Engine

Engine Model	Cat® C7.1 ACERT
Net Flywheel Power	161 kW
Net Flywheel Power (metric)	219 hp
Net Flywheel Power (imperial)	216 hp
Net Power – ISO 14396	179 kW
Net Power – ISO 14396 (metric)	243 hp
Net Power – ISO 14396 (imperial)	240 hp
Bore	105 mm
Stroke	135 mm
Displacement	7.01 L

Weights

Minimum Weight*	28 717 kg
Maximum Weight**	30 959 kg

*Long Undercarriage, 6.15 m reach boom, R2.6CB2 stick, 5.8 mt counterweight, 1.33 m^3 bucket, 600 mm TG shoes.

**Long Undercarriage, 5.55 m mass boom, R2.5DB stick, 5.8 mt counterweight, 1.87 m^3 bucket, 800 mm TG shoes.

Hydraulic System

Main System – Maximum Flow (Total)	494 L/min
Swing System – Maximum Flow	247 L/min
Maximum Pressure – Equipment Heavy Lift	38 000 kPa
Maximum Pressure – Equipment Normal	35 000 kPa
Maximum Pressure – Travel	35 000 kPa
Maximum Pressure – Swing	27 503 kPa
Pilot System – Maximum Flow	23.1 L/min
Pilot System – Maximum Pressure	3920 kPa
Boom Cylinder – Bore	140 mm
Boom Cylinder – Stroke	1407 mm
Stick Cylinder – Bore	150 mm
Stick Cylinder – Stroke	1646 mm
DB Bucket Cylinder – Bore	135 mm
DB Bucket Cylinder – Stroke	1156 mm
TB Bucket Cylinder – Bore	150 mm
TB Bucket Cylinder – Stroke	1151 mm

Drive

Maximum Travel Speed	5.1 km/h
Maximum Drawbar Pull	247 kN

Swing Mechanism

Swing Speed	9.8 rpm
Swing Torque	82.2 kN·m

Service Refill Capacities

Fuel Tank Capacity	520 L
Cooling System	44 L
Engine Oil (with filter)	22.5 L
Swing Drive (each)	10 L
Final Drive (each)	6 L
Hydraulic System (including tank)	310 L
Hydraulic Tank	155 L

Track

Number of Shoes (each side)	
Long Undercarriage	50
Long Narrow Undercarriage	50
Number of Track Rollers (each side)	
Long Undercarriage	9
Long Narrow Undercarriage	9
Number of Carrier Rollers (each side)	
Long Undercarriage	2
Long Narrow Undercarriage	2

Sound Performance

ISO 6396	
Operator Noise (Closed)	72 dB(A)
Operator Noise (Open)	77 dB(A)
ISO 6395	
Spectator Noise	105 dB(A)

- Operator Sound – The operator sound level is measured according to the procedures specified in ANSI/SAE J1166 OCT98, meets OSHA ISO 6396, for cab offered by Caterpillar, when properly installed and maintained and tested with doors and windows closed.
- Exterior Sound – The labeled spectator sound power level is measured according to the test procedures and conditions specified in 2000/14/EC.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained for doors/windows open) for extended periods or in a noisy environment.

