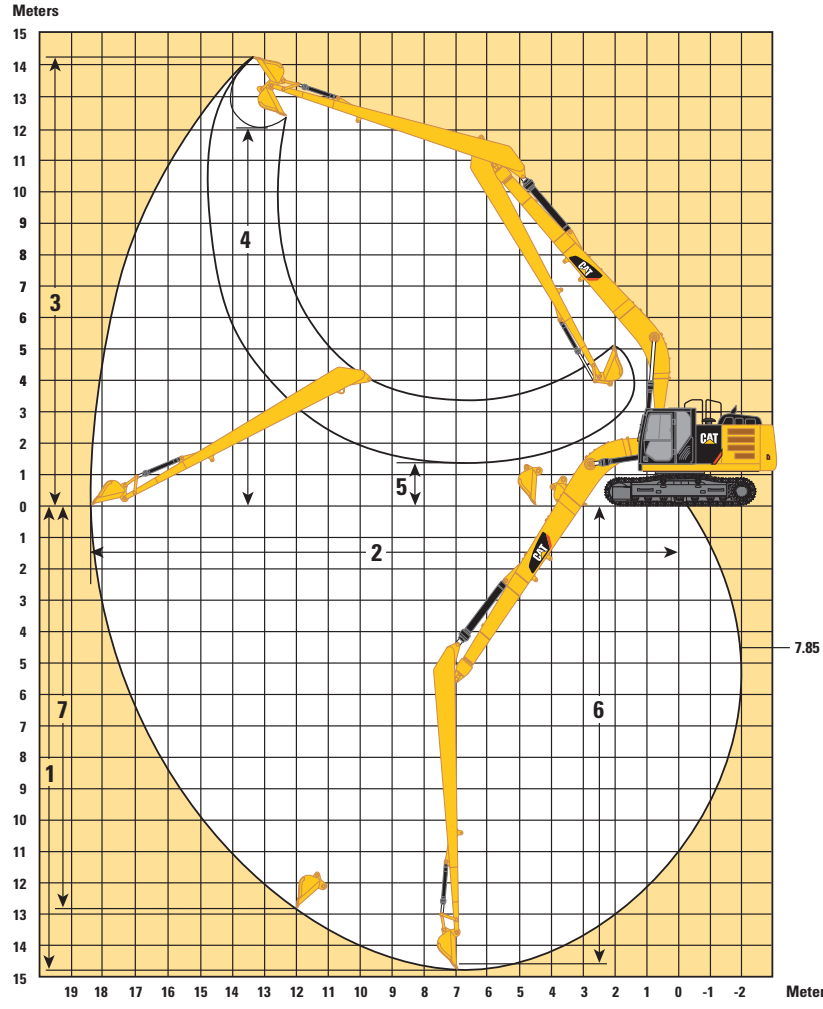
		ES & HD Reach Booms 5.9 m		Mass Boom 5.3 m
	Stick	**R2.95CB1**	**R2.5CB1**	**M2.5DB**
		mm	**mm**	**mm**
1	Maximum Digging Depth	6810	6360	6000
2	Maximum Reach at Ground Level	10 110	9690	9200
3	Maximum Cutting Height	9690	9490	9060
4	Maximum Loading Height	7450	6440	5890
5	Minimum Loading Height	2410	2860	2280
6	Maximum Depth Cut for 2440 mm Level Bottom	6640	6160	5810
7	Maximum Vertical Wall Digging Depth	5300	4870	4250

324E Hydraulic Excavator

Working Ranges

All dimensions are approximate.





	Variable Angle Booms 2.8 m (Stub), 3.3 m (Fore)		Super Long Reach Boom 10.2 m
Stick	**R2.95CB1**	**R2.5CB1**	**Super Long Reach 7.85 m**
	mm	**mm**	**mm**
1 Maximum Digging Depth	6690	6250	14 730
2 Maximum Reach at Ground Level	10 330	9920	18 430
3 Maximum Cutting Height	11 600	11 260	14 260
4 Maximum Loading Height	8320	7980	12 030
5 Minimum Loading Height	3320	3890	1370
6 Maximum Depth Cut for 2440 mm Level Bottom	6590	6150	14 640
7 Maximum Vertical Wall Digging Depth	5100	4680	12 800

