# **434** Backhoe Loader



### C3.6 Stage V Engine

The Cat<sup>®</sup> C3.6 engine meets EU Stage V emissions standards while delivering up to a 10% fuel efficiency improvement compared to the previous model. The aftertreatment system is completely maintenance free with Selective Catalytic Reduction (SCR), Diesel Exhaust Fluid (DEF) and a fit for life Diesel Particulate Filter (DPF) system. This new engine delivers power and torque density as per the C4.4 engine installed in the previous model.

### **Improved Operator Comfort**

Pilot hoe controls are an optional upgrade on your 434. These controls mounted on fully adjustable pods offer the operator finer controls while giving improved ergonomics and comfort.

### **Greater Lifting Performance**

The option of a larger boom cylinder will give greater lifting performance on the back of the 434 machine.

### **Powershift Transmission Option**

The four speed powershift transmission, improves operator comfort by utilizing the Power Shuttle Lever to shift gears. There is no floor-mounted gear shift lever, adding to the already spacious work environment.

### **Interactive Display Screens**

The choice of either a soft key or touchscreen display screen gives the operator information at the touch of their fingertips. Optional Machine Security Software is embedded into the display screen as well as notifications on service intervals.

### **Excavator Style Boom**

The Excavator Style Boom is iconic to the Cat backhoe loader (BHL). This gives the operator more dig depth and reach when working around obstacles meaning less repositioning of the machine is required.

### **Powerful and Efficient Hydraulics**

The load sensing hydraulic system coupled with a variable displacement piston pump deliver powerful hydraulics when the operator really requires it.

### **Power Management Modes**

The operator can choose between Eco Mode dependent on configuration, Standard Mode or Standard Plus dependent on job and site conditions. Eco Mode will save the operator fuel, lowering their owning and operating costs, where Standard Plus Mode will give more speed and power when time or tough ground conditions demand this.

### **Product Link™**

Product Link<sup>™</sup> comes as standard on the Cat BHL. Many features exist through Product Link including fuel burn and location allowing the owner to access all data to help increase productivity while reducing costs.



# **434 Backhoe Loader Specifications**

Engine	
	EU Stage V (Standard)
Engine	C3.6 74.5 kW 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	68 kW/92 hp
ISO 9249	68 kW/92 hp
Torque Rise (net)	48% @ 1,500 rpm
Net Torque – SAE J1349	436 N·m
Bore	98 mm
Stroke	120 mm
Displacement	3.6 L

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

• No derating required up to 3048 m altitude. Auto derate protects hydraulic and transmission systems.

• Meets EU Stage V emission standards.

### **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 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, 2WD 22 964 kg Static Dynamic 9186 kg Front Axle, AWD 22 964 kg Static Dynamic 9186 kg Rear Axle Static 22 964 kg Dynamic 9186 kg Weights\* Operating Weight\* 9170 kg Operating Weight (maximum) 11 500 kg (ROPS capacity) Cab, ROPS/FOPS Standard Auto-Shift Transmission 109 kg Ride Control 15 kg Air Conditioning 32 kg MP Bucket (1.15 m<sup>3</sup>) with Fold-over Forks 975 kg without Fold-over Forks 776 kg Extendible Stick 203 kg (excludes front counterweight) Counterweights Base 115 kg 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 0 kg MP Total Gross Weight Not to Exceed 11 500 kg

\*Machine Configuration – HRC 74.5 kW engine; standard stick hoe; standard cab with A/C; AWD standard shift transmission; 1.15 m<sup>3</sup> MP loader bucket; 600 mm standard duty hoe bucket; 440/80R24 tires; no counterweight; 80 kg operator; full fuel tank.

# 434 Backhoe Loader Specifications

# **Hydraulic System**

Туре	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

Туре	Front Wheel	
Power Steering	Hydrostatic	
AWD Cylinder, One (1) Double-acti	ng	
Bore	85 mm	
Stroke	117 mm	
Rod Diameter	42 mm	
Turning Circle (28" Tires)		
AWD (inner wheel not braked)		
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)	
AWD	18 L
Transmission (Powershift)	
AWD	19 L
Rear Axle	16 L
Planetaries	1.7 L
Front Axle (AWD)	14 L
Planetaries	1.7 L
Hydraulic System	95 L
Hydraulic Tank	42 L

# **434 Backhoe Loader Specifications**

# **Machine Dimensions**



		1.15 m <sup>3</sup> Buckets	
	GP – 1.15 m³	<b>MP</b> – 1.15 m <sup>3</sup>	MP with Forks – 1.15 m <sup>3</sup>
1 Overall Length in Roading Position	5852 mm	5840 mm	5840 mm
Overall Transportation Length	5921 mm	5900 mm	5877 mm
2 Overall Transport Height	3780 mm	3780 mm	3780 mm
Overall Width	2322 mm	2322 mm	2322 mm
<b>3</b> 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
<b>5</b> Rear Axle Centerline to Front Grill	2795 mm	2795 mm	2795 mm
<b>6</b> 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, 1.15 m<sup>3</sup> MP loader bucket and standard equipment unless otherwise specified.

