



# Cat<sup>®</sup> 844

## Wheel Dozer

**Maximize productivity in mining applications with the Cat<sup>®</sup> 844 Wheel Dozer, designed with efficiency in mind. Enhanced maintenance capabilities and simplified serviceability make for a longer lifecycle, lower owning and operating costs, and more uptime. Move more material with a machine built for the toughest conditions.**

### Unmatched Durability

- The full box-section rear frame resists torsional shock and twisting forces.
- Solid through-width push beams transfer and absorb stresses through a larger portion of the frame.
- Robust structures withstand the toughest conditions and multiple lifecycles to improve your bottom line.
- Resilient, durable blades are designed with excellent dozing and rolling characteristics.
- Optimized axle mounting results in increased structural integrity.
- Castings in the engine and frame are used in high stress areas to spread high loads.
- One-piece castings enhance strength in key pin areas.

### Optimum Efficiency

- 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.

### Increased Safety

- Battery disconnect, emergency engine shutdown, and stairway light switch are accessed through the ground level power service center.
- Optional Cat Detect with Object Detection System (rearview camera and radar) or Vision (rearview camera) increase operator awareness around the machine.
- Cab-mounted LED strobes provide warning for others near the machine.
- Wider stairs with reduced stair angles increase safety for operators.
- Access stairs via a powered platform from cab or ground level and have emergency egress access.

### 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

- Meets U.S. EPA Tier 4 Final emissions standards.
- Emits up to 18% less CO<sub>2</sub>/hr.\*
- 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 percent cost savings.
- Retrofit packages from Caterpillar deliver new features to older machines to get the most from your investment.

## Simplified Maintenance

- Swing-out fuel, hydraulic oil coolers, and condenser allow for easy access cleanout.
- 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.
- Optional tire pressure monitoring system provides real-time information to the operator in the cab for optimized tire life.
- Electronics bay is conveniently located inside the cab.
- Sight gauges offer quick visual inspection to minimize fluid contamination.
- Lighting inside the engine compartment improves visibility to service points.
- Ecology drains prevent spills and allow for easier service.
- 500-hour engine oil and filter change interval with S•O•S<sup>SM</sup> oil sampling analysis.
- Service center includes drain and fill, electronic technician connection, and fluid level status.
- Axle oil cooler and Automatic Retarder Control prevents unnecessary wear from accelerating down declines.

## Built for Your Operation

- Dependable blades are designed for mining with press rib construction and optimized widths and capacities for excellent dozing and rolling.
- Available Cat coal blades retain load control and a large capacity for lighter materials.
- Semi-U Blade features the increased capacity and spreading capabilities of a straight blade.
- Heavy-Duty Semi-U blade includes a Hardox 400 Liner plate, side plates, and additional reinforcements at the bottom of the blade.
- Equipped with the Cat MineStar System, a suite of integrated mine operations and mobile equipment technologies.
- Cat MineStar's capabilities help manage all aspects of operation.
- Fleet provides remote machine tracking capabilities.
- Terrain for Loading enables high precision management of load management.
- Detect assists the operator with areas of limited visibility.
- Health delivers machine condition and operating data and diagnostic tools for longer machine lifecycle.

\*Comparisons to 844H.

