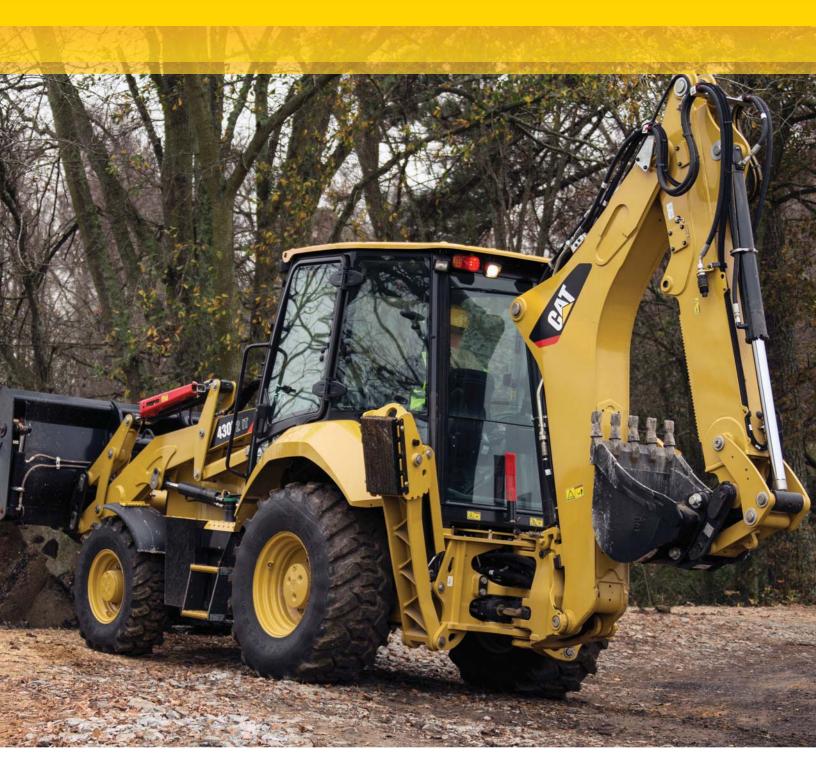
430F2/430F2 IT Backhoe Loaders

CAT®



Engine			Weights					
Engine Model Cat® 3054C Mechanically Turbocharged		C Mechanically	operating Weight – Minimum		18,364 lb			
		Operating Weight – Maximum (ROPS Capacity)	11 000 kg	24,251 lb				
Rated Net Power – SAE J1349	70 kW	94 hp	Backhoe	-				
Rated Net Power – ISO 9249	r – ISO 9249 71 kW 95 hp		Dig Depth – Standard	4686 mm	15'4"			
			Dig Depth – E-Stick Extended	5935 mm	19'6"			

Features

All New Operator Station

Built with the operator in mind, the new F2 Backhoe Loader cab provides additional machine control at the operator's fingertips, with differential lock and auxiliary functions on the loader joystick. Adjustable steering column as well as adjustable seat and hoe pod controls provide additional operator comfort.

Industry Leading Hydraulic Technology

The Cat Backhoe Loader's electronically controlled load sensing piston pump provides full hydraulic lifting and digging forces at any engine speed. The variable flow pump matches hydraulic power to work demands and flow sharing valves allow the machine to multifunction smoothly.

Economy Mode

New technology allows the F2 Backhoe Loader to save fuel while maintaining performance in applications such as trenching, lifting and truck loading. Zero reduction in performance means increased efficiency on the job site.

Greater Versatility

Quick and easy attachment changing provides increased versatility and the ability to match the correct tool to the job application. The hydraulic backhoe coupler allows for a tool change without exiting the operation station. The loader hydraulic coupler, standard on the Integrated Toolcarrier (IT) Backhoe Loader, provides additional options for loader applications.

Superior Power and Performance

Industry leading structural design and hydraulics mean greater lifting power and breakout forces. Machine aggressiveness delivers outstanding productivity in the toughest applications.

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Experience the Backhoe Loader designed around customer feedback. The Cat 430F2 Backhoe Loader puts all the machine controls at the operator's fingertips. Operate all auxiliary controls with thumb rollers. Move from job site to job site quickly and smoothly with the additional 6th gear on the autoshift transmission and optional lock-up torque converter.





Joystick Controls

Cat Backhoe Loader joysticks are economically designed to provide precise control with low effort. Integrated Toolcarrier models offer a thumb roller for any 3rd function auxiliary. The differential lock control is newly located on the loader control to bring controllability to the operator's fingertips. New on the IT model is the forward, neutral, reverse control switch.



Unmatched Comfort

The ergonomic, automotive style operator station helps you work comfortably and productively all day long. Choose the configuration that meets your needs – Canopy, Canopy Plus, Cab or Cab Deluxe. Other features include:

- Adjustable air suspension seat
- Tilt and telescoping steering column
- Excellent visibility over hood and up to bucket dump
- Pantograph windshield wiper
- · Large front windshield screen
- Ample legroom
- Optional heated seat
- Differential lock button on loader lever
- Large opening windows
- · Solid roof cab

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. This results in increased operator comfort and improved material retention and facilitates a reduction in operator fatigue.

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.





