

834G

Wheel Dozer



Engine

Engine Model	Cat [®] 3456 Diesel	
Gross Power	392 kW	525 hp
Flywheel Power	359 kW	481 hp

Blade Specifications

Blade Capacities	7.9 to 22.2 m ³	10.3 to 29 yd ³
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Weights

Operating Weight	47 106 kg	103,849 lb
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834G Wheel Dozer

Strong power train combined with a heavy-duty front frame provides extended life and economical operation.

Power Train

- ✓ The Cat 3456 EUI diesel engine is Tier 2 compliant. A new cylinder block is stronger and lighter. The Caterpillar® planetary power shift transmission and impeller clutch torque converter provide smooth, consistent shifting with fingertip control. Electronic controls contribute to increased levels of productivity. **pg. 4**

Hydraulics

Innovative electro-hydraulics play a key role in performance and provide low operator effort. Increased hydraulic efficiency improves blade response. **pg. 6**

Structures

The 834G features a box-section, engine-end frame and two-plate, front frame. These structures resist shock loads while absorbing twisting forces for improved frame alignment and stability. **pg. 8**

Customer Support

Your Cat dealer offers a wide range of services that help you operate longer with lower costs. **pg. 13**

Engineered for demanding work in large dozing applications, the 834G Wheel Dozer combines increased power, mobility and operator comfort to provide a revolutionary advancement in the large wheel dozer design. The 834G is ideally suited for the rigorous earth moving duties in the mining and contracting industries.



Blades

Choose a straight blade, universal blade or coal blade. Replaceable, bolt-on cutting edges and welded-on bottom wear plates help extend blade life.

pg. 9

Operator Station

Experience a new level of efficiency and comfort with one-hand STIC controller operation, a 38 percent larger cab, fingertip blade controls, improved range of viewing, reduced sound levels and improved ventilation. **pg. 10**

Serviceability

Most daily maintenance checks are performed from the 834G's left side to facilitate quick start up. Case drain filtration is standard and uptime is increased with 500 hour oil change intervals. **pg. 12**



✓ *New Feature*

Power Train

The 834G power train components deliver dependable, reliable performance customers expect from Cat Wheel Dozers.



1 Caterpillar 3456 Diesel Engine. Is based on one of the most successful engines offered by Caterpillar, the 3406E. The 3456 is Tier 2 compliant and features increased horsepower and efficient fuel management for quick response, high productivity and exceptional service life. A new, sculptured cylinder block provides greater strength and is lighter weight.

• **49 Percent Torque Rise.** Provides high lugging force during dozing and acceleration in high rimpull conditions. The torque curve effectively matches the transmission shift points to provide maximum efficiency and faster cycle times.

• **Pistons.** Three-ring, aluminum alloy which are cam-ground, tapered and cooled by oil spray.

• **Crankshaft Bearings.** Steel backed, copper-bonded.

• **Pressure Lubricated.** With full-flow filtered and cooled oil.

• **Starting System.** Direct-electric, 24-volt with ether, 75-amp alternator and two 12-volt, 190 amp-hour batteries.

• **Electronic Unit Injection (EUI).** Is a proven high-pressure, direct injection fuel system that electronically monitors operator demands and sensor inputs to optimize engine performance.

• **Air Cleaners.** Are dry-type radial seal with primary and secondary elements and precleaner.

• **ADEM™ III (Advanced Diesel Engine Management III) System .** Controls the fuel injector solenoids to start and stop fuel injection. This system provides automatic altitude compensation, air filter restriction indication and will not allow the engine to fire until it has oil pressure, acting as a cold start protection and a form of pre-lube. Includes cold weather starting mode, elevated low idle, advanced diagnostic capabilities, automatic altitude deration and automatic ether aid control.

• **Air to Air Aftercooler (ATAAC) System.** Provides a separate cooling system for the intake manifold air. The ATAAC system routes hot compressed air from the turbo and cools it with a single pass, air-to-air aluminum heat exchanger. The cooled, compressed air greatly reduces the emissions produced, meeting Tier 2 requirements.

• Airflow matched turbocharger with power rating helps reduce emissions.

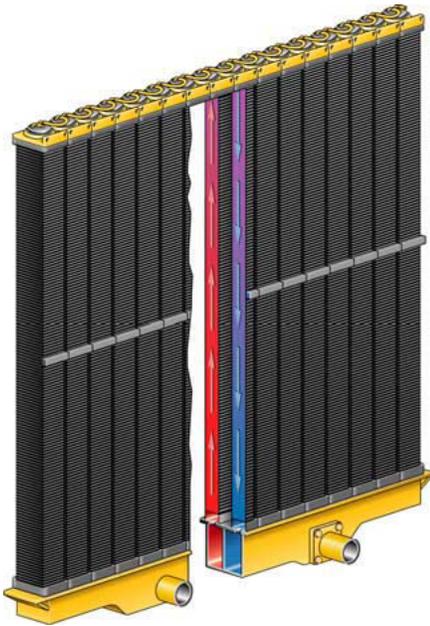
• 19 percent more bearing area allows the engine to operate at the maximum cylinder pressure.

