824G Series II

Wheel Dozer

Engine		
Engine Model	Cat® 3406E ATAAC Diesel	
Gross Power	283 kW	380 hp
Flywheel Power	253 kW	339 hp
Weights		
Operating Weight	28 724 kg	63,325 lb
Blade Specifications		
Blade Capacities	4.67 m^3	6.11 yd^3

824G Series II Wheel Dozer

Representing a long-standing commitment to quality and performance, this rugged, powerful machine is designed and built for tough applications.

Power Train

✔ The Cat 3406E diesel engine with EUI delivers increased power and combined with Electronic Clutch Pressure Control, planetary power shift transmission and heavy-duty final drives and axles, offers superior performance, durability and reliability in the toughest conditions. **pg. 4**

Hydraulics

Innovative hydraulics play a key role in performance and low operator effort with increased flow rate resulting in faster hydraulics. XT-3™ and XT-5™ hose, O-ring face seals and large bore cylinders carry on the tradition of reliable, high-performance Caterpillar® hydraulics. **pg. 6**

Blades

Designed for general production, dozing, road grading and cleanup work. **pg. 7**

Complete Customer Support

Your Cat dealer is your single, safe source for all your equipment needs. They offer a wide range of services that will fit your operation and keep you working longer with lower cost. **pg. 14**

The Power of One...
One manufacturer...
One dealer...
One source for all your warranty, parts and service needs.

The 824G Series II wheel dozer was conceived and designed to surpass any competitor with exciting innovations that exceed customer expectations for performance, reliability and operator comfort.

Operator Station and Controls

✔ Experience a high level of productivity through Command Control steering with integrated transmission controls, fingertip blade controls, a large viewing area and spacious operator station. **pg. 8**

Serviceability

✔ Many convenient service features such as hinged service doors, accessible scheduled maintenance points, conveniently located sight gauges and a separated cooling system make servicing easy. **pg. 10**

New and Optional Features

Counterweight, roading fenders, sliding cab windows and new floodlights are available to enhance the 824G Series II. **pg. 12**

✔ *New Feature*

Power Train

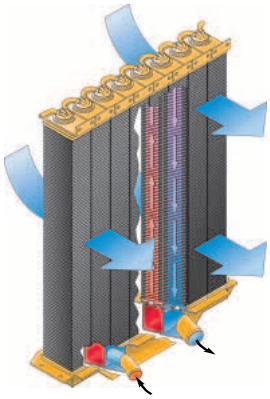
Delivers top performance and durability in tough applications.

Caterpillar 3406E Engine. Is a six-cylinder, turbocharged, air-to-air aftercooled (ATAAC), Electronic Unit Injection (EUI) engine and one of the most developed and proven engines offered by Caterpillar. It has a strong reputation for reliability, durability and performance.

- The 3406E delivers a full-rated net power of 283 kW (380 hp). High torque rise delivers performance you can feel, resulting in more rimpull, greater lift force and faster cycle times.
- The four stroke engine delivers fuel economy, durability and reliability in the most demanding conditions. Improved intake and combustion chamber designs help meet the latest emission standards.
- Resilient engine mounts dampen vibration for lower sound levels.
- Meets U.S. Environmental Protection Agency Tier 2 emissions regulations and Stage II EU Emissions Directive 97/68/EC.

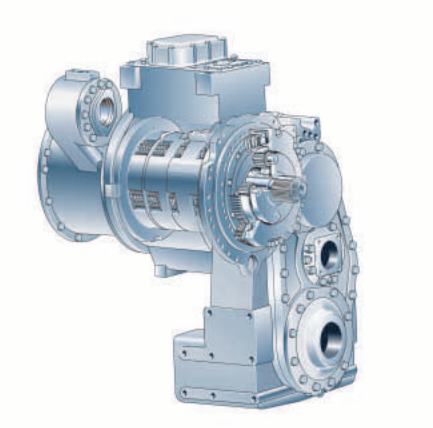
Engine Lubrication. Engine lubricating oil is both filtered and cooled and supplied by a gear-type pump.

Electronic Unit Injector (EUI). Is a high-pressure, direct injection fuel system that is virtually adjustment-free. It electronically monitors operator and sensor inputs to optimize engine performance.



