

420F/420F IT

Backhoe Loaders



Engine

Engine Model	Cat® C4.4 ACERT™	
Rated Net Power – SAE J1349	69 kW	93 hp
Rated Net Power – ISO 9249	70 kW	94 hp

Weights

Operating Weight – Nominal	6983 kg	15,395 lb
Operating Weight – Maximum	11 000 kg	24,251 lb

Backhoe

Dig Depth – Standard	4360 mm	14'4"
Dig Depth – E-Stick Extended	5441 mm	17'11"

Operator Station

Spacious working environment for all day comfort.



Joystick Controls

Ergonomic excavator-style joystick controls provide precise control with low effort. Thumb rollers provide convenient, fingertip control of auxiliary functions, eliminating floor mounted foot pedals.



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, Deluxe Cab or Deluxe Cab with air conditioning. Features include:

- Adjustable air suspension seat (standard)
- Excellent visibility over the hood
- Easy-to-read gauge cluster
- Ample legroom
- Automatic Engine Speed Control to conserve fuel
- 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.

Pattern Selector

The pattern selector switch, located in the cab, lets you change from an excavator to a backhoe control pattern simply by pressing a button. This lets you use the pattern you are most comfortable with so you can be more productive.





Loader Performance

Powerful new front loader.

New front loader arms deliver more reach, dump height and breakout. Choose the loader linkage that suits your application:

- **Single Tilt** loader linkage (standard) features strong lift and breakout forces for solid performance in backfilling and truck loading applications with pin-on buckets.
- **Integrated Toolcarrier (IT)** loader linkage (optional) provides high breakout forces with parallel lift for efficient loading and material handling. The versatile integrated toolcarrier comes with a standard hydraulic quick coupler and can use a wide range of Cat Work Tools for a variety of applications. The single lever IT loader control provides fine modulation of hydraulic work tools. A thumb roller operates auxiliary hydraulic functions on work tools such as multi purpose buckets, brooms and other attachments.

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.



Engine

Engine Model	Cat C4.4 ACERT	
Gross Power		
SAE J1995	76 kW	102 hp
ISO 14396	74 kW	100 hp
Rated Net Power @ 2,200 rpm		
SAE J1349	69 kW	93 hp
ISO 9249/EEC 80/1269	70 kW	94 hp
Net Peak Power @ 1,800 rpm		
SAE J1349	71 kW	95 hp
ISO 9249	72 kW	97 hp
EEC 80/1269	72 kW	97 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	46%	
Net Peak Torque @ 1,400 rpm	438 N·m	323 lb-ft

- Engine meets U.S. EPA Tier 4 Interim/EU Stage IIIB emission standards.

Transmission

Power Shuttle Transmission – Standard		
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
AutoShift Transmission – Optional		
Forward – 1st	5.9 km/h	3.7 mph
Forward – 2nd	9.5 km/h	5.9 mph
Forward – 3rd	20 km/h	12 mph
Forward – 4th	27 km/h	17 mph
Forward – 5th	41 km/h	25 mph
Reverse – 1st	5.9 km/h	3.7 mph
Reverse – 2nd	13 km/h	7.8 mph
Reverse – 3rd	27 km/h	17 mph

Weights*

Operating Weight – Nominal	6983 kg	15,395 lb
Operating Weight – Maximum	11 000 kg	24,251 lb
Cab, ROPS/FOPS	184 kg	406 lb
AutoShift Transmission	216 kg	476 lb
Ride Control	14 kg	31 lb
Air Conditioning	26 kg	57 lb
Four Wheel Drive	183 kg	397 lb
MP Bucket (1.0 m ³ /1.3 yd ³) (no forks or teeth)	745 kg	1,642 lb
Loader, IT with Quick Coupler	197 kg	434 lb
Extendible Stick	305 kg	672 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 0.96 m³ (1.25 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.

Steering

Type	Front Wheel	
Power Steering	Hydrostatic	
Bore	105 mm	4.13 in
Stroke	127 mm	5.0 in
Rod Diameter	36 mm	1.4 in
Axle Oscillation	11°	
Turning Circle – 2WD/4WD (inner wheel not braked)		
Outside, Front Wheels	8.18 m	26'10"
Outside, Widest Loading Bucket	10.97 m	36'0"

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
Axle Oscillation	10 Degrees	

- 4WD and 2WD axles are pendulum mounted and permanently sealed and lubricated, requiring no daily maintenance. Also features double-acting steering cylinder with 52° steering angle for increased maneuverability.

