

450E Backhoe Loader

Backhoe Buckets – Heavy Duty

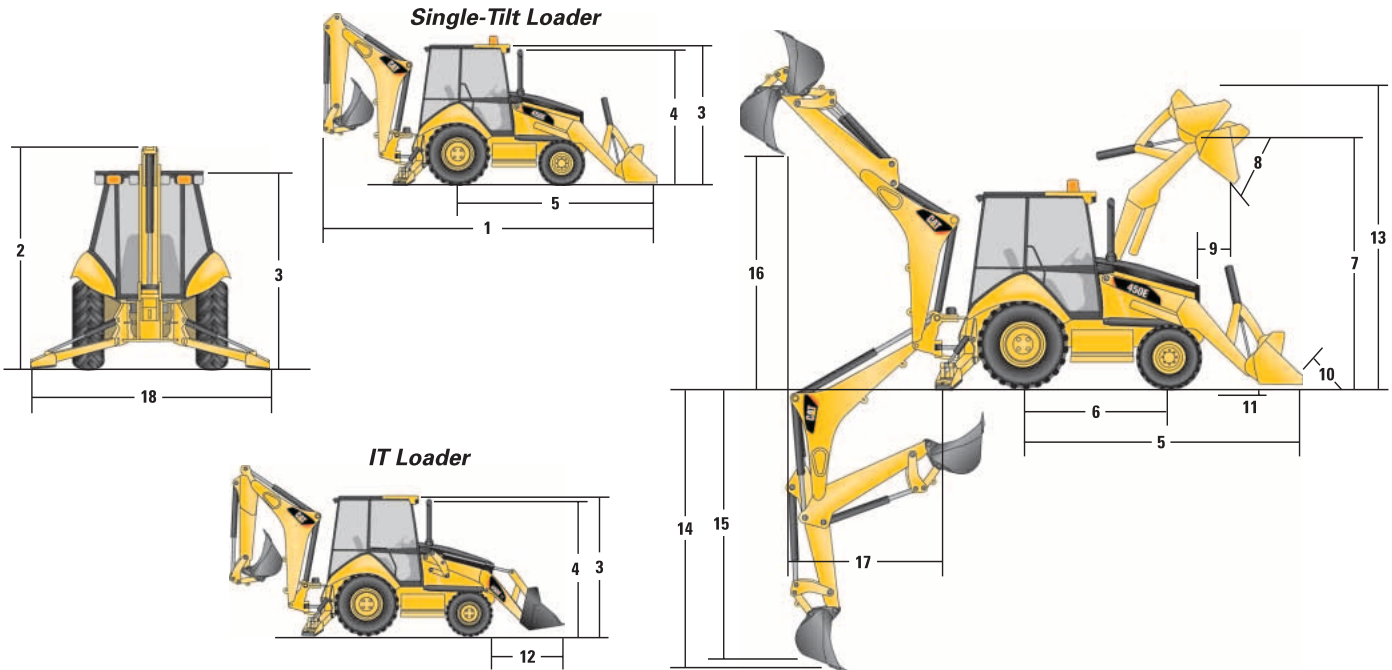
With weld-on adapters and pin-on teeth.

Width (mm/in)	Rated Capacity (liters/ft³)	Weight (kg/lb)	No. of Teeth
457/18	190/6.7	211/465	3
610/24	280/9.9	252/554	4
762/30	380/13.4	283/625	4
914/36	480/17.0	326/719	6