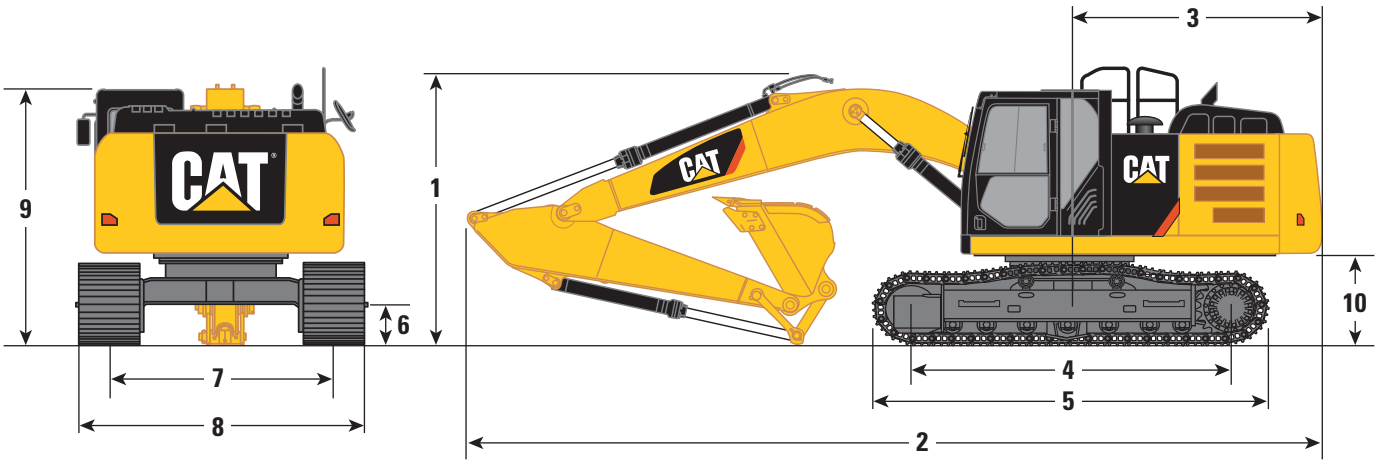
Standards

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

329E L Hydraulic Excavator Specifications

Dimensions

All dimensions are approximate.



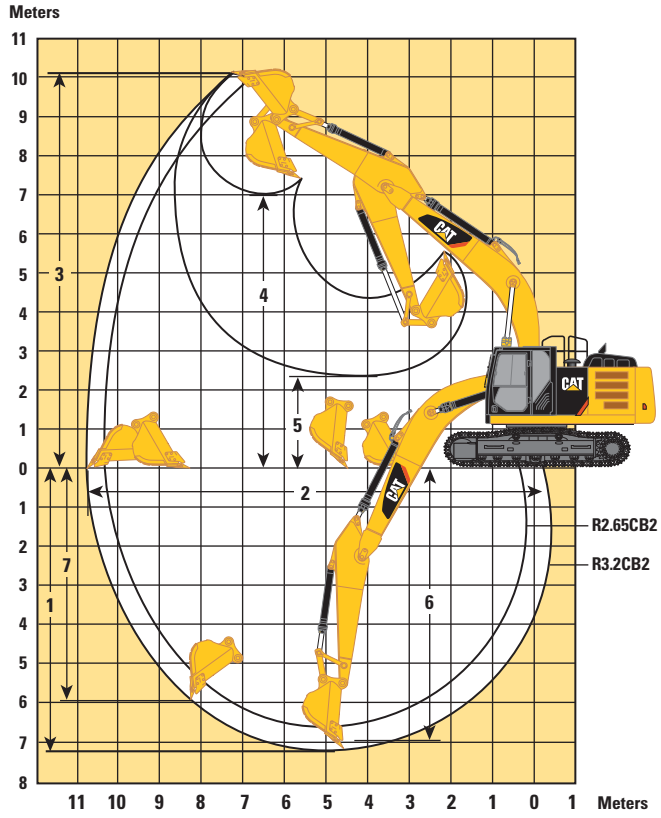
		HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	Stick	**R3.2CB2 (10'6")**	**R2.65CB2 (8'8")**	**M2.5DB (8'2")**
		mm	**mm**	**mm**
1	Shipping Height*	3372	3450	3520
	Shipping Height with Guard Rail (without fronts)	3328	3328	3328
	Shipping Height with Top Guard (without fronts)	3240	3240	3240
2	Shipping Length	10 386	10 400	9830
3	Tail Swing Radius	3044	3044	3044
4	Length to Center of Rollers			
	Long Undercarriage	3994	3994	3994
5	Track Length			
	Long Undercarriage	4855	4855	4855
6	Ground Clearance			
	Long Undercarriage	490	490	490
7	Track Gauge			
	Long Undercarriage	2590	2590	2590
8	Transport Width			
	Long Undercarriage – 600 mm (24") Shoes	3190	3190	3190
	Long Undercarriage – 700 mm (28") Shoes	3290	3290	3290
	Long Undercarriage – 800 mm (32") Shoes	3390	3390	3390
9	Cab Height	3044	3044	3044
	Cab Height with Top Guard	3240	3240	3240
10	Counterweight Clearance**	1134	1134	1134