420F/420F IT Specifications

Hydraulic System

Type	Closed Center	
Pump Type	Variable Flow, Axial Piston	
Pump Capacity @ 2,200 rpm	163 L/min	43 gal/min
System Pressure – Backhoe	25 000 kPa	3,600 psi
System Pressure – Loader	25 000 kPa	3,600 psi

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
Transmission – AutoShift		
4WD	19.0 L	5.0 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	95.0 L	25.1 gal
Hydraulic Tank	40.0 L	10.6 gal

- Requires ultra-low sulfur fuel \leq 15 ppm fuel sulfur.

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
- 340/80R 18/500/70R 24 RT

Operating Specifications – Backhoe

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

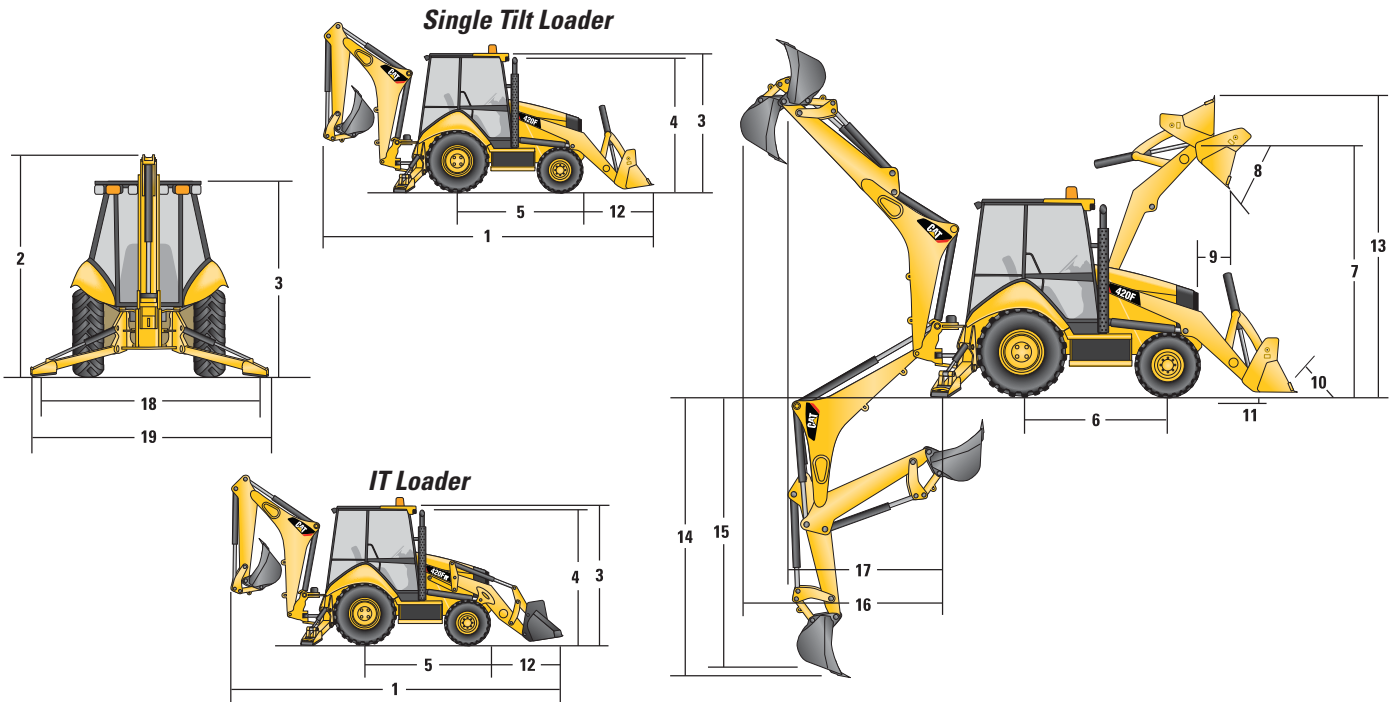
- Regeneration is passive and does not require any input from the operator or disrupt work.
- Three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.
- Forged chrome/molybdenum-steel crankshaft with crankshaft with either induction hardened or nitrocarburized journals.
- Front and rear crankshaft oil seals are “lip” type Viton and PTFE designs featuring an integral dust lip.
- Heat resistant, silicone-chrome steel intake and STELLITE-faced exhaust valves provide long life.
- 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; remote mounted electric lift pump improves serviceability.
- 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.
- Engine is equipped with electric fuel priming pump.

