



Cat[®] 834

Wheel Dozer

Designed with performance in mind, the Cat[®] 834 Wheel Dozer delivers faster speed for the quickest travel and cleanup on your jobsite. Improved efficiency and more productivity get the job done quicker and with less emissions. Simplified serviceability makes for a longer lifecycle, lower owning and operating costs, and more uptime.

Unmatched Durability

- The full box-section rear frame resists torsional shock and twisting forces.
- Heavy-duty steering cylinder mounts efficiently transmit steering loads into the frame.
- Optimized axle mounting results in increased structural integrity.
- Achieve longer component life with increased size of upper hitch pin, frame plate, and bearing.
- Solid through-width push beams transfer and absorb stresses through a larger portion of the frame.
- Features fully enclosed hydraulic wet disc brakes for improved performance.
- Robust structures withstand the toughest conditions and multiple lifecycles to improve your bottom line.
- In corner dozing, stresses are transferred and absorbed through a larger portion of the frame.

Optimum Efficiency

- The Cat C18 engine is designed for maximum fuel efficiency in the most demanding applications.
- Experience reliable efficiency with complete control over injection timing, duration, and pressure with Mechanically Actuated Electronic Unit Injection (MEUI[™]).
- Best-in-class Cat planetary powershift transmission features consistent, smooth shifting and efficiency through integrated electronic controls.
- Extended engine life and improved fuel efficiency with reduced rated speed.
- Impeller Clutch Torque Converter (ICTC) and Rimpull Control System (RCS) provide precise rimpull control.

- Load sensing hydraulic steering system enables precise machine control for easier loading.
- Lock-up torque converter with advanced control of lock-up speed.
- On demand cooling fan protects investment and lengthens lifecycle.
- Fully integrated electronic engine controls provide quick response.

Increased Safety

- Optional Cat Detect with Object Detection System (rearview camera and radar) or standard Vision (rearview camera) increase operator awareness around the machine.
- Cab-mounted LED strobes provide warning for others near the machine.
- Optional HID or LED lights provide excellent workspace visibility.
- Optional heated mirrors ensure enhanced visibility for safe operation.

Innovative Technology

- Integrated technologies allow you to monitor, manage, and enhance your jobsite operations.
- Product Link[™] remote monitoring provides valuable insight into machine or fleet performance through the VisionLink[®] interface, so you can make decisions that boost jobsite efficiency and lower operating costs.
- Vital Information Management System (VIMS[™]) 3G touchscreen monitor gives access to a wide range of sensor information and enhanced machine data to resolve problems before machine failure.
- Optional Cat Detect technologies enhance awareness of the environment around the machine for increased safety.



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Enhanced Operator Comfort

- Steering and Transmission Integrated Control System (STIC™) combines directional selection, gear selection, and steering into a single lever, maximizing responsiveness and control, while reducing operator fatigue.
- Operators can easily enter and exit the cab with fold-up STIC steer/armrest, reduced access stairway angles, and standard stairway lighting.
- Experience reduced vibrations with isolated cab mounts and seat-mounted implement and steering controls.
- Reduced interior sound levels keep operators comfortable throughout their entire shift.

Improved Sustainability

- The engine is available in configurations that meet U.S. EPA Tier 4 Final and EU Stage V emission standards, or equivalent to U.S. EPA Tier 3 or U.S. EPA Tier 2.
- Automatic Engine Idle Shutdown conserves fuel when machine is not in use.
- Generate less waste with maintenance-free batteries.
- Maximize machine life and lower operating costs with Caterpillar Reman and Certified Rebuild programs, which utilize reused or remanufactured components for 40 to 70% cost savings.
- Retrofit packages from Caterpillar deliver new features to older machines to get the most from your investment.

Simplified Maintenance

- Machine features ground level or platform access to easily reach daily service points.
- Swing-out doors on either side of the engine compartment provide easy access to critical daily service checks.
- Ecology drains prevent spills and allow for easier service.
- Intuitive design includes ground level access to transmission control valves for safe and convenient service.