Gauge Cluster

LED indicator lights and audible alarms allow the machine to clearly communicate with the operator.

Safety Getting in and out of the Cab

New longer grab handles and ergonomic step placement makes it easy to maintain three points of contact when getting in and out of the cab.



Power Train

Designed for performance, power and efficiency.

Cat Engine

The Cat 3054C Mechanically Turbocharged engine operates quietly while delivering performance and durability.

Transmission

The standard power shuttle transmission provides four speeds forward and reverse. Hydraulically shifted clutches allow on-the-go direction and travel speed shifts. The optional auto-shift transmission matches gear with grade and load conditions. Now with six forward and reverse speeds, the machine can reach top speeds smoothly and quickly.

- The new optional lock-up torque converter, offered on the autoshift transmission, improves fuel efficiency up to 20% over the standard six gear autoshift. The lock-up torque converter also improves roading for long distances and with uphill climbs.
- Hydraulic proportional control valves deliver smooth speed and directional shifts.
- Standard Four Wheel Drive 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 is standard on the 430F2 and 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.



Load Sensing Hydraulics

Closed center hydraulic system matches pressure and flow to application demand. Whether you're in full trenching mode or digging around delicate services, you remain 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 provides:

- · Better fuel efficiency
- Electronically controlled
- Quieter operation
- Reduced component wear
- Cooler hydraulic temperatures
- Full forces at any engine speed

Flow Sharing Valves

Specifically tuned hydraulic valves allow for the multifunction of hydraulic components, without machine manipulation. Hydraulic fluid is shared between implements so that operation isn't interrupted.

Hydraulic Lines

Combination two way and one way flow hydraulic lines add versatility to the machine. By simply changing the lever position, the machine can efficiently run either style hydro mechanical tool.

Economy Mode

Cat Backhoe Loaders are able to reduce engine speed to 1,850 rpm while maintaining superior hydraulic power and performance.



Loader Performance Powerful front loader.

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

Powerful Single Tilt Loader Linkage

- Delivers strong lift and breakout forces for a solid performance in backfilling and truck loading applications with pin-on buckets.
- The operator can now engage the differential lock with a press of a button on the loader lever for added machine control.

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.
- The IT loader lever provides additional machine control by offering the Forward, Neutral and Reverse control switch at the operator's fingertips.

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 even greater versatility. Mechanical thumbs are also available through your Cat dealer.





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



A wide range of loader attachments is available including:

- Buckets General Purpose, Multi Purpose, Side Dump and Light Material
- Angle Blades
- Brooms
- Rakes
- Forks
- Material Handling Arms
- Snow Plows

IT Loader Quick Coupler

The quick coupler allows fast and easy connection to work tools. Mechanical work tools can be changed in less than 30 seconds from the comfort of the operator station.



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 make 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 Mechanically Turbocharged				
Gross Power					
SAE J1995	75 kW	101 hp			
ISO 14396	74 kW	100 hp			
Rated Net Power @ 2,200 rpm					
SAE J1349	70 kW	94 hp			
ISO 9249	71 kW	95 hp			
EEC 80/1269	71 kW	95 hp			
Net Peak Power @ 2,200 rpm					
SAE J1349	70 kW	94 hp			
ISO 9249	71 kW	95 hp			
EEC 80/1269	71 kW	95 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	31%				
Net Peak Torque @ 1,400 rpm	397 N·m	293 lbf-ft			

- Engine meets U.S. EPA Tier 2/EU Stage II equivalent emission standards.
- Net power ratings apply at 2,200 rpm when tested under the specified conditions for the specified standard.
- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.
- Based on standard air conditions of 25° C (77° F) and 99 kPa (29.32 in) in dry barometer.
- Used 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 BTU/lb) when used at 30° C (89° F) (reference a fuel density of 838.9 g/L [7.001 lb/gal]).
- No derating required up to 3000 m (9,843 ft).
- Net torque rise meets SAE J1349.
- Net peak power ratings apply at conditions specified above.

Transmission		
Power Shuttle Transmission – S	tandard	
Forward – 1st	5.4 km/h	3.4 mph
Forward – 2nd	9 km/h	5.6 mph
Forward – 3rd	21 km/h	13 mph
Forward – 4th	40 km/h	25 mph
Reverse – 1st	5.4 km/h	3.4 mph
Reverse – 2nd	9 km/h	5.6 mph
Reverse – 3rd	21 km/h	13 mph
Reverse – 4th	40 km/h	25 mph
AutoShift Transmission – Option	onal	
Forward – 1st	5.8 km/h	3.6 mph
Forward – 2nd	9.3 km/h	5.7 mph
Forward – 3rd	12 km/h	7 mph
Forward – 4th	19 km/h	12 mph
Forward – 5th	26 km/h	16 mph
Forward – 6th	40 km/h	25 mph
Reverse – 1st	5.8 km/h	3.6 mph
Reverse-2nd	12 km/h	7.6 mph
Reverse – 3rd	28 km/h	17 mph
AutoShift Transmission with Lo	ock-Up Torque Conv	erter – Optional
Forward – 1st	5.8 km/h	3.6 mph
Forward – 2nd	9.3 km/h	5.7 mph
Forward – 3rd	12 km/h	7 mph
Forward – 4th	19 km/h	12 mph
Forward – 5th	23 km/h	14 mph
Forward – 5th LUC	25 km/h	15 mph
Forward – 6th	40 km/h	25 mph
Forward – 6th LUC	40 km/h	25 mph
Reverse – 1st	5.8 km/h	3.6 mph
Reverse – 2nd	12 km/h	7.6 mph
Reverse – 3rd	28 km/h	17 mph