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Machine Dimensions

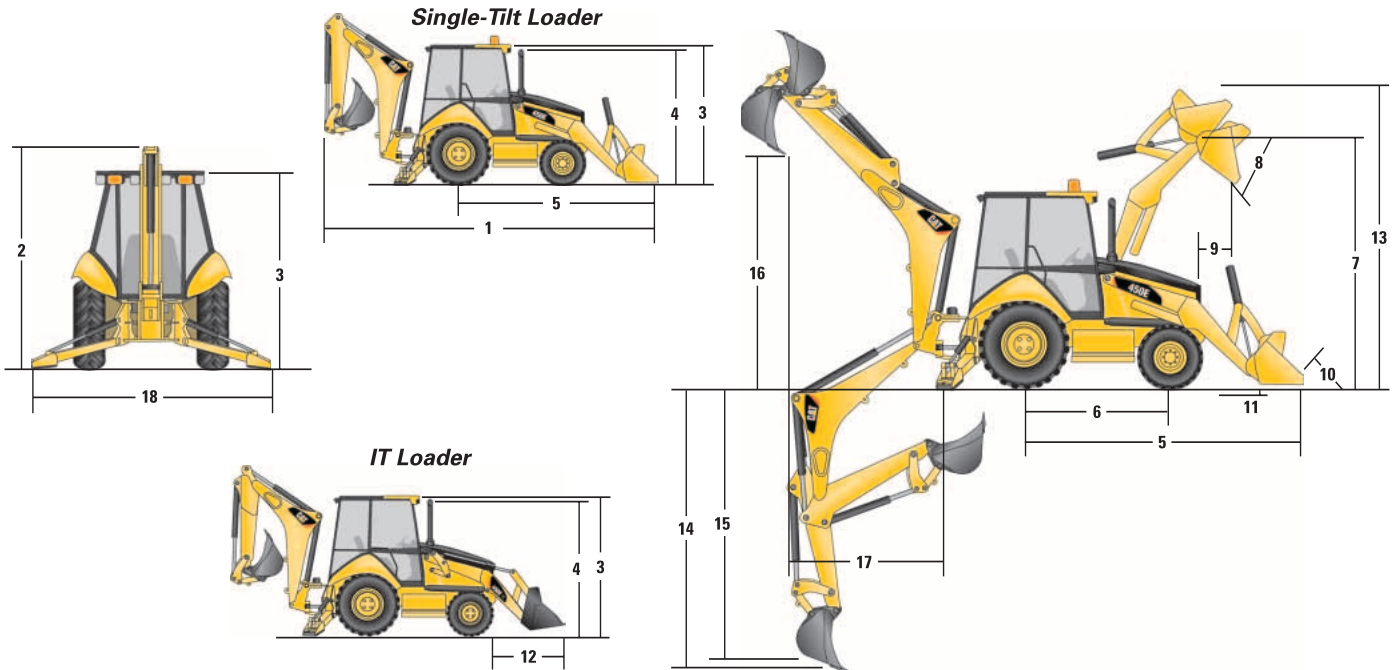
		Single-Tilt Loader	
		General Purpose	Multi Purpose
(1)	Overall length (loader on ground) (standard stick)	7913 mm/26 ft 0 in	7786 mm/25 ft 7 in
	Overall length (loader on ground) (extendible stick)	7913 mm/26 ft 0 in	7786 mm/25 ft 7 in
	Overall transport length (standard stick)	7916 mm/26 ft 0 in	7826 mm/25 ft 8 in
	Overall transport length (extendible stick)	7916 mm/26 ft 0 in	7826 mm/25 ft 8 in
(2)	Overall transport height (standard stick)	4143 mm/13 ft 7 in	4143 mm/13 ft 7 in
	Overall transport height (extendible stick)	4159 mm/13 ft 8 in	4159 mm/13 ft 8 in
	Overall Width	2436 mm/8 ft 0 in	2436 mm/8 ft 0 in
(3)	Height to top of cab/canopy	2874 mm/9 ft 5 in	2874 mm/9 ft 5 in
(4)	Height to top of exhaust stack	2845 mm/9 ft 4 in	2845 mm/9 ft 4 in
	Rear axle centerline to front grill	2832 mm/9 ft 3 in	2832 m//9 ft 3 in
	Height to loader hinge pin (transport)	469 mm/1 ft 6 in	481 mm/1 ft 7 in
	Ground clearance (minimum)	322 mm/1 ft 1 in	322 mm/1 ft 1 in
(5)	Rear axle to loader bucket on ground	4494 mm/14 ft 9 in	4367 mm/14 ft 4 in
	Front wheel tread gauge	2016 mm/6 ft 7 in	2016 mm/6 ft 7 in
	Rear wheel tread gauge	1814 mm/5 ft 11 in	1814 mm/5 ft 11 in
(6)	Wheelbase AWD	2200 mm/7 ft 3 in	2200 mm/7 ft 3 in