Purpose Built Specialty Arrangements

- Available in two scoop arrangements – wood chip and coal.
- Cat wood chip and coal scoops have the unique capability of maximizing your production by both dozing and carrying a load with each pass.
- A purpose built hydraulic system, optimized for use with this work tool, maximizes machine productivity and efficiency.
- Dual lift cylinders provide hydraulic lift capacity matched to the demands of the application.
- Can be equipped with optional ground level accessible swing-out reversing fan for quick inspection and easy cleanout.
- Equipped with underhood ventilation system which creates a neutral pressure environment to prevent wood chip ingestion from hood openings while providing fresh air to the alternator, electronics, and turbo.
- Extended top guard for increased capacity for wood chip scoops.
- Higher ground pressure decreases risk of fires and maximizes use of storage space.
- Less damage to coal or wood chips due to rubber tires.
- High ground speed provides ability to manage multiple piles.
- Scoop design allows load and carry function for mixing.
- Lift and tip-out design makes stockpiling operations easy.
- Scoop tilt control is standard to maximize worksite efficiency.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ELECTRICAL			POWERTRAIN		
Alarm, back-up	✓		Automatic retarding controls		✓
Alternator, single 100 amp	✓		Brakes, oil-cooled, multi-disc, service/secondary	✓	
Batteries, dry	✓		Case drain screens	✓	
Converter, 10/15 amp, 24V to 12V	✓		Electro hydraulic parking brake	✓	
Hazardous voltage lamp	✓		Engine, C18 MEUI™ diesel, turbocharged/aftercooled	✓	
Lighting system (LED work lights, access and service platform lighting)	✓		Premixed 50% concentration of extended life coolant with freeze protection to -34°C (-29°F)	✓	
Lighting system (High Performance LED work lights, access and service platform lighting)		✓	Turbine precleaner, engine air intake	✓	
Lighting system Underhood service lighting		✓	Turbine precleaner, engine air intake dual stage		✓
Starter emergency start receptacle	✓		Radiator, Aluminum Modular Radiator (AMR)	✓	
Starter lockout in bumper	✓		Starting aid, ether, automatic	✓	
Starting and charging system, 24V	✓		Throttle lock, electronic	✓	
Transmission lockout in bumper	✓		Torque converter, impeller clutch (ICTC) with lock-up clutch (LUC) and rimpull control system	✓	
OPERATOR ENVIRONMENT			Transmission, planetary power shift, 4F/3R electronic control	✓	
Air conditioner	✓		ADDITIONAL EQUIPMENT		
Cab precleaner		✓	Cold weather package: additional starter and 2 batteries, engine block heater 120V or 240V, heated fuel lines		✓
Cab, sound suppressed and pressurized, integrated rollover protective structure (ROPS/FOPS) radio ready for entertainment, includes antenna, speakers and converter (12-volt 5-amp) and power port	✓		Cat Clean Emission Module (CEM)	✓	
Cat Detect (object detection system)		✓	Ecology drains for engine, radiator, hydraulic tank	✓	
Cat Vision, rear-vision camera system	✓		Hydraulically driven demand fan	✓	
Graphical information display, displays real time operating information, performs calibrations and customizes operator settings	✓		Oil sampling valves	✓	
Instrumentation, gauges: coolant temperature, engine hour meter, hydraulic oil temperature, powertrain oil temperature	✓		Rear access to cab and service platform	✓	
Radio, AM/FM/CD/MP3 Bluetooth®	✓		Steering, load sensing	✓	
Radio, CB ready	✓		Toe kicks	✓	
Radio, AM/FM/CD/MP3 Bluetooth with Satellite SiriusXM		✓	Tire Pressure Monitoring System		✓
Seat, deluxe	✓		Transmission brake	✓	
Seat, Premium Plus containing forced air heating and cooling, 2-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness, dynamic end dampening and leather finish		✓	Vandalism protection caplocks	✓	
Steering and Transmission Integrated Control (STIC™) System	✓		Wheel chocks		✓
Wet-arm wipers/washers (front and rear) – intermittent front and rear wipers	✓		OTHER OPTIONAL CONFIGURATIONS		
			Scoop		✓