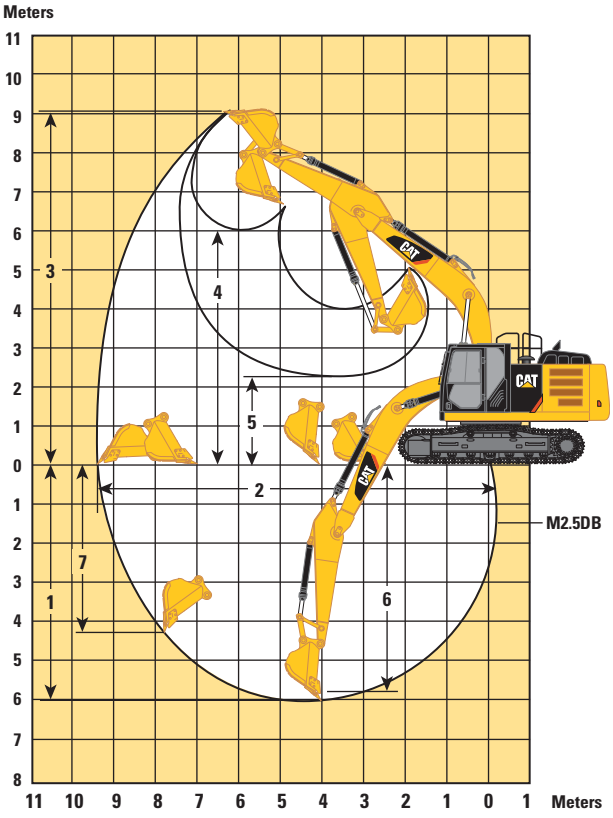
*Including shoe lug height.

**Without shoe lug height.

Working Ranges

All dimensions are approximate.





	HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
Stick	**R3.2CB2 (10'6")**	**R2.65CB2 (8'8")**	**M2.5DB (8'2")**
	mm	**mm**	**mm**
1 Maximum Digging Depth	7250	6700	6100
2 Maximum Reach at Ground Level	10 680	10 200	9430
3 Maximum Cutting Height	10 010	9900	9130
4 Maximum Loading Height	6950	6800	6000
5 Minimum Loading Height	2290	2840	2470
6 Maximum Depth Cut for 2440 mm Level Bottom	7090	6520	5910
7 Maximum Vertical Wall Digging Depth	5980	5680	4250

Operating Weight and Ground Pressure

	800 mm (32") Triple Grouser Shoes		700 mm (28") Triple Grouser Shoes		600 mm (24") Triple Grouser Shoes	
	kg	kPa	kg	kPa	kg	kPa
Long Undercarriage						
HD Reach Boom – 6.15 m (20'2")						
R3.2CB2 (10'6") HD	29 827	45.8	29 207	51.2	28 867	59.1
R2.65CB2 (8'8") HD	29 677	45.5	29 057	51.0	28 717	58.8
Mass Boom – 5.55 m (18'3")						
M2.5DB (8'2")	30 117	46.2	29 497	51.7	29 157	59.7

Major Component Weights

	kg
Base Machine (with boom cylinder, without counterweight, front linkage and track)	
Long Undercarriage	15 500
Counterweight	
5.8 mt	5810
Boom (includes lines, pins and stick cylinder)	
HD Reach Boom – 6.15 m (20'2")	1950
Mass Boom – 5.55 m (18'3")	2020
Stick (includes lines, pins and bucket cylinder)	
R3.2CB2 (10'6") HD	980
R2.65CB2 (8'8") HD	830
M2.5DB (8'2")	1020
Track Shoe (Long/per two tracks)	
600 mm (24") Triple Grouser	3580
700 mm (28") Triple Grouser Heavy Duty	4280
800 mm (32") Triple Grouser	4540
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.

700 mm triple grouser heavy duty track shoe is not used in the calculation for operating weight and ground pressure.

