434

BACKHOE LOADER

Engine Power	68.5 kW or 74.5 kW U.S. EPA Tier 2 Equivalent or 74.5 kW Tier 3 Equivalent
Operating Weight	9213 kg
Dig Depth	4827 mm/5748 mm (E-Stick)
Loader Breakout Force	61 kN
Controls	Mechanical Loader Mechanical Hoe (Pilot Hoe Optional)

NEW MACHINES, ORIGINAL DNA

The first Cat® backhoe loader hit the road in 1985. The machine was co-developed by a team of designers in Illinois, U.S. and a manufacturing team in Desford, UK. The machines are still designed by experts to meet the needs of today's operators. Every model provides reliability, power and a top-quality operator environment to see you through the toughest projects. The latest backhoe loader range is crafted from 35 years of passion, expertise and experience.

THE NEW CAT® 434

TAKE CONTROL IN YOUR NEW BACKHOE LOADER

MORE CONTROL FOR YOU

+ **EFFICIENT AND POWERFUL** – POWERED BY A CHOICE OF CAT ENGINES, THIS MACHINE IS DESIGNED TO BE EFFICIENT WITH FUEL WHILST GIVEN THE POWER YOU NEED. HELPING YOU TO BE BOTH PRODUCTIVE WHILST KEEPING YOUR OWNING AND OPERATING COSTS AS LOW AS POSSIBLE.
+ **PILOT CONTROLS** – OPERATE IN COMFORT WITH THE OPTIONAL PILOT HOE CONTROLS GIVING MORE COMFORT AND CONTROL THAN EVER BEFORE.
+ **MORE VERSATILITY** – WITH A HUGE RANGE OF COUPLER AND WORKTOOL OFFERINGS YOUR BACKHOE IS MORE VERSATILE THAN EVER BEFORE.
+ **EASY TO OWN AND OPERATE** – WITH MONTHLY PAYMENT OPTIONS, GREAT FUEL EFFICIENCY AND BEST-QUALITY PARTS AND ENGINEERING, IT'S EASIER AND MORE AFFORDABLE THAN EVER TO OWN AND OPERATE A CAT BACKHOE LOADER.

POWERFUL LOAD SENSING
HYDRAULIC SYSTEM

FLOW-SHARING **VALVES**

Actively manage the flow of oil between each function of the machine. When the operator demands multiple operations the machine responds, providing smooth, effortless operation.

VARIABLE DISPLACEMENT **PISTON PUMP**

A high capacity variable displacement piston pump allows for perfect matching of power and operator demand, providing power when it is needed whilst contributing to great fuel economy.

MORE LIFTING **PERFORMANCE**

The option of a larger boom cylinder is available on the 434 giving increased lifting performance against the standard boom cylinder. This option is available with either mechanical or pilot controls.

BACKHOE

BUILT FOR THE TASK

HIGH-ROTATION LINKAGE

The Cat backhoe linkage provides an industry-leading 205 degrees of bucket rotation. This design helps with material retention when truck loading and with vertical wall-trenching. Improved performance and efficiency are achieved by the ability to do more with less movement.

EXCAVATOR-STYLE BOOM

Whether close-up truck loading or digging over obstacles, the iconic excavator-style boom tackles the toughest jobs with ease. Combine this versatility with powerful breakout forces, controllability, a powerful hydraulic system and the 434 is capable of high levels of productivity with minimum effort. The boom is a narrow design, ensuring maximum visibility to the attachment and ground.

CAT CUSHION SWING

The standard Cat Cushion Swing System smooths the backhoe swing function when returning to the trench. Operators will immediately appreciate being able to line up the bucket edge on the trench wall faster and with more control.

SIDE SHIFT FRAME

The Side Shift Frame has exterior lock clamps, with no disassembly needed when servicing. The frame is a solid design with E-Coat protection preventing material build up in the frame, reducing the risk of rust and increasing the life of the frame.