324E Hydraulic Excavator

Operating Weight and Ground Pressure

	900 mm Triple Grouser Shoes		790 mm Triple Grouser Shoes		700 mm Triple Grouser Shoes		600 mm Triple Grouser Shoes	
	kg	kPa	kg	kPa	kg	kPa	kg	kPa
Long Undercarriage								
HD Reach Boom – 5.9 m								
R2.95CB1 HD	26 067	37.1	25 887	42.0	25 627	46.9	25 187	53.7
R2.5CB1 HD	26 007	37.0	25 827	41.9	25 567	46.8	25 127	53.6
ES Reach Boom – 5.9 m								
R2.95CB1 ES	26 297	37.4	26 117	42.3	25 857	47.3	25 417	54.2
R2.5CB1 ES	26 207	37.3	26 027	42.2	25 767	47.1	25 327	54.0
Mass Boom – 5.3 m								
M2.5DB	26 487	37.7	26 307	42.6	26 047	47.6	25 607	54.6
Super Long Reach Boom – 10.2 m								
7.85 m (SLR)	29 659	42.2	29 479	47.8	29 219	53.4	28 779	61.4
Variable Angle Boom – 2.8 m (Stub), 3.3 m (Fore)								
R2.95CB1 HD	26 609	37.9	26 429	42.8	26 169	47.9	25 729	54.9
R2.5CB1 HD	26 549	37.8	26 369	42.7	26 109	47.8	25 669	54.8
Long Narrow Undercarriage								
HD Reach Boom – 5.9 m								
R2.95CB1 HD	–	–	26 087	42.3	25 827	47.2	25 387	54.2
R2.5CB1 HD	–	–	26 027	42.2	25 767	47.1	25 327	54.0
ES Reach Boom – 5.9 m								
R2.95CB1 ES	–	–	26 317	42.6	26 057	47.7	25 617	54.7
R2.5CB1 ES	–	–	26 227	42.5	25 967	47.5	25 527	54.5
Mass Boom – 5.3 m								
M2.5DB	–	–	26 507	43.0	26 247	48.0	25 807	55.1
Variable Angle Boom – 2.8 m (Stub), 3.3 m (Fore)								
R2.95CB1 HD	–	–	26 629	43.2	26 369	48.2	25 929	55.3
R2.5CB1 HD	–	–	26 569	43.1	26 309	48.1	25 869	55.2

324E Hydraulic Excavator

Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Undercarriage	14 300
Long Narrow Undercarriage	14 500
Counterweight	
4.0 mt	4020
6.75 mt	6750
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 5.9 m	1740
ES Reach Boom – 5.9 m	1840
Mass Boom – 5.3 m	1850
Super Long Reach – 10.2 m	2800
Variable Angle Boom (Stub)	1032
Variable Angle Boom (Fore)	1250
Stick (includes lines, pins and bucket cylinder)	
R2.95CB1 HD	840
R2.5CB1 HD	780
R2.95CB1 ES	970
R2.5CB1 ES	880
M2.5DB	970
7.85 m (SLR)	1400
Track Shoe (Long/per two tracks)	
600 mm Triple Grouser	3240
700 mm Triple Grouser	3680
790 mm Triple Grouser	3940
900 mm Triple Grouser	4120
Track Shoe (Long Narrow/per two tracks)	
600 mm Triple Grouser	3240
700 mm Triple Grouser	3680
790 mm Triple Grouser	3940
Buckets	
CB1 1200HD – 1.33 m^3	1047
CB1 1350HD – 1.54 m^3	1096
DB 1500GD – 1.87 m^3	1227
A 1145DC – 0.6 m^3	288.9

All weights are rounded up to nearest 10 kg except for buckets. Kg was rounded up separately so some of the kg do not match.

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

Bucket and Stick Forces

	Reach and Variable Angle Booms 5.9 m (Reach); 2.8 m (VAB Stub), 3.3 m (VAB Fore)				Mass Boom 5.3 m	Super Long Reach Boom 10.2 m
	CB-Family Bucket		CB-Family Bucket for CW-45		DB-Family Bucket	A-Family Bucket
Stick	R2.95CB1	R2.5CB1	R2.95CB1	R2.5CB1	M2.5DB	Super Long Reach 7.85 m
	kN	kN	kN	kN	kN	kN
General Duty						
Bucket Digging Force (ISO)	167	167	152	152	212	–
Stick Digging Force (ISO)	121	141	116	135	138	–
Heavy Duty						
Bucket Digging Force (ISO)	166	166	152	152	210	–
Stick Digging Force (ISO)	121	141	116	135	137	–
Severe Duty						
Bucket Digging Force (ISO)	166	166	–	–	–	–
Stick Digging Force (ISO)	121	141	–	–	–	–
Ditch Cleaning						
Bucket Digging Force (ISO)	–	–	–	–	–	60
Stick Digging Force (ISO)	–	–	–	–	–	45