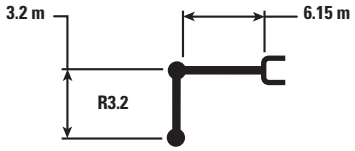
Bucket and Stick Forces

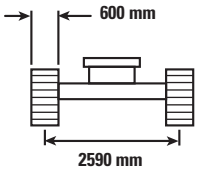
	HD Reach Booms 6.15 m (20'2")		Mass Boom 5.55 m (18'3")
	CB-Family Bucket		DB-Family Bucket
Stick	R3.2CB2 (10'6")	R2.65CB2 (8'8")	M2.5DB (8'2")
	kN	kN	kN
Heavy Duty			
Bucket Digging Force (ISO)	179	179	210
Stick Digging Force (ISO)	126	145	152
Severe Duty			
Bucket Digging Force (ISO)	179	179	–
Stick Digging Force (ISO)	126	145	–

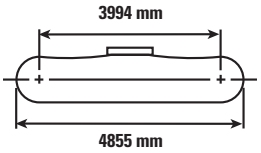
Tip Radius

		CB-Family Bucket	
Heavy Duty	1650 mm	1798 mm	1779 mm
Severe Duty	1650 mm	–	–

Reach Boom Lift Capacities – Counterweight: 5.8 mt

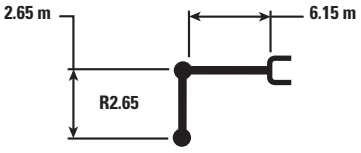


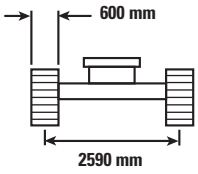


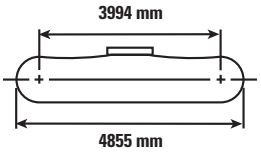


		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
																m
7.5 m	kg													*5600	*5600	7.27
6.0 m	kg									*7850	6050			*5350	5150	8.23
4.5 m	kg							*9200	8300	*8350	5900			*5300	4550	8.82
3.0 m	kg					*14 150	12 050	*10 750	7900	8750	5750	*6500	4350	*5450	4250	9.13
1.5 m	kg					*16 900	11 350	12 000	7550	8550	5550	6550	4250	*5800	4150	9.19
0.0 m	kg					*18 150	11 000	11 750	7300	8400	5400			*6350	4200	8.99
–1.5 m	kg	*6750	*6750	*10 600	*10 600	*18 150	10 900	11 600	7200	8300	5300			6950	4500	8.52
–3.0 m	kg	*12 100	*12 100	*17 150	*17 150	*17 050	10 950	11 600	7200	8350	5350			8000	5150	7.74
–4.5 m	kg			*19 750	*19 750	*14 500	11 200	*10 750	7400					*9400	6650	6.51

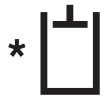
Reach Boom Lift Capacities – Counterweight: 5.8 mt







		3.0 m		4.5 m		6.0 m		7.5 m				
												m
7.5 m	kg									*7350	7250	6.67
6.0 m	kg					*8900	8500	*8350	6000	*6900	5750	7.70
4.5 m	kg			*12 250	*12 250	*10 000	8250	8950	5900	*6850	5000	8.33
3.0 m	kg			*15 450	11 900	*11 450	7900	8750	5750	*7000	4650	8.66
1.5 m	kg			*16 500	11 300	12 000	7550	8600	5550	6900	4500	8.72
0.0 m	kg			*17 550	11 050	11 800	7350	8450	5450	7050	4600	8.51
–1.5 m	kg	*10 350	*10 350	*17 950	11 050	11 700	7300	8400	5450	7700	5000	8.01
–3.0 m	kg	*19 400	*19 400	*16 400	11 150	11 800	7350			9100	5850	7.17
–4.5 m	kg	*17 250	*17 250	*13 100	11 450					*9550	7950	5.83



ISO 10567

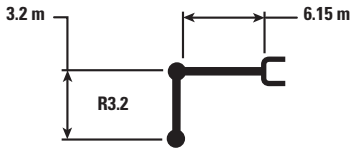
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

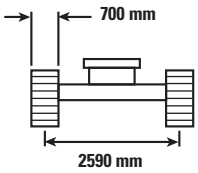
Lift capacity stays with ±5% for all available track shoes.