• Higher cylinder pressure capability helps reduce fuel consumption and improves high altitude operation.

• Cylinder head exhaust port sleeves reduce heat rejection which results in less heat transfer into the water jacket system.

2 Separate Engine Cooling System.

Isolates the radiator and fan from the engine compartment for more efficient cooling and allows for a sloped hood for increased viewing.

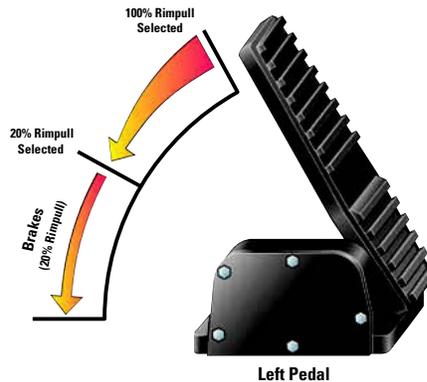


Advanced Modular Cooling System (AMOCs). Improves cooling capabilities by using a parallel flow system with 10 cores. Serviceability is improved with AMOCs as there is no top tank to remove.

3 Electronically Controlled Caterpillar Planetary Power Shift Transmission.

Features perimeter-mounted, large diameter clutch packs that control inertia for smooth shifting and increased component life. It can be recalibrated using the Electronic Technician (ET) Service Tool.

- **Parking Brake.** Is spring-applied, oil-released and dry disc. It is mounted on the transmission transfer gear output shaft. Manual override is possible to allow movement of the machine.



4 Impeller Clutch Torque Converter.

Combined with the Rimpull Control System (RCS) allows the operator maximum flexibility in modulating rimpull.

- The torque converter is equipped with a standard lock-up clutch for direct drive efficiency.
- Improved calibration procedure
- Improved left pedal modulation
- Compensates for wear by providing the ability to recalibrate for optimum left pedal modulation regardless of torque converter wear
- Left pedal control allows the operator to reduce rimpull from 100 percent to 20 percent while maintaining high engine speed for slower work without losing power. After 20 percent, further pedal travel applies the brake.
- RCS allows the operator to select from four preset rimpull settings (low, medium, high and maximum).

5 Heavy-Duty Axles. Feature optional axle oil coolers, permanently lubed universal joints and stronger axle components in both the differentials and final drives for increased performance, serviceability and durability. Conventional differential is standard.

- **Final Drives.** Feature planetary reduction at each wheel. Torque is developed at the wheel, which gives less stress at the axle shafts. The planetary units are oil-

bath lubricated and can be removed independently from the wheels and brakes. Ring gears are splined to the axle housing. Proprietary gear cutting and head treating methods are used in the manufacturing and bronze thrust washers interface with the sun gear/bearing retainer.

- **Free-Floating Axle Shafts.** Can be removed independent of the wheels and planetaries for quick and easy serviceability.

- **Optional Axle Oil Cooling System.**

Features two circuits that circulate oil from the differentials through an oil-to-air cooler and a filter back to the brakes. This system provides increased oil life and improves component performance and durability. The system automatically turns on and off at a preset oil temperature.

6 Axle-Shaft, Oil Disk Brakes. Are adjustment-free, fully hydraulic and completely sealed. Disc face grooves provide cooling, even when brakes are applied, for a long, fade-resistant service life.

- Location of the brakes improves serviceability. The axle-shaft brake design allows brake service while leaving the final drive intact.
- Axle-shaft brakes require less force by operating on the low torque side of the axle. Combined with improved axle oil circulation for increased cooling, the oil-enclosed, multiple-disc brake design improves durability.

- **Service Brakes.** Are four wheel, hydraulic, oil dipped multiple disc brakes that are adjustment-free, completely enclosed and allow modulated engagement without slack adjusters.

- **Secondary Brakes.** Are fully modulated and the front and rear service brake circuits are isolated so one circuit can operate if pressure drops in the other circuit.

Hydraulics

Well-balanced hydraulics deliver precise, low-effort control and trouble-free operation.



1 Electro-Hydraulic Control System.

Increases hydraulic efficiency and enhances operator comfort through low-effort fingertip controls. XT-3 and XT-5 hose combine with reliable components to help reduce the risk of leaks and blowing lines.

2 Blade Control. A floor mounted single-lever, fingertip control for lift/lower/tilt/tip sends electronic signals to a main hydraulic valve positioned outside the cab. This eliminates sound, heat and control effort associated with in-cab hydraulic valve systems.

Tilt/Tip Circuit. Features fingertip control for ease of operation.