Advanced Modular Cooling System (AMOCS). The G-Series II cooling system has been upgraded to the Advanced Modular Cooling System (AMOCS). It is a Caterpillar technology that improves serviceability. The brass tubes on the AMOCS are straight and in-line, along with nine fins per inch, making the radiator easy to keep clean. The tubes are welded to a large, thick header, providing the strength of the tube-header joint, reducing the possibility of coolant leaks. This larger cooling system is designed for better cooling capability.

ADEM™ III Electronic Control Module. Along with the Caterpillar Monitoring System controls all major engine functions and regulates the timing, duration and pressure of the injected fuel. ADEM III also offers automatic altitude compensation, a cold mode start-up strategy and oil pressure and coolant warnings which result in precise engine speed control, superior cold start capability, low smoke and emissions in all operating conditions.



Transmission. The Caterpillar extreme duty planetary, powershift transmission features heavy-duty components to handle the toughest jobs. The 432 mm (17 in), four planet drives operate in all gears, forward and reverse. Electronic controls provide features to enhance productivity, durability and serviceability. The addition of the Electronic Clutch Pressure Control (ECPC) contributes to improved shift quality, reduced torque spikes and overall transmission durability. Control Throttle Shift (CTS) provides smoother shifts and improves clutch and power train life.

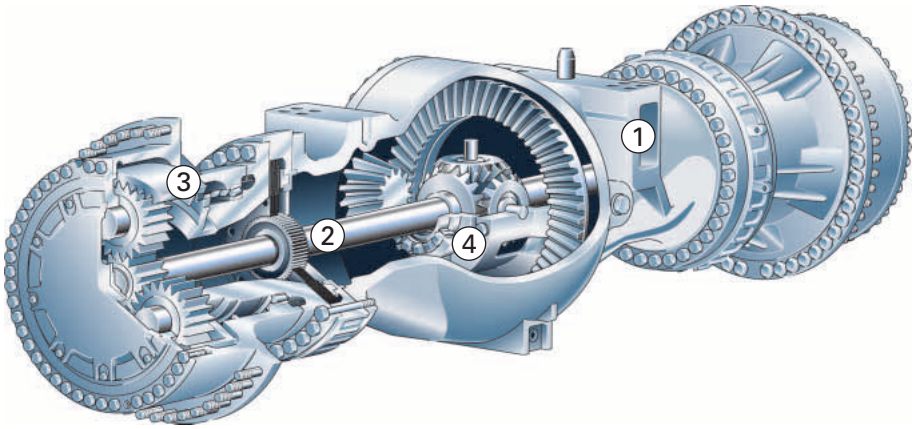
Torque Converter. The torque converter uses a high-capacity impeller to handle the engine's increased torque rise (28 percent) and power.

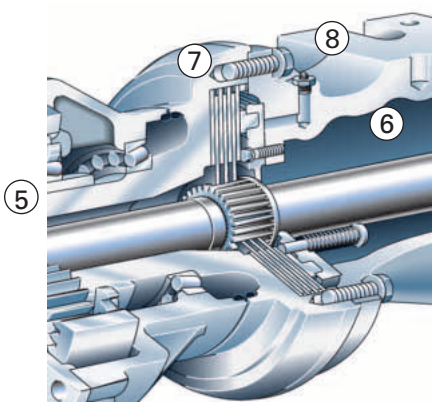
(1) Heavy-Duty Axles. Are fixed on the front and oscillating ±13 degrees on the rear. They feature strong gears and bearings in both the differentials and heavy-duty final drives for increased durability. Permanently lubricated, maintenance-free U-joints result in fewer parts and improved serviceability. Free-floating axle shafts can be removed independently from the wheels and planetary final drives.

Gears and (2) Shafts. Large, shot-peened gears and increased bolt capacity improve the durability of the standard differentials. Axle shafts are stronger and feature more splines to help spread the load.

Spindles and (3) Final Drives. Reduce the number of parts and greatly improve serviceability, allowing easier access to the duo-cone seals without removing the center housing from the machine. Planetary units can be removed independently from the wheels and brakes. The final drives feature planetary reduction at each wheel, and with torque developed at the wheel, less stress is placed on the axle shafts.

(4) Differentials. Are conventional in the front and optional No-SPIN on the rear deliver maximum traction in low traction or inconsistent ground conditions.





5) Oil-Enclosed, Multiple Disc Brakes. Feature fewer parts, better heat rejection and improved serviceability. Fully hydraulic actuator circuits improve performance and reliability.