Tip Radius

	CB-Family Bucket	CB-Family Bucket for CW-45	DB-Family Bucket	A-Family Bucket
General Duty	1623 mm	1772 mm	1745 mm	–
General Duty Capacity	1656 mm	–	–	–
Heavy Duty	1650 mm	1798 mm	1779 mm	–
Severe Duty	1650 mm	–	–	–
Ditch Cleaning	–	–	–	1092 mm

324E Hydraulic Excavator

324E L Heavy Duty Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.9 m
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg							*7100	*7100			*5900	*5900	6.42
6.0 m	kg							*7200	7050	*5650	4900	*5600	4850	7.51
4.5 m	kg					*9400	*9400	*8050	6800	7200	4800	*5600	4200	8.18
3.0 m	kg					*12 050	9950	*9250	6500	7000	4650	5750	3850	8.53
1.5 m	kg					*14 350	9300	9600	6200	6850	4500	5600	3700	8.61
Ground Line	kg					14 950	9000	9350	6000	6700	4400	5700	3750	8.42
–1.5 m	kg			*11 050	*11 050	14 850	8900	9250	5900	6650	4350	6150	4050	7.94
–3.0 m	kg			*18 050	17 950	*14 250	9000	9300	5950			7250	4750	7.11
–4.5 m	kg			*15 850	*15 850	*11 650	9250					*8700	6450	5.78

Boom – 5.9 m
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 700 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg							*7100	*7100			*5900	*5900	6.42
6.0 m	kg							*7200	7150	*5650	4950	*5600	4950	7.51
4.5 m	kg					*9400	*9400	*8050	6900	7300	4900	*5600	4250	8.18
3.0 m	kg					*12 050	10 100	*9250	6600	7150	4750	*5800	3900	8.53
1.5 m	kg					*14 350	9450	9750	6300	6950	4600	5650	3750	8.61
Ground Line	kg					15 200	9150	9500	6100	6850	4500	5800	3800	8.42
–1.5 m	kg			*11 050	*11 050	15 100	9050	9400	6000	6800	4450	6250	4100	7.94
–3.0 m	kg			*18 050	*18 050	*14 250	9150	9450	6000			7400	4800	7.11
–4.5 m	kg			*15 850	*15 850	*11 650	9350					*8700	6550	5.78

Boom – 5.9 m
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
7.5 m	kg											*7950	7250	5.86
6.0 m	kg							*7800	6950			*7600	5350	7.04
4.5 m	kg					*10 300	*10 300	*8600	6750	7150	4800	6750	4550	7.75
3.0 m	kg					*12 900	9800	*9700	6450	7000	4650	6200	4150	8.12
1.5 m	kg					*14 900	9200	9550	6150	6850	4500	6000	4000	8.20
Ground Line	kg					14 950	9000	9350	6000	6750	4450	6150	4050	8.00
–1.5 m	kg			*11 400	*11 400	14 900	8950	9300	5950			6750	4450	7.49
–3.0 m	kg			*18 350	18 150	*13 650	9100	9400	6000			8150	5300	6.61
–4.5 m	kg					*10 350	9400					*8800	7750	5.15

*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.

324E Hydraulic Excavator

324E L Extreme Service Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.9 m
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg							*7050	*7050			*5850	*5850	6.42
6.0 m	kg							*7150	7000	*5600	4800	*5550	4800	7.51
4.5 m	kg					*9300	*9300	*7950	6750	7100	4750	*5550	4100	8.18
3.0 m	kg					*11 900	9850	*9150	6400	6950	4600	5650	3750	8.53
1.5 m	kg					*14 200	9200	9500	6100	6750	4450	5500	3600	8.61
Ground Line	kg					14 800	8850	9250	5850	6650	4300	5600	3650	8.42
–1.5 m	kg			*11 000	*11 000	14 700	8750	9150	5800	6600	4250	6100	3950	7.94
–3.0 m	kg			*18 050	17 700	*14 050	8850	9200	5800			7150	4650	7.11
–4.5 m	kg			*15 600	*15 600	*11 500	9100					*8550	6350	5.78

Boom – 5.9 m
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*7850	7200	5.86
6.0 m	kg							*7750	6950			*7600	5300	7.04
4.5 m	kg					*10 200	*10 200	*8500	6700	7100	4700	6700	4450	7.75
3.0 m	kg					*12 750	9700	*9600	6350	6950	4600	6150	4050	8.12
1.5 m	kg					*14 750	9100	9500	6100	6800	4450	5950	3900	8.20
Ground Line	kg					14 800	8850	9250	5900	6650	4350	6100	4000	8.00
–1.5 m	kg			*11 400	*11 400	14 750	8850	9200	5850			6650	4350	7.49
–3.0 m	kg			*18 150	17 950	*13 500	8950	9300	5900			8100	5200	6.61
–4.5 m	kg					*10 250	9300					*8700	7650	5.15

*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.