- AutoShift automatically shifts between second gear and highest selected gear.
- Forward/reverse electric power shuttle is controlled by a conveniently placed, hand operated lever that provides instant direction changes between forward and reverse through power hydraulic clutches.
- Torque converter free-wheel clutch allows the converter stator to free-wheel during high speed, low torque conditions such as roading.
- Single-stage, 2.63:1 stall ratio.
- Travel speeds of two wheel drive backhoe loader at full throttle when equipped with 19.5 × 24 rear tires.

Weights*		
Operating Weight – Minimum	8330 kg	18,364 lb
Operating Weight – Maximum (ROPS Capacity)	11 000 kg	24,251 lb
Cab, ROPS/FOPS	163 kg	359 lb
AutoShift Transmission	238 kg	525 lb
Ride Control	14 kg	31 lb
Air Conditioning	42 kg	93 lb
MP Bucket (0.96 m³/1.25 yd³) (no forks or teeth)	745 kg	1,642 lb
Loader, IT with Quick Coupler	317 kg	699 lb
Extendible Stick	305 kg	673 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 1.0 m³ (1.31 yd³) general purpose loader bucket, 610 mm (24 in) heavy duty backhoe bucket, 80 kg (176 lb) operator and full fuel tank.

Steering		
Type	Front Whee	:1
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 – 4WD (inner wheel n	ot 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 11
Dynamic	9186 kg	20,233 11
Front Axle, 4WD		
Static	22 964 kg	50,582 11
Dynamic	9186 kg	20,233 11
Rear Axle		
Static	22 964 kg	50,582 11
Dynamic	9186 kg	20,233 11

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

10 Degrees

Hydraulic System				
Type	Closed Center			
Pump Type	Variable Flo	w, 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	22.5 L	5.9 gal		
Fuel Tank	160 L	42 gal		
Engine Oil with Filter	8.8 L	2.3 gal		
Transmission – Power Shuttle				
4WD	15 L	4 gal		
Transmission – AutoShift				
4WD	18 L	4.8 gal		
Rear Axle	16.5 L	4.4 gal		
Planetaries	1.7 L	0.4 gal		
Front Axle (4WD)	11 L	2.9 gal		
Planetaries	0.7 L	0.2 gal		
Hydraulic System	95 L	25.1 gal		
Hydraulic Tank	40 L	10.6 gal		

Tires

Hardwardia Caratana

Choices listed as combination of front/rear tires:

- Front: 12.5/80-18 (12 ply) 1-3; Rear: 19.5L-24 (12 ply) ATU
- Front: 12.5/80-18 NHS (12 ply) 1-3; Rear: 21L-24 (16 ply) R4 ATU
- Front: 340/80R18; Rear: 19.5L-24 (12 ply) R4 ATU
- Front: 340/80R18; Rear: 500/70R24 RT

Standards	
Brakes	SAE J/ISO 3450; ISO 3450 1996
Cab – ROPS	SAE J1040 MAY94; ISO 3741 1994
Cab – FOPS	SAE J/ISO 3449 APR98 LEVEL II and ISO 3449: 1992 LEVEL II
Cab – Sound	ANSI/SAE J1166 OCT98 is 79 dB(A)
Exterior Sound	SAE J188 JUN86 is 76 dB(A)

Axle Oscillation

Engine Features

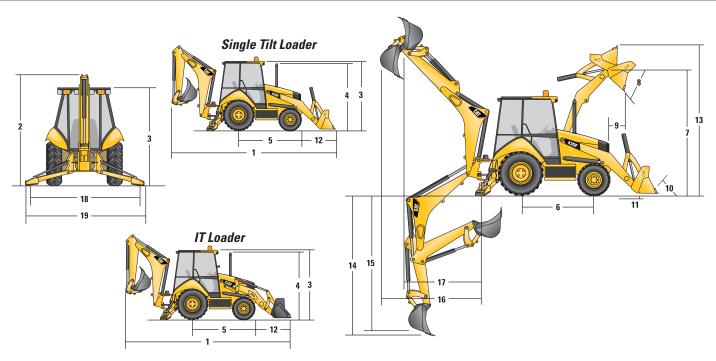
- Three-ring pistons made of lightweight, silicon/aluminum alloy for strength and maximum thermal conductivity.
- Forged chrome/molybdenum-steel crankshaft with crankshaft with either induction hardened or nitrocarburized journals.
- Front and rear crankshaft oil seals are "lip" type Viton and PTFE designs 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.