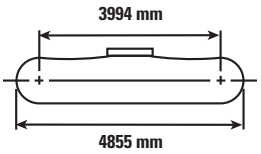
Always refer to the appropriate Operation and Maintenance Manual for specific product information.

329E L Hydraulic Excavator Specifications

Reach Boom Lift Capacities – Counterweight: 5.8 mt

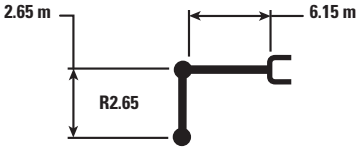


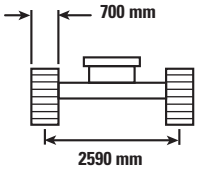


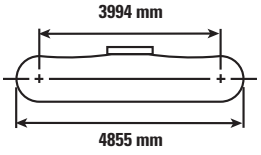


		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m				
																m
7.5 m	kg													*5600	*5600	7.27
6.0 m	kg									*7850	6100			*5350	5250	8.23
4.5 m	kg							*9200	8400	*8350	5950			*5300	4600	8.82
3.0 m	kg					*14 150	12 200	*10 750	8000	8850	5800	*6500	4400	*5450	4300	9.13
1.5 m	kg					*16 900	11 450	12 150	7650	8650	5600	6600	4300	*5800	4200	9.19
0.0 m	kg					*18 150	11 100	11 850	7400	8500	5450			*6350	4250	8.99
–1.5 m	kg	*6750	*6750	*10 600	*10 600	*18 150	11 000	11 750	7250	8400	5400			7050	4550	8.52
–3.0 m	kg	*12 100	*12 100	*17 150	*17 150	*17 050	11 050	11 750	7300	8450	5400			8100	5200	7.74
–4.5 m	kg			*19 750	*19 750	*14 500	11 300	*10 750	7450					*9400	6700	6.51

Reach Boom Lift Capacities – Counterweight: 5.8 mt







		3.0 m		4.5 m		6.0 m		7.5 m				
												m
7.5 m	kg									*7350	7300	6.67
6.0 m	kg					*8900	8600	*8350	6050	*6900	5800	7.70
4.5 m	kg			*12 250	*12 250	*10 000	8300	*8950	5950	*6850	5050	8.33
3.0 m	kg			*15 450	12 000	*11 450	7950	8850	5800	*7000	4700	8.66
1.5 m	kg			*16 500	11 400	12 150	7650	8700	5650	6950	4550	8.72
0.0 m	kg			*17 550	11 150	11 900	7450	8550	5500	7150	4650	8.51
–1.5 m	kg	*10 350	*10 350	*17 950	11 150	11 850	7400	8500	5500	7800	5050	8.01
–3.0 m	kg	*19 400	*19 400	*16 400	11 250	11 900	7450			9200	5900	7.17
–4.5 m	kg	*17 250	*17 250	*13 100	11 550					*9550	8050	5.83

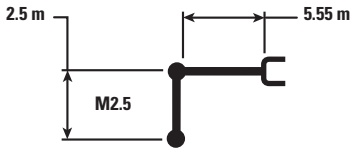
* ISO 10567

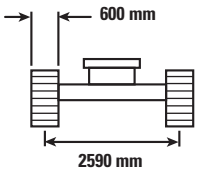
*Indicates that the load is limited by hydraulic lifting capacity rather than tipping load. The above loads are in compliance with hydraulic excavator lift capacity standard ISO 10567:2007. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping load. Weight of all lifting accessories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

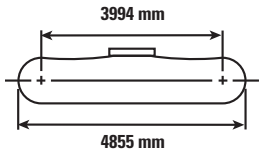
Lift capacity stays with ±5% for all available track shoes.