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Loader Bucket Dimensions and Performance

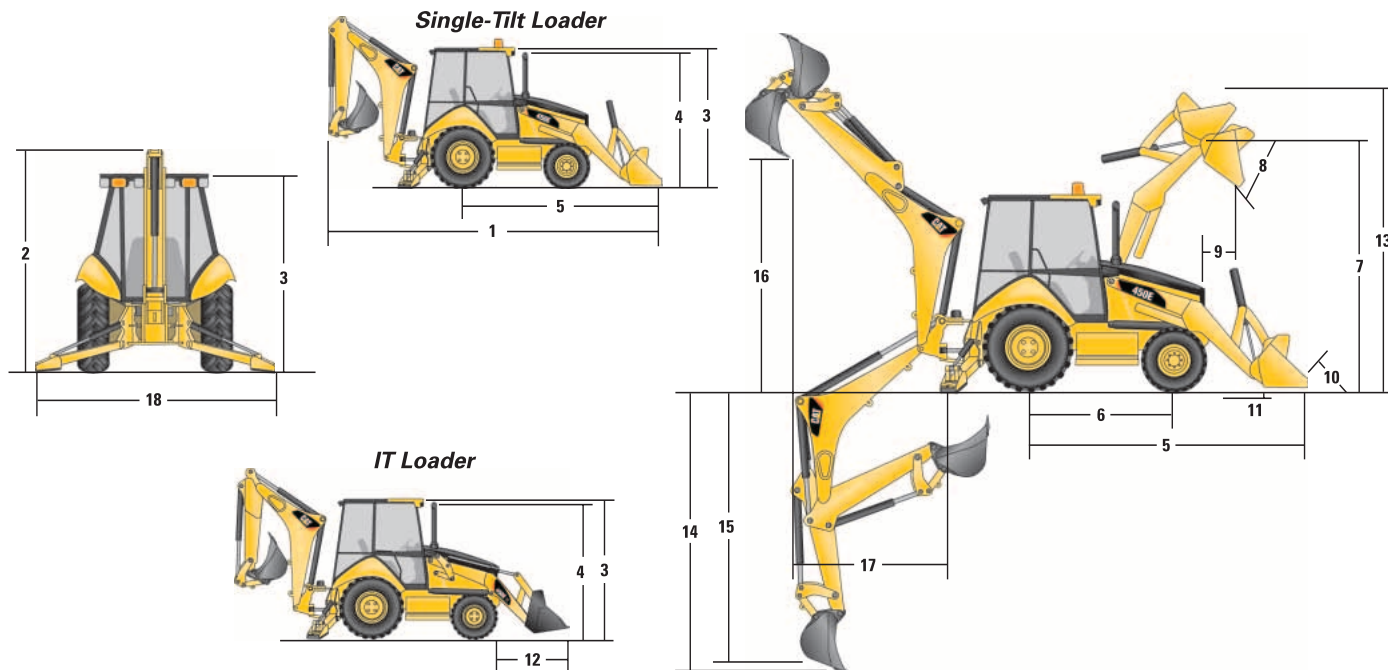
	Single-Tilt Loader		
	General Purpose (1.34 m³/1.75 yd³)	Multi Purpose (1.15 m³/1.50 yd³)	Multi Purpose with Forks (1.15 m³/1.50 yd³)
Capacity (SAE rated)	1.34 m³/1.75 yd³	1.15 m³/1.50 yd³	1.15 m³/1.50 yd³
Width	2434 mm/8 ft 0 in	2425 mm/7 ft 11 in	2425 mm/7 ft 11 in
Lift capacity at maximum height	3570 kg/7,871 lb	3843 kg/8,473 lb	3708 kg/8,174 lb
Breakout force	50 600 N/11,375 lb	60 889 N/13,688 lb	60 000 N/13,488 lb
Tipping load at breakout point	7482 kg/16,495 lb	8160 kg/17,990 lb	8006 kg/17,650 lb
(7) Maximum hinge pin height	3501 mm/11 ft 6 in	3501 mm/11 ft 6 in	3501 mm/11 ft 6 in
(8) Dump angle at full height	43°	43°	43°
Dump height at maximum angle	2666 mm/8 ft 9 in	2759 mm/9 ft 1 in	2759 mm/9 ft 1 in
(9) Dump reach at maximum angle	850 mm/2 ft 9 in	779 mm/2 ft 7 in	779 mm/2 ft 7 in
(10) Maximum bucket rollback at ground level	40°	40°	40°
(11) Digging depth	146 mm/6 in	127 mm/5 in	127 mm/5 in
Maximum grading angle	106°	109°	109°
Width of dozer cutting edge	N/A	2406 mm/7 ft 11 in	2406 mm/7 ft 11 in
(12) Grill to bucket cutting edge, carry position	1665 mm/5 ft 6 in	1572 mm/5 ft 2 in	1572 mm/5 ft 2 in
(13) Maximum operating height	4528 mm/14 ft 10 in	4561 mm/15 ft 0 in	4881 mm/16 ft 0 in
Jaw opening maximum	N/A	864 mm/2 ft 10 in	864 mm/2 ft 10 in
Bucket jaw clamping force	N/A	39 800 N/8,947 lb	39 800 N/8,947 lb
Weight	1043 kg/2,300 lb	957 kg/2,111 lb	1148 kg/2,530 lb