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

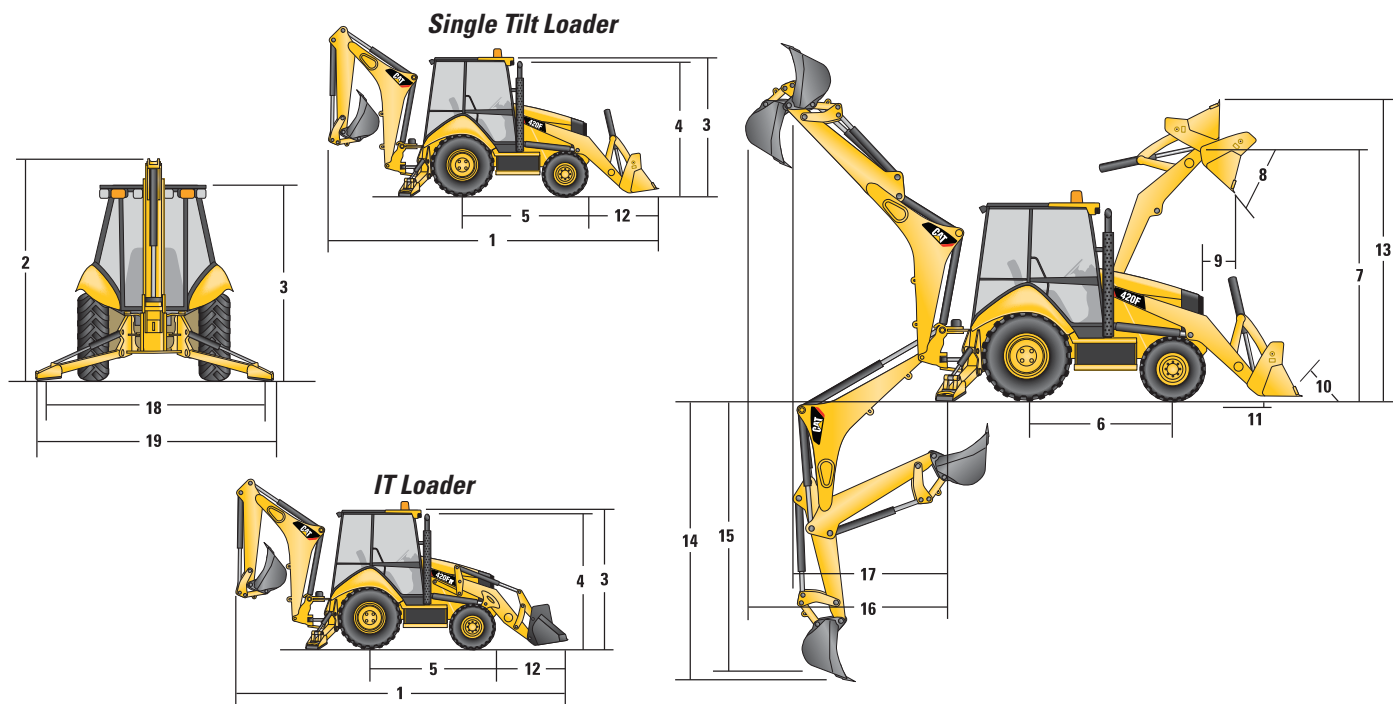


Single Tilt Loader										
	General Purpose (0.96 m ³ /1.25 yd ³)		General Purpose (1.1 m ³ /1.4 yd ³)		General Purpose (1.15 m ³ /1.5 yd ³)		Multi Purpose (1.0 m ³ /1.3 yd ³)		Multi Purpose (1.1 m ³ /1.4 yd ³)	
1 Overall Transport Length	7169 mm	23'6"	7208 mm	23'8"	7208 mm	23'8"	7133 mm	23'5"	7133 mm	23'5"
Overall Length (loader on ground)	7141 mm	23'5"	7161 mm	23'6"	7161 mm	23'6"	7059 mm	23'2"	7059 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"	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"	3631 mm	11'11"
Overall Width	2322 mm	7'7"	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"	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"	2744 mm	9'0"
Height to Loader Hinge Pin (transport)	381 mm	1'3"	428 mm	1'5"	428 mm	1'5"	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"	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"	2705 mm	8'10"
Front Wheel Tread Gauge	1895 mm	6'3"	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"	1714 mm	5'7"
6 Wheelbase 2WD/AWD	2200 mm	7'3"	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, 0.96 m³ (1.25 yd³) loader bucket and standard equipment unless otherwise specified.