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

Mass Boom Lift Capacities – Counterweight: 5.8 mt

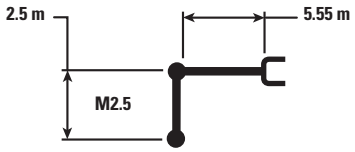


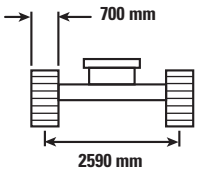


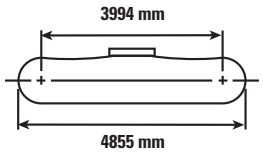


		3.0 m		4.5 m		6.0 m		7.5 m				
												m
7.5 m	kg									*8650	*8650	5.49
6.0 m	kg					*9650	8400			*8050	7000	6.71
4.5 m	kg			*12 250	*12 250	*10 400	8200			*8000	5850	7.43
3.0 m	kg			*15 200	12 050	*11 650	7850	8700	5650	8150	5300	7.80
1.5 m	kg			*17 550	11 400	12 050	7550	8550	5500	7950	5150	7.87
0.0 m	kg			*18 400	11 050	11 800	7350	8450	5400	8250	5300	7.63
–1.5 m	kg	*17 350	*17 350	*17 750	11 050	11 750	7300			9200	5850	7.08
–3.0 m	kg	*21 150	*21 150	*15 550	11 200	*11 200	7450			*10 900	7250	6.10

Mass Boom Lift Capacities – Counterweight: 5.8 mt







		3.0 m		4.5 m		6.0 m		7.5 m				
												m
7.5 m	kg									*8650	*8650	5.49
6.0 m	kg					*9650	8500			*8050	7050	6.71
4.5 m	kg			*12 250	*12 250	*10 400	8250			*8000	5900	7.43
3.0 m	kg			*15 200	12 150	*11 650	7950	8800	5700	8250	5350	7.80
1.5 m	kg			*17 550	11 500	12 150	7600	8650	5550	8050	5200	7.87
0.0 m	kg			*18 400	11 200	11 900	7400	8550	5450	8300	5350	7.63
–1.5 m	kg	*17 350	*17 350	*17 750	11 150	11 850	7350			9300	5900	7.08
–3.0 m	kg	*21 150	*21 150	*15 550	11 300	*11 200	7500			*10 900	7350	6.10

ISO 10567

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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*

Boom Type	HD Reach Booms		Mass Boom
Stick Size	**R3.2 (10'6")**	**R2.65 (8'8")**	**M2.5 (8'2")**
Hydraulic Hammer	H120E s H130E s H140D s	H120E s H130E s H140D s	H120E s H130E s H140D s
Multi-Processor	MP20	MP20	MP20 MP30**
Crusher	P325	P325	P325 P335
Pulverizer	P225	P225	P225 P235
Demolition and Sorting Grapple	G320B G325B	G320B G325B	G325B
Mobile Scrap and Demolition Shear	S320B S325B** S340B***	S320B S325B S340B***	S320B S325B S340B***
Compactor (Vibratory Plate)	CVP110	CVP110	CVP110
Contractors' Grapple	G120B-G130B	G120B-G130B	G120B-G130B
Trash Grapple	These work tools are available for the 329E. Consult your Cat dealer for proper match.		
Thumbs			
Rakes			
Center-Lock Pin Grabber Coupler			
Dedicated Quick Coupler			

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

**Pin-on only.

***Boom Mount.

Bucket Specifications and Compatibility

	Linkage	Width mm	Capacity m^3	Weight kg	Fill %	HD Reach Boom R2.65 (8'8")	HD Reach Boom R3.2 (10'6")	Mass Boom M2.5 (8'2")
With Center Lock Coupler								
General Duty (GD)	CB	600	0.52	659	100%	●	●	
	CB	750	0.71	726	100%	●	●	
	CB	1050	1.12	834	100%	●	●	
	CB	1200	1.33	1004	100%	●	●	
	CB	1350	1.54	1068	100%	●	◉	
	CB	1500	1.76	1098	100%	◉	⊖	
Heavy Duty (HD)	CB	600	0.52	808	100%	●	●	
	CB	750	0.71	947	100%	●	●	
	CB	900	0.91	1040	100%	●	●	
	CB	1050	1.12	1134	100%	●	●	
	CB	1200	1.33	1206	100%	●	◉	
	CB	1350	1.54	1305	100%	◉	⊖	
	CB	1500	1.76	1406	100%	⊖	○	
	CB	1650	1.97	1477	100%	⊖	○	
	DB	1500	1.88	1624	100%			◉
Maximum load with coupler (payload + bucket)					kg	4295	3835	4992

Maximum Material Density:

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

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 Cat® General Duty tips.

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.