Lift circuit features:

- Four positions: raise, hold, lower and float
- Detente hold on float

Case Drain Filtration. The 834G has two case drain filters that protect the steering and fan pumps from contamination with easy access for service.

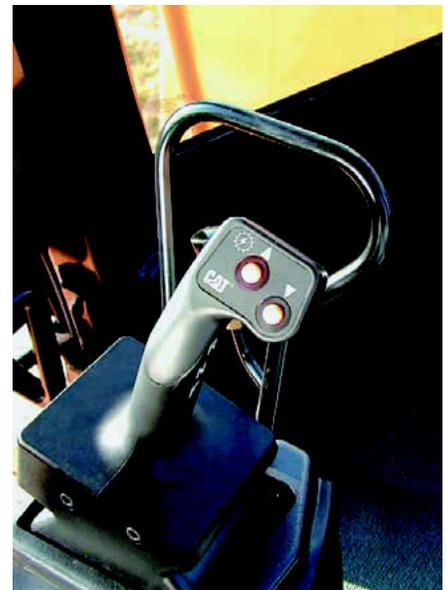
3 Load Sensing Steering. With the STIC control system, integrates steering and transmission into a single controller. The steering system utilizes a variable displacement pump for maximum machine performance by directing power through the steering system only when needed.

Features. Include center-point frame articulation, front and rear wheel tracking and floor-mounted and adjustable armrests for a full range of comfort adjustments.

Caterpillar Monitoring System (EMS-III). Continually monitors various machine systems through three instrument clusters and provides a three-level warning system to alert the operator of immediate or pending problems. It shares information with the engine, hydraulic and transmission controls that can be used during servicing to simplify service and troubleshooting. The Caterpillar Monitoring System allows for new software to be uploaded in the cab.

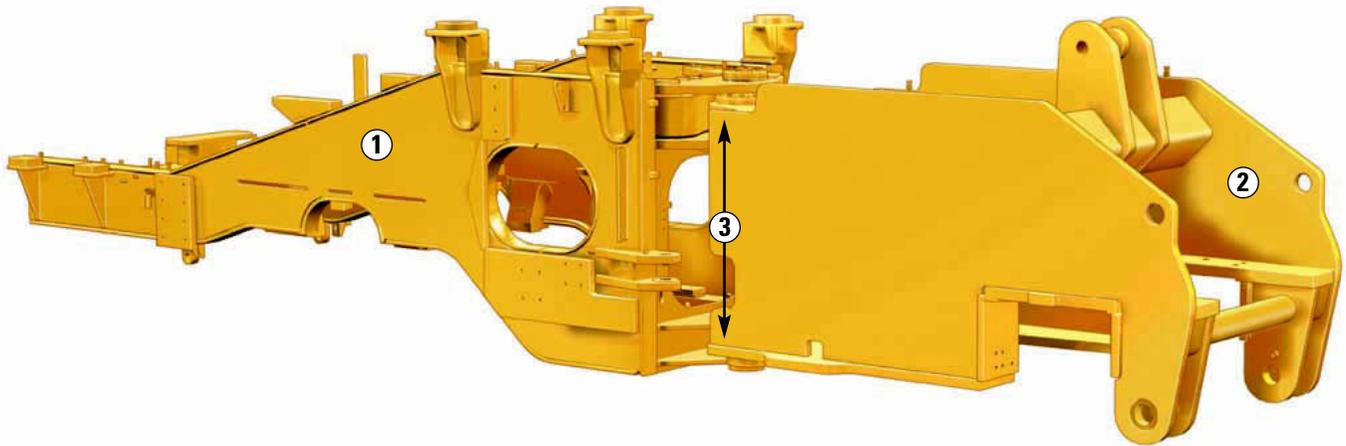


Demand Fan. Is a speed controlled, hydraulic fan that provides maximum cooling efficiency by directing the appropriate amount of power through the fan system based on coolant temperature.



Structures

Advanced design and materials provide superior strength.



Structure Construction. Combines the use of robotic welding on up to 90 percent of the 834G while castings in several areas to increase strength by helping to spread the loads and reduce the number of parts. This provides highly consistent welds with deep plate penetration and excellent plate fusion. The benefit is increased durability and fatigue strength. The computer controlled machining ensures the alignments of pin bore, axle pad, cab mount and transmission/engine components.

1 Box-Section Engine End-Frame.

Is designed to resist twisting and torsional forces and to provide a solid foundation for axles, engine and transmission.

2 Two-Plate Front Frame. Provides maximum structural strength during dozing applications for improved stability.

3 Spread-Hitch Design. Is large and improves load distribution by reducing loads to the hitch bearings. The large center hitch design improves hydraulic line routing and makes service access easier.

Upper and Lower Hitch Pins. Pivot on double-tapered roller bearings. Box-style sections in the hitch pins and cross member assembly improve strength of the frame structure.

Engine and Transmission Mounts. Use a rubber, mushroomed, cup-shaped design to reduce noise and vibration.