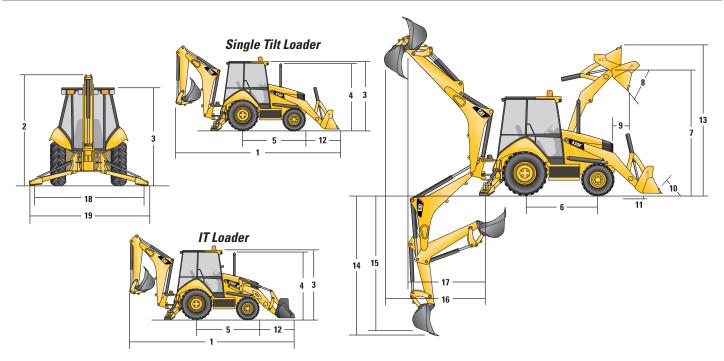
Machine Dimensions



	Single Tilt Loader										
		General Purpose (0.96 m³/1.25 yd³)		General Purpose (1.1 m³/1.4 yd³)		General Purpose (1.15 m³/1.5 yd³)		Multi Purpose (1.0 m³/1.31 yd³)		Multi Pu (1.1 m³/1	
1	Overall Transport Length	7310 mm	24'0"	7302 mm	23'11"	7302 mm	23'11"	7274 mm	23'10"	7200 mm	23'7"
	Overall Length (loader on ground)	7282 mm	23'11"	7348 mm	24'1"	7348 mm	24'1"	7200 mm	23'7"	7274 mm	23'10"
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)	294 mm	1'0"	294 mm	1'0"	294 mm	1'0"	294 mm	1'0"	294 mm	1'0"
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, 1.0 m^3 (1.31 yd^3) loader bucket and standard equipment unless otherwise specified.

Machine Dimensions



	IT Loader with Quick Coupler							
	General Purpose (0.96 m³/1.25 yd³)		General F (1.15 m³/	•	Multi Purpose (1.0 m³/1.31 yd³)			
1 Overall Transport Length	7423 mm	24'4"	7428 mm	24'4"	7352 mm	24'1"		
Overall Length (loader on ground)	7430 mm	24'5"	7420 mm	24'4"	7338 mm	24'1"		
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)	294 mm	1'0"	294 mm	1'0"	294 mm	1'0"		
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, 1.0 m^3 (1.31 yd^3) loader bucket and standard equipment unless otherwise specified.

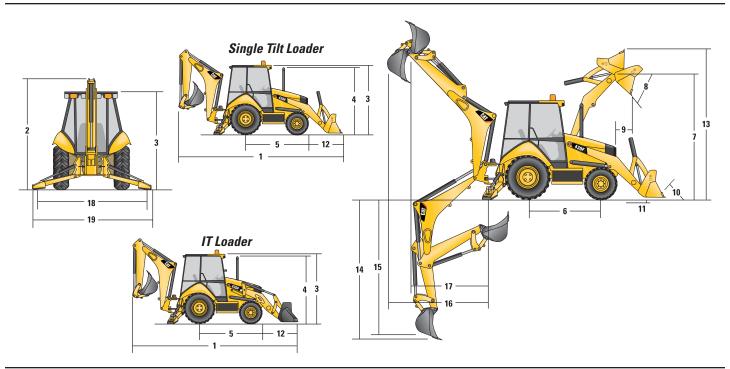
Loader Bucket Dimensions and Performance