420F/420F IT Specifications

Machine Dimensions



IT Loader with Quick Coupler

	General Purpose (1.0 m ³ /1.3 yd ³)		General Purpose (1.15 m ³ /1.5 yd ³)		Multi Purpose (1.1 m ³ /1.4 yd ³)	
1 Overall Transport Length	7250 mm	23'9"	7279 mm	23'11"	7211 mm	23'8"
Overall Length (loader on ground)	7244 mm	23'9"	7287 mm	23'11"	7197 mm	23'7"
2 Overall Transport Height – Standard Stick	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"
Overall Width	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"
4 Height to Top of Exhaust Stack	2744 mm	9'0"	2744 mm	9'0"	2744 mm	9'0"
Height to Loader Hinge Pin (transport)	396 mm	1'4"	391 mm	1'3"	386 mm	1'3"
Ground Clearance (minimum)	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"
Front Wheel Tread Gauge	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"
6 Wheelbase 2WD/AWD	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, 0.96 m³ (1.25 yd³) loader bucket and standard equipment unless otherwise specified.

Loader Bucket Dimensions and Performance

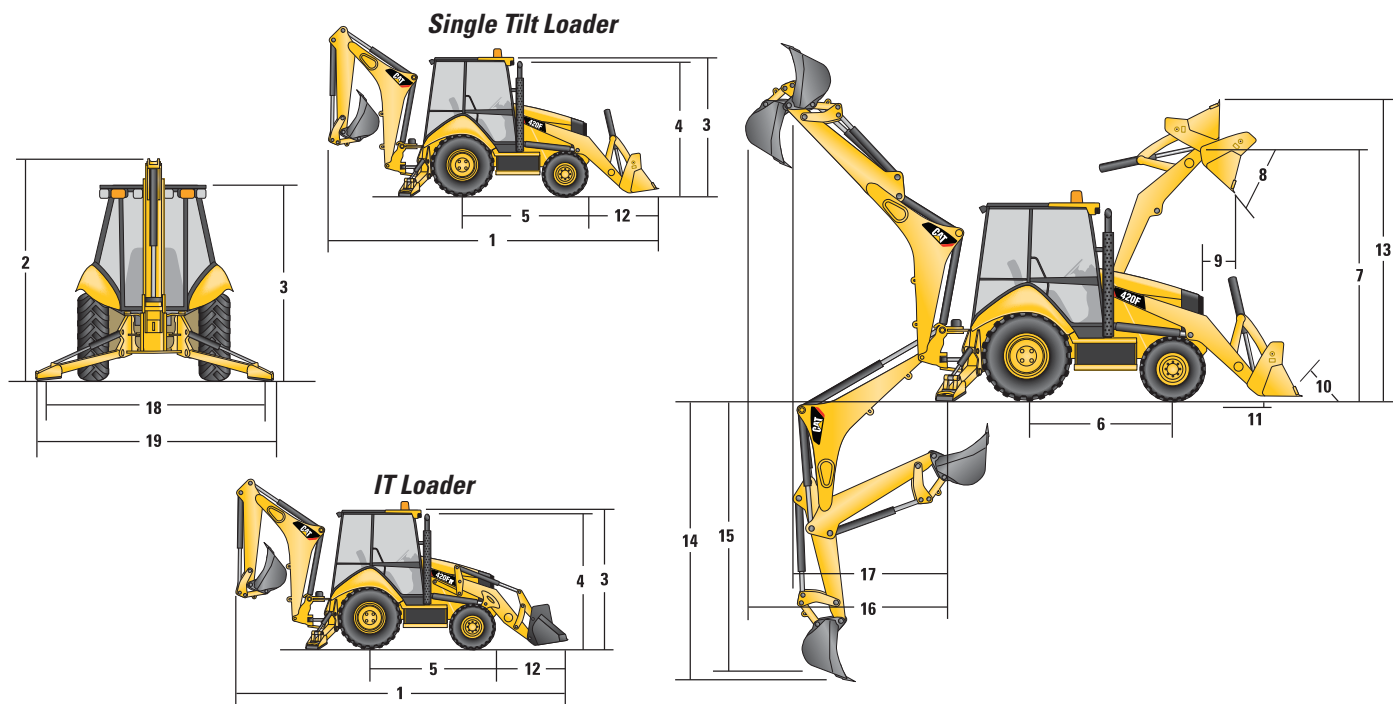
	Single Tilt Loader									
	General Purpose (0.96 m³/1.25 yd³)		General Purpose (1.1 m³/1.4 yd³)		General Purpose (1.15 m³/1.5 yd³)		Multi Purpose (1.0 m³/1.3 yd³)		Multi Purpose (1.1 m³/1.4 yd³)	
Capacity (SAE rated)	0.96 m³	1.25 yd³	1.1 m³	1.4 yd³	1.15 m³	1.5 yd³	1.0 m³	1.3 yd³	1.1 m³	1.4 yd³
Overall Bucket Width	2262 mm	89"	2262 mm	89"	2406 mm	95"	2279 mm	90"	2425 mm	95"
Lift Capacity at Maximum Height	3283 kg	7,237 lb	3216 kg	7,090 lb	3196 kg	7,046 lb	3097 kg	6,828 lb	3068 kg	6,764 lb
Lift Breakout Force	49 809 N	11,197 lb	49 275 N	11,077 lb	49 099 N	11,037 lb	49 019 N	11,020 lb	48 771 N	10,964 lb
Tilt Breakout Force	50 190 N	11,283 lb	51 236 N	11,518 lb	51 128 N	11,494 lb	57 555 N	12,938 lb	57 408 N	12,905 lb
7 Maximum Hinge Pin Height	3474 mm	11'5"	3474 mm	11'5"	3474 mm	11'5"	3474 mm	11'5"	3474 mm	11'5"
8 Dump Angle at Full Height	44°		44°		44°		44°		44°	
Dump Height at Maximum Angle	2746 mm	9'0"	2723 mm	8'11"	2723 mm	8'11"	2798 mm	9'2"	2798 mm	9'2"
9 Dump Reach at Maximum Angle	808 mm	2'8"	773 mm	2'6"	773 mm	2'6"	716 mm	2'4"	716 mm	2'4"
10 Maximum Bucket Rollback at Ground Level	37°		38°		38°		38°		38°	
11 Digging Depth	83 mm	3"	123 mm	5"	123 mm	5"	110 mm	4"	110 mm	4"
Maximum Grading Angle	112°		113°		113°		116°		116°	
Width of Dozer Cutting Edge	N/A		N/A		N/A		2262 mm	7'5"	2406 mm	7'11"
12 Grill to Bucket Cutting Edge, Carry Position	1487 mm	4'11"	1525 mm	5'1"	1525 mm	5'1"	1451 mm	4'9"	1451 mm	4'9"
13 Maximum Operating Height	4355 mm	14'3"	4395 mm	14'5"	4395 mm	14'5"	4404 mm	14'5"	4404 mm	14'5"
Jaw Opening Maximum	N/A		N/A		N/A		790 mm	2'7"	790 mm	2'7"
Bucket Jaw Clamping Force	N/A		N/A		N/A		55 700 N	12,521 lb	55 700 N	12,521 lb
Weight (does not include teeth or forks)	451 kg	994 lb	473 kg	1,043 lb	493 kg	1,087 lb	745 kg	1,642 lb	774 kg	1,706 lb