Frame Design. Straight side rail design improves torsional strength, shock load absorption and frame alignment. It is specifically designed with fewer parts to improve quality and reliability.

Blades

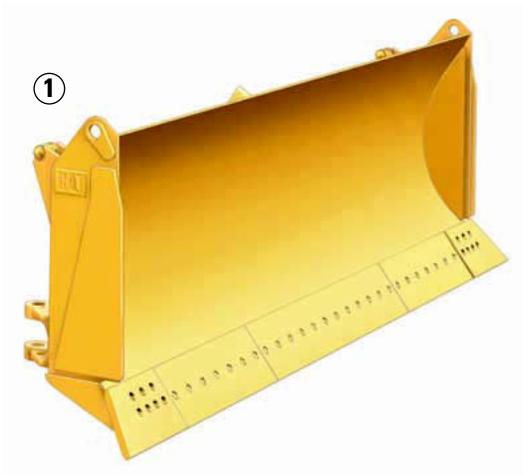
Caterpillar blades are available to match many dozing requirements.

Caterpillar Blades. Are resilient and durable and designed with excellent dozing and rolling characteristics.

- Capacities and widths are set to achieve increased productivity.
- Special design allows for spreading of cover material as well as dozing of heavier loads.

- High-strength, pressed rib construction.
- Large, bolt-on cutting edges are DH-2 steel. End bits are DH-3 to provide maximum service life in tough materials.

- Blades are fitted with Caterpillar standard hardware and Ground Engaging Tools (G.E.T.).
- Cat blades are rebuildable for extended service life.



1 Straight Blade. Is designed for production dozing in stockpiled material and general earthmoving.



3 Coal Blade. Is designed for precise and productive dozing while helping to retain load control with increased capacity for lighter materials. Wing angles help retain the load while dozing.



2 Universal Blade. Is designed for moving large loads over long distances in mining applications.

Assemblies. For the straight blade and universal blade consist of the blade, push arms, hydraulic lift, tip and tilt cylinders, trunnion mounting and hydraulic line guards.

Operator Station

A new industry standard for comfort and efficiency.



World Class Cab. With over 3.18 m³ (112 ft³) of volume incorporates innovations for operator comfort, maneuverability and productivity. Features include outstanding viewing area, improved cab ventilation, interior sound levels below 77 dB(A), standard coat hook, cup holder, storage bin, intermittent wet-arm wipers, room for a large lunch cooler and radio-readiness.

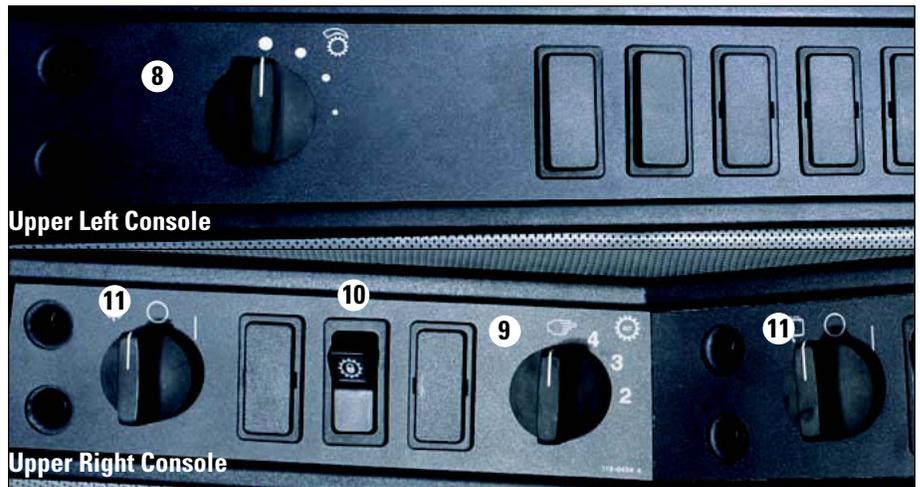
1 STIC Control System. Combines gear selection and steering into one control lever that requires less effort and provides smooth shifting. Side-to-side motions for steering, finger operated direction control and thumb operated buttons for gear selection combine to provide a fluid motion that reduces effort and allows the operator to work the machine for long periods of time with little or no fatigue.

2 Left Pedal. Operates the Impeller Clutch Torque Converter. Within the first one and a half inches of pedal travel, rimpull can be controlled from 100 percent to 20 percent. Fully depressing the pedal applies the brake. The right pedal allows standard braking.

3 Comfort Series Seat. With air suspension and retractable seat belt is designed for increased comfort and support. Seat cushions reduce pressure on the lower back and thighs while allowing increased arm and leg movement.

4 Electro-Hydraulic Blade Controls. Are adjustable fore and aft, with a height-adjustable armrest so operators of any size can find a comfortable position. Single lever control allows operator to control blade functions: lift/lower, tip and tilt.