		Single Tilt Loader										
		General (0.96 m³/			General Purpose (1.1 m³/1.4 yd³)		General Purpose (1.15 m³/1.5 yd³)		Multi Purpose (1.0 m³/1.31 yd³)		urpose 1.4 yd³)	
	Capacity (SAE rated)	0.96 m ³	1.25 yd³	1.1 m ³	1.4 yd³	1.15 m ³	1.5 yd ³	1.0 m ³	1.31 yd ³	1.1 m ³	1.4 yd ³	
	Overall Bucket Width	2262 mm	89"	2262 mm	89"	2406 mm	95"	2279 mm	90"	2425 mm	95"	
	Lift Capacity at Maximum Height	3282 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 lbf	49 275 N	11,077 lbf	49 099 N	11,037 lbf	49 019 N	11,020 lbf	6 48 771 N	10,964 lbf	
	Tilt Breakout Force	50 190 N	11,283 lbf	51 236 N	11,518 lbf	51 128 N	11,494 lbf	57 555 N	12,938 lbf	57 408 N	12,905 lbf	
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°		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	70	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	11	2°	11	3°	11	3°	11	6°	11	6°	
	Width of Dozer Cutting Edge	N/	Ά	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	5'0"	1525 mm	5'0"	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 lbf	55 700 N	12,521 lbf	
	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 Ouick Counter							
		Purpose	General	Purpose	Multi F	Purpose 1.31 yd³)		
Capacity (SAE rated)	0.96 m ³	1.25 yd³	1.15 m ³	1.5 yd ³	1.0 m ³	1.31 yd ³		
Overall Bucket Width	2262 mm	89"	2406 mm	95"	2279 mm	90"		
ift Capacity at Maximum Height	3716 kg	8,193 lb	3655 kg	8,058 lb	3448 kg	7,601 lb		
ift Breakout Force	51 085 N	11,484 lbf	50 555 N	11,365 lbf	49 452 N	11,117 lbf		
ilt Breakout Force	46 286 N	10,405 lbf	46 106 N	10,365 lbf	50 349 N	11,318 lbf		
Maximum Hinge Pin Height	3490 mm	11'5"	3490 mm	11'5"	3490 mm	11'5"		
Dump Angle at Full Height	4	4°	44°		4	4°		
Dump Height at Maximum Angle	2679 mm	8'9"	2680 mm	8'10"	2745 mm	9'0"		
Dump Reach at Maximum Angle	869 mm	2'10"	868 mm	2'10"	814 mm	2'8"		
Maximum Bucket Rollback at Ground Level	4	0°	4	0°	3	9°		
Digging Depth	105 mm	4"	105 mm	4"	95 mm	4"		
Maximum Grading Angle	11	0°	11	.0°	11	2°		
Vidth of Dozer Cutting Edge	N	/A	N	/A	2262 mm	7'5"		
Grill to Bucket Cutting Edge, Carry Position	1600 mm	5'3"	1597 mm	5'3"	1529 mm	5'0"		
Maximum Operating Height	4407 mm	14'6"	4477 mm	14'8"	4480 mm	14'8"		
aw Opening Maximum	N	/A	N	/A	790 mm	2'7"		
Sucket Jaw Clamping Force	N	/A	N	/A	55 700 N	12,521 lbf		
Weight (does not include teeth or forks)	447 kg	985 lb	481 kg	1,060 lb	724 kg	1,596 lb		
	Overall Bucket Width Lift Capacity at Maximum Height Lift Breakout Force Tilt Breakout Force Maximum Hinge Pin Height Dump Angle at Full Height Dump Height at Maximum Angle Dump Reach at Maximum Angle Maximum Bucket Rollback at Ground Level Digging Depth Maximum Grading Angle Vidth of Dozer Cutting Edge Grill to Bucket Cutting Edge, Carry Position Maximum Operating Height Law Opening Maximum Mucket Jaw Clamping Force	Capacity (SAE rated) Overall Bucket Width Overall Bucket Force S1 085 N Overall Bucket Force S1 085 N Overall Breakout Force S1 085 N Overall Bucket Force S1 085 N Overall Bu	General Purpose (0.96 m³/1.25 yd³) Capacity (SAE rated) 0.96 m³ 1.25 yd³ Overall Bucket Width 2262 mm 89" Lift Capacity at Maximum Height 3716 kg 8,193 lb Lift Breakout Force 51 085 N 11,484 lbf Lift Breakout Force 46 286 N 10,405 lbf Maximum Hinge Pin Height 3490 mm 11'5" Dump Angle at Full Height 44° Dump Height at Maximum Angle 2679 mm 8'9" Dump Reach at Maximum Angle 869 mm 2'10" Maximum Bucket Rollback at Ground Level 40° Digging Depth 105 mm 4" Maximum Grading Angle 110° Vidth of Dozer Cutting Edge N/A Width of Dozer Cutting Edge, Carry Position 1600 mm 5'3" Maximum Operating Height 4407 mm 14'6" aw Opening Maximum N/A ducket Jaw Clamping Force N/A	General Purpose (0.96 m³ / 1.25 yd³) General (1.15 m²) Sapacity (SAE rated) 0.96 m³ 1.25 yd³ 1.15 m³ Overall Bucket Width 2262 mm 89" 2406 mm Sift Capacity at Maximum Height 3716 kg 8,193 lb 3655 kg Sift Breakout Force 51 085 N 11,484 lbf 50 555 N Sift Breakout Force 46 286 N 10,405 lbf 46 106 N Maximum Hinge Pin Height 3490 mm 11'5" 3490 mm Jump Angle at Full Height 44" 4 Jump Reach at Maximum Angle 2679 mm 8'9" 2680 mm Jump Reach at Maximum Angle 869 mm 2'10" 868 mm Jump Reach at Maximum Angle 40" 4" 105 mm Jugging Depth 105 mm 4" 105 mm Jugging Depth 105 mm 4" N Width of Dozer Cutting Edge N/A N Width of Dozer Cutting Edge, Carry Position 1600 mm 5'3" 1597 mm Maximum Operating Height 4407 mm 14'6" 4477 mm	General Purpose (0.96 m²) 1.25 yd²) General Purpose (1.15 m²) 1.5 yd²) Papacity (SAE rated) 0.96 m³ 1.25 yd³ 1.15 m³ 1.5 yd³ Poerall Bucket Width 2262 mm 89" 2406 mm 95" Papacity at Maximum Height 3716 kg 8,193 lb 3655 kg 8,058 lb Fift Breakout Force 51 085 N 11,484 lbf 50 555 N 11,365 lbf Fift Breakout Force 46 286 N 10,405 lbf 46 106 N 10,365 lbf Faximum Hinge Pin Height 3490 mm 11'5" 3490 mm 11'5" Pump Angle at Full Height 44" 44" Pump Height at Maximum Angle 869 mm 2'10" 868 mm 2'10" Pump Reach at Maximum Angle 869 mm 2'10" 868 mm 2'10" Paximum Bucket Rollback at Ground Level 40" 105 mm 4" Paximum Grading Angle 105 mm 4" 105 mm 4" Vidth of Dozer Cutting Edge N/2 Vidth of Dozer Cutting Edge, Carry Position 1600 mm 5'3" 1597 mm 5'3" Paximum Operating Height 4407 mm 14'6" 4477 mm 14'8" Paximum Operating Height 4407 mm 14'6" 4477 mm 14'8" Paximum Operating Height N/A			

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, 1.0 m^3 (1.31 yd³) loader bucket and standard equipment unless otherwise specified.