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Backhoe Dimensions and Performance

	Standard Stick	Extendible Stick Retracted	Extendible Stick Extended
(14) Digging depth, SAE (max)	5260 mm/17 ft 3 in	5260 mm/17 ft 3 in	6501 mm/21 ft 4 in
Digging depth, 2438 mm/8 ft flat bottom	4925 mm/16 ft 2 in	4925 mm/16 ft 2 in	6230 mm/20 ft 5 in
(15) Digging depth, 610 mm/2 ft flat bottom	5223 mm/17 ft 2 in	5223 mm/17 ft 2 in	6466 mm/21 ft 3 in
Reach from rear axle centerline at ground line	7955 mm/26 ft 1 in	7955 mm/26 ft 1 in	9137 mm/30 ft 0 in
(16) Reach from swing pivot at ground line	6704 mm/22 ft 0 in	6704 mm/22 ft 0 in	7886 mm/25 ft 10 in
Overall operating height	6531 mm/21 ft 5 in	6531 mm/21 ft 5 in	7375 mm/24 ft 2 in
Loading height	4440 mm/14 ft 7 in	4439 mm/14 ft 7 in	5194 mm/17 ft 0 in
(17) Loading reach	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in	3112 mm/10 ft 3 in
Swing arc	175°	175°	175°
Bucket rotation	198°	198°	198°
(18) Stabilizer spread – operating position (outside edge of pad)	4055 mm/13 ft 4 in	4055 mm/13 ft 4 in	4055 mm/13 ft 4 in
Stabilizer spread, transport position	2451 mm/8 ft 0 in	2451 mm/8 ft 0 in	2451 mm/8 ft 0 in
Bucket dig force	78 938 N/17,746 lb	78 936 N/17,746 lb	78 936 N/17,746 lb
Stick dig force	52 401 N/11,780 lb	53 109 N/11,939 lb	40 074 N/9,009 lb



