

# Cat<sup>®</sup> 432

## BACKHOE LOADER



The Cat<sup>®</sup> 432 Backhoe Loader delivers exceptional performance, superior hydraulic system, versatility and an updated operator station. The 432 features the following:

- **Ergonomic Operator Station** – Adjustable Seat Mounted Controls improve ergonomics by increasing operator comfort and legroom. Operators have Loader and Backhoe Controls in the palm of their hands, whether they are facing the Loader, the Backhoe, or sitting off set for better visibility.
- **Load Sensing Hydraulics** – The Cat Backhoe Loader's load sensing piston pump provides full hydraulic lifting and digging forces at any engine speed. Variable flow pump matches hydraulic power to work demands.
- **Machine Performance** – The Cat C3.6 engine delivers solid performance and meets U.S. EPA Tier 4 Final/EU Stage V emission standards by utilizing Selective Catalytic Reduction technology with a Diesel Oxidation Catalyst. The system allows the operator to disconnect the machine, even while the diesel exhaust fluid is being purged from the system.
- **Machine Versatility** – The Cat Backhoe Loader with Integrated Tool Carrier (IT Coupler) will be the most versatile machine on the job site providing quick connection to a variety of Cat Attachments.
- **Cat Attachments** – A large portfolio of Backhoe Loader Attachments, including but not limited to, Quick Couplers, assorted Buckets, and Brooms are available for field installation. Cat Backhoe Loaders will be "Dirt Ready" upon delivery.
- **Powershift Transmission** – A Four Speed Powershift Transmission is standard to make shifting gears smooth and as simple as twisting the Powershuttle Lever.

## Specifications

### Engine

Engine	C3.6 74.5 kW (100 hp) Electronic Turbo Intercooled	
Ratings at 2,200 rpm		
Gross Power SAE J1995	76 kW	103 hp
Gross Power ISO 14396	74 kW	101 hp
Net Power Rating at 2,200 rpm		
SAE J1349	69 kW	92 hp
ISO 9249	68 kW	92 hp
Net Peak Power Rating @ 1,800 rpm		
SAE J1349	78 kW	105 hp
ISO 9249	78 kW	105 hp
Dimensions		
Bore	98 mm	3.86 in
Stroke	120 mm	4.72 in
Displacement	3.6 L	220 in <sup>3</sup>
Torque Rise (net) at 1,500 rpm	48%	
SAE J1349 Net	436 N·m	322 lb·ft
Power Rating Conditions		
No de-rating required up to	3048 m	10,000 ft

- Engine meets Tier 4 Final/Stage V emission standards.

### Weights\*

Operating Weight (estimated)	9503 kg	20,951 lb
Operating Weight (maximum) (ROPS capacity)	11 000 kg	24,251 lb
Cab, ROPS/FOPS	Standard	
Power-Shift Transmission	Standard	
Ride Control	Standard	
Air Conditioning	Standard	
All-Wheel Drive	Standard	
Loader QC	Standard	

\*Machine configuration: 14'0" extendible stick hoe, deluxe cab, 4WD powershift transmission, 1.03 m<sup>3</sup> (1.35 yd<sup>3</sup>) MP (Multi Purpose) loader bucket, 610 mm (24 in) heavy duty hoe bucket, front 340/80-20 and rear 480/80-26 tires, 460 kg (1,015 lb) counterweight, power side shift, full fuel tank.



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## Transmission\*

### Power Shift Transmission – Standard

Forward – 1st	6 km/h	3.7 mph
2nd	9.5 km/h	5.9 mph
3rd	19.8 km/h	12 mph
4th	40 km/h	24.8 mph
Reverse – 1st	6 km/h	3.7 mph
2nd	12.5 km/h	7.7 mph
3rd	27.3 km/h	17 mph

\*Travel speeds of two wheel drive backhoe loader at full throttle, when equipped with 440/80-28 rear tires.

