416F

CAT®

Backhoe Loader



Engine			Weights		
Engine Model	Cat® 30540	Mechanical Turbo	Operating Weight – Nominal	6783 kg	14,953 lb
Rated Net Power – SAE J1349	64 kW	86 hp	Operating Weight – Maximum	11 000 kg	24,251 lb
Rated Net Power – ISO 9249	65 kW	87 hp	Backhoe		
			Dig Depth – Standard	4360 mm	14'4"
			Dig Denth – F-Stick Extended	5441 mm	17'11"

Features

Industry Leading Cab

Standard air suspension seat, extra legroom and ergonomic controls can help make you more comfortable for a more productive work day.

Braking Performance

New boosted hydraulic brakes improve braking performance with less operator effort.

Superior Power

Greater pushing power and increased aggressiveness in hard bank loading delivers outstanding performance.

Load Sensing Hydraulics

Variable displacement piston pump delivers flow and pressure to get the job done, while saving fuel all day long.

Outstanding Performance

New front loader arms deliver more reach, dump height and breakout. New larger torque converter delivers increased rimpull.

Cat Durability

New backhoe swing structures provide more durability in the toughest applications.

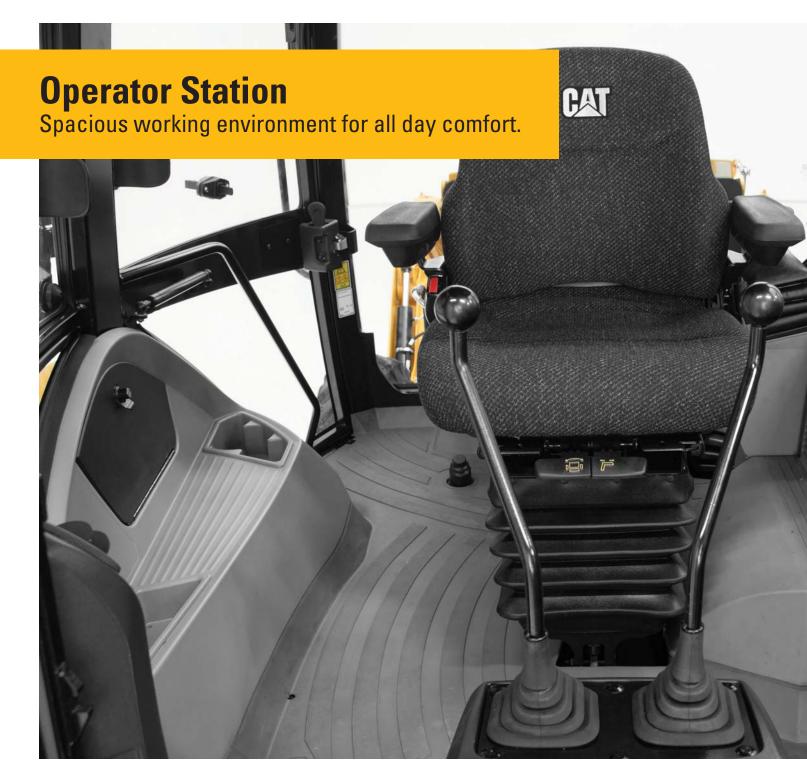
Contents

Operator Station	4
Power Train	6
Hydraulics	7
Backhoe Performance	8
Loader Performance	8
Work Tools	9
Serviceability	10
Customer Support	10
Specifications	11
Standard Equipment	19
Ontional Equipment	10





Experience the difference of a Cat Backhoe Loader. Spacious operator station features ergonomic controls, ample legroom and an air suspension seat that can help keep you comfortable all day long. Built for greater reach, dump height, breakout force and pushing power, the Cat 416F helps you get more done to improve your bottom line.





Backhoe Controls

Two mechanical control patterns are available – two lever excavator and two lever backhoe. Ergonomic, permanently attached foot pedals control auxiliary functions.





Superior Comfort

The ergonomic, automotive style operator station helps you work comfortably and productively all day long. Select the configuration that meets your needs – Canopy, Cab or Cab with air conditioning. Features include:

- Adjustable air suspension seat (standard)
- Excellent visibility over the hood
- Easy-to-read gauge cluster
- Ample legroom
- Storage compartments for tools and belongings

Ride Control

The optional Ride Control System smoothes the ride in all conditions, including load and carry, highway roading or simply moving around the job site. The result can be increased operator comfort, potentially reducing operator fatigue, and improved material retention.

Gauge Cluster

The new gauge cluster provides a digital display of system information such as torque converter oil temperature, hour meter and operator settings.



Cat Engine

The Cat 3054C DIT engine meets all U.S. EPA Tier 2/EU Stage II emission standards.

Transmission

The standard power shuttle transmission provides four speeds forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts.

- Hydraulic proportional control valves deliver smooth speed and directional shifts.
- Four Wheel Drive option improves mobility and loader performance in poor underfoot conditions and can be activated on-the-go.
- Maximum roading speed of 40 km/h (25 mph) improves travel time between job sites.