324E Hydraulic Excavator

324E L Variable Angle Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 2.8 m (Stub), 3.3 m (Fore)
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 700 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
9.0 m	kg					*7300	*7300					*7300	*7300	5.04
7.5 m	kg					*8400	*8400	*6250	*6250			*6400	5950	6.72
6.0 m	kg					*8600	*8600	*6950	*6950	*6150	4950	*6100	4650	7.77
4.5 m	kg			*15 100	*15 100	*9700	*9700	*6900	*6900	*6300	4850	6050	4000	8.42
3.0 m	kg			*12 100	*12 100	*9350	*9350	*7100	6500	*6700	4650	5550	3650	8.76
1.5 m	kg			*7150	*7150	*10 800	9200	*8100	6150	6900	4500	5400	3500	8.84
Ground Line	kg	*7900	*7900	*6450	*6450	*14 300	8850	9400	5900	6750	4350	5500	3550	8.65
–1.5 m	kg	*10 250	*10 250	*9750	*9750	14 950	8800	9300	5800	6700	4300	5950	3850	8.18
–3.0 m	kg	*16 200	*16 200	*17 300	*17 300	*11 950	8900	9350	5850			*6600	4450	7.38
–4.5 m	kg	*26 100	*26 100	*17 900	*17 900	*11 250	9200					*9450	7250	5.31

Boom – 2.8 m (Stub), 3.3 m (Fore)
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 700 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
9.0 m	kg											*10 050	*10 050	4.25
7.5 m	kg					*9950	*9950	*8500	7100			*8500	6800	6.16
6.0 m	kg			*9550	*9550	*9850	*9850	*8050	7100			7700	5100	7.29
4.5 m	kg			*15 200	*15 200	*9550	*9550	*7300	6800	7250	4800	6550	4300	7.98
3.0 m	kg			*14 600	*14 600	*9400	*9400	*7500	6450	7100	4650	6000	3950	8.34
1.5 m	kg			*10 550	*10 550	*11 700	9100	*8550	6100	6900	4450	5800	3800	8.42
Ground Line	kg	*11 150	*11 150	*9450	*9450	15 000	8850	9400	5900	6800	4350	5950	3850	8.22
–1.5 m	kg	*12 850	*12 850	*11 000	*11 000	*14 050	8850	9350	5850	6750	4350	6500	4200	7.73
–3.0 m	kg	*20 700	*20 700	*17 600	*17 600	*11 100	9000	*8400	5950			*7150	5050	6.78
–4.5 m	kg			*17 950	*17 950							*14 150	12 750	3.72

*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.

324E Hydraulic Excavator

324E L Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.3 m
Stick – M2.5DB
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*7900	*7900	5.01
6.0 m	kg							*8250	6850			*7200	6200	6.35
4.5 m	kg					*9850	*9850	*8650	6700			*7050	5050	7.13
3.0 m	kg					*12 200	9900	*9650	6400	6900	4550	6850	4500	7.54
1.5 m	kg					*14 400	9300	9550	6100	6750	4400	6600	4300	7.62
Ground Line	kg					14 950	8950	9300	5900			6800	4400	7.41
–1.5 m	kg			*17 100	*17 100	14 900	8900	9250	5850			7600	4900	6.85
–3.0 m	kg			*18 400	18 050	*13 200	9050					*9550	6200	5.87

*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.