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Technical Specifications

Engine

Engine Model	Cat C18	
Rated Speed	1,900 rpm	
Peak Power Speed	1,500 rpm	
Gross Power – SAE J1995:2014	419 kW	562 hp
Net Power – SAE J1349:2011	370 kW	496 hp
Bore	145 mm	5.7 in
Stroke	183 mm	7.2 in
Displacement	18.1 L	1,105 in ³
Peak Torque @ (1,300 rpm)	2836 N·m	2,092 lbt-ft
Torque Rise	52%	

- The following engine configurations are available:
 - Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
 - Equivalent to U.S. EPA Tier 3.
 - Equivalent to U.S. EPA Tier 2.
- Net power advertised is the power available at the engine flywheel when the engine is equipped with a fan, air cleaner, clean emissions module and alternator.

Weight

Operating Weight	47 750 kg	105,271 lb
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Blade

Blade Capacity Range	7.9 – 22.2 m ³	10.3 – 29.0 yd ³
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Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	± 13°

Transmission

Transmission Type Cat planetary powershift

Speed	km/h	mph	Speed	km/h	mph
Converter Drive			Direct Drive		
Forward 1	6.8	4.2	Forward 1	Lock-up disabled	
Forward 2	11.6	7.2	Forward 2	12.4	7.7
Forward 3	20.3	12.6	Forward 3	22.1	13.7
Forward 4	35.4	22.0	Forward 4	38.5	23.9
Reverse 1	6.8	4.2	Reverse 1	7.2	4.5
Reverse 2	12.2	7.6	Reverse 2	13.0	8.1
Reverse 3	24.1	13.3	Reverse 3	23.0	14.3

• Travel speeds based on 35/65-R33 tire.

Air Conditioning System

The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.8 kg of refrigerant which has a CO₂ equivalent of 2.574 metric tonnes.

Service Refill Capacities

Fuel Tank - Standard	793 L	209.5 gal
Cooling System	120 L	31.7 gal
Crankcase	60 L	15.9 gal
Diesel Exhaust Fluid Tank*	33 L	8.7 gal
Transmission	120 L	31.7 gal
Differentials and Final Drives – Front	186 L	49.1 gal
Differentials and Final Drives – Rear	186 L	49.1 gal
Hydraulic System Factory Fill	240 L	63.4 gal
Hydraulic System (tank only)	140 L	37.0 gal

- All non-road Tier 4 Final/Stage V diesel engines are required to use:
 - ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to:
 - 20% biodiesel FAME (fatty acid methyl ester)*
 - 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
 - * Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).
 - ** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.
- For pre-Tier 4 engines: Cat engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels*** up to:
 - 100% biodiesel FAME (fatty acid methyl ester)*
 - 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
 - * For use of blends higher than 20% biodiesel, consult your Cat dealer.
 - ** Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

Sound Performance

Tier 4 Final/Stage V	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Machine Sound Power Level (ISO 6395:2008)	113 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Machine Sound Power Level (ISO 6395:2008)	109 dB(A)**
Tier 3/Stage III	
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)
Machine Sound Power Level (ISO 6395:2008)	113 dB(A)
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)*
Machine Sound Power Level (ISO 6395:2008)	110 dB(A)**

- * For machines in European Union countries and in countries that adopt the “EU Directives” and “UK Directives”
- ** European Union Directive “2000/14/EC” as amended by “2005/88/EC” and UK Noise Regulation 2001 No. 1701
- The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- The operator sound pressure level was measured according to ISO 6396:2008. The measurement was conducted at 70 percent of the maximum engine cooling fan speed.
- Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors or windows are open for extended periods or in a noisy environment.

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(Global)

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

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