Brake Mode Selector

Brake mode selector switch has three positions: two wheel drive, two wheel drive with all wheel braking and four wheel drive. Two wheel drive with all wheel braking provides better tire life while roading and engages the front axle when brakes are applied for improved braking performance. Brake mode selector is included in the 4WD package.



Powerful Hydraulic System

The load-sensing, closed center hydraulic system matches pressure and flow to the job demands. Whether you're in full trenching mode or digging around delicate services, you are in control. In applications such as production trenching where speed is important, the system will provide the flow needed to get the job done quickly and efficiently. The load-sensing hydraulic system also delivers:

- Better fuel efficiency
- Quieter operation
- Reduced wear on components
- Cooler hydraulic temperatures
- Full dig and lift forces at any engine speed



Loader Performance

Powerful new front loader.

New front loader arms deliver more reach, dump height and breakout.

Single Tilt

The standard single tilt loader linkage features strong lift and breakout forces for solid performance in backfilling and truck loading applications with pin-on buckets. The 416F is equipped with either a general purpose or multi-purpose pin-on bucket to meet your specific needs.

Return-to-Dig

The return-to-dig system reduces loading cycle times by bringing the loader bucket back to the dig position with an easy pull of the lever. By the time the loader bucket is at ground level, the bucket is angled correctly for the next load or cut.

Backhoe Performance

Superior digging forces.

Boom

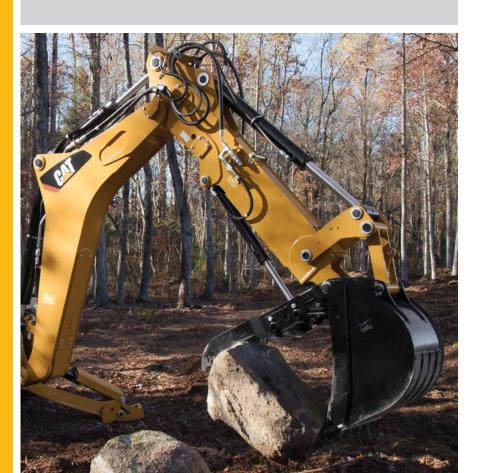
The excavator-style boom is built for optimum performance and durability. The curved design provides added clearance when digging over obstacles or loading trucks. The narrow boom enhances the viewing area to the bucket and the trench throughout the operating range. More robust swing casting and double clevis design improves durability and reliability.

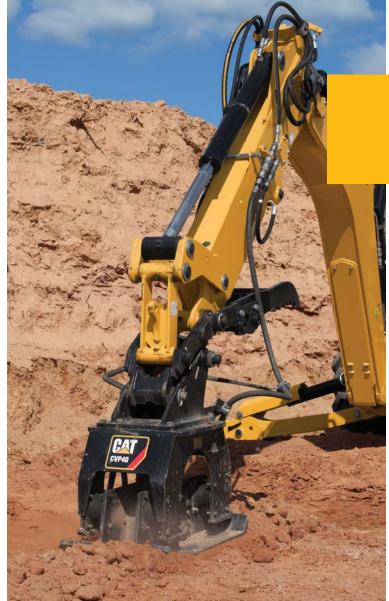
Stick

Serrated edges on the stick provide improved material clamping for clearing and demolition applications. The optional extendible stick (E-stick) increases reach and dig depth by approximately 1.2 m (4 ft).

Thumbs

Thumb mounting provisions are standard on every Cat Backhoe Loader for added machine versatility. Cat hydraulic thumbs are available for increased versatility. Mechanical thumbs are also available through your Cat dealer.





Work Tools

Do more jobs with one machine.

Backhoe Work Tools

Increase the versatility of your machine with the large selection of backhoe attachments:

- Buckets Standard Duty, Heavy Duty, Heavy Duty Rock, Soil Excavation, Coral and Ditch Cleaning
- Cold Planers
- Hammers
- Augers
- Rippers
- Thumbs (mechanical and hydraulic)
- Vibratory Plate Compactors
- Quick Couplers

Loader Work Tools

A wide range of loader attachments is available including:

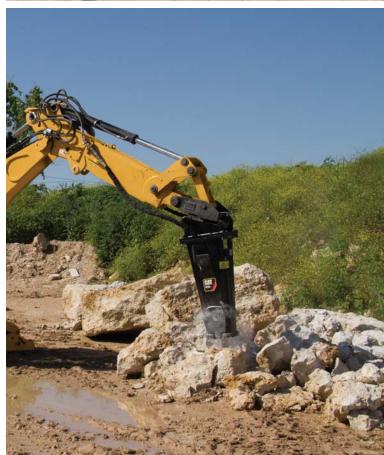
- General Purpose Bucket
- Multi Purpose Bucket
- Side Dump Bucket
- Light Material Bucket
- Forks

Diagonal Retention System

Heavy duty bucket teeth are attached with diagonal pins rather than horizontal pins for easy exchange without the use of special tools.