- Brakes operate on the low torque side of the final drive, requiring less force, resulting in less heat buildup.
- Improved axle oil circulation **(6)** provides additional cooling to the **(7)** brake discs. A combination of thicker reaction plates and improved cooling improve durability.
- Fewer parts and brake disc location improve serviceability by allowing technicians to remove the spindle, final drive and brake pack as one unit without disturbing the wheel bearings.
- Internal brake lines increase reliability and performance.

(8) Service Brakes. Are completely enclosed and located on the two front wheels. The service brakes are also self-adjusting with modulated engagement and are designed for easy servicing. With two brake pedals, the right pedal controls standard braking while engine deceleration and braking occurs with the left pedal.

Parking Brake. Is a spring-applied, oil-released, dry drum design. It is mounted on the transmission output shaft driveline for manual operation. The Caterpillar Monitoring System alerts the operator if the transmission is engaged while the parking brake is applied.

Secondary Brake. Can be applied manually by the operator. In addition, the Caterpillar Monitoring System alerts the operator if pressure drops and will automatically apply the parking brake.

Hydraulics

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

Positive-Displacement Hydraulic Pumps. Perform with high efficiency and great reliability. For improved serviceability, all hydraulic pumps are mounted on a single pump drive.

XT-3 and XT-5 Hose. Along with O-ring face seals and a large capacity lift cylinder top off the hydraulic system, delivering the performance and durability owners expect. Reliable components reduce the risk of leaks and blown lines, helping protect the environment and reducing operating costs.

Dozer Front Frame. Built specifically to handle greater amounts of rimpull, the machine can readily push its weight plus the weight of the material for long distances in heavy dozing applications.

Hydraulic System. Provides low-effort blade control. Seat-mounted levers send electrical signals to a pilot valve mounted on the front frame. This moves the sound, heat and effort caused by a hydraulic valve out of the operator's station.

Command Control Steering. A mechanical feedback system combines with valve ratio to provide quarter-turn, side-to-side steering. Unlike systems that rely on steering wheel velocity to activate steering cylinders, this system directly links steering wheel position to articulation. The speed the machine turns is proportional to the steering wheel position. The benefit is precise control, quicker response and dramatically reduced operator motion and effort.

Hydraulic Power Steering. Features center-point frame articulation that permits the front and rear wheels to track. Hydraulic power is a flow-amplified system, with full-flow filtering. The steering wheel operated pilot valve controls flow to the steering cylinders. The steering angle is ±42 degrees.

Load Sensing Steering. Maximizes machine performance by directing power to the steering system only when the operator steers the machine. This allows more power to be applied to the ground when the machine is not being steered. It also helps decrease fuel consumption because the steering system does not constantly draw on the engine.

Blades

Multiple box-section construction with heat treated moldboard and DH-2 steel edges and end bits contribute to long life.

Straight Blade. Is standard on the 824G Series II.

Operator Controls. Lift, tilt and tip are standard. The controls are located in a convenient location to the right of the operator.

Applications. The 824G Series II excels at high production dozing and spreading fill, backfilling, stockpiling, charging hoppers, maintaining haul roads and cleaning up around job sites.

Blade Options. Contact Caterpillar Work Tools and Services or the price list for additional blade options which include:

- Coal blade - can increase coal capacity up to 50 percent per cycle over standard U-blades.

- Woodchip U-Blade - with a unique wing configuration provides aggressive side setting into the chip pile, quickly knocking down stacked chips and loading the blade.
- Extreme Service U-Blade - is designed for moving large loads over long distances in harsh conditions.

Operator Station and Controls

Ergonomically designed for operator comfort with low-effort controls increases efficiency and productivity.

Right and Left Rear-Hinged Doors. Provide a walk-though operator's station. Both doors can be fully opened and latched for easy entry and exit.

Sound Levels. A thick, non-metallic floor, along with outside the cab hydraulics and a separated cooling system contribute to a quiet work environment.

Viewing Area. Is greater due to the internal ROPS and bonded front glass that eliminates distracting metal frames. The angled hood and larger windows allow operators to see objects closer to the machine.

Caterpillar Comfort Series Seat. Provides comfort and support with six-way adjustment. The seat cushions reduce the pressure on the lower back and thighs, while offering unrestricted arm and leg movement. Air suspension adds to the overall comfort level by smoothing the ride over rough terrain.

Blade Control Pod and Joystick . Is ergonomically designed. The pod is situated at an 18 degree angle for natural wrist positioning. The controller offers a sturdy handle for multiple hand positions. The actuation button for the blade tip function is located on the joystick, providing total blade control.