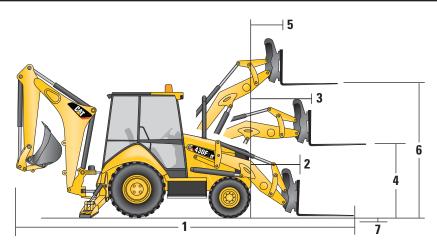
Backhoe Dimensions and Performance



	Standa	rd Stick	E-Stick F	Retracted	E-Stick E	xtended
14 Digging Depth, SAE (maximum)	4686 mm	15'4"	4795 mm	15'9"	5935 mm	19'6"
15 Digging Depth, 610 mm (2 ft) Flat Bottom	4660 mm	15'3"	4766 mm	15'8"	5906 mm	19'5"
Reach from Rear Axle Centerline at Ground Line	7133 mm	23'6"	7227 mm	23'10"	8316 mm	27'5"
16 Reach from Swing Pivot at Ground Line	6043 mm	19'10"	6137 mm	20'2"	7226 mm	23'9"
Maximum Operating Height	6007 mm	19'9"	6075 mm	20'0"	6958 mm	22'11"
Loading Height	3961 mm	13'0"	3921 mm	12'10"	4533 mm	14'10"
17 Loading Reach	1855 mm	6'1"	2022 mm	6'8"	3003 mm	9'10"
Swing Arc	18	0°	18	80°	18	0°
Bucket Rotation	20)5°	20)5°	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	71 864 N	16,156 lbf	70 870 N	15,932 lbf	70 870 N	15,932 lbf
Stick Dig Force	44 778 N	10,067 lbf	43 841 N	9,856 lbf	32 414 N	7,287 lbf

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, 1.0 m^3 (1.31 yd³) loader bucket and standard equipment unless otherwise specified.

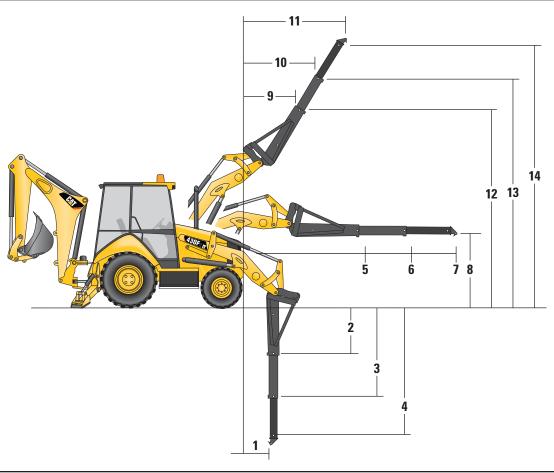
Dimensions with Forks



Fork Tine Length	1070 m	m/3'6"	1220 m	m/4'0"	1370 m	m/4'10"
Operating Load (SAE J1197)	2448 kg	5,397 lb	2368 kg	5,220 lb	2292 kg	5,054 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	2749 kg	6,062 lb	6009 kg	2,726 lb
CEN Load Center	500 mm	1'8"	500 mm	1'8"	500 mm	1'8"
1 Overall Length (forks on ground)	7822 mm	25'8"	7973 mm	26'2"	8121 mm	26'8"
Reach at Ground (from grill to heel of fork)	938 mm	3'1"	939 mm	3'1"	937 mm	3'1"
Maximum Reach (from grill to heel of fork)	1475 mm	4'10"	1475 mm	4'10"	1475 mm	4'10"
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"	3410 mm	11'2"	3410 mm	11'2"
7 Maximum Fork Depth (below ground level)	−6 mm	0"	−5 mm	0"	-8 mm	0"

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 1.0 m^3 (1.31 yd^3) loader bucket and standard equipment unless otherwise specified.

Dimensions with Material Handling Arm



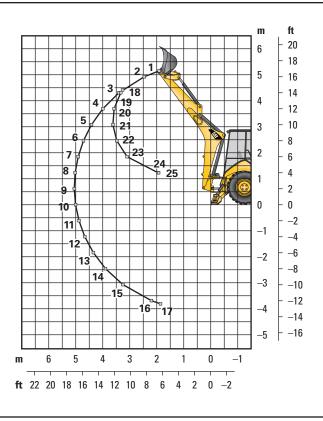
Material	Handling Arm Position	Retra	cted	Mid-Po	sition	Exten	ded
	Operating Load (SAE J1197 and CEN 474-4)*	1056 kg	2,328 lb	674 kg	1,487 lb	494 kg	1,089 lb
	Overall Length, Maximum	9008 mm	29'7"	10 005 kg	32'10"	11 005 kg	36'1"
1	Reach at Maximum Depth (from machine nose)	589 mm	1'11"	592 mm	1'11"	595 mm	1'11"
2, 3, 4	Maximum Depth	2532 mm	8'4"	3530 mm	11'7"	4530 mm	14'10"
5, 6, 7	Maximum Reach (from machine nose)	3184 mm	10'5"	4182 mm	13'9"	5182 mm	17'0"
8	Height at Maximum Reach	1101 mm	3'7"	1103 mm	3'7"	1106 mm	3'8"
9, 10, 11	Reach at Maximum Height (from machine nose)	1577 mm	5'2"	2164 mm	7'1"	2755 mm	9'0"
12, 13, 14	Maximum Height	4570 mm	15'0"	5377 mm	17'8"	6183 mm	20'3"

^{*}Hydraulically limited.