5 Tilt/Tip Switch. Allows operators to select tilt or tip control for dozing.



6 Caterpillar Monitoring System (EMS-III). Provides information on the machine's major components and systems.

- Gauges display fuel tank level and temperatures for engine coolant, power train and hydraulic oil. The tachometer is an analog gauge with digital readout for gear selection and ground speed.
- The main module consists of ten fault indicators and one display panel. Alerts occur for engine oil pressure, parking brake status, brake oil pressure, charging system, coolant flow status, hydraulic filter status, steering pressure, axle oil temperature, engine overspeed, machine hours, digital engine speed, odometer and faults.
- Alerts the operator if transmission is engaged while parking brake is applied or if pressure drops, the brake is applied.

7 Throttle Lock. Allows the operator to pre-set the engine speed for a variety of applications, resulting in faster cycle times and increased productivity.

8 Rimpull Control System (RCS). Has four factory preset rimpull settings (low, medium, high and maximum) to better match ground conditions.

9 Autoshift. Allows the operator to set the maximum gear into which the transmission will be allowed to shift. This feature allows additional comfort and focus on the job. The switch also offers a manual position for operator controlled shifting.

10 Lock-Up Clutch Torque Converter Switch. Activates lock-up clutch for direct drive efficiency.

11 Front and Rear Window Wiper/Washers. Are within easy reach to maintain a clear field of vision.

12 Viewing Area. Is improved with a bonded front windshield that eliminates distracting metal frames for excellent bucket and work site visibility. An internal ROPS improves peripheral viewing by eliminating the large structure outside the cab.

13 Electro-Hydraulic Lock-Out Switch. Disables hydraulic controls.

Serviceability

Simplified service means more production time.



Easy Maintenance. In addition to the servicing features built into the engine, the 834G includes:

- **Rear Access Stairs and Standard Left-Hand Stairway.** For easy, comfortable access for operators and service personnel.

- **Large Engine Access Doors.** Provide excellent access to service points: engine oil dipstick, diagnostic connector, engine oil and fuel filters, starting receptacle, air filter indicator, air filters, fuel/water separator and the ether starting aid cartridge.

- **Service Platform.** Provides passage to the hydraulic filter through easy-to-open doors.
- **Large Door.** Provides entrance to the transmission and pumps when service is required.
- **Platform Door.** Provides access to fuses and electronic control modules.
- **Batteries.** Are accessible through hinged doors in the bumper.
- **Caterpillar Monitoring System (EMS-III).** Allows for flashable software.
- **Side Access Doors.** On the radiator guard provide easy access for radiator cleanout.
- **Lube Points.** Are grouped, labeled and accessible at ground level to make daily lube maintenance quick and easy.
- **Sight Gauges.** In the hydraulic tanks and radiator provide quick fluid level checks.
- **Ground Level Engine Shut-Off.** And electrical disconnect switches are standard.
- **Oil Change Interval.** 500 hours with CH-4 oil.
- **Brakes.** With axle-shaft design that allows service while leaving the final drive intact.

Customer Support

Cat dealer services help keep machine operating longer with lower costs.

Machine Selection. Make detailed comparisons of the machines under consideration before purchase. Cat dealers can estimate component life, preventative maintenance cost and the true cost of lost production.

Purchase. Look past initial price. Consider the financing options available as well as the day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements. Cat dealers offer a variety of product support agreements and work with you to develop a plan that best meets specific needs. These plans can cover the entire machine, including work tools, to help protect your investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers use a world-wide computer network to find in-stock parts to minimize machine down time. Save money with genuine Cat Remanufactured parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Operation. Improving operating techniques can boost profits. Your Cat dealer has training videotapes, literature and other ideas to help increase productivity.



Maintenance Services. More and more equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S·O·SSM and Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealers can help you evaluate the costs involved so you can make the right choice.

Engine

Engine Model	Cat 3456 Diesel	
Gross Power	392 kW	525 hp
Flywheel Power	359 kW	481 hp
Direct Drive Net Power - Caterpillar	336 kW	451 hp
Direct Drive Net Power - EEC 80/1269	336 kW	451 hp
Direct Drive Net Power - ISO 9249	336 kW	451 hp
Direct Drive Net Power - SAE J1349 (JAN90)	333 kW	446 hp
Converter Drive Net Power - Caterpillar	359 kW	481 hp
Converter Drive Net Power - EEC 80/1269	359 kW	481 hp
Converter Drive Net Power - ISO 9249	359 kW	481 hp
Converter Drive Net Power - SAE J1349 (JAN90)	355 kW	477 hp
Bore	140 mm	5.5 in
Stroke	171 mm	6.75 in
Displacement	15.8 L	966 in ³

- These ratings apply at 1,900 rpm when tested under the specific standard conditions for the specified standard.
- Power rating conditions based on standard air conditions at 25° C (77° F) and 99 kPa (29.32 in Hg) dry barometer, using 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30° C (86° F) [reference a fuel density of 838.9 g/L (7.001 lb/gal)].
- Net power advertised is the power available (at the flywheel) when the engine is equipped with air cleaner, muffler, alternator and hydraulic fan drive.
- No derating required up to 2286 m (7,500 ft) altitude.
- Engine is Tier 2 emissions compliant.