Backhoe Quick Coupler

Manual or hydraulic backhoe couplers make rear tool exchange quick and easy. New Cat dual lock coupler has a self-adjusting wedge design to ensure a tight fit. It also features a safety lock that automatically engages.



Serviceability

Easy maintenance helps keep your machine working.



Minimize Your Downtime

Convenient service features makes maintenance easy, reducing your downtime:

- Hinged cooling pack provides easy access
- Tilt up hood provides easy, convenient access to all engine check points
- Engine side panels remove easily without the use of tools
- Cat Product Link[™] system (optional) provides remote reporting of machine location and operating system parameters

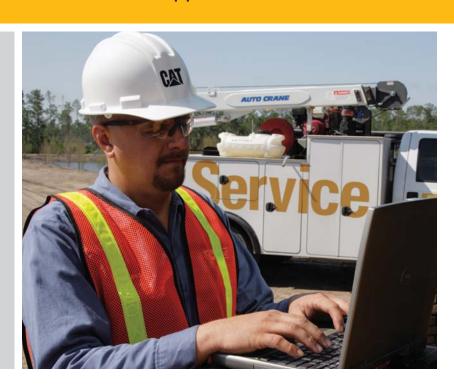
Customer Support

Unmatched support makes the difference.

Renowned Dealer Support

From helping you choose the right machine to knowledgeable ongoing support, Cat dealers provide the best in sales and service.

- Preventive maintenance programs and guaranteed maintenance contracts
- · Best-in-class parts availability
- Operator training to help boost your profits
- Genuine Cat Remanufactured parts



Engine		
Engine Model	Cat 3054C Mechanica	l Turbo
Gross Power		
SAE J1995	69 kW	92 hp
ISO 14396	68 kW	91 hp
Rated Net Power @ 2,200 rpm		
SAE J1349	64 kW	86 hp
ISO 9249	65 kW	87 hp
EEC 80/1269	65 kW	87 hp
Net Peak Power @ 1,800 rpm		
SAE J1349	64 kW	86 hp
ISO 9249	65 kW	87 hp
EEC 80/1269	65 kW	87 hp
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 L	268 in ³
Net Torque Rise @ 1,400 rpm – SAE J1349	38%	
Net Peak Torque @ 1,400 rpm	384 N·m	283 lb-ft

[•] Engine meets U.S. EPA Tier 2/EU Stage II emission standards.

Weights*		
Operating Weight – Nominal	6783 kg	14,953 lb
Operating Weight – Maximum	11 000 kg	24,251 lb
Cab, ROPS/FOPS	167 kg	368 lb
Air Conditioning	26 kg	57 lb
Four Wheel Drive	180 kg	397 lb
MP Bucket (0.96 m³/1.25 yd³) (no forks or teeth)	745 kg	1,642 lb
Extendible Stick	301 kg	664 lb
Counterweights (Option 1)	115 kg	255 lb
Counterweights (Option 2)	240 kg	530 lb
Counterweights (Option 3)	460 kg	1,015 lb

^{*} Specifications shown are for machine equipped with 0.76 m³ (1.0 yd³) general purpose loader bucket, 610 mm (24 in) heavy duty backhoe bucket, 115 kg (255 lb) counterweight, 80 kg (176 lb) operator and full fuel tank.

Transmission		
Power Shuttle Transmission – Stan	dard	
Forward – 1st	6 km/h	3.7 mph
Forward – 2nd	9.6 km/h	5.9 mph
Forward – 3rd	20 km/h	12 mph
Forward – 4th	40 km/h	25 mph
Reverse – 1st	6 km/h	3.7 mph
Reverse – 2nd	9.6 km/h	5.9 mph
Reverse – 3rd	20 km/h	12 mph
Reverse – 4th	40 km/h	25 mph
Axle Ratings		
Front Axle, 2WD		
Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Front Axle, 4WD		
Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Rear Axle		
Static	22 964 kg	50,582 lb
Dynamic	9186 kg	20,233 lb
Hydraulic System		
Туре	Closed Cent	er
Pump Type	Variable Flo	w, Axial Piston
Pump Capacity @ 2,200 rpm	132 L/min	35 gal/min
System Pressure – Backhoe	23 000 kPa	3,300 psi
System Pressure – Loader	23 000 kPa	3,300 psi
Steering		
Туре	Front Wheel	
Power Steering	Hydrostatic	
Bore	65 mm	2.6 in
Stroke	120 mm	4.7 in
Rod Diameter	36 mm	1.4 in
Axle Oscillation	11°	
Turning Circle – 2WD/4WD (inner	wheel not braked	.)