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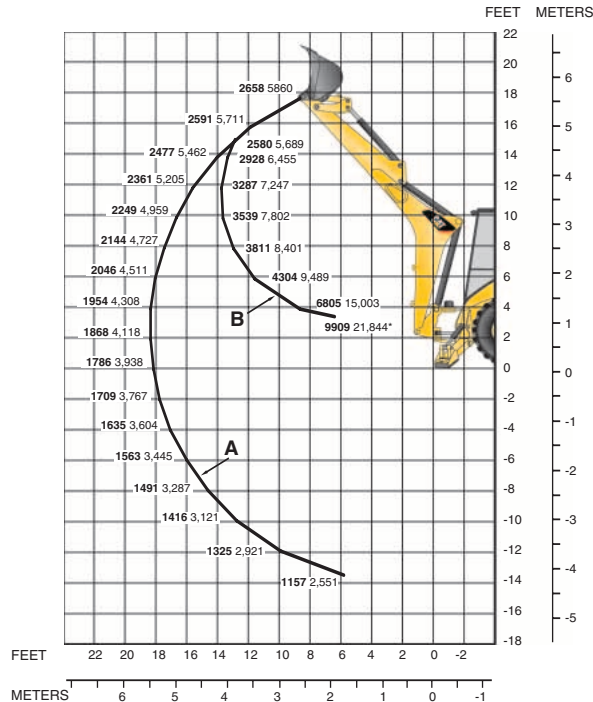
Backhoe Lift Capacity

Cat 450E Standard Stick

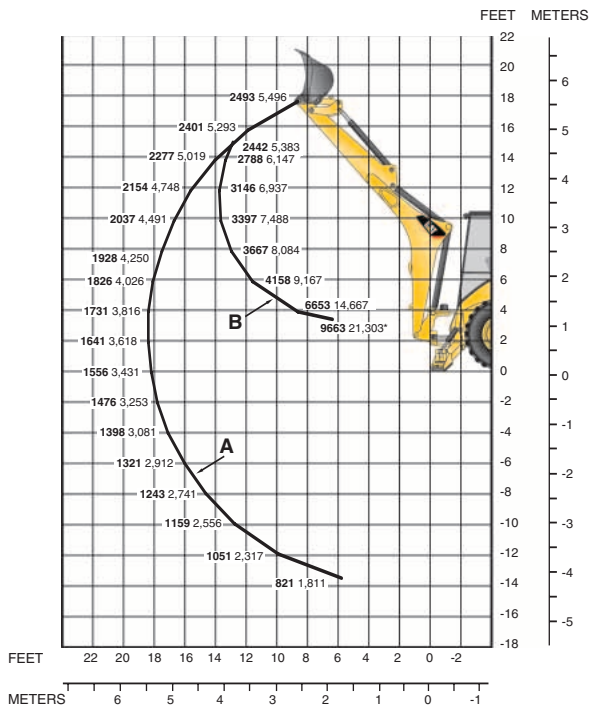
KEY

A — Boom lift **kg lb**

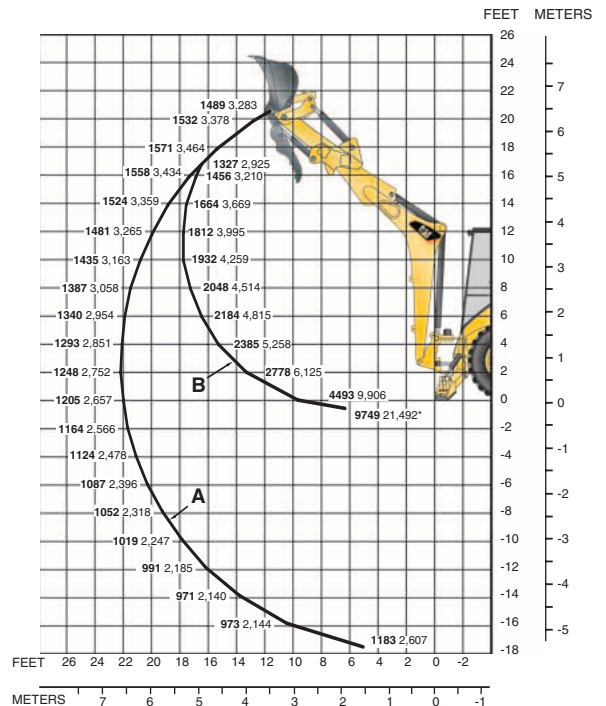
B — Stick lift **kg lb**



Cat 450E Extendible Stick — Retracted



Cat 450E Extendible Stick — Extended



Lift Capacities are over-end values. Machine equipped with 4WD, OROPS, 1.34 m³ (1.75 yd³) general purpose loader bucket, 610 mm (24") heavy duty backhoe bucket and 1000 kg (2,200 lb) counterweight.

