

430D/430D IT Backhoe Loader

Tires

Tubeless, nylon, loader-design tire sets.

Type	Size	Ply Rating
2WD Bias		
Front	11L x 16	12
Rear	19.5 x 24	10
4WD Bias		
Front	12.5/80 x 18	10
Rear	19.5 x 24	10
4WD Radial		
Front	340/80 x R18	radial
Rear	19.5 x 24	radial
4WD Combination		
Front	340/80 x R18	radial
Rear	19.5 x 24	10

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Standard Duty Buckets

With weld-on adapters and pin-on teeth.

Width (mm/in)	Capacities SAE (liters/ft³)	Weight (kg/lb)	No. of Teeth
305/12	78/2.8	97/213	3
457/18	118/4.2	115/253	4
610/24	175/6.2	132/290	5
762/30	233/8.2	147/323	5
914/36	292/10.3	165/363	6

High Capacity Buckets

With weld-on adapters and pin-on teeth.

Width (mm/in)	Capacities SAE (liters/ft³)	Weight (kg/lb)	No. of Teeth
457/18	180/6.4	146/321	4
610/24	240/8.5	171/376	5
762/30	320/11.3	195/429	5
914/36	380/13.4	214/471	6

Heavy Duty Buckets

With weld-on adapters and pin-on teeth.

Width (mm/in)	Capacities SAE (liters/ft³)	Weight (kg/lb)	No. of Teeth
305/12	78/2.8	105/231	3
406/16	105/3.7	127/279	3
457/18	118/4.2	129/284	4
610/24	175/6.2	151/332	5
762/30	233/8.2	167/367	5
914/36	292/10.3	189/416	6

Heavy Duty Rock Buckets

With weld-on adapters and pin-on teeth.

Width (mm/in)	Capacities SAE (liters/ft³)	Weight (kg/lb)	No. of Teeth
305/12	70/2.5	120/265	3
457/18	127/4.5	150/331	4
610/24	198/7.0	175/386	5
762/30	255/9.5	195/430	5
914/36	311/11.5	210/463	6

Counterweights

Total gross machine weight not to exceed 9800 kg (21,605 lb).

Minimum Counterweight Recommendations — Standard Stick

Loader Bucket	Power Train	Single-Tilt		IT Loader w/QC	
		kg	lb	kg	lb
GP	2WD	460	1,010	145	320
GP	AWD	355	780	bumper	bumper
MP	2WD	145	320	bumper	bumper
MP	AWD	bumper	bumper	bumper	bumper
MP with fold-over forks	2WD/AWD	bumper	bumper	N/A	N/A
Forks	2WD/AWD	N/A	N/A	bumper	bumper
Material handling arm	2WD	N/A	N/A	250	550
Material handling arm	AWD	N/A	N/A	145	320

Minimum Counterweight Recommendations — Extendible Stick

Loader Bucket	Power Train	Single-Tilt		IT Loader w/QC	
		kg	lb	kg	lb
GP	2WD	570	1,250	570	1,250
GP	AWD	570	1,250	460	1,010
MP	2WD	570	1,250	250	550
MP	AWD	570	1,250	145	320
MP with fold-over forks	2WD	355	780	N/A	N/A
MP with fold-over forks	AWD	250	550	N/A	N/A
Forks	2WD	N/A	N/A	570	1,250
Forks	AWD	N/A	N/A	460	1,010
Material handling arm	AWD	N/A	N/A	570	1,250

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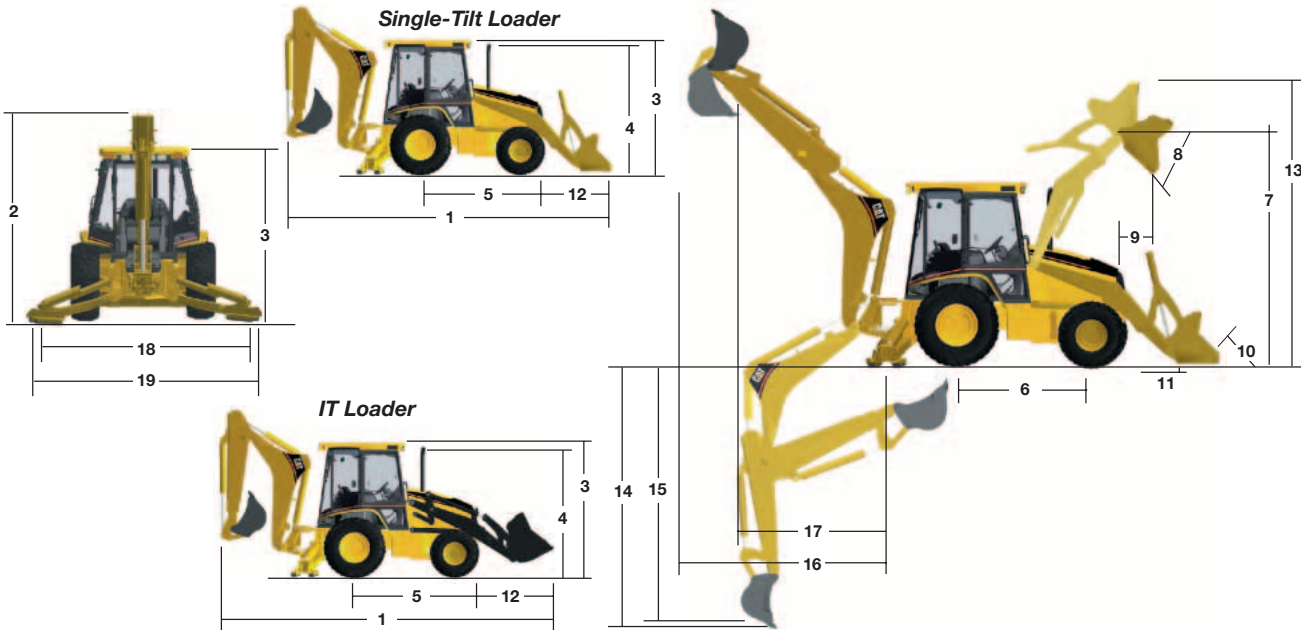
Machine Dimensions