Storage Space. With room for a lunch cooler, thermal bottle, cup and other personal items. There is also a coathook.

Radio-Ready. Includes 12-volt converter, speakers, antenna, all wiring and brackets for communications or entertainment radio installation.

Caterpillar Monitoring System. Provides four gauges on the left side of the dash monitoring fuel level; engine coolant, hydraulic oil and transmission oil temperatures. The center panel contains the tachometer/speedometer. The right side panel contains a three-level warning system, providing full-time monitoring of key functions. The system alerts the operator of immediate or impending problems with air inlet temperature, brake oil pressure, electrical system low voltage, engine oil pressure, engine overspeed, fuel filter status, parking brake status, steering oil pressure and transmission filter status.

12 Volt Power Supply. Is provided inside the cab for powering radios, telephones or a laptop computer. A laptop can run Electronic Technician (ET) software to access the enhanced engine, transmission and blade control system diagnostics.

Service Brakes. Offer standard braking with the right pedal. The brakes are completely enclosed and located on the two front wheels with stopping capability provided to all four wheels through full-time, all-wheel driveline. They are self-adjusting with modulated engagement.

Decelerator Pedal. Provides engine deceleration for the first 50 percent of travel and then the brake engages. This left pedal enables the operator to slow down when the throttle lock is engaged and to return to throttle lock without pressing a button.

Throttle Lock. Allows the operator to preset the engine speed for operator and machine efficiency (similar to cruise control on an automobile).

Air Conditioning. Uses blended air for immediate temperature changes, clears windows with ease and improves operator comfort. The system is located behind the operator's seat and uses R134a refrigerant.

Ventilation Ducts and Vents. Provide more air flow to the operator and windows. Post-mounted vents direct air to the rear window.

Serviceability

If maintenance is simple and accessible, it gets done.

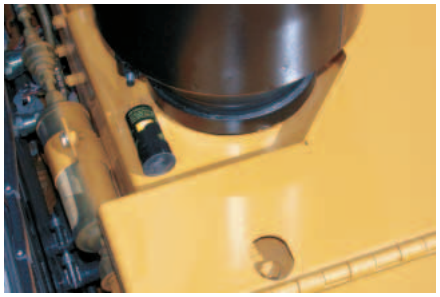
Caterpillar Monitoring System. Provides diagnostics that allow technicians to review a machine's operation and quickly troubleshoot problems. Operating parameters, diagnostic codes and out-of-range gauge readings are displayed through the diagnostic connector. There are also pressure taps for easy hydraulic system checks.

Service Access. Scheduled maintenance points are well within reach. A remote grease fitting is provided to lubricate the lift cylinder yoke. Removable treadplates in the platform give access to less commonly serviced components.

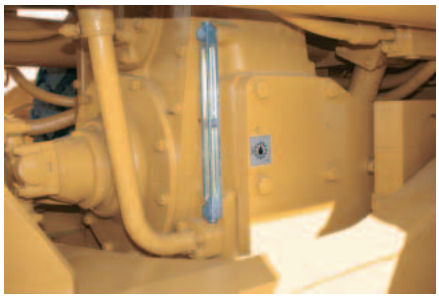
Daily Maintenance. Lockable ground level service doors give quick access to engine oil fill and dipstick, coolant sight gauge (above), rear frame grease fittings, relay panel and electrical breakers.

All four maintenance-free batteries are secure in a built-in battery box in the right rear frame. U-joints are lifetime lubricated, leaving the slip joint as the only driveline component needing grease.

Filter Access. Is from the left platform for the primary filter, while the engine oil filter is accessed from the right platform.



Air Filter Restriction Sight Gauge. Is visible from the cab or platform.



Transmission Oil Fill Tube. Is located beneath the platform area and the transmission oil dipstick has a sight gauge next to the fill tube for easy maintenance.

500 Hour Oil Change Interval. Increases uptime and production by doubling the time between oil and filter changes without requiring increased oil sump capacity.

Separated Cooling System. Isolates the fan and radiator away from the engine for a quieter running machine. AMOCS reduces radiator repair time. The new metal engine enclosure is completely redesigned for greater durability and to provide easy access for daily maintenance and inspection.

Hinged Hydraulic Oil Cooler. Can be swung open 30 degrees without special tools.