# **Loader Bucket Dimensions and Performance**

	1.15 m <sup>3</sup> Buckets	
GP – 1.15 m <sup>3</sup>	MP – 1.15 m <sup>3</sup>	MP with Forks – 1.15 m <sup>3</sup>
1.15 m <sup>3</sup>	1.15 m <sup>3</sup>	1.15 m <sup>3</sup>
2434 mm	2434 mm	2434 mm
4626 kg	4303 kg	4118 kg
60 977 N	58 278 N	56 714 N
63 092 N	63 334 N	62 809 N
6858 kg	6669 kg	6579 kg
3518 mm	3518 mm	3518 mm
45°	45°	45°
2745 mm	2760 mm	2779 mm
923 mm	908 mm	907 mm
44°	44°	44°
154 mm	153 mm	142 mm
109°	110°	110°
1491 mm	1479 mm	1459 mm
4397 mm	4463 mm	4463 mm
448 kg	776 kg	975 kg
	1.15 m³   2434 mm   4626 kg   60 977 N   63 092 N   6858 kg   3518 mm   45°   2745 mm   923 mm   44°   154 mm   109°   1491 mm   4397 mm	GP - 1.15 m³   MP - 1.15 m³     1.15 m³   1.15 m³     2434 mm   2434 mm     4626 kg   4303 kg     60 977 N   58 278 N     63 092 N   63 334 N     6858 kg   6669 kg     3518 mm   3518 mm     45°   45°     2745 mm   2760 mm     923 mm   908 mm     44°   44°     154 mm   153 mm     109°   110°     1491 mm   1479 mm     4397 mm   4463 mm

# **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
<b>15</b> 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
<b>16</b> 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 and Optional Equipment**

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

	Standard	Optional		Standard	Optiona
Cab ROPS and FOPS			Hydraulics		-
Cab, Standard	$\checkmark$		Variable Displacement Piston Pump	$\checkmark$	
Cab, Deluxe		$\checkmark$	Hydraulic Quick Disconnects		$\checkmark$
Tires/Steering/Brakes			Side Shift Lock	$\checkmark$	
All Wheel Drive	$\checkmark$		Hydraulic Oil Cooler	$\checkmark$	
All Wheel Steer	$\checkmark$		Hydraulic Lines, One Way		$\checkmark$
100% Differential Lock	$\checkmark$		Hydraulic Lines, Two Way		$\checkmark$
Hydraulic Boosted Brakes	$\checkmark$		Loader Kickout, Float	$\checkmark$	
Tires 24 inch	$\checkmark$		Loader Kickout, Return to Dig	$\checkmark$	
Tires 28 inch		$\checkmark$	Powered Side Shift		$\checkmark$
Engine/Transmission			Ride Control		$\checkmark$
Engine, C3.6 74.5 kW	$\checkmark$		Continuous Flow		√
Battery, 750 CCA, Standard	$\checkmark$		Programmable Auxiliary Flow		√
Battery, 750 CCA, Heavy Duty		$\checkmark$	Booms, Sticks and Linkages		
Hinged Radiator Pack	$\checkmark$		Stick Standard, 4.3 m	$\checkmark$	
Auto Idle		$\checkmark$	Stick Extending, 4.3 m		$\checkmark$
Eco Mode		$\checkmark$	Hoe Quick Coupler, Mechanical		$\checkmark$
Standard Mode	$\checkmark$		Hoe Quick Coupler, Hydraulic		$\checkmark$
Standard + Mode	$\checkmark$		Loader Quick Coupler, Hydraulic		$\checkmark$
Engine Block Heater		$\checkmark$	Transport Lock, Swing	$\checkmark$	
Transmission Neutralizer	√		Transport Lock, Boom	$\checkmark$	
Transmission, Four Speed Manual	$\checkmark$		Other Attachments		
Transmission, Four Speed Powershift		$\checkmark$	Counterweight, 115 kg		$\checkmark$
Transmission, Six Speed with		$\checkmark$	Front Fenders		$\checkmark$
Lock-Up Torque Converter			Street Pads, Stabilizers		$\checkmark$
Controls			External Tool Box	$\checkmark$	
Controls, Mechanical	$\checkmark$		Transport Tie Downs	$\checkmark$	
Controls, Pilot		$\checkmark$	Electrical		
Pattern Selector (ISO/SAE)		$\checkmark$	Display Screen, Soft Key	√	
Power Steering, Hydrostatic	$\checkmark$		Display Screen, Touchscreen		√
			Product Link Cellular	$\checkmark$	

 $\checkmark$ 

 $\checkmark$ √

 $\checkmark$ ✓

Product Link Satellite

Reversing Alarm

Stabilizer Alarm Beacon, Rotating

Beacon, Strobe

# **434 Backhoe Loader**

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

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