		Single-Tilt Loader		
		General Purpose (1.00 m³/1.31 yd³)	General Purpose (1.07 m³/1.40 yd³)	General Purpose (1.15 m³/1.50 yd³)
(1)	Overall transport length	7289 mm/23 ft 11 in	7354 mm/24 ft 2 in	7354 mm/24 ft 2 in
	Overall length (loader on ground)	7279 mm/23 ft 11 in	7344 mm/24 ft 1 in	7344 mm/24 ft 1 in
(2)	Overall transport height (standard stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
	Overall transport height (extendible stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
	Overall width with bucket	2406 mm/7 ft 11 in	2352 mm/7 ft 9 in	2406 mm/7 ft 11 in
(3)	Height to top of cab/canopy	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in
(4)	Height to top of exhaust stack	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in
	Height to loader hinge pin (transport)	510 mm/1 ft 8 in	510 mm/1 ft 8 in	510 mm/1 ft 8 in
	Ground clearance (minimum)	297 mm/1 ft 0 in	297 mm/1 ft 0 in	297 mm/1 ft 0 in
(5)	Rear axle centerline to front grill	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in
	Front wheel tread gauge	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in
	Rear wheel tread gauge	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in
(6)	Wheelbase 2WD/AWD	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in

		Single-Tilt Loader	
		Multi Purpose (0.96 m³/1.25 yd³)	Multi Purpose (1.03 m³/1.35 yd³)
(1)	Overall transport length	7274 mm/23 ft 10 in	7274 mm/23 ft 10 in
	Overall length (loader on ground)	7264 mm/23 ft 10 in	7264 mm/23 ft 10 in
(2)	Overall transport height (standard stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
	Overall transport height (extendible stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
	Overall width with bucket	2352 mm/7 ft 9 in	2406 mm/7 ft 11 in
(3)	Height to top of cab/canopy	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in
(4)	Height to top of exhaust stack	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in
	Height to loader hinge pin (transport)	510 mm/1 ft 8 in	510 mm/1 ft 8 in
	Ground clearance (minimum)	297 mm/1 ft 0 in	297 mm/1 ft 0 in
(5)	Rear axle centerline to front grill	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in
	Front wheel tread gauge	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in
	Rear wheel tread gauge	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in
(6)	Wheelbase 2WD/AWD	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in

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IT Loader with Quick Coupler				
	General Purpose (1.00 m³/1.31 yd³)	General Purpose (1.15 m³/1.50 yd³)	Multi Purpose (0.96 m³/1.25 yd³)	Multi Purpose (1.03 m³/1.35 yd³)
(1) Overall transport length	7334 mm/24 ft 1 in	7399 mm/24 ft 3 in	7314 mm/24 ft 0 in	7314 mm/24 ft 0 in
Overall length (loader on ground)	7324 mm/24 ft 0 in	7389 mm/24 ft 3 in	7304 mm/23 ft 11 in	7304 mm/23 ft 11 in
(2) Overall transport height (standard stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
Overall transport height (extendible stick)	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in	3770 mm/12 ft 4 in
Overall width	2352 mm/7 ft 9 in	2352 mm/7 ft 9 in	2352 mm/7 ft 9 in	2352 mm/7 ft 9 in
(3) Height to top of cab/canopy	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in	2770 mm/9 ft 1 in
(4) Height to top of exhaust stack	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in	2670 mm/8 ft 9 in
Height to loader hinge pin (transport)	510 mm/1 ft 8 in	510 mm/1 ft 8 in	510 mm/1 ft 8 in	510 mm/1 ft 8 in
Ground clearance (minimum)	297 mm/1 ft 0 in	297 mm/1 ft 0 in	297 mm/1 ft 0 in	297 mm/1 ft 0 in
(5) Rear axle centerline to front grill	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in	2660 mm/8 ft 9 in
Front wheel tread gauge	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in	1871 mm/6 ft 2 in
Rear wheel tread gauge	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in	1714 mm/5 ft 8 in
(6) Wheelbase 2WD/AWD	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in	2100 mm/6 ft 11 in