8.18 m

10.97 m

26'10"

36'0"

Outside, Front Wheels

Outside, Widest Loading Bucket

Service Refill Capacities					
Cooling System with Air Conditioning	22 L	5.8 gal			
Fuel Tank	165 L	44 gal			
Engine Oil with Filter	8.8 L	2.3 gal			
Transmission – Power Shuttle					
2WD	18.5 L	4.9 gal			
4WD	18.5 L	4.9 gal			
Rear Axle	16.5 L	4.4 gal			
Planetaries	1.7 L	0.4 gal			
Front Axle (4WD)	11.0 L	2.9 gal			
Planetaries	0.7 L	0.2 gal			
Hydraulic System	90.0 L	23.8 gal			
Hydraulic Tank	40.0 L	10.6 gal			

Tires

Choices listed as combination of front/rear tires:

- 11L-16 (12 ply) F-3/19.5L-24 (12 ply) R4 ATU
- 12.5/80-18 (12 ply) 1-3/19.5L-24 (12 ply) ATU
- 12.5/80-18 NHS (12 ply) 1-3/21L-24 (16 ply) R4 ATU
- 340/80R 18/19.5L-24 (12 ply) R4 ATU

Onesetion Constitutions

operating specifications – backnoe					
Turning Circle: Outside, Front Wheels	8.18 m	26'10"			
Turning Circle: Outside, Widest	10.97 m	36'0"			
Loading Bucket					

- ISO 5010.
- 2WD, 4WD (inner wheel not braked).

Engine Features

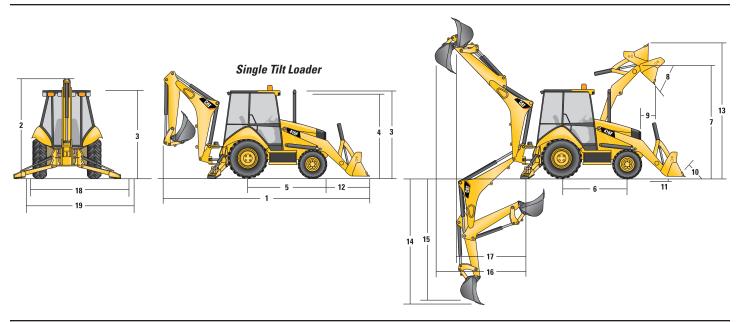
- Three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.
- Forged chrome/molybdenum-steel crankshaft with salt bath nitrocarburized pins and journals.
- Front and rear crankshaft oil seals are "lip" type Viton and PTFE designs featuring an integral dust lip.
- For durability, inlet valves are nitrided, martensitic chrome silicon steel, while exhaust valves are nitrided, austenitic chrome manganese-nickel steel.
- Cylinder block is high strength, cast iron alloy of deep skirt, monobloc design for increased strength and long life.
- Cylinder head is high strength, cast iron alloy construction with extra duty wall and deck thickness. Intake and exhaust ports are precision cast to promote optimum gas flow.
- Direct injection fuel system provides accurate fuel delivery and efficiency.
- Dry-type axial seal air cleaner with integral precleaner, automatic dust ejection system, and filter condition indicator.
- Direct electric, 12-volt starting and charging system with 880 CCA Group 31 maintenance free battery.
- Standard glow plug starting aid system for efficient cold weather starting.
- High contact ratio/gear train, peripheral fixed isolation top cover and open deck block design reduce bare engine noise.
- Higher low end torque for better engine/machine performance.

Brakes

Features:

- Brakes meet the following standards: SAE J1473 and ISO 3450 requirements.
- Self-adjusting, completely enclosed and sealed.
- Foot operated brake pedals can be interlocked for roading.
- Parking/secondary brakes are independent of the service brake system. Parking brake is mechanically applied through an adjustable hand lever located on the right console.