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 1.0 m^3 (1.31 yd^3) loader bucket and standard equipment unless otherwise specified.

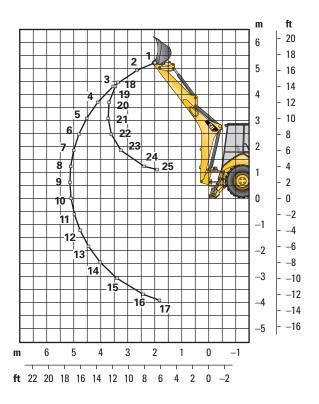
Backhoe Lift Capacity

Cat 430F2/430F2 IT Stand	lard Stick	
Boom Lifting	kg	lb
	1 1508	3,318
	2 1782	3,921
	3 1936	4,258
	4 1925	4,236
ļ	5 1878	4,131
	6 1819	4,001
	7 1757	3,866
1	8 1698	3,735
	9 1641	3,610
1	D 1588	3,493
1	1 1539	3,387
1:	2 1496	3,291
1:	3 1459	3,211
14	4 1432	3,151
1:	5 1425	3,136
1	6 1503	3,307
1	7 1573	3,461
Stick Lifting	kg	lb
18		5,397
1:	9 2636	5,800
2	2830	6,226
2	1 2773	6,100
2	2906	6,394
2:	3 3367	7,408
2	4 6152	13,535
2	5 6240	13,728



Cat 430F2/430F2 IT Extendible Stick – Retracted

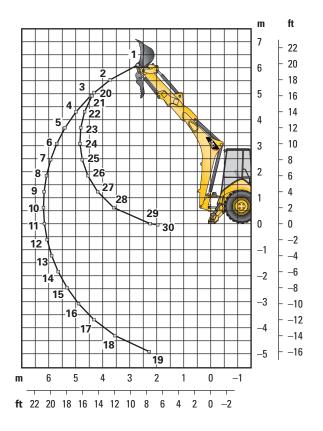
Boom Lifting		kg	lb
	1	1250	2,751
	2	1541	3,391
	3	1663	3,659
	4	1654	3,639
	5	1610	3,542
	6	1555	3,421
	7	1497	3,294
	8	1441	3,169
	9	1386	3,049
	10	1335	2,936
	11	1287	2,832
	12	1244	2,738
	13	1207	2,656
	14	1178	2,593
	15	1166	2,565
	16	1211	2,665
	17	1316	2,896
Stick Lifting		kg	lb
	18	2158	4,747
	19	2367	5,208
	20	2538	5,583
	21	2486	5,469
	22	2599	5,719
	23	2979	6,553
	24	4516	9,934
	25	6083	13,382



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.

Backhoe Lift Capacity

Cat 430F2/430F2 IT Extendible Stick – Extended						
Boom Lifting	kg	lb				
1	679	1,493				
2	1017	2,237				
3	1124	2,474				
4	1158	2,547				
5	1167	2,553				
6	1149	2,527				
7	1129	2,484				
8	1106	2,433				
9	1081	2,378				
10	1056	2,323				
11	1032	2,270				
12	1009	2,220				
13	989	2,176				
14	972	2,138				
15	959	2,111				
16	954	2,100				
17	963	2,119				
18	1005	2,210				
19	1211	2,663				
Stick Lifting	kg	lb				
20	1197	2,633				
21	1277	2,810				
22	1565	3,444				
23	1735	3,817				
24	1715	3,774				
25	1753	3,856				
26	1860	4,092				
27	2079	4,575				
28	2563	5,638				
29	4910	10,802				
30	5883	12,943				



Lift Capacities are over-end values. Machine equipped with 4WD, 0R0PS, 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					
		Sing	le-Tilt	IT Load	er w/QC
Loader Bucket	Power Train	kg	lb	kg	lb
GP	4WD	240	530	no coun	terweight
MP	4WD	no cour	nterweight	no coun	terweight
Forks	4WD	N/A	N/A	no coun	terweight
Material Handling Arm	4WD	N/A	N/A	no coun	terweight

Extendible Stick					
		Single-Tilt		IT Load	ler w/QC
Loader Bucket	Power Train	kg	lb	kg	lb
GP	4WD	460	1,015	460	1,015
MP	4WD	240	530	no coun	terweight
Forks	4WD	N/A	N/A	240	530
Material Handling Arm	4WD	N/A	N/A	240	530

Backhoe Buckets

With weld on adapters and pin-on teeth

Standard	Duty					
Wi	Width Rated Capacity		We	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	6.4	141	311	5
762	30	230	8.1	157	345	5
914	36	290	10.2	176	388	6