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Loader Bucket Dimensions and Performance

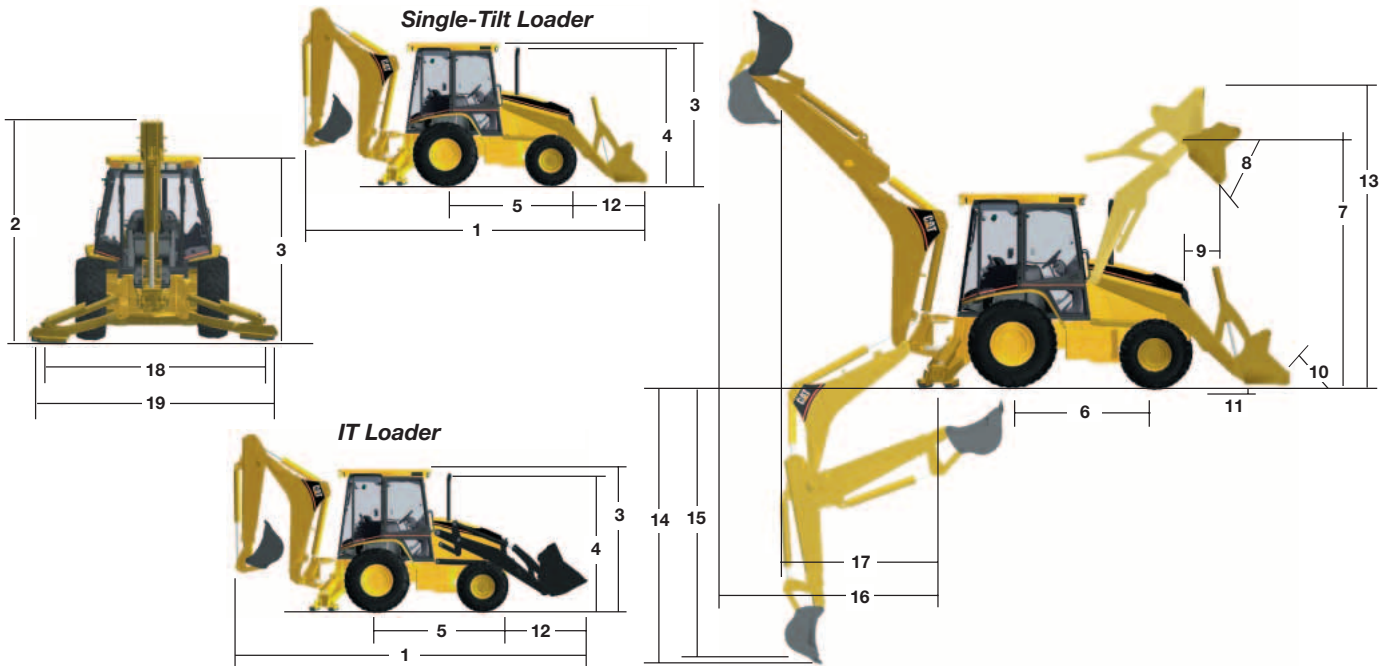
Single-Tilt Loader			
	General Purpose (1.00 m³/1.31 yd³)	General Purpose (1.07 m³/1.40 yd³)	General Purpose (1.15 m³/1.50 yd³)
Capacity (SAE) rated	1.00 m³/1.31 yd³	1.07 m³/1.40 yd³	1.15 m³/1.50 yd³
Width	2406 mm/7 ft 11 in	2262 mm/7 ft 5 in	2406 mm/7 ft 11 in
Lift capacity at maximum height	2898 kg/6,391 lb	2837 kg/6,254 lb	2826 kg/6,230 lb
Breakout force	45.7 kN/10,269 lb	44.6 kN/10,026 lb	44.5 kN/10,005 lb
(7) Maximum hinge pin height	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in
(8) Dump angle at full height	43°	43°	43°
Dump height at maximum angle	2575 mm/8 ft 5 in	2521 mm/8 ft 3 in	2521 mm/8 ft 3 in
(9) Dump reach at maximum angle	802 mm/2 ft 8 in	801 mm/2 ft 8 in	801 mm/2 ft 8 in
(10) Maximum bucket rollback at ground level	40°	40°	40°
(11) Digging depth	135 mm/5 in	174 mm/7 in	174 mm/7 in
Maximum grading angle	107°	107°	107°
Width of dozer cutting edge	N/A	N/A	N/A
(12) Grill to bucket cutting edge, carry position	1519 mm/5 ft 0 in	1581 mm/5 ft 2 in	1581 mm/5 ft 2 in
(13) Maximum operating height	4146 mm/13 ft 7 in	4188 mm/13 ft 9 in	4188 mm/13 ft 9 in
Jaw opening maximum	N/A	N/A	N/A
Bucket jaw clamping force	N/A	N/A	N/A
Weight (does not include teeth or forks)	445 kg/980 lb	438 kg/965 lb	458 kg/1,010 lb