	IT Loader with Quick Coupler					
	General Purpose (1.0 m³/1.3 yd³)		General Purpose (1.15 m³/1.5 yd³)		Multi Purpose (1.1 m³/1.4 yd³)	
Capacity (SAE rated)	1.0 m³	1.3 yd³	1.15 m³	1.5 yd³	1.1 m³	1.4 yd³
Overall Bucket Width	2406 mm	95"	2406 mm	95"	2425 mm	95"
Lift Capacity at Maximum Height	3707 kg	8,173 lb	3682 kg	8,117 lb	3419 kg	7,537 lb
Lift Breakout Force	51 492 N	11,575 lb	50 778 N	11,415 lb	49 413 N	11,108 lb
Tilt Breakout Force	48 927 N	10,999 lb	46 134 N	10,371 lb	50 214 N	11,288 lb
7 Maximum Hinge Pin Height	3490 mm	11'5"	3490 mm	11'5"	3490 mm	11'5"
8 Dump Angle at Full Height	44°		44°		44°	
Dump Height at Maximum Angle	2710 mm	8'11"	2680 mm	8'10"	2745 mm	9'0"
9 Dump Reach at Maximum Angle	836 mm	2'9"	868 mm	2'10"	814 mm	2'8"
10 Maximum Bucket Rollback at Ground Level	40°		40°		40°	
11 Digging Depth	105 mm	4"	105 mm	4"	95 mm	4"
Maximum Grading Angle	111°		110°		112°	
Width of Dozer Cutting Edge	N/A		N/A		2406 mm	7'11"
12 Grill to Bucket Cutting Edge, Carry Position	1568 mm	5'2"	1597 mm	5'3"	1529 mm	5'0"
13 Maximum Operating Height	4407 mm	14'6"	4477 mm	14'8"	4480 mm	14'8"
Jaw Opening Maximum	N/A		N/A		790 mm	2'7"
Bucket Jaw Clamping Force	N/A		N/A		55 700 N	12,521 lb
Weight (does not include teeth or forks)	457 kg	1,008 lb	481 kg	1,060 lb	753 kg	1,660 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, 0.96 m³ (1.25 yd³) loader bucket and standard equipment unless otherwise specified.