Wi	dth	Rated Capacity		We	ight	No. of
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 Dut	У					
Wie	dth	Rated Capacity		We	Weight	
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	6.4	151	333	5
762	30	230	8.1	177	391	5
914	36	290	10.2	201	443	6

Wi	dth	Rated Capacity		We	Weight		
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	

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

	<u> </u>	city – Pi		anaoity	Wo	iaht		
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			L	· ·			No. of Teeth	
457 18 139 6.5 139 346 4 610 24 207 9.6 168 414 5 762 30 275 12.9 194 475 5	305	12	96	4.6		287	3	
610 24 207 9.6 168 414 5 762 30 275 12.9 194 475 5	406	16	123	5.6	131	327	3	
762 30 275 12.9 194 475 5	457	18	139	6.5	139	346	4	
	610	24	207	9.6	168	414	5	
914 36 345 16.2 224 543 6	762	30	275	12.9	194	475	5	
	914	36	345	16.2	224	543	6	

Heavy Duty Rock								
Width		Rated Capacity		Weight		No. of		
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	7.1	174	384	5		
762	30	270	9.5	197	434	5		
914	36	330	11.7	224	493	6		

430F2/430F2 IT Standard Equipment

Standard Equipment

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

- Adjustable auxiliary controls, backhoe loader
- · Air cleaner
- · Alarm, back-up
- · Alternator, 120 amp
- Audible system fault alarm
- 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
- Cat cushion swing system
- Coat restraint
- · Coolant/antifreeze, extended life
- Counterweight, bumper
- Dome light (cab only)
- Diagnostic port for engine, machine and gauge cluster Electronic Control Modules
- · Differential lock, loader joystick
- Engine, Cat 3054C (Direct Injection Turbocharged), meets Tier 2/Stage II equivalent emission standards
- Engine enclosure, sound suppression removal panels
- Face seals, O-ring
- · 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
- Flashing hazards/signal lights
- Floor mat
- Four Wheel Drive
- · Fuel tank, fully enclosed
- Fully hinged front grill for cooling package cleaning access
- Gauge cluster: coolant temperature, fuel level, tachometer
- Ground level fuel fill
- High ambient cooling package
- Hood lock, inside cab
- Hydraulic hose, XTTM
- · Hydraulic oil cooler
- Hydraulic oil level sight gauge
- Hydraulic valve, hydrostatic steering
- Hydraulic valves, loader 2 function
- Hydraulic valves, backhoe 5 function
- Hydraulics, load sensing with variable displacement piston pump
- Indicator lights: air cleaner service, water separator service, engine coolant, oil pressure, torque converter temperature high, fuel level, charging, engine warning #1, engine warning #2, action lamp
- Instrument panel lights
- Joystick controls: pilot operated, excavator-style with pattern changer
- Key start/stop system
- LCD screen: hour meter, torque converter oil temperature (service mode only)
- Lights, working (4 front, 4 rear)

- Loader, self-leveling, return-to-dig and transmission disconnect switch
- · Loader, single tilt
- · Mirror, rearview
- · Open circuit breather
- Pattern changer, in cab
- Power receptacle, 12 volt, 2 internal, 1 external
- Power steering, hydrostatic
- · Radio ready cab
- Seat belt, retractable, 51 mm (2 in)
- · Socket, two roof
- Stabilizer shoes, street
- Steering knob
- Seat, air suspension, fabric or vinyl cover, with armrest
- · Starting system, glow plugs
- · Steering, hydrostatic
- Storage compartment, lockable
- · Storage tray
- Stop and tail lights
- Swing transport lock
- Tilt steering wheel
- Tires
- Toolbox, external, lockable
- Torque converter
- Throttle, hand and foot
- Transmission, four speed, syncromesh
- Transmission neutralizer switch
- Transport tie-downs
- · Vandalism locks, four
- Warning horn, electric

430F2/430F2 IT Optional Equipment

Optional Equipment

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

- Battery, additional, 880 CCA
- · Cab, deluxe
- Cold weather fuel (-30° C/-22° F)
- Cold weather package, including additional battery, engine block heater, radiator antifreeze, 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
- Guard, boom protection plate
- · Guard, stabilizer, rock
- Hydraulic valves, loader (3rd valve for GP, MP or Quick Coupler)
- Hydraulic valves, backhoe 6 function

- Hydraulic lines, combined function auxiliary
- Loader, IT with Quick Coupler and pilot loader control
- Product Link, satellite, PL631E
- Product Link, cellular, PL641I
- Quick Coupler, hydraulic, dual lock
- · Quick Coupler, manual, dual lock
- Quick Coupler, pin lock
- · Radio and CD player
- Radio and CD player, Bluetooth
- Ride Control
- Rotating beacon, magnetic mount
- Seat belt, 75 mm (3 in)

- · Seat, heated
- Security system keypad
- Stabilizer pads, reversible
- · Stick, extendible
- Storage box
- · Transmission, AutoShift
- Transmission, AutoShift with lock-up torque converter
- Vandalism protection, gauge cover
- Work Tool Attachments such as buckets, forks, material handling arms, augers, hammers, brooms, cold planers and vibratory plate compactors. See your Cat dealer for more information.

Notes

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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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