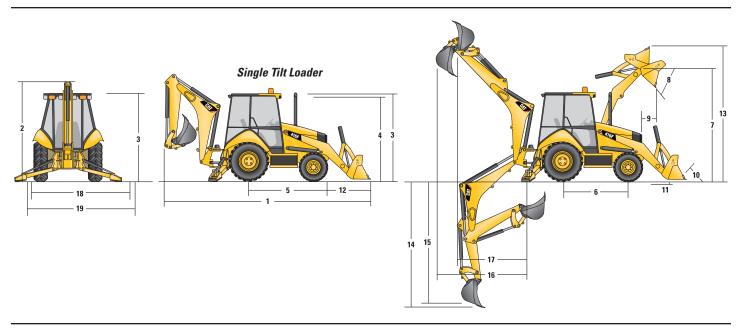
Machine Dimensions



		Single Tilt Loader							
		General I (0.76 m³/1		General I (0.96 m³/1		Multi Pı (1.00 m³/1		Multi Pu with F (1.00 m³/1	orks
1	Overall Transport Length	7085 mm	23'3"	7168 mm	23'6"	7132 mm	23'5"	7132 mm	23'5"
	Overall Length (loader on ground)	7027 mm	23'1"	7140 mm	23'5"	7057 mm	23'2"	7057 mm	23'2"
2	Overall Transport Height – Standard Stick	3577 mm	11'9"	3577 mm	11'9"	3577 mm	11'9"	3577 mm	11'9"
	Overall Transport Height – Extendible Stick	3631 mm	11'11"	3631 mm	11'11"	3631 mm	11'11"	3631 mm	11'11"
	Overall Width	2322 mm	7'7"	2322 mm	7'7"	2322 mm	7'7"	2322 mm	7'7"
3	Height to Top of Cab/Canopy	2819 mm	9'3"	2819 mm	9'3"	2819 mm	9'3"	2819 mm	9'3"
4	Height to Top of Exhaust Stack	2744 mm	9'0"	2744 mm	9'0"	2744 mm	9'0"	2744 mm	9'0"
	Height to Loader Hinge Pin (transport)	381 mm	1'3"	381 mm	1'3"	432 mm	1'5"	432 mm	1'5"
	Ground Clearance (minimum)	320 mm	1'1"	320 mm	1'1"	320 mm	1'1"	320 mm	1'1"
5	Rear Axle Centerline to Front Grill	2705 mm	8'10"	2705 mm	8'10"	2705 mm	8'10"	2705 mm	8'10"
	Front Wheel Tread Gauge	1895 mm	6'3"	1895 mm	6'3"	1895 mm	6'3"	1895 mm	6'3"
	Rear Wheel Tread Gauge	1714 mm	5'7"	1714 mm	5'7"	1714 mm	5'7"	1714 mm	5'7"
6	Wheelbase 2WD/AWD	2200 mm	7'3"	2200 mm	7'3"	2200 mm	7'3"	2200 mm	7'3"

Dimensions and performance specifications shown are for machines equipped with 12.5/80-18 SGL front tires, 19.5L-24 IT525 rear tires, ROPS canopy, standard stick with 610 mm (24 in) standard duty bucket, 0.76 m³ (1.00 yd³) loader bucket and standard equipment unless otherwise specified.

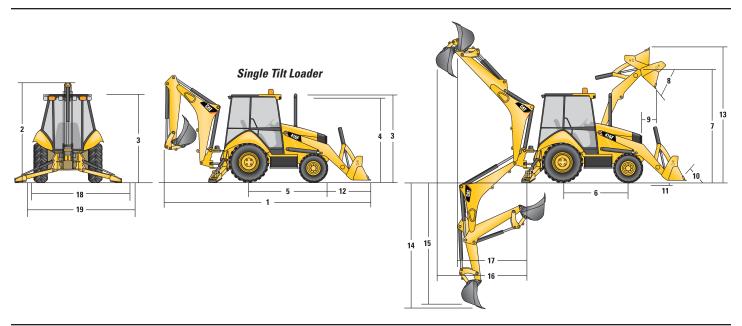
Loader Bucket Dimensions and Performance



		Single Tilt Loader							
			Purpose 1.00 yd³)	General (0.96 m³/		Multi P (1.00 m³/		Multi P with (1.00 m³/	Forks
	Capacity (SAE rated)	0.76 m ³	1.00 yd³	0.96 m³	1.25 yd³	1.00 m ³	1.31 yd³	1.00 m³	1.31 yd ³
	Overall Bucket Width	2262 mm	89"	2262 mm	89"	2279 mm	90"	2279 mm	90"
	Lift Capacity at Maximum Height	3062 kg	6,751 lb	2964 mm	6,535 lb	2771 kg	6,108 lb	2656 kg	5,855 lb
	Lift Breakout Force	47 919 N	10,772 lb	45 326 N	10,189 lb	44 392 N	9,979 lb	42 904 N	9,645 lb
	Tilt Breakout Force	54 629 N	12,281 lb	45 993 N	10,339 lb	52 674 N	11,841 lb	51 760 N	11,636 lb
7	Maximum Hinge Pin Height	3474 mm	11'5"	3474 mm	11'5"	3474 mm	11'5"	3474 mm	11'5"
8	Dump Angle at Full Height	44	1°	44	1°	44	1°	44	1°
	Dump Height at Maximum Angle	2824 mm	9'3"	2746 mm	9'0"	2798 mm	9'2"	2798 mm	9'2"
9	Dump Reach at Maximum Angle	727 mm	2'5"	808 mm	2'8"	716 mm	2'4"	716 mm	2'4"
10	Maximum Bucket Rollback at Ground Level	3′	7°	37	7°	38	3°	38	3°
11	Digging Depth	83 mm	3"	83 mm	3"	110 mm	4"	110 mm	4"
	Maximum Grading Angle	11	6°	11	2°	11	6°	11	6°
	Width of Dozer Cutting Edge	N	'A	N/	'A	2262 mm	7'5"	2262 mm	7'5"
12	Grill to Bucket Cutting Edge, Carry Position	1404 mm	4'7"	1487 mm	4'11"	1451 mm	4'9"	1451 mm	4'9"
13	Maximum Operating Height	4206 mm	13'10"	4355 mm	14'3"	4404 mm	14'5"	4878 mm	16'0"
	Jaw Opening Maximum	N.	/A	N	'A	790 mm	2'7"	790 mm	2'7"
	Bucket Jaw Clamping Force	N.	'A	N/	'A	50 600 N	11,375 lb	50 600 N	11,375 lb
	Weight (does not include teeth or forks)	384 kg	847 lb	451 kg	994 lb	745 kg	1,642 lb	915 kg	2,017 lb