Single-Tilt Loader		
	Multi Purpose (0.96 m³/1.25 yd³)	Multi Purpose (1.03 m³/1.35 yd³)
Capacity (SAE) rated	0.96 m³/1.25 yd³	1.03 m³/1.35 yd³
Width	2262 mm/7 ft 5 in	2406 mm/7 ft 11 in
Lift capacity at maximum height	2747 kg/6,056 lb	2707 kg/5,968 lb
Breakout force	44.9 kN/10,099 lb	44.6 kN/10,018 lb
(7) Maximum hinge pin height	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in
(8) Dump angle at full height	43°	43°
Dump height at maximum angle	2609 mm/8 ft 7 in	2609 mm/8 ft 7 in
(9) Dump reach at maximum angle	721 mm/2 ft 4 in	721 mm/2 ft 4 in
(10) Maximum bucket rollback at ground level	40°	40°
(11) Digging depth	165 mm/6.5 in	165 mm/6.5 in
Maximum grading angle	110°	110°
Width of dozer cutting edge	2406 mm/7 ft 11 in	2406 mm/7 ft 11 in
(12) Grill to bucket cutting edge, carry position	1501 mm/4 ft 11 in	1501 mm/4 ft 11 in
(13) Maximum operating height	4174 mm/13 ft 8 in	4174 mm/13 ft 8 in
Jaw opening maximum	790 mm/2 ft 7 in	790 mm/2 ft 7 in
Bucket jaw clamping force	55.7 kN/12,524 lb	55.7 kN/12,524 lb
Weight (does not include teeth or forks)	662 kg/1,460 lb	685 kg/1,510 lb

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IT Loader with Quick Coupler