EXTENDIBLE STICK

The extendible stick comes as an option for applications where more versatility is needed. Increasing dig depth and reach capability by 922 mm reduces the amount of machine repositioning and therefore reducing site damage and increasing productivity. A sliding inner section design helps to ensure the wear pads remain as dirt free as possible, prolonging adjustment and replacement intervals. Auxiliary lines, for operating hydraulic attachments, have been routed so that they are protected from damage when working in the narrowest of trenches.

POWERED SIDE SHIFT (OPTIONAL)

Available as an option either from the factory or as a dealer fitted kit, the powered side shift solution provides a hydraulic service to allow the operator to easily position the backhoe across the full width of the Side Shift Frame. Ideal for use in areas with minimal space and utility applications such as gas, electrical, and telecoms.

POWER TRAIN

POWERFUL, PROVEN AND EFFICIENT

PROVEN CAT ENGINE

All Cat backhoe loaders (BHLs) are powered with a proven and reliable Cat engine. There are two engine options, the EU Stage II/ U.S. Tier 2 Cat 3054C engine or the EU Stage IIIA/U.S. Tier 3 Cat C4.4 engine with different power ratings to best suit the application. All engine options deliver superior performance with best in class fuel efficiency.

TRANSMISSIONS

The 4-speed manual transmission is standard on the 434. A 4-speed powershift transmission is available as an optional upgrade. Improved operator comfort and reduced fatigue is achieved by operation through the Power Shuttle Lever, rather than floor mounted lever, to shift gears. For those operators doing a lot of roading the 6-speed auto shift transmission with lock-up torque convertor is an ideal option as it can give up to 15% fuel efficiency savings on the road whilst maintaining travel speed in hilly environments.

AXLES AND DIFFERENTIAL LOCK

Heavy duty axles and a 100% locking rear differential come as standard on Cat backhoe loaders. The axles provide high durability whilst providing superb traction on uneven surfaces. No daily greasing is required on the front axle helping to save both time and money, keeping owning and operating costs as low as possible. The Diff-lock improves performance by giving maximum traction in all conditions.

EQUAL SIZED TIRES (EST)

With four equal sized tires, this machine is capable of increased lifting performance. Better flotation makes an EST ideal for applications with poor ground conditions. The EST machines also give all wheel steering to improve maneuverability around the job site.

LOADER PERFORMANCE

MAKING LIGHT WORK OF LIFTING AND LOADING

PARALLEL LIFT

Parallel lift loader arms offer excellent forward visibility and self-leveling, ensuring excellent material retention throughout the lift and lower cycles.

RIDE CONTROL

This option offers loader suspension to improve operator comfort and productivity. When moving around the job site or transporting the machine on the road, ride control provides extra stability which creates an easier ride for the operator and helps material retention to improve operator efficiency.

RETURN TO DIG

Return to Dig allows the operator to return the bucket to a preset level, this is great for applications with repetitive work cycles especially when working with forks.

IT QUICK COUPLER

This option is available from the factory or as a kit, providing the extra versatility needed when working in multiple applications. This coupler allows a quick and safe change between multiple attachments from the inside of the cab.

THE CLASS LEADING OPERATOR ENVIRONMENT JUST GOT BETTER

YOUR OFFICE YOUR RULES

MACHINE SECURITY SOFTWARE

The optional keypad security system is specifically designed for use with Cat Backhoe Loaders. This device helps keep your machine safe and can hold up to 25 unique codes for all operators. The system can even be added at a later date if not initially equipped on your machine.

OPERATOR COMFORT

To reduce operator fatigue and increase efficiency, the air suspension seat comes as standard with switches and controls being ergonomically located within reach of the operator. Diff-Lock button, Transmission neutralizer and auxiliary controls are all located on the loader control joystick giving power and control at the operator's fingertips. Great visibility allows the operator to get the job done in a safe and efficient manner.

HOE PILOT CONTROLS

Hoe Pilot controls are available as an option on the 434. These are mounted on fully adjustable pods that the operator can position to their preference. These controls increase operator comfort by having them located in the most ergonomic position as well as being easier and smoother to operate than the standard mechanical controls. The loader control will remain mechanical.