Dimensions and performance specifications shown are for machines equipped with 12.5/80-18 SGL front tires, 19.5L-24 IT525 rear tires, ROPS canopy, standard stick with 610 mm (24 in) standard duty bucket, 0.76 m³ (1.00 yd³) loader bucket and standard equipment unless otherwise specified.

Backhoe Dimensions and Performance

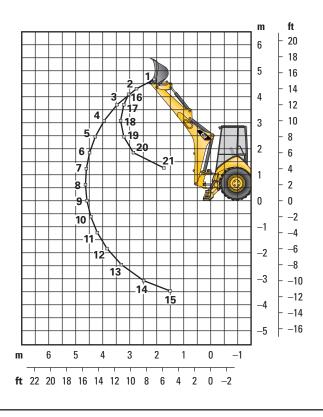


	Standa	rd Stick	E-Stick F	etracted	E-Stick E	xtended
14 Digging Depth, SAE (maximum)	4360 mm	14'4"	4389 mm	14'5"	5441 mm	17'11"
15 Digging Depth, 610 mm (2 ft) Flat Bottom	4309 mm	14'2"	4350 mm	14'4"	5404 mm	17'10"
Reach from Rear Axle Centerline at Ground Line	6702 mm	22'1"	6738 mm	22'2"	7742 mm	25'6"
16 Reach from Swing Pivot at Ground Line	5612 mm	18'5"	5648 mm	18'7"	6652 mm	21'10"
Maximum Operating Height	5525 mm	18'2"	5549 mm	18'3"	6286 mm	20'8"
Loading Height	3643 mm	11'11"	3600 mm	11'9"	4170 mm	13'7"
17 Loading Reach	1838 mm	6'0"	1925 mm	6'4"	2840 mm	9'4"
Swing Arc	10	8°	10	8°	10	8°
Bucket Rotation	20	205° 205°		20	5°	
18 Stabilizer Spread, Operating Position (center)	3310 mm	10'10"	3310 mm	10'10"	3310 mm	10'10"
Stabilizer Spread, Operating Position (outside)	3770 mm	12'4"	3770 mm	12'4"	3770 mm	12'4"
Stabilizer Spread, Transport Position	2322 mm	7'7"	2322 mm	7'7"	2322 mm	7'7"
Bucket Dig Force	57 709 N	12,973 lb	56 898 N	12,791 lb	56 898 N	12,791 lb
Stick Dig Force	32 378 N	7,279 lb	32 421 N	7,289 lb	23 796 N	5,350 lb

Dimensions and performance specifications shown are for machines equipped with 12.5/80-18 SGL front tires, 19.5L-24 IT525 rear tires, ROPS canopy, standard stick with 610 mm (24 in) standard duty bucket, 0.76 m³ (1.00 yd³) loader bucket and standard equipment unless otherwise specified.

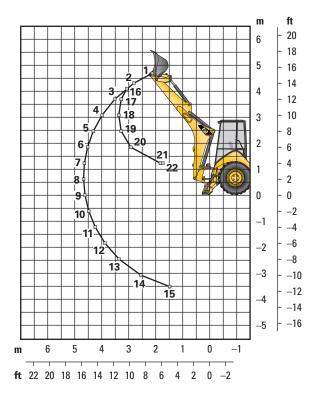
Backhoe Lift Capacity

Cat 416F Standard Stick						
Boom Lifting		kg	lb			
	1	1295	2,848			
	2	1408	3,097			
	3	1417	3,117			
	4	1376	3,027			
	5	1323	2,911			
	6	1268	2,790			
	7	1215	2,673			
	8	1165	2,562			
	9	1118	2,459			
	10	1075	2,364			
	11	1036	2,279			
	12	1002	2,204			
	13	977	2,149			
	14	974	2,143			
	15	1067	2,348			
Stick Lifting		kg	lb			
	16	1311	2,884			
	17	1848	4,066			
	18	2306	5,072			
	19	2397	5,274			
	20	2787	6,130			
	21	5556	12,223			