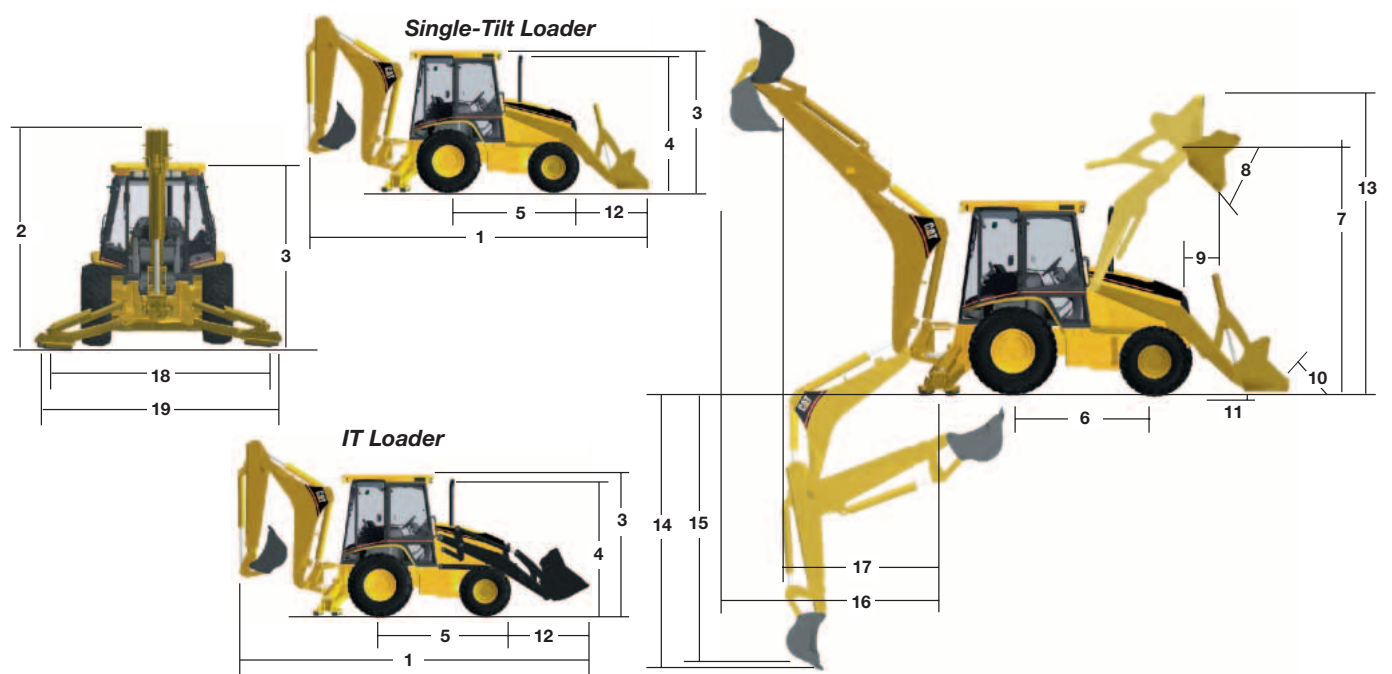
	General Purpose (1.00 m³/1.31 yd³)	General Purpose (1.15 m³/1.50 yd³)	Multi Purpose (0.96 m³/1.25 yd³)	Multi Purpose (1.03 m³/1.35 yd³)
Capacity (SAE) rated	1.00 m³/1.31 yd³	1.15 m³/1.50 yd³	0.96 m³/1.25 yd³	1.03 m³/1.35 yd³
Width	2406 mm/7 ft 11 in	2406 mm/7 ft 11 in	2262 mm/7 ft 5 in	2406 mm/7 ft 11 in
Lift capacity at maximum height	3152 kg/6,949 lb	3098 kg/6,829 lb	2958 kg/6,521 lb	2916 kg/6,428 lb
Breakout force	47.3 kN/10,628 lb	46.3 kN/10,410 lb	48.5 kN/10,897 lb	48.3 kN/10,853 lb
(7) Maximum hinge pin height	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in	3266 mm/10 ft 9 in
(8) Dump angle at full height	43°	43°	43°	43°
Dump height at maximum angle	2494 mm/8 ft 2 in	2440 mm/8 ft 0 in	2531 mm/8 ft 4 in	2531 mm/8 ft 4 in
(9) Dump reach at maximum angle	830 mm/2 ft 9 in	827 mm/2 ft 9 in	751 mm/2 ft 6 in	751 mm/2 ft 6 in
(10) Maximum bucket rollback at ground level	40°	40°	40°	40°
(11) Digging depth	135 mm/5 in	174 mm/7 in	165 mm/6.5 in	165 mm/6.5 in
Maximum grading angle	108°	108°	111°	111°
Width of dozer cutting edge	N/A	N/A	2406 mm/7 ft 11 in	2406 mm/7 ft 11 in
(12) Grill to bucket cutting edge, carry position	1562 mm/5 ft 2 in	1625 mm/5 ft 4 in	1543 mm/5 ft 1 in	1543 mm/5 ft 1 in
(13) Maximum operating height	4204 mm/13 ft 10 in	4250 mm/13 ft 11 in	4223 mm/13 ft 10 in	4223 mm/13 ft 10 in
Jaw opening maximum	N/A	N/A	790 mm/2 ft 7 in	790 mm/2 ft 7 in
Bucket jaw clamping force	N/A	N/A	55.7 kN/12,524 lb	55.7 kN/12,524 lb
Weight (does not include teeth or forks)	445 kg/980 lb	458 kg/1,010 lb	662 kg/1,460 lb	685 kg/1,510 lb



430D/430D IT Backhoe Loader

Backhoe Dimensions and Performance

		Standard Stick	Extendible Stick Retracted	Extendible Stick Extended
(14)	Digging depth, SAE (max)	4639 mm/15 ft 3 in	4870 mm/16 ft 0 in	6079 mm/19 ft 11 in
(15)	Digging depth, 2 ft flat bottom	4624 mm/15 ft 2 in	4847 mm/15 ft 11 in	6051 mm/19 ft 10 in
	Reach from rear axle centerline at ground line	7062 mm/23 ft 2 in	7263 mm/23 ft 10 in	8393 mm/27 ft 6 in
(16)	Reach from swing pivot at ground line	5972 mm/19 ft 7 in	6173 mm/20 ft 3 in	7303 mm/24 ft 0 in
	Maximum operating height	5745 mm/18 ft 10 in	5884 mm/19 ft 4 in	6715 mm/22 ft 0 in
	Loading height	3841 mm/12 ft 7 in	3940 mm/12 ft 11 in	4581 mm/15 ft 0 in
(17)	Loading reach	1823 mm/6 ft 0 in	2040 mm/6 ft 8 in	3076 mm/10 ft 1 in
	Swing arc	180°	180°	180°
	Bucket rotation	205°	205°	205°
(18)	Stabilizer spread, operating position (center of pad)	3219 mm/10 ft 7 in	3219 mm/10 ft 7 in	3219 mm/10 ft 7 in
(19)	Stabilizer spread, operating position (outside edge of pad)	3689 mm/12 ft 1 in	3689 mm/12 ft 1 in	3689 mm/12 ft 1 in
	Stabilizer spread, transport position	2352 mm/7 ft 9 in	2352 mm/7 ft 9 in	2352 mm/7 ft 9 in
	Bucket dig force	65.6 kN/14,732 lb	65.0 kN/14,602 lb	65.0 kN/14,602 lb
	Stick dig force	42.0 kN/9,448 lb	39.4 kN/8,865 lb	28.6 kN/6,430 lb