## Axle Ratings

### Front Axle, AWD

Static	23 500 kg	51,808 lb
Dynamic	9000 kg	19,841 lb

### Rear Axle

Static	26 500 kg	58,422 lb
Dynamic	10 000 kg	22,046 lb

## Hydraulic System

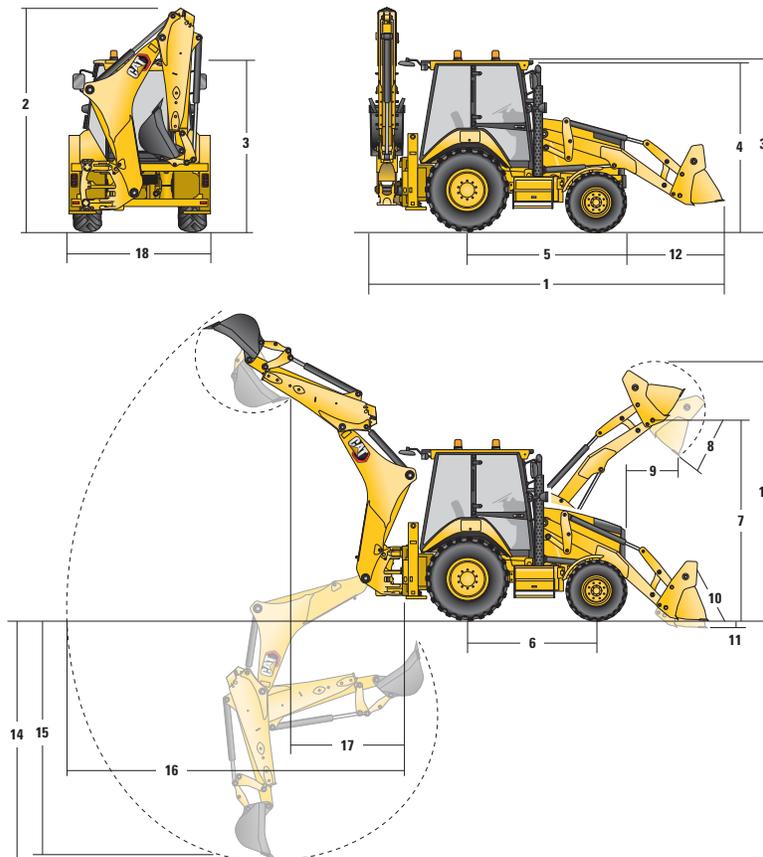
Type	Closed Center	
Pump Type	Variable-flow, Axial Piston	
Pump Capacity @ 2,200 rpm	187 L/min	49.4 gal/min
System Pressure		
Backhoe	25 000 kPa	3,626 psi
Loader	25 000 kPa	3,626 psi

## Steering

Type	Front Wheel Steering	
Power Steering	Hydrostatic	
One Double-Acting Cylinder		
Bore	65 mm	2.6 in
Stroke	106 mm	4.2 in
Rod Diameter	40 mm	1.6 in
Axle Oscillation	11°	
Turning Circle – (inner wheel not braked)		
Outside front wheels	8.205 m	26'11"
Outside widest loader bucket	10.745 m	35'3"

## Service Refill Capacities

Cooling System with Air Conditioning	18.0 L	4.8 gal
Fuel Tank	160.0 L	42.3 gal
Engine Oil with Filter	9.0 L	2.4 gal
Diesel Exhaust Fluid (DEF)	19.0 L	5.0 gal
Transmission – Power Shift		
AWD	19.0 L	5.0 gal
Rear Axle	16.0 L	4.2 gal
Planetaries	1.7 L	0.4 gal
Front Axle (AWD)	11.0 L	2.9 gal
Planetaries	0.7 L	0.2 gal
Hydraulic System	95.0 L	25.1 gal
Hydraulic Tank	42.0 L	11.1 gal



## Dimensions

Machine configuration: standard stick hoe, OROPS canopy, AWD power shift transmission, 0.96 m<sup>3</sup> (1.25 yd<sup>3</sup>) GP loader bucket, 610 mm (24 in) standard duty hoe bucket, 340/80-18 and rear 500/70-24 tires, 240 kg (530 lb) counterweight, 80 kg (176 lb) operator, full fuel tank.

### Single Tilt Loader with Pin-On Buckets

	0.96 m <sup>3</sup> (1.25 yd <sup>3</sup> ) GP	1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GP	1.07 m <sup>3</sup> (1.40 yd <sup>3</sup> ) GP	1.15 m <sup>3</sup> (1.50 yd <sup>3</sup> ) GP	1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) MP	1.07 m <sup>3</sup> (1.40 yd <sup>3</sup> ) MP
1 Overall Length (loader on ground) – S-Stick – mm (ft/in)	7132 (23'5")	7087 (23'3")	7153 (23'6")	7153 (23'6")	7060 (23'2")	7060 (23'2")
Overall Length (loader on ground) – E-Stick – mm (ft/in)	7138 (23'5")	7093 (23'3")	7158 (23'6")	7158 (23'6")	7066 (23'2")	7066 (23'2")
Overall Transport Length – S-Stick – mm (ft/in)	7163 (23'6")	7130 (23'5")	7201 (23'7")	7201 (23'7")	7131 (23'5")	7131 (23'5")
Overall Transport Length – E-Stick – mm (ft/in)	7190 (23'7")	7135 (23'5")	7206 (23'8")	7206 (23'8")	7136 (23'5")	7136 (23'5")
2 Overall Transport Height – Standard Stick – mm (ft/in)	3645 (12'0")	3645 (12'0")	3645 (12'0")	3645 (12'0")	3645 (12'0")	3645 (12'0")
Overall Transport Height – Extendible Stick – mm (ft/in)	3665 (12'0")	3665 (12'0")	3665 (12'0")	3665 (12'0")	3665 (12'0")	3665 (12'0")
Overall Width – mm (ft/in)	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")
3 Height to Top of Cab/Canopy – mm (ft/in)	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")
4 Height to Top of Exhaust Stack – mm (ft/in)	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")
Height to Loader Hinge Pin (transport) – mm (ft/in)	378 (1'3")	378 (1'3")	422 (1'5")	422 (1'5")	420 (1'5")	420 (1'5")
Ground Clearance (LH step) – mm (ft/in)	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")
Ground Clearance (AWD guard) – mm (ft/in)	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")
Ground Clearance (485 kg/1,070 lb counterweight) – mm (ft/in)	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")
5 Rear Axle Centerline to Front Grill – mm (ft/in)	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")
Front Wheel Tread Gauge – mm (ft/in)	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")
Rear Wheel Tread Gauge – mm (ft/in)	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")
6 Wheelbase – mm (ft/in)	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")