ATTACHMENTS

A WIDE RANGE OF CAT ATTACHMENTS ARE AVAILABLE TO MEET THE NEEDS OF YOUR JOB SITE APPLICATIONS.

Our attachments are engineered, balanced and tested to each Cat backhoe loader model, promising to minimize stress and optimize performance.

LOADER BUCKETS

General Purpose loader buckets are available as well as the hydraulically operated Multi-Purpose bucket.

OTHER AVAILABLE LOADER TOOLS INCLUDE:

+ BROOMS
+ MATERIAL HANDLING ARMS
+ TRUSS BOOMS
+ FORKS
+ BLADES

EXCAVATING BUCKETS

Cat Attachments provide a range of buckets in various sizes. It is easy to find the correct bucket for the application with a range including:

+ STANDARD DUTY
+ HEAVY DUTY
+ HIGH CAPACITY HD
+ DITCH CLEANING
+ CRIBBING
+ GRADING

OTHER AVAILABLE BACKHOE TOOLS INCLUDE:

+ COLD PLANERS
+ HAMMERS
+ AUGERS
+ VIBRATORY COMPACTION PLATES
+ RIPPER

BACKHOE QUICK COUPLER

Manual or hydraulic backhoe couplers make rear tool exchange quick, easy and safe. Cat dual-lock couplers have a self-adjusting wedge design to ensure a tight fit. They also feature a safety lock which automatically engages.

EASY TO OPERATE

EASY TO MAINTAIN

DAILY SERVICE POINTS

Caterpillar understands that the easier a task is the more likely it is to be done. We have ensured that servicing the Cat backhoe loader is as simple as it can be. All daily fluid check points and are easy to access from a large service platform.

HINGED COOLING PACK

The hood opens to reveal the engine and a unique Cat designed hinged cooling pack. The air conditioning pack lifts up and the radiator tilts forward with no tooling required, giving easy access for debris removal whether you are in the workshop or on a job site, keeping optimal cooling performance.

WEAR PAD ADJUSTMENTS

The Extendible Stick (E-Stick) is designed to be self-lubricating, to minimize the need for operator interaction. The stabilizers and E-Stick all have easily adjustable wear pads that require no disassembly. When wear pad adjustments are necessary, the adjustment bolts are easy to access, taking minutes to complete.

CAT FILTERS

All Cat filters are vertically mounted for spill free servicing and reduced oil contamination. These low micron filters remove microscopic particles from the oil, keeping the engine, transmission and hydraulic system running smoothly for years.

A-PIN GREASING

A-Pin grease point has been relocated to give ground level access without needing access to the engine bay, reducing time spent maintaining the machine.

BATTERY/STORAGE BOX

The batteries and battery disconnect switch are conveniently located in the external right hand side lockable storage box for easy access. The box also leaves sufficient space to be able to store grease gun, spanner, etc.

YOUR MACHINE
YOUR SUPPORT

MACHINE SELECTION

Your dealer can help you with your machine purchase decision, based on your requirements and help keep operating costs to a minimum. Is the machine you have in mind exactly the best for your job, or could there be a more suitable solution?

CUSTOMER VALUE AGREEMENTS (CVA'S)

Your Cat dealer can offer a comprehensive range of CVA's which can be individually tailored to suit your requirements. Dealers can offer a range of options from a full preventative maintenance with S·O·S℠ package to a parts only CVA. Protect your valuable investment and know exactly what your monthly payments will be to help you run your business.

EQUIPMENT PROTECTION PLAN (EPP)

You count on your Cat machines to get the job done, day in and day out. Choose a protection plan that's just as dependable and long-lasting. EPP offers the only coverage designed specifically for new Cat equipment – giving you the highest level of repair cost protection available. Talk to your dealer today to find out what EPP solution is the best for you!

FINANCE

Have you explored the range of options available from your dealer to finance your machine? They can offer a selection of attractive packages tailored to suit your every requirement.