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Dimensions with Forks/Material-Handling Arm

Cat 430D IT Operating Specifications with Forks

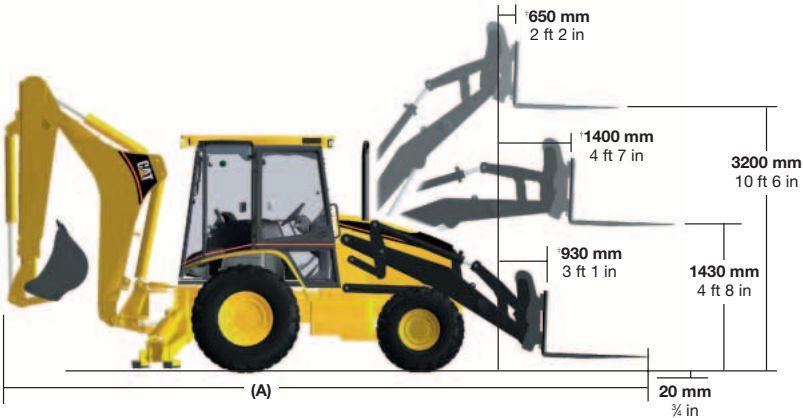
<i>Fork Tine Length:</i>	<i>1050 mm/3 ft 5 in</i>	<i>1200 mm/3 ft 11 in</i>	<i>1350 mm/4 ft 5 in</i>
Operating load (SAE J1197)	1961 kg/4,322 lb*	1890 kg/4,166 lb*	1816 kg/4,004 lb*
Operating load (CEN474-4)	2394 kg/5,277 lb*	2383 kg/5,254 lb*	2373 kg/5,232 lb*
Overall length (A)	7869 mm/25 ft 10 in	8019 mm/26 ft 4 in	8169 mm/26 ft 10 in
Load center	525 mm/1 ft 9 in	600 mm/2 ft 0 in	675 mm/2 ft 3 in

*Tip limited.

Specifications include lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator, 460 kg (1,010 lb) counterweight, standard tires, standard stick, 24-inch heavy-duty bucket, 2WD.

Machine stability is affected by machine options and backhoe attachments.

All dimensions are approximate.



†Measured from nose of machine.

Cat 430D IT Operating Specifications with Material-Handling Arm

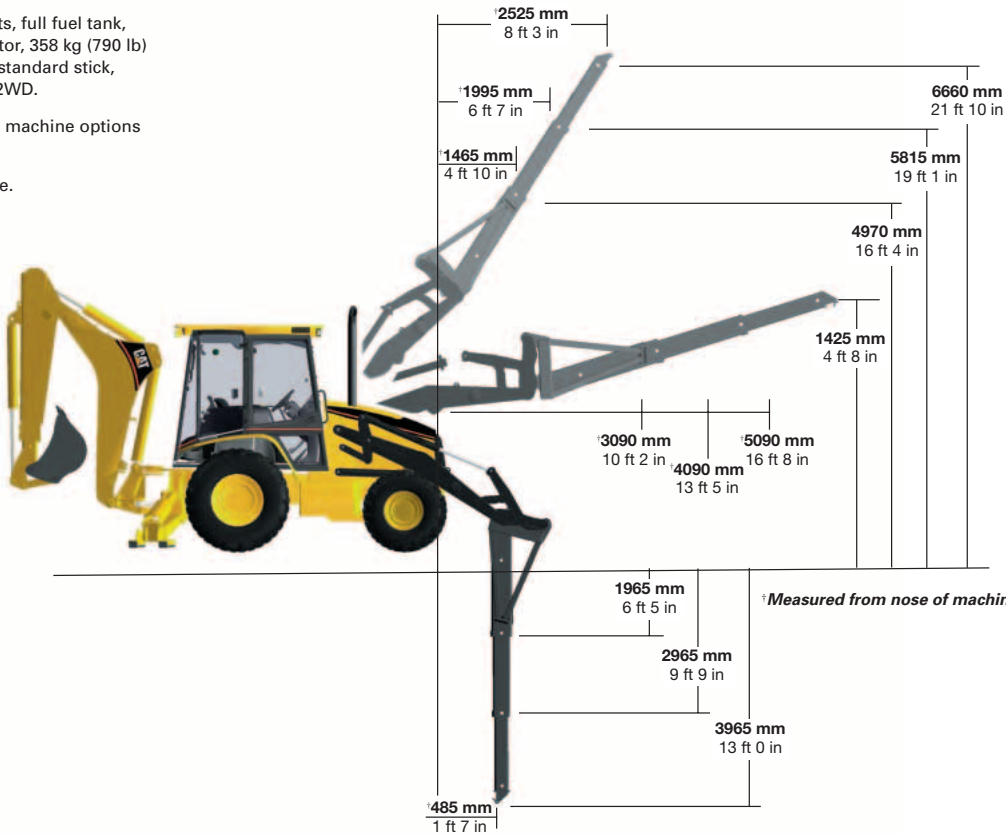
<i>Material-Handling Arm Position:</i>	<i>Retracted</i>	<i>Mid-Position</i>	<i>Extended</i>
Operating load (SAE J1197 & CEN474-4)	967 kg/2,131 lb**	612 kg/1,349 lb**	448 kg/988 lb**
Overall length, maximum	8815 mm/28 ft 11 in	9815 mm/32 ft 2 in	10 815 mm/35 ft 6 in