324E Hydraulic Excavator

324E L Super Long Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 10.2 m
Stick – 7.85 m Super Long Reach
Counterweight – 6.75 mt
Shoes – 790 mm triple grouser with step
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
																m
12.0 m	kg													*1350	*1350	13.94
10.5 m	kg													*1300	*1300	14.93
9.0 m	kg													*1250	*1250	15.72
7.5 m	kg													*1250	*1250	16.32
6.0 m	kg													*1250	*1250	16.78
4.5 m	kg													*1300	*1300	17.08
3.0 m	kg			*4850	*4850							*3650	*3650	*1300	1300	17.25
1.5 m	kg			*1550	*1550	*5500	*5500	*6500	*6500	*5050	4950	*4200	3850	*1350	1250	17.29
Ground Line	kg			*1650	*1650	*3650	*3650	*7550	5950	*5750	4500	*4700	3550	*1450	1250	17.20
–1.5 m	kg	*1600	*1600	*2100	*2100	*3550	*3550	*6600	5450	*6350	4100	*5100	3250	*1550	1250	16.97
–3.0 m	kg	*2200	*2200	*2700	*2700	*3850	*3850	*6250	5150	6450	3900	5050	3050	*1650	1250	16.60
–4.5 m	kg	*2800	*2800	*3300	*3300	*4400	*4400	*6550	5050	6300	3750	4900	2950	*1850	1300	16.09
–6.0 m	kg	*3400	*3400	*4000	*4000	*5100	*5100	*7200	5000	6250	3700	4850	2900	*2050	1400	15.41
–7.5 m	kg	*4100	*4100	*4750	*4750	*5950	*5950	*8200	5050	6250	3700	4850	2900	*2400	1550	14.54
–9.0 m	kg	*4800	*4800	*5600	*5600	*7000	*7000	*8550	5200	6350	3800	4900	2950	*2900	1750	13.45
–10.5 m	kg	*5600	*5600	*6600	*6600	*8250	*8250	*7900	5400	*6400	3900	5000	3050	3450	2100	12.07
–12.0 m	kg			*7750	*7750	*8800	*8800	*6900	5700	*5600	4150	*4600	3250	*3800	2750	10.29

		10.5 m		12.0 m		13.5 m		15.0 m		16.5 m				
														m
12.0 m	kg					*1800	*1800					*1350	*1350	13.94
10.5 m	kg					*2200	*2200					*1300	*1300	14.93
9.0 m	kg					*2250	*2250	*2050	2000			*1250	*1250	15.72
7.5 m	kg					*2350	*2350	*2350	2000			*1250	*1250	16.32
6.0 m	kg					*2450	2400	*2450	1950	*1650	1550	*1250	*1250	16.78
4.5 m	kg			*2750	*2750	*2600	2300	*2550	1850	*2050	1500	*1300	*1300	17.08
3.0 m	kg	*3250	*3250	*3000	2650	*2800	2150	*2650	1750	2350	1450	*1300	1300	17.25
1.5 m	kg	*3650	3050	*3250	2500	*3000	2050	2700	1700	2300	1400	*1350	1250	17.29
Ground Line	kg	*4000	2850	*3550	2350	3100	1950	2600	1600	2250	1350	*1450	1250	17.20
–1.5 m	kg	4250	2650	3500	2200	2950	1800	2550	1550	2200	1300	*1550	1250	16.97
–3.0 m	kg	4100	2500	3400	2050	2900	1750	2500	1500	*1900	1250	*1650	1250	16.60
–4.5 m	kg	4000	2400	3300	2000	2850	1700	2450	1450			*1850	1300	16.09
–6.0 m	kg	3950	2350	3300	1950	2800	1650	2450	1450			*2050	1400	15.41
–7.5 m	kg	3900	2350	3300	1950	2800	1700					*2400	1550	14.54
–9.0 m	kg	3950	2400	3350	2000							*2900	1750	13.45
–10.5 m	kg	4100	2500	3450	2150							3450	2100	12.07
–12.0 m	kg											*3800	2750	10.29

*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.

324E Hydraulic Excavator

324E LN Heavy Duty Reach Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.9 m
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg							*7100	6600			*5900	5900	6.42
6.0 m	kg							*7200	6550	*5650	4550	*5600	4550	7.51
4.5 m	kg					*9400	*9400	*8050	6350	7250	4500	*5600	3900	8.18
3.0 m	kg					*12 050	9150	*9250	6000	7050	4350	5800	3550	8.53
1.5 m	kg					*14 350	8500	9650	5700	6900	4200	5600	3400	8.61
Ground Line	kg					15 100	8200	9450	5500	6800	4050	5750	3500	8.42
–1.5 m	kg			*11 050	*11 050	14 950	8150	9350	5400	6750	4000	6200	3750	7.94
–3.0 m	kg			*18 050	15 950	*14 250	8200	9350	5450			7300	4350	7.11
–4.5 m	kg			*15 850	*15 850	*11 650	8450					*8700	5950	5.78

Boom – 5.9 m
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*7950	6750	5.86
6.0 m	kg							*7800	6500			*7600	5000	7.04
4.5 m	kg					*10 300	9700	*8600	6250	7200	4450	6800	4200	7.75
3.0 m	kg					*12 900	8950	*9700	5950	7050	4300	6250	3850	8.12
1.5 m	kg					*14 900	8400	9650	5700	6900	4200	6050	3700	8.20
Ground Line	kg					15 050	8200	9450	5500	6800	4100	6200	3750	8.00
–1.5 m	kg			*11 400	*11 400	15 000	8150	9350	5450			6800	4100	7.49
–3.0 m	kg			*18 350	16 150	*13 650	8300	9450	5550			8200	4900	6.61
–4.5 m	kg					*10 350	8600					*8800	7100	5.15

*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.