Hinged Air Conditioning Condenser. Swings open 30 degrees, and coupled with the swing out oil cooler allows the cooling system to be cleaned quickly and easily.

Operator Station. Can be removed or replaced in about 45 minutes without having to disconnect hydraulic lines. Quick disconnect couplings allow fast disconnect of the air conditioning unit without releasing refrigerant.

Engine Shutdown Switch. Is located inside the left radiator screen door for simple access and extended switch life.

Bolt-on Bumper. Improves the angle of departure from 18 degrees to 20 degrees by shortening the overall machine length.

Battery Box. Is located in the right side bumper for convenient access to the maintenance-free batteries.

Tool Box. Is located in the left side bumper for additional protection against harsh work environments.

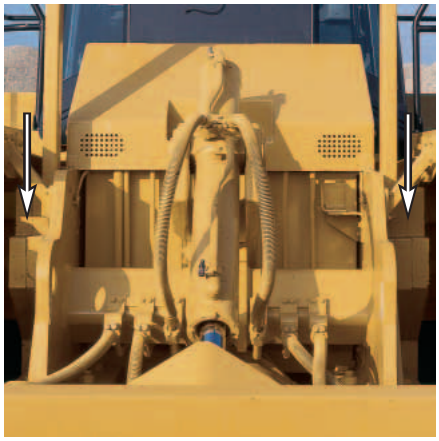
New and Optional Features

Available options augment the 824G Series II to meet your needs.

New Steel Front Fenders. Are standard and replace previous non-metallic fenders. They are full-width and provide increased durability.

New Full Coverage Fenders. Were redesigned to be used with the new all-metal hood (engine enclosure) and bolt-on bumper and to offer better reliability while maintaining the same tire coverage and clearance. The front fenders (above) extend beyond the outermost surface of the machine to prevent mud from splattering the front and side windows and to keep rocks from flying into window glass. The optional full coverage fender package includes front fenders with mud flaps.

Full Coverage Rear Fenders. Extend to the bumper, along with a rear rubber (lateral) fender extension to ensure the entire tire width is covered.



Optional Counterweight. Is located on either side of the front frame. For each specific application there is a correct machine weight for proper balancing of traction, floatation, mobility and response. Lower machine weight is usually required for typical second gear applications such as fill spreading, stockpiling, road maintenance, towing implements and shovel cleanup. Higher machine weight is usually required for such typical first gear applications as heavy dozing and pushloading.

Optional Sliding Cab Windows. Are located in the right and left doors to provide access to outside air without opening the door.

Floodlights. Located on the 824G Series II exterior are super damp and will last up to seven times longer than previous lights. An auxiliary light package with four additional lights on top of the cab (two facing forward and two facing rearward) is available.

Complete Customer Support

Caterpillar dealers are the equipment experts.

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 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 customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers use a worldwide computer network to find in-stock parts to minimize downtime. Save money with genuie Cat Reman 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 your profits. Your Cat dealer has training video tapes, literature, application and equipment training courses and other ideas to help you increase productivity.

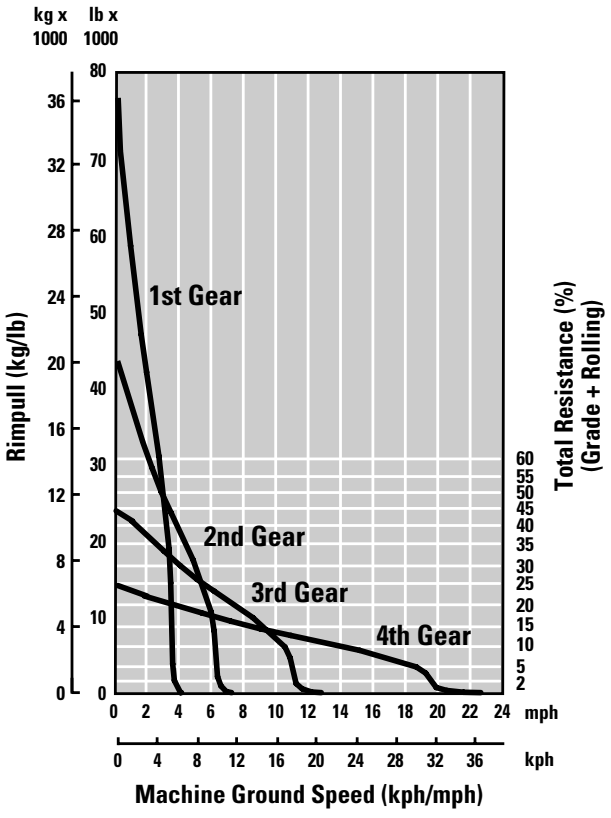
Maintenance Services. More equipment buyers are planning for effective maintenance before buying equipment. Choose from your dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S·O·S^{SM}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