Specifications include lubricants, full fuel tank, ROPS cab, 80 kg (176 lb) operator, 358 kg (790 lb) counterweight, standard tires, standard stick, 24-inch standard-duty bucket, 2WD.

Machine stability is affected by machine options and backhoe attachments.

All dimensions are approximate.

**Hydraulic limited.



†Measured from nose of machine.

430D/430D IT Backhoe Loader

Backhoe Lift Capacity

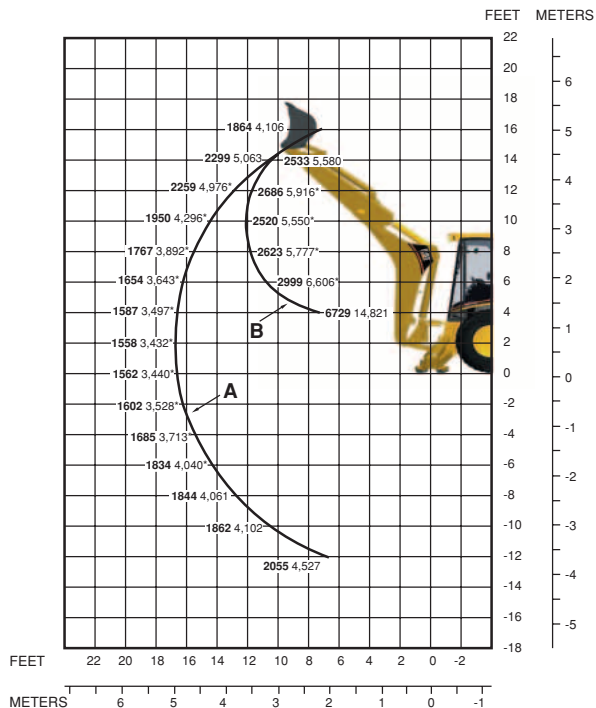
Standard and optional equipment may vary. Consult your Caterpillar dealer for details.