Cat 416F Extendible Stick – Retracted

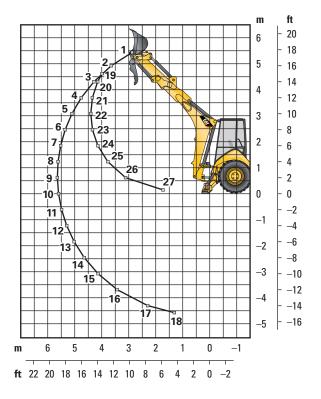
Out 4101 Extendible Otlo	K Hotraotoa	
Boom Lifting	kg	lb
1	1 1116	2,455
2	1214	2,672
3	3 1213	2,669
L	1168	2,570
į	5 1113	2,449
(6 1056	2,324
7	7 1001	2,203
8	949	2,088
(900	1,981
10	855	1,881
11	813	1,788
12	2 775	1,705
13	3 742	1,633
14	724	1,592
15	776	1,707
Stick Lifting	kg	lb
16	1168	2,570
17	1693	3,724
18	3 2107	4,635
19	2183	4,803
20	2533	5,573
21	4985	10,967
22	5331	11,729



Lift Capacities are over-end values. Machine equipped with 4WD, 0R0PS, 0.76 m³ (1.00 yd³) general purpose bucket and 116 kg (255 lb) counterweight. Extendible stick includes 460 kg (1,015 lb) counterweight.

Backhoe Lift Capacity

Cat 416F Extendibl	e Stick – Ext	tended	
Boom Lifting		kg	lb
	1	615	1,353
	2	749	1,648
	3	796	1,752
	4	803	1,766
	5	792	1,742
	6	768	1,689
	7	751	1,652
	8	727	1,600
	9	703	1,547
	10	680	1,497
	11	659	1,449
	12	639	1,405
	13	622	1,368
	14	609	1,340
	15	604	1,329
	16	616	1,355
	17	705	1,550
	18	1042	2,293
Stick Lifting		kg	lb
	19	550	1,209
	20	733	1,613
	21	985	2,166
	22	1159	2,551
	23	1305	2,870
	24	1458	3,207
	25	1676	3,688
	26	2189	4,816
	27	5303	11,666



Lift Capacities are over-end values. Machine equipped with 4WD, OROPS, 0.76 m³ (1.00 yd³) general purpose bucket and 116 kg (255 lb) counterweight. Extendible stick includes 460 kg (1,015 lb) counterweight.

Counterweights

Minimum Counterweight Recommendations

Standard Stick							
Loader Bucket	Power Train	kg	lb				
GP	2WD	240	530				
GP	4WD	115	255				
MP	2WD/4WD	no counterweight					

Extendible Stick			
Loader Bucket	Power Train	kg	lb
GP	2WD/4WD	460	1,015
GP	2WD	240	530
MP	4WD	115	255

Backhoe Buckets

With weld on adapters and pin-on teeth

Standard	tandard Duty								
Wi	dth	Rated Capacity		Weight		No. of			
mm	in	L	ft³	kg	lb	Teeth			
305	12	80	2.8	111	245	3			
457	18	120	4.2	122	268	4			
610	24	180	6.2	141	291	5			
762	30	230	8.1	157	345	5			
914	36	290	10.2	176	388	6			

eavy Duty									
Width Rated Capacity Weight						No. of			
mm	in	L	ft³	kg	lb	Teeth			
305	12	80	2.8	121	266	3			
406	16	110	3.9	128	282	3			
457	18	120	4.2	135	299	4			
610	24	180	6.2	151	333	5			
762	30	230	8.1	177	391	5			
914	36	290	10.2	201	443	6			

oil Excavation								
lth	Rated C	Capacity	We	ight	No. of			
in	L	ft³	kg	lb	Teeth			
18	180	6.4	155	341	4			
24	240	8.5	182	402	5			
30	320	11.3	206	454	5			
36	380	13.4	233	513	6			
	in 18 24 30	in L 18 180 24 240 30 320	Ith Rated Capacity in L ft³ 18 180 6.4 24 240 8.5 30 320 11.3	Ith Rated Capacity We in L ft³ kg 18 180 6.4 155 24 240 8.5 182 30 320 11.3 206	Ith Rated Capacity Weight in L ft³ kg lb 18 180 6.4 155 341 24 240 8.5 182 402 30 320 11.3 206 454			

Heavy Dut	leavy Duty Rock								
Wie	Width		Width		Rated Capacity		Weight		
mm	in	L	ft³	kg	lb	Teeth			
305	12	70	2.5	127	279	3			
457	18	130	4.6	146	322	4			
610	24	200	7.0	174	381	5			
762	30	270	9.5	197	434	5			
914	36	330	11.7	224	493	6			

Coral						
Wie	Width Rated Capacity		We	Weight		
mm	in	L	ft³	kg	lb	Teeth
305	12	60	2.1	134	295	4
457	18	100	3.5	155	341	6
610	24	140	4.9	182	402	8
762	30	190	6.7	210	463	10

eavy Duty – Pin Lock								
Wie	dth	Rated Capacity		Weight		No. of		
mm	in	L	ft³	kg	lb	Teeth		
305	12	96	3.4	113	249	3		
406	16	123	4.3	131	288	3		
457	18	139	4.9	139	307	4		
610	24	207	7.3	168	370	5		
762	30	275	9.7	194	428	5		
914	36	345	12.2	224	494	6		

gh Capacity – Pin Lock								
Wi	dth	Rated Capacity		We	ight	No. of		
mm	in	L	ft³	kg	lb	Teeth		
305	12	96	4.6	113	287	3		
406	16	123	5.6	131	327	3		
457	18	139	6.5	139	346	4		
610	24	207	9.6	168	414	5		
762	30	275	12.9	194	475	5		
914	36	345	16.2	224	543	6		