420F/420F IT Specifications

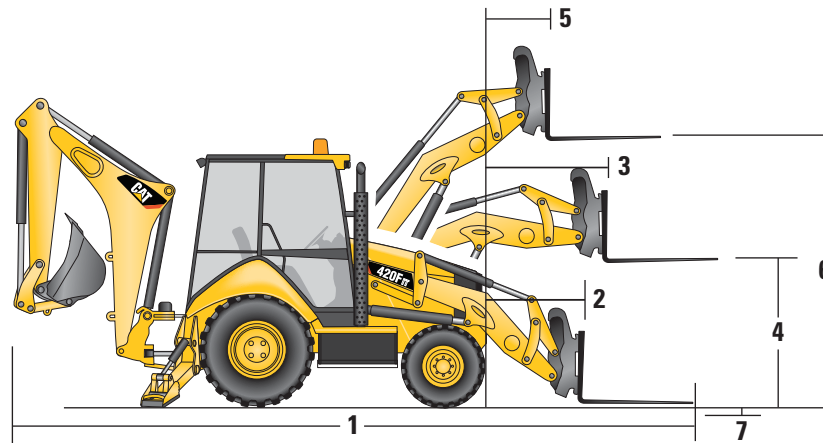
Backhoe Dimensions and Performance



	Standard Stick		E-Stick Retracted		E-Stick Extended	
14 Digging Depth, SAE (maximum)	4360 mm	14'4"	4390 mm	14'5"	5442 mm	17'11"
15 Digging Depth, 610 mm (2 ft) Flat Bottom	4311 mm	14'2"	4351 mm	14'4"	5405 mm	17'9"
Reach from Rear Axle Centerline at Ground Line	6702 mm	22'1"	6737 mm	22'2"	7742 mm	25'6"
16 Reach from Swing Pivot at Ground Line	5612 mm	18'5"	5647 mm	18'7"	6652 mm	21'10"
Maximum Operating Height	5522 mm	18'1"	5546 mm	18'3"	6282 mm	20'8"
Loading Height	3642 mm	11'11"	3599 mm	11'10"	4169 mm	13'8"
17 Loading Reach	1842 mm	6'1"	1929 mm	6'4"	2844 mm	9'4"
Swing Arc	180°		180°		180°	
Bucket Rotation	205°		205°		205°	
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	62 659 N	14,086 lb	61 780 N	13,889 lb	61 780 N	13,889 lb
Stick Dig Force	43 510 N	9,781 lb	43 402 N	9,757 lb	31 682 N	7,122 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, 0.96 m³ (1.25 yd³) loader bucket and standard equipment unless otherwise specified.