324E Hydraulic Excavator

324E LN Extreme Service Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.9 m
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg							*7050	6550			*5850	5800	6.42
6.0 m	kg							*7150	6500	*5600	4450	*5550	4450	7.51
4.5 m	kg					*9300	*9300	*7950	6250	7150	4400	*5550	3800	8.18
3.0 m	kg					*11 900	9050	*9150	5950	7000	4250	5700	3450	8.53
1.5 m	kg					*14 200	8400	9600	5600	6800	4100	5550	3350	8.61
Ground Line	kg					14 900	8050	9300	5400	6700	3950	5650	3400	8.42
–1.5 m	kg			*11 000	*11 000	14 800	7950	9200	5300	6650	3950	6150	3650	7.94
–3.0 m	kg			*18 050	15 700	*14 050	8050	9250	5350			7250	4300	7.11
–4.5 m	kg			*15 600	*15 600	*11 500	8300					*8550	5850	5.78

Boom – 5.9 m
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*7850	6700	5.86
6.0 m	kg							*7750	6450			*7600	4950	7.04
4.5 m	kg					*10 200	9600	*8500	6200	7150	4400	6750	4150	7.75
3.0 m	kg					*12 750	8850	*9600	5900	7000	4250	6150	3750	8.12
1.5 m	kg					*14 750	8300	9550	5600	6850	4100	6000	3600	8.20
Ground Line	kg					14 900	8050	9350	5400	6750	4000	6150	3700	8.00
–1.5 m	kg			*11 400	*11 400	14 900	8050	9300	5350			6750	4000	7.49
–3.0 m	kg			*18 150	15 950	*13 500	8150	9350	5450			8150	4800	6.61
–4.5 m	kg					*10 250	8500					*8700	7050	5.15

*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.

324E Hydraulic Excavator

324E LN Variable Angle Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 2.8 m (Stub), 3.3 m (Fore)
Stick – R2.95CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
9.0 m	kg					*7300	*7300					*7300	*7300	5.04
7.5 m	kg					*8400	*8400	*6250	*6250			*6400	5450	6.72
6.0 m	kg					*8600	*8600	*6950	6550	*6150	4500	*6100	4200	7.77
4.5 m	kg			*15 100	*15 100	*9700	*9700	*6900	6300	*6300	4400	6000	3600	8.42
3.0 m	kg			*12 100	*12 100	*9350	8950	*7100	5900	*6700	4250	5500	3300	8.76
1.5 m	kg			*7150	*7150	*10 800	8250	*8100	5550	6850	4050	5350	3200	8.84
Ground Line	kg	*7900	*7900	*6450	*6450	*14 300	7900	9350	5300	6700	3900	5450	3200	8.65
–1.5 m	kg	*10 250	*10 250	*9750	*9750	14 800	7850	9250	5200	6650	3850	5900	3450	8.18
–3.0 m	kg	*16 200	*16 200	*17 300	15 500	*11 950	7950	9300	5250			*6600	4050	7.38
–4.5 m	kg	*26 100	*26 100	*17 900	16 000	*11 250	8200					*9450	6500	5.31

Boom – 2.8 m (Stub), 3.3 m (Fore)
Stick – R2.5CB1
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				m
9.0 m	kg											*10 050	*10 050	4.25
7.5 m	kg					*9950	*9950	*8500	6500			*8500	6200	6.16
6.0 m	kg			*9550	*9550	*9850	*9850	*8050	6450			7650	4650	7.29
4.5 m	kg			*15 200	*15 200	*9550	*9550	*7300	6200	7200	4350	6500	3950	7.98
3.0 m	kg			*14 600	*14 600	*9400	8750	*7500	5850	7050	4200	5950	3550	8.34
1.5 m	kg			*10 550	*10 550	*11 700	8100	*8550	5500	6850	4050	5750	3450	8.42
Ground Line	kg	*11 150	*11 150	*9450	*9450	14 900	7900	9350	5300	6750	3950	5900	3500	8.22
–1.5 m	kg	*12 850	*12 850	*11 000	*11 000	*14 050	7900	9250	5250	6700	3950	6450	3800	7.73
–3.0 m	kg	*20 700	*20 700	*17 600	15 700	*11 100	8050	*8400	5350			*7150	4600	6.78
–4.5 m	kg			*17 950	16 350							*14 150	11 350	3.72

*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.