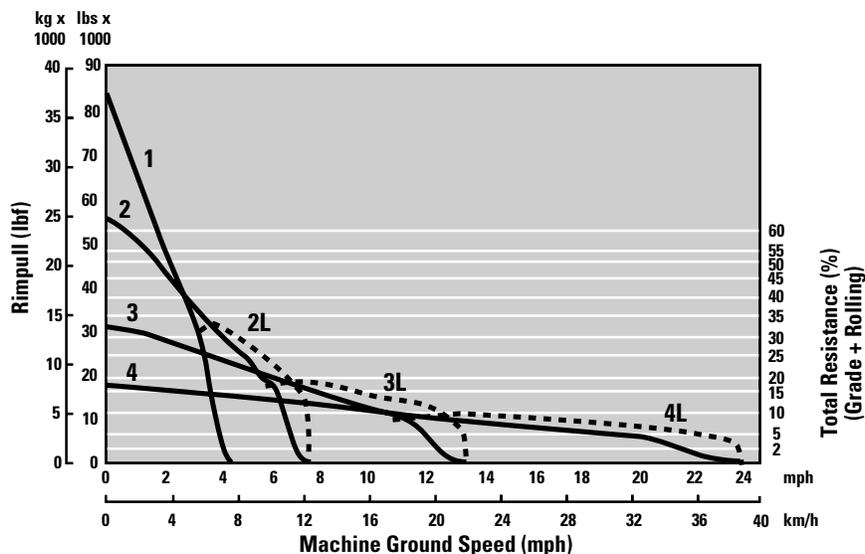
Transmission

Number of Forward Speeds	4	
Number of Reverse Speeds	3	
Converter Drive - Forward 1	6.7 kph	4.2 mph
Converter Drive - Forward 2	11.8 kph	7.3 mph
Converter Drive - Forward 3	20.6 kph	12.8 mph
Converter Drive - Forward 4	35.8 kph	22.3 mph
Converter Drive - Reverse 1	7 kph	4.4 mph
Converter Drive - Reverse 2	12.3 kph	7.7 mph
Converter Drive - Reverse 3	21.6 kph	13.4 mph
Direct Drive - Forward 1	Lock-up Disabled in Forward 1	
Direct Drive - Forward 2	12.3 kph	7.7 mph
Direct Drive - Forward 3	21.9 kph	13.6 mph
Direct Drive - Forward 4	38.7 kph	24.1 mph
Direct Drive - Reverse 1	7.2 kph	4.5 mph
Direct Drive - Reverse 2	12.9 kph	8 mph
Direct Drive - Reverse 3	23 kph	14.3 mph

- Travel speeds based on two percent rolling resistance and 35/65-33 L-4 tires.

Hydraulic System

Gear pump output at 1,900 rpm and 24,000 kPa (3,480 psi)	188 L/min	49.7 gal/min
Lift cylinder, bore and stroke	139.75 mm x 1021 mm	5.5 in x 40.2 in
Steering cylinder, bore and stroke	114.3 mm x 740 mm	4.5 in x 29.1 in
Right tilt and tip, bore and stroke	152.4 mm x 276 mm	6 in x 10.9 in
Left tilt and tip, bore and stroke	139.75 mm x 276 mm	5.5 in x 10.9 in
Relief valve setting	29 000 kPa	4,206 psi



Brakes

Brakes	Meet SAE/ISO 3450 1996
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Axles

Front	Fixed axle
Rear	Oscillating $\pm 13^\circ$
Maximum single-wheel rise and fall	448.3 mm 17.6 in

Steering

Steering	Meets SAE J1511 FEB94/ISO 5010:1992 standards
Turning radius with straight blade	8899 mm 29.2 ft

Tires

Standard Tire Size	
Tires	Four choices with others on request.

- 35/65-33 L-4
- 35/65-33 L-5
- 35/65 R33 L-4
- 35/65 R33 L-5
- Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. Other special tires are available on request.