Dimensions with Forks



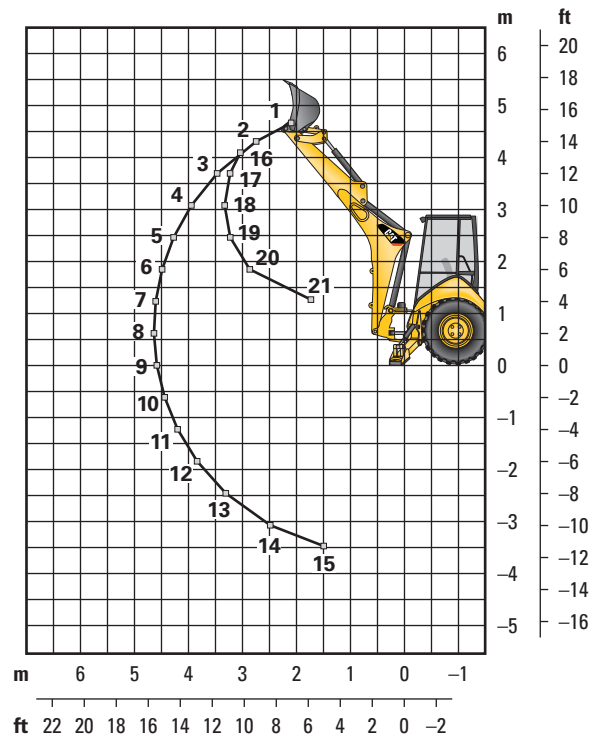
Fork Tine Length	1070 mm/3'6"		1220 mm/4'0"		1370 mm/4'10"	
Operating Load (SAE J1197)	2642 kg	5,824 lb	2556 kg	5,635 lb	2392 kg	5,273 lb
SAE Load Center	535 mm	1'9"	610 mm	2'0"	685 mm	2'3"
Operating Load (CEN 474-4)	2774 kg	6,116 lb	2752 kg	6,067 lb	2728 kg	6,014 lb
CEN Load Center	500 mm	1'8"	500 mm	1'8"	500 mm	1'8"
1 Overall Length (forks on ground)	7681 mm	25'2"	7832 mm	25'8"	7980 mm	26'2"
2 Reach at Ground (from grill to heel of fork)†	938 mm	3'1"	939 mm	3'1"	937 mm	3'1"
3 Maximum Reach (from grill to heel of fork)†	1475 mm	4'10"	1475 mm	4'10"	1475 mm	4'10"
4 Fork Height at Maximum Reach	1588 mm	5'3"	1588 mm	5'3"	1587 mm	5'2"
5 Reach at Maximum Height (from grill to heel of fork)†	696 mm	2'3"	696 mm	2'3"	696 mm	2'3"
6 Maximum Fork Height	3410 mm	11'2"	3409 mm	11'2"	3408 mm	11'2"
7 Maximum Fork Depth (below ground level)	-6 mm	-0.24"	-5 mm	-0.20"	-8 mm	-0.31"

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 inch) standard duty bucket, and 0.96 m³ (1.25 yd³) loader bucket and standard equipment unless otherwise specified.

Backhoe Lift Capacity

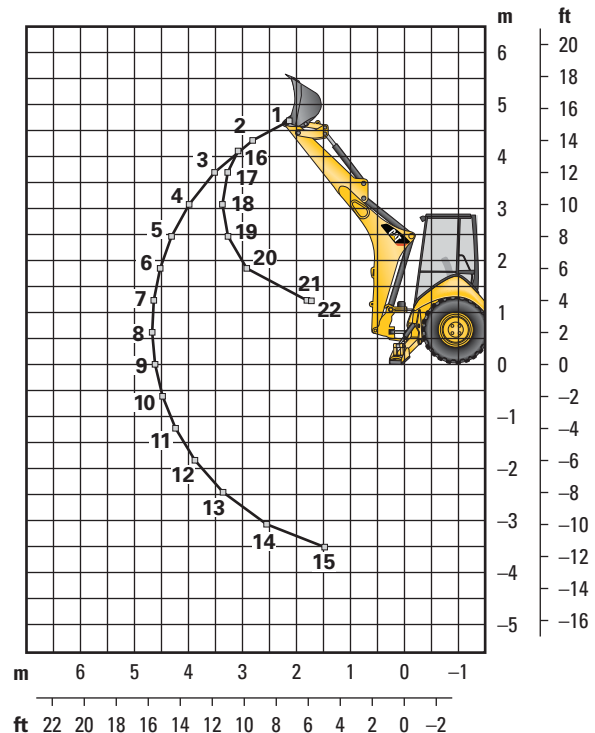
Cat 420F/420F IT Standard Stick

Boom Lifting		kg	lb
1		1619	3,570
2		1764	3,890
3		1783	3,931
4		1737	3,829
5		1675	3,694
6		1611	3,552
7		1548	3,413
8		1489	3,282
9		1434	3,161
10		1384	3,050
11		1339	2,951
12		1300	2,867
13		1274	2,808
14		1280	2,821
15		1420	3,131
Stick Lifting		kg	lb
16		1830	4,035
17		2556	5,636
18		2605	5,744
19		2701	5,956
20		3136	6,915
21		6227	13,728



Cat 420F/420F IT Extendible Stick – Retracted

Boom Lifting		kg	lb
1		1439	3,172
2		1573	3,469
3		1583	3,490
4		1535	3,384
5		1472	3,246
6		1407	3,103
7		1344	2,963
8		1284	2,830
9		1227	2,706
10		1175	2,591
11		1128	2,487
12		1087	2,396
13		1054	2,324
14		1046	2,306
15		1159	2,555
Stick Lifting		kg	lb
16		1676	3,695
17		2386	5,259
18		2405	5,302
19		2492	5,493
20		2886	6,362
21		5630	12,412
22		6026	13,284