TRAINING AND SUPPORT

Speak to your dealer about any additional support you may need. They can give you the latest in operating techniques to minimize wear and tear, maximize productivity, lower owning and operating costs and help you make the most of the fantastic features offered on the Cat backhoe loaders.

PRODUCT LINK™

Product Link™ comes as standard on all Cat BHL (dependent on local regulations). Cat Product Link offers service meter hours and location, helping you to keep control of your machine.

TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

ENGINE			
	434 STANDARD OFFERING TIER 2 EQUIVALENT	434 OPTIONAL OFFERING TIER 2 EQUIVALENT	434 OPTIONAL OFFERING TIER 3 EQUIVALENT
Engine	3054C 68.5 KW MECHANICAL TURBO	3054C 74.5 KW MECHANICAL TURBO	C4.4 74.5 KW MECHANICAL – TURBO INTERCOOLED
Ratings at 2,200 rpm			
Gross Power SAE J1995	69 kW/94 hp	75 kW/102 hp	76 kW/104 hp
Gross Power ISO 14396	68 kW/93 hp	74.5 kW/101 hp	74.5 kW/101 hp
Net Power Rating at 2,200 rpm			
SAE J1349	64 kW/87 hp	70 kW/95 hp	69 kW/94 hp
ISO 9249	65 kW/88 hp	71 kW/96 hp	70 kW/95 hp
Bore	105 mm	105 mm	105 mm
Stroke	127 mm	127 mm	127 mm
Displacement	4.4 L	4.4 L	4.4 L
Torque Rise (net)	@ 1,400 rpm	@ 1,400 rpm	@ 1,400 rpm
SAE J1349 (net)	384 N·m	397 N·m	398 N·m
Power Rating Conditions			
No De-Rating Required Up To	2286 m	2286 m	2286 m

• Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler and alternator.

TRANSMISSION			
Travel speeds of backhoe loader at full throttle, when equipped with 440/80-28 rear tires.			
	POWER SHUTTLE TRANSMISSION (STANDARD)	POWERSHIFT TRANSMISSION (OPTIONAL)	AUTO-SHIFT TRANSMISSION AND AUTO-SHIFT TRANSMISSION WITH LOCK UP TORQUE CONVERTER (OPTIONAL)
Forward			
1st	6 km/h	6 km/h	6 km/h
2nd	9 km/h	10 km/h	10 km/h
3rd	21 km/h	20 km/h	12 km/h
4th	36 km/h	40 km/h	20 km/h
5th	—	—	27 km/h
6th	—	—	40 km/h
Reverse			
1st	6 km/h	6 km/h	6 km/h
2nd	9 km/h	12 km/h	12 km/h
3rd	21 km/h	27 km/h	27 km/h
4th	36 km/h	—	—

AXLE RATINGS	
Front Axle	
Static	22 964 kg
Dynamic	9186 kg
Rear Axle	
Static	22 964 kg
Dynamic	9186 kg

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TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

WEIGHTS*	
Operating Weight*	9213 kg
Operating Weight (maximum) (ROPS capacity)	11 500 kg
Cab, ROPS/FOPS	Standard
Auto-Shift Transmission	94 kg
Ride Control	15 kg
Air Conditioning	Standard
MP Bucket (1.15 m³)	
with Fold-over Forks	975 kg
without Fold-over Forks	776 kg
Extendible Stick (excludes front counterweight)	203 kg
Counterweights	
Maximum	115 kg
Minimum Counterweight Recommendations – Standard Stick	
Loader Bucket	
GP	0 kg
MP	0 kg
Minimum Counterweight Recommendations – Extendible Stick	
Loader Bucket	
GP	0 kg
MP	0 kg
Total Gross Weight Not to Exceed	11 500 kg

*Machine Configuration – LRC 74.5 kW engine; standard stick hoe; standard cab with A/C; AWD standard shift transmission; 1.15 m³ MP loader bucket; 600 mm standard duty hoe bucket; 440/80R24 tires; no counterweight; 80 kg operator; full fuel tank.