Weights

Operating Weight	47 106 kg	103,849 lb
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Service Refill Capacities

Fuel Tank - standard	795 L	210 gal
Cooling system	94 L	25 gal
Crankcase	60 L	15.9 gal
Transmission	72 L	19 gal
Hydraulic tank	140 L	37 gal
Differentials and final drives – Front	186 L	49.1 gal
Differentials and final drives – Rear	186 L	49.1 gal

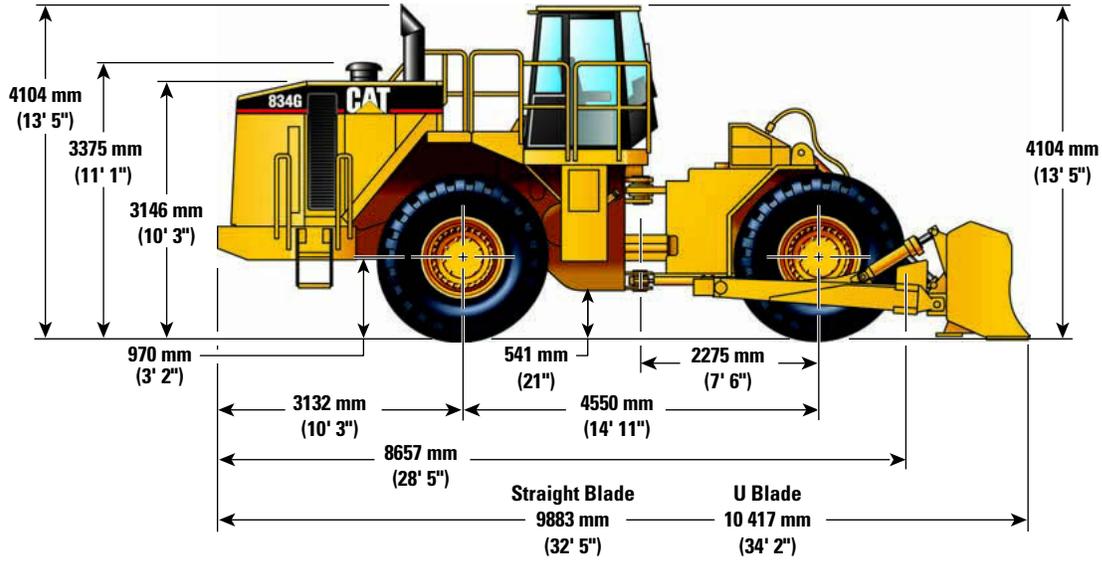
Cab

Cab	ROPS/FOPS is standard.
Sound Performance Levels	Meets ANSI/SAE, SAE and ISO standards.
ROPS/FOPS	Meets SAE and ISO standards.

- Integrated Rollover Protection Structure (ROPS) and Falling Object Protection System (FOPS) is standard.
- Standard air conditioning system contains R-134A refrigerant.
- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 77 dB(A) for the cab offered by Caterpillar when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 meters (49.2 ft) according to the test procedures specified in SAE J88 JUN86, mid-gear-moving operation is 82 dB(A).
- The sound power level is 115 dB(A) measured according to the dynamic test procedure and conditions specified in ISO 6395:1988/Amd.1:1996 for a standard machine configuration.
- For “CE” marked configurations, the labeled sound power level is 113 dB(A) measured according to the test procedures and conditions specified in 2000/14/EC.
- ROPS meets SAE J1394, SAE J1040 APR88, ISO 3471-1:1986 and ISO 3471:1994.
- FOPS meets SAE J231 JAN81 and ISO 3449-1992 LEVEL II.

Dimensions

All dimensions are approximate.



Blade Specifications

Blade Type	Capacity	Overall Width	Height	Digging Depth	Ground Clearance	Maximum Tilt	Weight	Total Operating Weight
Straight Blade	7.90 m ³	5074 mm	1461 mm	557 mm	1279 mm	1270 mm	3196 kg	47 106 kg
	10.33 yd ³	199.8 in	57.5 in	21.9 in	50.4 in	50.0 in	7,047 lb	103,849 lb
Universal Blade	11.13 m ³	5151 mm	1461 mm	557 mm	1279 mm	1270 mm	4554 kg	48 464 kg
	14.56 yd ³	202.8 in	57.5 in	21.9 in	50.4 in	50.0 in	10,042 lb	106,844 lb
Coal Blade	22.2 m ³	5677 mm	1956 mm	465 mm	1178 mm	1482 mm	4290 kg	48 195 kg
	29.0 yd ³	223.5 in	77.0 in	18.3 in	46.4 in	58.3 in	9450 lb	106,252 lb

Standard Equipment

Standard equipment may vary. Consult a Caterpillar dealer for specifications.