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

Engine

Engine Model	Cat 3406E ATAAC Diesel	
Gross Power	283 kW	380 hp
Flywheel Power	253 kW	339 hp
Net Power - EEC 80/1269	253 kW	339 hp
Net Power - ISO 9249	253 kW	339 hp
Net Power - SAE J1349 (JAN90)	253 kW	339 hp
Net Power - DIN 70020	327 PS	
Bore	137 mm	5.4 in
Stroke	165 mm	6.5 in
Displacement	14.64 L	893 in^3
Torque Rise	28 %	

- Power rating conditions based on standard air conditions of 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.
- Meets U.S. Environmental Protection Agency Tier 2 emissions regulations and Stage II EU Emissions Directive 97/68/EC.



Transmission

Number of Forward Speeds	4	
Number of Reverse Speeds	4	
Forward 1	6.1 kph	3.8 mph
Forward 2	10.5 kph	6.5 mph
Forward 3	18.3 kph	11.4 mph
Forward 4	32.1 kph	20 mph
Reverse 1	6.9 kph	4.3 mph
Reverse 2	12 kph	7.5 mph
Reverse 3	20.8 kph	13 mph
Reverse 4	36.6 kph	22.7 mph

Hydraulic System

Vane pump output at 2000 rpm and 6900 kPa (1000 psi)	93 L/min	24.5 gal/min
Lift cylinder, bore and stroke	120.65 mm x 915 mm	4.75 in x 36 in
Steering cylinder, bore and stroke	114.3 mm x 576 mm	4.5 in x 22.7 in
Right tilt and tip, bore and stroke	152.4 mm x 255 mm	6 in x 10 in
Left tilt and tip, bore and stroke	133.35 mm x 255 mm	5.25 in x 10 in
Relief valve setting	24,000 kPa	3500 psi

Brakes

Brakes	Meet OSHA, SAE J1473 DEC84, ISO 2450-1985 standards.

Axles

Front	Planetary fixed
Rear	Planetary oscillating ±13°

Steering

Steering	Full hydraulic, power steering	
Turning radius with straight blade	7305 mm	24 ft
Steering Angle	±42°	

Tires

Standard Tire Size	29.5-25 L-3
Tires	10 choices in addition to standard offering.

- L-2 Traction Tread - penetration ability provides improved traction under some soil conditions.
- L-3 Rock Tread - offers improved traction and more cut resistant rubber for use on any hard, smooth surface such as rock, concrete or compacted earth.
- L-4 Rock Deep Tread - provides 50 percent more tread depth, thicker undertread and sidewall with increased tire life for use in rock conditions where sharp fragments cause high tire wear or sudden failures.
- L-5 Rock Extra Deep Tread - supplies 150 percent more tread depth to be used in severe rock conditions with extreme penetration hazards.

Weights

Operating Weight	28 724 kg	63,325 lb

- Machine configured with ROPS cab, full fuel tank, coolant, lubricant, straight blade and operator.

Note: Optional equipment weight varies.

Service Refill Capacities

Fuel Tank - standard	630 L	166.5 gal
Cooling system	83 L	21.9 gal
Crankcase	34 L	9 gal
Transmission	62 L	16.4 gal
Hydraulic tank	88 L	23.2 gal
Differentials and final drives - Front	90 L	23.8 gal
Differentials and final drives - Rear	90 L	23.8 gal

Cab

ROPS/FOPS	Meets SAE and ISO standards.

- Caterpillar cab and Rollover Protective Structure/Falling Object Protective Structure (ROPS/FOPS) are standard in North American, Europe and Japan.
- ROPS meets SAE J394, SAE 1040 APR88 and ISO3471-1986 standards.
- FOPS meets SAE J231 JAN81 and ISO 3449-194 standards.

Sound Performance

Standards	Meet ANSI/SAE and ISO requirements.

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 78 dB(A), for the cab offered by Caterpillar, when properly installed, 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 a noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 m (49.2 ft) according to the test procedures specified in SAE J88 JUN86 mid-gear-moving operation is 80 dB(A).
- The sound pressure level is 114 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 111 dB(A) measured according to the test procedures and conditions specified in 2000/14/EC.