Standard Equipment

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

- Air cleaner
- · Alarm, back-up
- · Alternator, 120 amp
- Audible system fault alarm
- Backhoe position footrest
- · Battery, maintenance-free, 880 CCA
- Battery disconnect switch
- Battery remote jumpstart
- Boom transport lock
- Brace, lift cylinder
- Brake, secondary parking
- Brakes, hydraulically boosted, oil disc, dual pedals, interlocking
- Bucket level indicator
- · Canopy, ROPS/FOPS
- Coat hook
- Coolant/antifreeze, extended life
- Counterweight, bumper
- Diesel particulate filter, long life
- Dome light (cab only)
- Diagnostic port for engine
- Differential lock
- Engine, Cat 3054C (Direct Injection Turbocharged), meets U.S. EPA Tier 2/ EU Stage II emission standards
- Engine enclosure
- Fan, suction and guard
- Fast reversing shuttle, all gears
- Fenders, rear
- Filters, spin-on: fuel, engine oil, transmission oil, water separator
- Filters, bowl and cartridge: hydraulic fluid

- · Floor mat
- · Flow-sharing hydraulic valves
- Fully hinged front grill for cooling package cleaning access
- Gauge Cluster:
- Gauges: coolant temperature, fuel level, tachometer
- LCD screen: hour meter, torque converter oil temperature (service mode only)
- Ground level fuel fill
- Guard, fuel tank bottom
- Hazard flashers/turn signals
- High ambient cooling package
- Hood lock
- Hydraulic hose, XTTM
- Hydraulic oil cooler
- Hydraulic oil level sight gauge
- Hydraulic valve, hydrostatic steering
- Hydraulic valves, loader 2 function
- Hydraulic valves, backhoe 4 function
- Hydraulics, load sensing with variable displacement piston pump
- Indicators: air cleaner service, water separator service, engine coolant, oil pressure, torque converter temperature high, fuel level, charging, action lamp, wait-to-start
- Instrument panel lights
- Key start/stop system
- Lights, working (2 front, 2 rear)
- Load sensing, variable flow system

- Loader, self-leveling, return-to-dig and transmission disconnect switch
- · Loader, single tilt
- · Lunch box and drink holder
- · Mirror, rearview
- Open circuit breather
- O-ring face seal hydraulic fittings
- Power receptacle, 12 volt, 2 internal, 1 external
- Power steering, hydrostatic
- Seat belt, retractable, 51 mm (2 in)
- Stabilizer shoes, street
- Steering knob
- Seat, air suspension, fabric or vinyl cover, with armrest
- Starting system, glow plugs
- Steering, hydrostatic
- Storage compartment, external
- Storage compartment, internal
- Stop and tail lights
- Swing transport lock
- Tires
- Toolbox, external, lockable
- Torque converter
- Throttle, hand and foot, electronic
- · Transmission, four speed, syncromesh
- · Transmission neutralizer switch
- Transport tie-downs
- Two Wheel Drive
- Vandalism locks
- Warning horn, electric

416F Optional Equipment

Optional Equipment

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

- Battery, additional, 880 CCA
- Cab, standard
- Cab, standard with air conditioning
- Cold weather fuel (-30° C/-22° F)
- Cold weather package, including additional battery, engine block heater, radiator antifreeze (–50° C/–58° F), cold weather fuel (–30° C/–22° F) and mounting for an ether bottle
- Counterweights, 115 kg (255 lb), 240 kg (530 lb) or 460 kg (1,015 lb)
- Fenders, front with integral steps
- Fenders, rear extensions
- Four Wheel Drive/Brake Mode Selector

- Guard, boom protection plate
- Guard, stabilizer, rock
- Guard, fuel tank front and rear
- Hydraulic valves, loader (3rd valve for GP, MP or Quick Coupler)
- Hydraulic valves, backhoe (5th and 6th function)
- Hydraulic lines, combined function auxiliary
- Machine Security System
- Product Link
- · Quick Coupler, manual, dual lock
- Quick Coupler, pin lock
- · Radio ready cab

- Ride Control
- Rotating beacon, magnetic mount
- Seat belt, 75 mm (3 in)
- Stabilizer pads, grouser type
- Stabilizer pads, reversible
- Storage box

· Stick, extendible

- Vandalism protection, gauge cover
- Work Tool Attachments such as buckets, forks, augers, hammers, cold planers and vibratory plate compactors. See your Cat dealer for more information.

416F Backhoe Loader

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Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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