HYDRAULIC SYSTEM	
Type	Closed Center
Pump Type	Variable-Flow, Axial Piston
Pump Capacity @ 2,200 rpm	160 L/min
System Pressure	
Backhoe	250 bar
Loader	250 bar

STEERING	
Type	Front Wheel
Power Steering	Hydrostatic
AWD Cylinder, One (1) Double-acting	
Bore	85 mm
Stroke	117 mm
Rod Diameter	42 mm
Axle Oscillation	±8°
Turning Circle (28" Tires)	
Outside Front Wheels	9.8 m
Outside Widest Loader Bucket	12.6 m

SERVICE REFILL CAPACITIES	
Cooling System with A/C	17.5 L
Fuel Tank	160 L
Engine Oil with Filter	9 L
Diesel Exhaust Fluid	19 L
Transmission (Power Shuttle)	18 L
Transmission (Powershift/Autoshift)	19 L
Rear Axle	16 L
Planetaries	1.7 L
Front Axle	14 L
Planetaries	1.7 L
Hydraulic System	95 L
Hydraulic Tank	42 L

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TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

MACHINE DIMENSIONS

		1.15 m³ Buckets		
		GP – 1.15 m³	MP – 1.15 m³	MP with Forks – 1.15 m³
1	Overall Length in Roading Position	5852 mm	5840 mm	5840 mm
	Overall Transportation Length	5921 mm	5900 mm	5877 mm
2	Overall Transportation Height	3780 mm	3780 mm	3780 mm
	Overall Width	2322 mm	2322 mm	2322 mm
3	Height to Top of Cab/Canopy	2875 mm	2875 mm	2875 mm
4	Height to Top of Exhaust Stack	2783 mm	2783 mm	2783 mm
5	Rear Axle Centerline to Front Grill	2795 mm	2795 mm	2795 mm
6	Wheelbase AWD	2235 mm	2235 mm	2235 mm

Dimensions and performance specifications shown are for machines equipped with 440/80R24 tires, standard cab, standard stick with 600 mm standard duty bucket, no counterweight, 1.15m³ MP loader bucket and standard equipment unless otherwise specified.

TECHNICAL SPECIFICATIONS

See *cat.com* for complete specifications.

LOADER BUCKET DIMENSIONS AND PERFORMANCE			
		1.15 m³ Buckets	
	GP – 1.15 m³	MP – 1.15 m³	MP with Forks – 1.15 m³
Capacity (SAE rated)	1.15 m³	1.15 m³	1.15 m³
Width	2434 mm	2434 mm	2434 mm
Lift Capacity at Maximum Height	4626 kg	4303 kg	4118 kg
Lift Breakout Force	60 977 N	58 278 N	56 714 N
Tilt Breakout Force	63 092 N	63 334 N	62 809 N
Tipping Load at Breakout Point	6858 kg	6669 kg	6579 kg
7 Maximum Hinge Pin Height	3518 mm	3518 mm	3518 mm
8 Dump Angle at Full Height	45°	45°	45°
Dump Height at Maximum Angle	2745 mm	2760 mm	2779 mm
9 Dump Reach at Maximum Angle	923 mm	908 mm	907 mm
10 Maximum Bucket Rollback at Ground Level	44°	44°	44°
11 Digging Depth	154 mm	153 mm	142 mm
Maximum Grading Angle	109°	110°	110°
12 Grill to Bucket Cutting Edge, Carry Position	1491 mm	1479 mm	1459 mm
13 Maximum Operating Height	4397 mm	4463 mm	4463 mm
Weight (does not include teeth)	448 kg	776 kg	975 kg