324E Hydraulic Excavator

324E LN Mass Boom Lift Capacities

 Load Point Height

 Load at Maximum Reach

 Load Radius Over Front

 Load Radius Over Side

Boom – 5.3 m
Stick – M2.5DB
Counterweight – 4.0 mt
Shoes – 600 mm triple grouser
Bucket – None
Heavy Lift – On

		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m				
														m
7.5 m	kg											*7900	*7900	5.01
6.0 m	kg							*8250	6350			*7200	5750	6.35
4.5 m	kg					*9850	9750	*8650	6200			*7050	4650	7.13
3.0 m	kg					*12 200	9100	*9650	5900	6950	4200	6900	4150	7.54
1.5 m	kg					*14 400	8450	9600	5650	6800	4100	6650	4000	7.62
Ground Line	kg					15 100	8150	9400	5450			6850	4050	7.41
–1.5 m	kg			*17 100	15 700	15 000	8100	9350	5400			7650	4500	6.85
–3.0 m	kg			*18 400	16 050	*13 200	8200					*9550	5700	5.87

*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.

Work Tool Offering Guide*

Boom Type	**ES & HD Reach Booms**		**Mass Boom**
Stick Size	**R2.95**	**R2.5**	**M2.5**
Hydraulic Hammer	H120E s H130E s	H120E s H130E s	H120E s H130E s
Multi-Processor	MP15 MP20	MP15 MP20	MP20
Crusher	P315 P325	P315 P325	P325
Pulverizer	P215 P225	P215 P225	P225
Demolition and Sorting Grapple	G320B G325B	G320B G325B	G320B G325B
Mobile Scrap and Demolition Shear	S320B S325B** S340B***	S320B S325B S340B***	S320B S325B S340B***
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Orange Peel Grapple	These work tools are available for the 324E. Consult your Cat dealer for proper match.		
Ripper			
Dedicated Quick Coupler			

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

**Pin-on only.

***Boom Mount.

324E Hydraulic Excavator

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	Reach Boom (HD)		Reach Boom (ES)		Super Long Reach	Mass Boom
		mm	m^3	kg	%	R2.5 HD	R2.95 HD	R2.5 ES	R2.95 ES	7.85	R2.5
Without Quick Coupler						**324E L**					
Ditch Cleaning (DC)	A	1238	0.57	289	100%					⊖	
	A	770	0.69	377	100%					○	
General Duty (GD)	CB	750	0.71	730	100%	●	●	●	●		
	CB	1050	1.12	864	100%	●	●	●	●		
	CB	1200	1.33	927	100%	●	●	●	●		
	CB	1350	1.54	1009	100%	●	X	●	◉		
	CB	1500	1.76	1074	100%	X	X	◉	⊖		
	DB	1350	1.64	1173	100%						●
	DB	1500	1.88	1275	100%						◉
	DB	1650	2.12	1352	100%						⊖
	DB	1800	2.36	1453	100%						X
Heavy Duty (HD)	CB	1350	1.54	1134	100%	●	X	●	◉		
	CB	1500	1.76	1229	100%	X	X	◉	⊖		
	DB	1350	1.64	1447	100%						●
	DB	1500	1.88	1542	100%						⊖
	DB	1650	2.12	1673	100%						⊖
Severe Duty (SD)	CB	1350	1.56	1245	90%	●	X	●	◉		
	DB	1650	2.15	1827	90%						⊖
Maximum load pin-on (payload + bucket)					kg	4405	4030	4375	3865	1145	4750
With Quick Coupler						**324E LN**					
Ditch Cleaning (DC)	A	1238	0.57	289	100%						
	A	770	0.69	377	100%						
General Duty (GD)	CB	750	0.71	730	100%	●	●	●	●		
	CB	1050	1.12	864	100%	●	●	●	●		
	CB	1200	1.33	927	100%	●	●	●	◉		
	CB	1350	1.54	1009	100%	◉	X	◉	⊖		
	CB	1500	1.76	1074	100%	X	X	⊖	○		
	DB	1350	1.64	1173	100%						◉
	DB	1500	1.88	1275	100%						⊖
	DB	1650	2.12	1352	100%						○
	DB	1800	2.36	1453	100%						X
Heavy Duty (HD)	CB	1350	1.54	1134	100%	◉	X	◉	⊖		
	CB	1500	1.76	1229	100%	X	X	⊖	○		
	DB	1350	1.64	1447	100%						⊖
	DB	1500	1.88	1542	100%						○
	DB	1650	2.12	1673	100%						○
Severe Duty (SD)	CB	1350	1.56	1245	90%	◉	X	◉	⊖		
	DB	1650	2.15	1827	90%						○
Maximum load pin-on (payload + bucket)					kg	3930	3590	3845	3485	–	4215