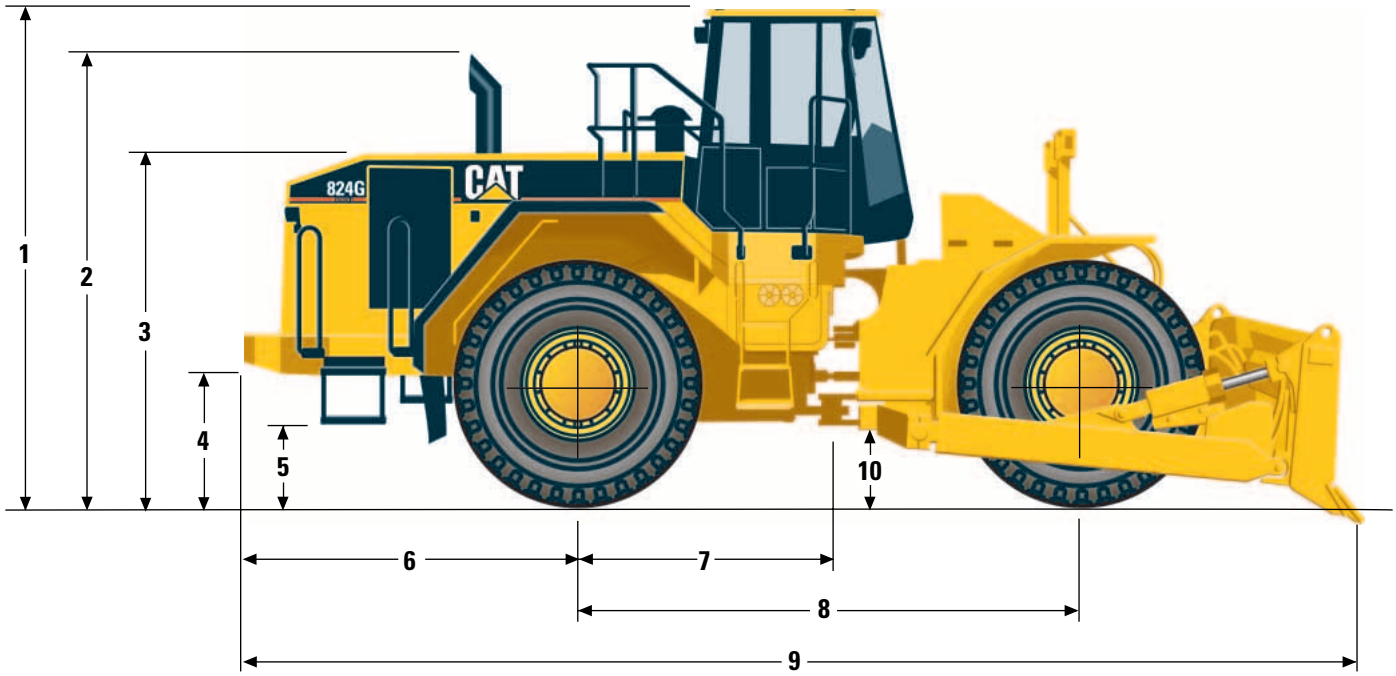
Blade Specifications

Straight Blade - Capacity	4.67 m^3	6.11 yd^3
Moldboard Length	4190 mm	13.75 ft
Straight Blade - Overall Width	4507 mm	177.44 in
Straight Blade - Height	1229 mm	48.39 in
Straight Blade - Digging Depth	430 mm	16.93 in
Maximum Lift Above Ground	1070 mm	3.5 ft
Straight Blade - Ground Clearance	955 mm	37.59 in
Blade Tip Angle - Total	22.4°	
Blade Tip Angle - Forward	11.2°	
Blade Tip Angle - Back	11.2°	
Blade Tilt Angle - Right	15.2°	
Blade Tilt Angle - Left	15.2°	
Straight Blade - Maximum Tilt	1184 mm	46.61 in

- See your Cat dealer for other blade options.

Dimensions

All dimensions are approximate.