*Indicates lift capacity is stability limited.

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Optional Equipment (with approximate change in operating weight)

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

	kg	lb
Attachments, Backhoe		
Ditch Cleaning Buckets		
1219 mm (48"), 0.45 m ³ (0.59 yd ³) DC-DH	272	600
1372 mm (54"), 0.51 m ³ (0.67 yd ³) DC-DH	306	675
1524 mm (60"), 0.57 m ³ (0.75 yd ³) DC-DH	386	850
Heavy Duty Buckets		
457 mm (18"), 0.18 m ³ (6.3 ft ³) HD	211	465
610 mm (24"), 0.27 m ³ (9.5 ft ³) HD	252	556
762 mm (30"), 0.27 m ³ (9.5 ft ³) HD	283	624
914 mm (36"), 0.27 m ³ (9.5 ft ³) HD	326	719
Hydraulic Hammers		
H90C Flat Top	708	1,562
H90C S	718	1,584
H100 Flat Top	1026	2,262
H100 S Flat Top	1036	2,284
Hydraulic Thumbs		
356 mm (14") Wide [for 914 mm (36") HD bucket]	168	370
445 mm (17.5") Wide [for 610 mm (24") or 762 mm (30") HD bucket]	172	380
Quick Coupler Pin Puller	91	200
Vibratory Compactor Plate		
CVP40	489	1,077
Attachments, Front Loader		
General Purpose Buckets, with BOCE		
1.3 m ³ (1.75 yd ³)	1043	2,300
Multi Purpose Bucket, with BOCE		
1.1 m ³ (1.5 yd ³)	957	2,111
1.1 m ³ (1.5 yd ³) with Forks	1148	2,530
Quick Coupler, IT Compatible	227	500
Angle Brooms (IT Interface)		
BA25 Hydraulic	460	1,014
BA25 Hydraulic with Water	600	1,323
BA25 Manual	460	1,014
Pick-up Broom (IT Interface)		
BP25 Hydraulic	651	1,435
Lever, Detent – Broom	1	2
Work Tools (IT Interface)		
Bucket, 2438 mm (96"), 1.5 m ³ (2.0 yd ³) GP	746	1,645
Hook, Profile	79	175
Hook, Blank	113	250
Hook, Flat Back	70	155
Cutter, 470 mm (18.5") Asphalt	193	425
Fork, 1219 mm (48") Tine Pallet	454	1,000
Rake, 2108 mm (83") Loader	771	1,700
Rake, 2108 mm (83") Loader	1120	2,470
Blade, 2819 mm (111") Hydraulic Angle	805	1,775

	kg	lb
Auto Lube		
Cab, Deluxe with A/C	323	712
Coolant, Additional Protection, –50° C (–58° F)	0	0
Fenders, 4WD, Front	17	37
Heater, Engine Coolant	2	4
Hydraulic Couplings		
Quick Disconnect	2	4
Hydraulic Valves, Loader		
Auxiliary	21	46
Hydraulic Valves, Backhoe		
6th Function	10	22
Hydraulic Lines		
Combined Function, Standard Stick	34	76
Combined Function, E-Stick	40	88
One-way Function, E-Stick	30	66
Mechanical Backhoe Controls		
Dynahoe	5	12
Ford	5	12
Product Link	4	9
Quick Coupler		
Backhoe, Pin Puller	100	220
Rotating Beacon		
Magnetic Mount	5	11
Seat Belt, 75 mm (3 in)	0	0
Sticks		
Extendible	285	628
Stops, Bucket	7	16