Electrical

- Alarm, back-up
- Alternator (100-amp)
- Batteries, maintenance-free
- Deutsch terminal connectors
- Diagnostic connector, starting and charging systems
- Electrical converter (12-volt)
- Electrical system (24-volt)
- Lighting system, halogen (front and rear)
- Starter, electric (heavy-duty)
- Starting receptacle for emergency start

Operator Environment

- Air conditioner
 - Cab, sound suppressed pressurized
 - Internal four-post Rollover Protection Structure (ROPS)/Falling Object Protection Structure (FOPS)
 - Radio (entertainment) ready includes antenna, speakers, converter (12-volt, 5-amp)
- Cigar lighter and ashtray
- Coat hook
- Heater and defroster
- Horn, electric
- Hydraulic controls (floor mounted)
- Light, dome (cab)
- Lunchbox and beverage holders
- Monitoring system (Caterpillar Monitoring System [EMS-III])
 - Action alert system, three-category
- Instrumentation, gauges:
 - Engine coolant temperature
 - Fuel level
 - Hydraulic oil temperature
 - Torque converter temperature
- Instrumentation, warning indicators:
 - Axle oil temperature
 - Brake oil pressure
 - Coolant flow status
 - Electrical system, low voltage
 - Engine oil pressure
 - Engine overspeed
 - Hydraulic filter status
 - Parking brake status
 - Steering oil pressure
 - Transmission filter status
- Mirror, rearview (externally mounted)
- Seat, Cat Comfort (cloth) air suspension
- Seatbelt, retractable, 76 mm (3 in) wide
- STIC control system with steering lock
- Tinted glass
- Transmission gear (indicator)
- Wet-arm wipers/washers (front and rear)
 - Intermittent front wiper

Power Train

- Brakes, full hydraulic, ADEM™ III, enclosed, wet multiple disc service brakes
 - Engine, Cat 3456 EUI direct injected diesel
 - Full priming pump
 - Muffler, under hood
 - Parking brake
 - Precleaner, engine air intake
 - Radiator, Advanced Modular Cooling System (AMOCS)
 - Rimpull control
 - Separated cooling system
 - Starting aid (ether)
 - Throttle lock
 - Torque Converter, Impeller Clutch with lock-up control system
 - Transmission, planetary, auto-shift (4F/3R)
- ### Other Standard Equipment
- Cab tilt support
 - Demand fan
 - Doors, service access (locking)
 - Engine, crankcase, 600-hour interval with CH-4 oil
 - Hitch, drawbar with pin
 - Oil sampling valves
 - Stairway, left side (rear access)
 - Vandalism protection and caplocks
 - Venturi stack
- ### Bulldozer
- Bulldozer is not included in the standard equipment
- ### Hydraulics
- Hydraulic oil cooler
 - Case drain filtration
- ### Tires, Rims and Wheels
- A tire must be selected from the mandatory attachments section and base machine price includes a tire allowance
- ### Antifreeze
- Premixed 50 percent concentration of Extended Life Coolant with freeze protection to -34° C (-29° F)

Mandatory Attachments (select one from each group)

Mandatory and optional equipment may vary. Consult your Caterpillar dealer for specifics.

ELECTRICAL			SOUND SUPPRESSION ARRANGEMENTS		
Lighting, standard	0 kg	0 lb	No suppression arrangement	0 kg	0 lb
Lights, directional	2 kg	5 lb	Sound suppression arrangement	93 kg	206 lb
POWER TRAIN			HYDRAULICS		
Fuel Systems			Steering Systems		
Fuel arrangement	0 kg	0 lb	Steering, standard	0 kg	0 lb
Fuel, fast fill	4 kg	8 lb	Steering, secondary	14 kg	30 lb
Heater, fuel	4 kg	8 lb	Filtration Systems		
Fuel, fast fill with heater	7 kg	16 lb	Filtration, standard	0 kg	0 lb
Engines			Filtration, case drain	5 kg	12 lb
Engine, standard	0 kg	0 lb	ACCESS STAIRS AND FENDER ARRANGEMENTS		
Engine, Jake Brake	4 kg	8 lb	Stairway, standard	0 kg	0 lb
ACCESS STAIRS AND FENDER ARRANGEMENTS			Stairway and fenders	312 kg	687 lb

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

ELECTRICAL			MISCELLANEOUS ATTACHMENTS		
Lights, auxiliary package	2 kg	4 lb	Oil change, high speed	4 kg	8 lb
GUARDS			Precleaner, turbine/trash	14 kg	30 lb
Guards, crankcase	53 kg	117 lb	ANTIFREEZE		
Guards, hydraulic tank	8 kg	18 lb	Coolant, ext life -50°C (-58° F)	0 kg	0 lb
OPERATOR ENVIRONMENT			BULLDOZERS		
Wiper, intermittent rear	9 kg	2 lb	Note: Contact CWTS for coal blade option		
Visor, front	5 kg	10 lb	Bulldozer AR, no blade	4267 kg	9408 lb
Mirror, internal (panoramic)	5 kg	11 lb	Bulldozer AR, straight blade	7348 kg	16,200 lb
POWER TRAIN			Bulldozer AR, U-blade	9251 kg	20,394 lb
Differential, No-SPIN, rear	5 kg	11 lb			
Cooler, axle oil	183 kg	403 lb			
STARTING AIDS					
Heater, engine coolant	2 kg	4 lb			
Heater, 220-volt	1 kg	3 lb			

Notes

834G Wheel Dozer

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Featured machines in photos may include additional equipment.
See your Caterpillar dealer for available options.

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