Cat 430D/430D IT Standard Stick

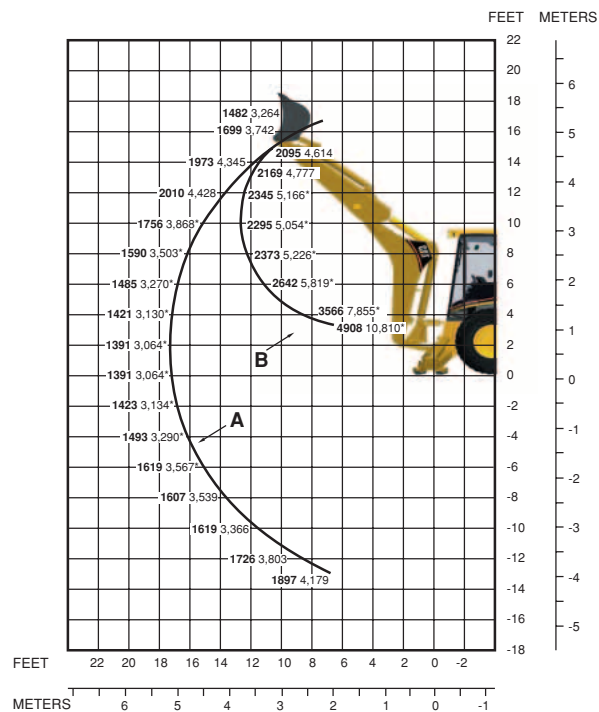
KEY

A — Boom lift **kg lb**

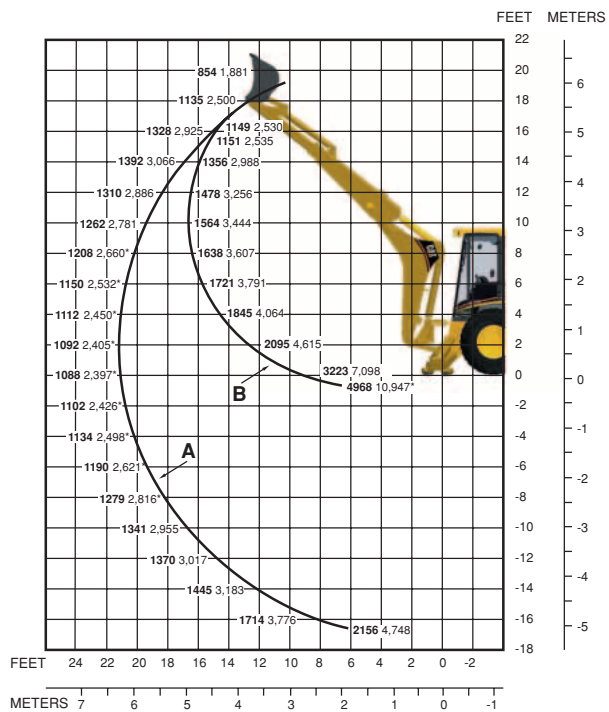
B — Stick lift **kg lb**



Cat 430D/430D IT Extendible Stick — Retracted



Cat 430D/430D IT Extendible Stick — Extended



Lift capacities are over-end values. Machine equipped with 2WD, OROPS, 1.00 m³ (1.31 yd³) general-purpose loader bucket, 610 mm (24 in) heavy duty backhoe bucket and 460 kg (1,010 lb) counterweight. Extendible stick includes 567 kg (1,250 lb) counterweight.

* Indicates lift capacity is stability limited.

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Optional Equipment

With approximate change in operating weight (kg/lb).

Air conditioning	.45/99	Cab, Standard with air conditioning	.251/554	Hydraulic valves, backhoe Auxiliary valve (standard stick)	.5/11
Attachments, backhoe Mechanical Quick Coupler D-Series buckets	.75/165	Canopy Plus, ROPS	.14/30	Auxiliary valve (extendible stick)	.5/11
C-Series buckets	.75/165	Coolant, additional protection (-50° C/-58° F)	.0/0	Hydraulic lines Auxiliary, 2-way lines (to boom)	.10/22
D and Deere buckets	.75/165	Counterweights Base	.145/320	Universal, 1-way lines (to stick)	.45/99
D and Case buckets	.80/176	Counterweight, 320	.145/320	Quick disconnects	.2/4
Attachments, front loader General-purpose buckets 1.00 m ³ /1.30 yd ³	.431/968	Counterweight, 550	.249/550	Loader, IT with QC and Pilot loader control	.338/745
1.07 m ³ /1.40 yd ³	.439/980	Counterweight, 1010	.458/1,010	Ride Control	.25/55
1.15 m ³ /1.50 yd ³	.458/1,010	Counterweight, 1250	.567/1,250	Rotating beacon Fixed mounted	.5/11
Multi-purpose bucket 0.96 m ³ /1.25 yd ³	.662/1,460	Stackable One	.105/230	Magnetic mounted	.5/11
0.96 m ³ /1.25 yd ³ w/forks	.832/1,835	Two	.249/550	Seat belt, 75 mm/3 in	.0/0
1.03 m ³ /1.35 yd ³	.723/1,595	(Base + one 105/230 section) Three	.458/1,010	Stabilizers Street pads, rubber (set of 4) . .	.37/82
1.03 m ³ /1.35 yd ³ w/forks	.855/1,885	(Base + two 105/230 sections) Also available	.567/1,250	Reversible pads	.38/84
Carriage, fork	—77/—169	(Base + one 105/230 section and one 317/700 section) Cutting edge, bolt-on Two piece	.70/154	Stick, extendible	.245/540
Material-handling arm	—79/—173	Fenders, AWD, front	.12/26	Teeth, loader bucket	.45/99
Axle, front All-wheel drive with driveshaft guard	.135/298	Guards Stabilizer, rock	.30/65	Transmission, Auto-shift	.25/55
Battery, additional, 880 CCA . .	.27/60	High ambient cooling package	.2/4	Vandalism protection Gauge cover	.1/2
Cab, Deluxe	.212/467	Hydraulic valves, loader 3rd valve for GP, MP or Quick Coupler	.27/60	Padlocks	.1/2
Cab, Deluxe with air conditioning	.251/554			Hood lock	.0/0
Cab, Standard	.212/467				

*Included in base machine weight

Cab, Deluxe includes deluxe seat, auto-up stabilizers, voltmeter, and system monitors for plugged engine air filter, hydraulic filter and fuel/water separator.