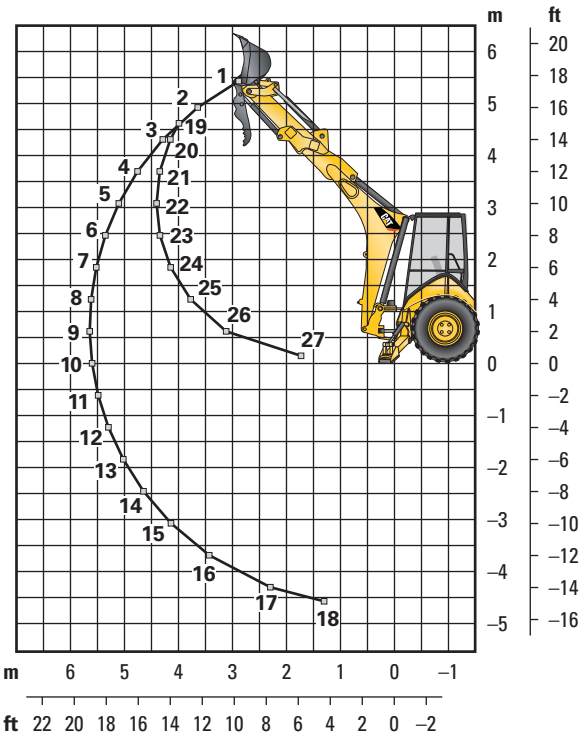
Lift Capacities are over-end values. Machine equipped with 4WD, OROPS, 0.96 m³ (1.25 yd³) general purpose bucket, and no counterweight. Extendible stick includes 460 kg (1,015 lb) counterweight.

420F/420F IT Specifications

Backhoe Lift Capacity

Cat 420F/420F IT Extendible Stick – Extended

Boom Lifting	kg	lb
1	837	1,844
2	1009	2,224
3	1073	2,366
4	1085	2,392
5	1067	2,353
6	1039	2,290
7	1031	2,273
8	1005	2,215
9	978	2,156
10	952	2,099
11	928	2,046
12	907	1,999
13	889	1,960
14	877	1,934
15	876	1,931
16	899	1,981
17	1029	2,269
18	1514	3,338
Stick Lifting	kg	lb
19	866	1,909
20	1114	2,456
21	1455	3,207
22	1643	3,622
23	1670	3,682
24	1776	3,916
25	2014	4,441
26	2613	5,761
27	5993	13,213



Lift Capacities are over-end values. Machine equipped with 4WD, OROPS, 0.96 m³ (1.25 yd³) general purpose bucket, and no counterweight. Extendible stick includes 460 kg (1,015 lb) counterweight.

Counterweights

Minimum Counterweight Recommendations

Standard Stick

Loader Bucket	Power Train	Single-Tilt		IT Loader w/QC	
		kg	lb	kg	lb
GP	2WD/4WD	240	530	no counterweight	
MP	2WD/4WD	no counterweight		no counterweight	
Forks	2WD/4WD	N/A	N/A	no counterweight	
Material Handling Arm	2WD/4WD	N/A	N/A	no counterweight	

Extendible Stick

Loader Bucket	Power Train	Single-Tilt		IT Loader w/QC	
		kg	lb	kg	lb
GP	2WD/4WD	460	1,015	240	530
MP	2WD/4WD	240	530	no counterweight	
Forks	2WD/4WD	N/A	N/A	240	530
Material Handling Arm	2WD/4WD	N/A	N/A	240	530

Backhoe Buckets

With weld on adapters and pin-on teeth

Standard Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
305	12	80	2.8	111	245	3
457	18	120	4.2	122	268	4
610	24	180	6.4	141	311	5
762	30	230	8.1	157	345	5
914	36	290	10.2	176	388	6

Heavy Duty

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
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	6.4	160	353	5
762	30	230	8.1	177	391	5
914	36	290	10.2	201	443	6

Soil Excavation

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
457	18	180	6.4	155	341	4
610	24	240	8.5	182	402	5
762	30	320	11.3	206	454	5
914	36	380	13.4	233	513	6

Heavy Duty Rock

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
305	12	70	2.5	127	279	3
457	18	130	4.6	146	322	4
610	24	200	7.1	174	384	5
762	30	270	9.5	197	434	5
914	36	330	11.7	224	493	6

Coral

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
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

Heavy Duty – Pin Lock

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
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

High Capacity – Pin Lock

Width		Rated Capacity		Weight		No. of Teeth
mm	in	L	ft³	kg	lb	
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