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 over the side with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

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

324E Hydraulic Excavator

Bucket Specifications and Compatibility

	Linkage	Width	Capacity	Weight	Fill	Reach Boom (HD)		Reach Boom (ES)		Super Long Reach	Mass Boom
		mm	m^3	kg	%	R2.5 HD	R2.95 HD	R2.5 ES	R2.95 ES	7.85	R2.5
With Quick Coupler (CW45, CW45s)						**324E L**					
General Duty (GD)	CB	750	0.7	693	100%	●	●	●	●		
	CB	1350	1.5	1008	100%	◉	⊖	◉	⊖		
	CB	1500	1.76	1074	100%	⊖	○	⊖	○		
	CB	1650	1.97	1157	100%	○	○	○	◇		
	DB	1050	1.17	986	100%						●
	DB	1200	1.40	1064	100%						●
	DB	1350	1.64	1142	100%						◉
	DB	1500	1.88	1245	100%						⊖
	DB	1650	2.12	1323	100%						○
Heavy Duty (HD)	CB	1200	1.33	1061	100%	●	◉	●	◉		
	CB	1350	1.54	1134	100%	◉	⊖	◉	⊖		
	CB	1500	1.76	1229	100%	⊖	○	⊖	○		
	CB	1650	1.97	1302	100%	○	○	○	◇		
	DB	1350	1.64	1417	100%						◉
	DB	750	0.73	973	100%						●
	DB	1500	1.88	1514	100%						⊖
	DB	1650	2.12	1647	100%						○
	DB	1800	2.36	1746	100%						◇
Severe Duty (SD)	DB	1050	1.17	1282	90%						●
	DB	1500	1.91	1661	90%						⊖
	DB	1650	2.15	1802	90%						○
Maximum load with coupler (payload + bucket)					kg	3941	3566	3911	3401		4260

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 over the side with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

- ● 2100 kg/m^3
- ◉ 1800 kg/m^3
- ⊖ 1500 kg/m^3
- ○ 1200 kg/m^3
- ◇ 900 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.

324E Hydraulic Excavator

Bucket Specifications and Compatibility

		Width	Capacity	Weight	Fill	Reach Boom (HD)		Reach Boom (ES)		Super Long Reach	Mass Boom
	Linkage	mm	m^3	kg	%	R2.5 HD	R2.95 HD	R2.5 ES	R2.95 ES	7.85	R2.5
With Quick Coupler (CW45, CW45s)						324E LN					
General Duty (GD)	CB	750	0.7	693	100%	●	●	●	●		
	CB	1350	1.5	1008	100%	⊖	○	⊖	○		
	CB	1500	1.76	1074	100%	○	○	○	◇		
	CB	1650	1.97	1157	100%	○	◇	◇	◇		
	DB	1050	1.17	986	100%						●
	DB	1200	1.40	1064	100%						◉
	DB	1350	1.64	1142	100%						⊖
	DB	1500	1.88	1245	100%						○
	DB	1650	2.12	1323	100%						◇
Heavy Duty (HD)	CB	1200	1.33	1061	100%	◉	⊖	◉	⊖		
	CB	1350	1.54	1134	100%	⊖	○	⊖	○		
	CB	1500	1.76	1229	100%	○	◇	○	◇		
	CB	1650	1.97	1302	100%	◇	◇	◇	◇		
	DB	1350	1.64	1417	100%						○
	DB	750	0.73	973	100%						●
	DB	1500	1.88	1514	100%						○
	DB	1650	2.12	1647	100%						◇
	DB	1800	2.36	1746	100%						X
Severe Duty (SD)	DB	1050	1.17	1282	90%						●
	DB	1500	1.91	1661	90%						○
	DB	1650	2.15	1802	90%						◇
Maximum load with coupler (payload + bucket)					kg	3466	3126	3381	3021		3725

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 over the side with front linkage fully extended at ground line with bucket curled.

Capacity based on ISO 7451.

Bucket weight with General Duty tips.

Maximum Material Density:

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