**Standard and Optional Equipment**

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

	Standard	Optional		Standard	Optional
<b>ELECTRICAL AND LIGHTING</b>			<b>SAFETY</b>		
Electronic transmission control	✓		Rear vision camera	✓	
Lighting system, halogen (front and rear) lighting, access stairway, engine compartment	✓		Back-up alarm	✓	
Light, LED		✓	Mirrors, rearview (externally mounted)	✓	
Product Link™ (Cellular)		✓	Seat belt, retractable, 76 mm (3 in) wide	✓	
Product Link (Satellite)		✓	Seat, trainer with lap belt, 76 mm (3 in) wide	✓	
<b>POWERTRAIN</b>			<b>SERVICE</b>		
Planetary powershift, 3F/3R electronic control transmission	✓		Vital Information Management System (VIMS™) 3G with graphical information display: external data port, customizable operator profiles	✓	
Rimpull Control System	✓		Engine, crankcase, 500-hour interval with CH4	✓	
Standard ICTC with Lock-Up Clutch	✓		Ground level service center with Electronic Technician (ET) port, fast fill fluid ports, ecology drains		✓
Fuel Priming Pump (electric)	✓		Ground-level fast-fill fuel system		✓
Automatic, ether starting aid	✓		Product Link		✓
Aluminum Modular Radiator (AMR)	✓		Grouped/Labeled lube points	✓	
No spin rear axle		✓	Automatic Lubrication System greases the hitch, steering, and axle trunnion bearings		✓
Axle oil cooler		✓	Case drain filters	✓	
<b>OPERATOR ENVIRONMENT</b>			<b>COOLING</b>		
Air conditioner and heater with automatic temperature control	✓		High pressure hydraulic oil screen		✓
Converter (12V, 10-15 amp) and power port	✓		High speed oil change system		✓
Digital display on center console: gear, ground speed, machine hours	✓		Axle ecology drains	✓	
Instrumentation, gauges: engine coolant temperature, fuel level, hydraulic oil temperature, powertrain oil temperature, tachometer	✓		Battery disconnect and jump start receptacle in bumper	✓	
Instrumentation, warning indicators: action alert system – three categories, automatic transmission model enable status, brake malfunction, bucket float status, delayed engine shutdown status, engine idle shutdown status, engine malfunction, fuel economy mode enable status, hydraulic lockout, lockup clutch enable status, low fuel level, parking brake status, rimpull control enable status, seat belt warning, secondary steering (if equipped), throttle lock status, transmission gear	✓		Starter and Transmission lockouts in bumper	✓	
Premium seat with heated and actively cooled leather, adjustable lumbar support, air adjustable bolsters on the seat and backrest, seat cushion tilt adjustment, and adjustable-length seat cushion	✓		Oil sampling valves	✓	
Radio, AM/FM with Bluetooth, USB Port, 3.5 mm AUX input	✓		Sight gauges for steering, implement and transmission oil	✓	
Radio, Sirius XM/AM/FM radio with Bluetooth technology, USB Port, 3.5 mm AUX input		✓	Tire pressure monitoring		✓
Wet-arm wipers/washers (front, rear, and corner) – intermittent front wiper	✓		<b>Standard ambient package (recommended for site conditions that do not exceed 43° C [110° F])</b>		
			High ambient cooling-software (recommended for site conditions that do not exceed 49° C [121° F])		

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## Technical Specifications

### Engine

Engine Model	Cat C27	
Rated Speed	1,800 rpm	
Gross Power – ISO 14396:2002	561 kW	752 hp
Gross Power – SAE J1995:2014	571 kW	766 hp
Net Power – SAE J1349:2011 (Standard Ambient)	521 kW	699 hp
Net Power – SAE J1349:2011 (High Ambient)	483 kW	648 hp
Bore	137.2 mm	5.4 in
Stroke	152.4 mm	6.0 in
Displacement	27.03 L	1,649.5 in <sup>3</sup>
Peak Torque @ (speed)	3557 N•m	2,624 lbt-ft
Torque Rise	18%	

- Two engine emissions options are available:
  1. Meets U.S. EPA Tier 4 Final and EU Stage V emissions standards.
  2. Meets China Nonroad Stage III emission standards, 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	74 883 kg	165,089 lb
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### Blade

Blade Capacity Range	15.9 – 30.7 m <sup>3</sup>	20.7 – 40.2 yd <sup>3</sup>
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### Axles

Front	Fixed
Rear	Trunnion
Oscillation Angle	± 8.5°

### Transmission

Transmission Type      Cat planetary powershift

Speed	km/h	mph	Speed	km/h	mph
Converter Drive			Direct Drive		
Forward 1	7.3	4.5	Forward 1	Lock-up disabled	
Forward 2	13.3	8.3	Forward 2	13.7	8.5
Forward 3	22.9	14.2	Forward 3	24.5	15.2
Reverse 1	7.9	4.9	Reverse 1	8.7	5.4
Reverse 2	14.7	9.1	Reverse 2	15.4	9.6
Reverse 3	24.9	15.5	Reverse 3	26.4	16.4

### Service Refill Capacities

Fuel Tank - Standard	1085 L	286.6 gal
Cooling System	208 L	54.9 gal
Crankcase	76 L	20.0 gal
Transmission	110 L	29.1 gal
Differentials and Final Drives – Front	271 L	71.6 gal
Differentials and Final Drives – Rear	261 L	68.9 gal
Hydraulic System – Implement and Hydraulic Fan	261 L	68.9 gal
Hydraulic System – Steering and Braking	132 L	34.9 gal

### 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 CO<sub>2</sub> equivalent of 2.574 metric tonnes.

### Sound Performance

	Standard	Suppression
Operator Sound Level (ISO 6396:2008)	69 dB(A)	69 dB(A)
Machine Sound Level (ISO 6395:2008)	115 dB(A)	113 dB(A)

- 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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Build Number: 11A  
(Global)

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

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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