### Single Tilt Loader with Quick Coupler

	0.96 m <sup>3</sup> (1.25 yd <sup>3</sup> ) GP	1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) GP	1.15 m <sup>3</sup> (1.50 yd <sup>3</sup> ) GP	1.0 m <sup>3</sup> (1.31 yd <sup>3</sup> ) MP	1.07 m <sup>3</sup> (1.40 yd <sup>3</sup> ) MP
1 Overall Length (loader on ground) – S-Stick – mm (ft/in)	7314 (24'0")	7269 (23'10")	7311 (24'0")	7221 (23'8")	7221 (23'8")
Overall Length (loader on ground) – E-Stick – mm (ft/in)	7319 (24'0")	7275 (23'10")	7316 (24'0")	7226 (23'9")	7226 (23'9")
Overall Transport Length – S-Stick – mm (ft/in)	7290 (23'11")	7257 (23'10")	7288 (23'11")	7219 (23'8")	7219 (23'8")
Overall Transport Length – E-Stick – mm (ft/in)	7296 (23'11")	7262 (23'10")	7294 (23'11")	7224 (23'8")	7224 (23'8")
2 Overall Transport Height – Standard Stick – mm (ft/in)	3645 (12'0")	3645 (12'0")	3645 (12'0")	3645 (12'0")	3645 (12'0")
Overall Transport Height – Extendible Stick – mm (ft/in)	3665 (12'0")	3665 (12'0")	3665 (12'0")	3665 (12'0")	3665 (12'0")
Overall Width – mm (ft/in)	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")	2248 (7'5")
3 Height to Top of Cab/Canopy – mm (ft/in)	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")	2815 (9'3")
4 Height to Top of Exhaust Stack – mm (ft/in)	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")	2720 (8'11")
Height to Loader Hinge Pin (transport) – mm (ft/in)	345 (1'2")	346 (1'2")	346 (1'2")	344 (1'2")	344 (1'2")
Ground Clearance (LH step) – mm (ft/in)	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")	316 (1'0")
Ground Clearance (AWD guard) – mm (ft/in)	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")	312 (1'0")
Ground Clearance (485 kg/1,070 lb counterweight) – mm (ft/in)	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")	289 (0'11")
5 Rear Axle Centerline to Front Grill – mm (ft/in)	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")	2706 (8'11")
Front Wheel Tread Gauge – mm (ft/in)	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")	1895 (6'3")
Rear Wheel Tread Gauge – mm (ft/in)	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")	1728 (5'8")
6 Wheelbase – mm (ft/in)	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")	2200 (7'3")

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## STANDARD EQUIPMENT

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- Cab, Deluxe
- All Wheel Drive
- 100% Differential Lock
- Hydraulic Boosted Brakes
- Tires 26 inch
- Engine, C3.6 74.5 kW
- Battery, 750 CCA, Heavy Duty
- Hinged Radiator Pack
- Auto Idle
- Forward-Neutral-Reverse (FNR) on Loader Lever
- Eco Mode
- Standard Mode
- Standard + Mode
- Engine Block Heater
- Transmission Neutralizer
- Transmission, Four Speed Powershift
- Controls, EH
- Pattern Selector (ISO/SAE)
- Power Steering, Hydrostatic
- Variable Displacement Piston Pump
- Hydraulic Quick Disconnects
- Side Shift Lock
- Hydraulic Oil Cooler
- Hydraulic Lines, Two Way
- Loader Kickout, Float
- Loader Kickout, Return to Dig
- Powered Side Shift
- Ride Control
- Continuous Flow
- Programmable Auxiliary Flow
- Stick Extending, 4.3 m (14'0")
- Loader Quick Coupler, Hydraulic
- Transport Lock, Swing
- Transport Lock, Boom
- Counterweight, 460 kg (1,015 lbs)
- Street Pads, Stabilizers
- External Tool Box
- Transport Tie Downs
- Display Screen, Touchscreen
- Product Link Cellular
- Reversing Alarm
- Stabilizer Alarm







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