BACKHOE DIMENSIONS AND PERFORMANCE			
	Standard Stick – 4.3 m	E-Stick Retracted – 4.3 m	E-Stick Extended – 4.3 m
14 Digging Depth, SAE Maximum	4349 mm	4353 mm	5330 mm
Digging Depth, Manufacturer's Maximum	4827 mm	4832 mm	5748 mm
15 Digging Depth, 2400 mm Flat Bottom	3974 mm	3978 mm	5040 mm
Digging Depth, 600 mm Flat Bottom	4306 mm	4309 mm	5296 mm
Digging Depth, 600 mm Flat Bottom, Manufacturer's	4817 mm	4822 mm	5746 mm
Reach from Rear Axle Centerline at Ground Line	6745 mm	6750 mm	7676 mm
16 Reach from Swing Pivot at Ground Line	5655 mm	5660 mm	6586 mm
Maximum Operating Height	5578 mm	5577 mm	6145 mm
Loading Height	3909 mm	3920 mm	4487 mm
17 Loading Reach	1808 mm	1758 mm	2641 mm
Swing Arc	180°	180°	180°
Bucket Rotation	205°	205°	205°
18 Stabilizer Overall Width	2352 mm	2352 mm	2352 mm
Bucket Dig Force	63 433 N	63 404 N	63 404 N
Stick Dig Force	36 168 N	36 818 N	26 879 N

STANDARD & OPTIONAL EQUIPMENT

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

CAB ROPS AND FOPS	STANDARD	OPTIONAL
Cab, Standard	•	
Cab, Deluxe		•

TIRES/STEERING/BRAKES	STANDARD	OPTIONAL
All Wheel Drive	•	
All Wheel Steer	•	
100% Differential Lock	•	
Hydraulic Boosted Brakes	•	
Tires 24 inch	•	
Tires 28 inch		•

ENGINE/TRANSMISSION	STANDARD	OPTIONAL
Engine, 3054C 68.5 kW	•	
Engine, 3054C 74.5 kW		•
Engine, C4.4 74.5 kW		•
Battery, 750 CCA, Standard	•	
Battery, 750 CCA, Heavy Duty		•
Hinged Radiator Pack	•	
Engine Block Heater		•
Transmission Neutralizer	•	
Transmission, Four Speed Manual	•	
Transmission, Four Speed Powershift		•
Transmission, Six Speed Automatic		•
Transmission, Six Speed Automatic with Lock-Up Torque Converter		•

CONTROLS	STANDARD	OPTIONAL
Controls, Mechanical Levers	•	
Controls, Pilot Hoe Joysticks		•
Pattern Selector (ISO/SAE)		•
Power Steering, Hydrostatic	•	

ELECTRICAL	STANDARD	OPTIONAL
Product Link Cellular	•	
Product Link Satellite		•
Reversing Alarm	•	
Stabilizer Alarm		•
Beacon, Rotating		•
Beacon, Strobe		•

HYDRAULICS	STANDARD	OPTIONAL
Variable Displacement Piston Pump	•	
Hydraulic Quick Disconnects		•
Side Shift Lock	•	
Hydraulic Oil Cooler	•	
Hydraulic Lines, One Way		•
Hydraulic Lines, Two Way		•
Loader Kickout, Float	•	
Loader Kickout, Return to Dig	•	
Powered Side Shift		•
Ride Control		•
Programmable Auxiliary Flow		•

BOOMS, STICKS AND LINKAGES	STANDARD	OPTIONAL
Stick Standard, 4.3 m	•	
Stick Extending, 4.3 m		•
Hoe Quick Coupler, Mechanical		•
Hoe Quick Coupler, Hydraulic		•
Loader Quick Coupler, Hydraulic		•
Transport Lock, Swing	•	
Transport Lock, Boom	•	

OTHER ATTACHMENTS	STANDARD	OPTIONAL
Counterweight, 115 kg		•
Front Fenders		•
Street Pads, Stabilizers		•
External Tool Box	•	
Transport Tie Downs	•	

Not all features are available in all regions. Please check with your local Cat dealer for specific offering availability in your area.

For additional information, refer to the Technical Specifications brochure available at *www.cat.com* or your Cat dealer.

For more complete information on Cat products, dealer services and industry solutions, visit us on the web at www.cat.com

AEHQ8355
(AME, CIS, ANZP, SE Asia)

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