1	Height to Top of Cab	3693 mm	12.1 ft
2	Height to Top of Exhaust Pipe	3517 mm	11.5 ft
3	Height to Top of Hood	2558 mm	8.4 ft
4	Ground Clearance to Bumper	890 mm	2.9 ft
5	Height to Bottom of Ladder	698.5 mm	2.3 ft
6	Center Line of Rear Axle to Edge of Bumper	2662 mm	8.7 ft
7	Center Line of Rear Axle to Hitch	1850 mm	6.1 ft
8	Wheelbase	3700 mm	12.1 ft
9	Length with Blade on Ground	8160 mm	26.8 ft
10	Ground Clearance	400 mm	1.3 ft

Standard Equipment

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

ELECTRICAL
- Alarm, back-up
- Alternator (70-amp)
- Batteries, maintenance-free
- Diagnostic connector
- Lighting system, halogen (front and rear)
- Lockable master disconnect switch
- Starter, electric (heavy-duty)
- Starting and charging system (24-volt)
- Starting receptacle for emergency starts

OPERATOR ENVIRONMENT
- Air conditioner
- Blade control system locks
- Cab, pressurized and sound suppressed (ROPS/FOPS), radio ready (entertainment) includes antenna, speakers and converter (12-volt, 5-amp)
- Cigar lighter and ashtray
- Coat hook
- Command Control steering
- Electro-Hydraulic blade controls
- Fingertip shift controls (steering wheel mounted)
- Gear selection display
- Heater and defroster
- Horn, electric (steering wheel mounted)
- Instrumentation, gauges
  - Engine oil temperature
  - Fuel level
  - Hydraulic oil temperature
  - Speedometer/Tachometer
  - Transmission oil temperature
- Instrumentation, warning indicators
  - Air inlet temperature
  - Brake oil pressure
  - Electrical system, low voltage
  - Engine oil pressure
  - Engine overspeed
  - Fuel filter status
  - Steering oil pressure
  - Transmission filter status
- Light, dome (two in cab)
- Lunchbox and beverage holders
- Mirrors, rearview (externally mounted)
- Seat, (cloth) Comfort Series, suspension
- Seat belt, retractable, 76 mm (3 in) wide
- Wet-arm wipers/washers (front and rear)
  - Intermittent front wiper

POWER TRAIN
- Brakes, full hydraulic, enclosed, wet-disc
- Cat axles, outboard final drives
- Engine, Cat 3406E with ATAAC diesel
- Fan, radiator, hydraulically driven
- Filters, fuel
- Fuel, priming aid
- Muffler, sound-suppressed
- Precleaner, engine air intake
- Radiator, Advanced Modular Cooling System (AMOCS)
- Starting aid (ether)
- Switch, transmission neutralizer lockout
- Torque converter
- Transmission, planetary with (4F/4R) electronic clutch pressure control

OTHER STANDARD EQUIPMENT
- Caterpillar O-ring face seals couplings
- XT™ hoses
- Coolers
  - Engine oil, hydraulic oil and transmission oil
- Fenders, steel (front)
- Hitch, drawbar with pin
- Hood, metallic with lockable service doors
- Hydraulic steering
- S·O·S℠ valves
- Vandalism protection caplocks

BULLDOZERS
- Bulldozer blade, hydraulics and linkage are not included in standard equipment.

TIRES, RIMS AND WHEELS
- A tire must be selected from the mandatory attachments section. Base machine price includes a tire allowance.

ANTIFREEZE
- Premixed 50 percent concentration of Extended Life Coolant with freeze protection to -34° C (-29° F).

Optional Equipment (with approximate change in operating weight)

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

	kg	lb
Auxiliary cab light package	3	7
Coolant, Extended Life	—	—
Counterweight	2227	4910
Directional signals	2	4
Drive shaft guard(s)		
use with counterweight	20	44
use without counterweight	58	127
Engine coolant heater	2	4
Fast Fuel adapter	4	9
Front and rear roading fenders	604.3	1332.5
Front visor	4.5	10

	kg	lb
Heater, 220-volt	1	3
Intermittent rear wiper	0.9	2
Internal panoramic mirror	5	11
Internal rearview mirror	3	7
No-SPIN rear differentials	2	4
Quick oil change system	1	3
Secondary steering	37	72
Sliding cab windows	13	28
Sound suppression	103	227
Special application end bits	15	32

Mandatory Attachments (select one from each group)

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

	kg	lb
Bulldozers		
Bulldozer, No Blade	0	0
Bulldozer, Straight Blade	5235	11,540
Bulldozer Straight Blade-Wear Plate	5235	11,540
Tires, Rims and Wheels		
Note: All tires are tubeless, include rims and come in sets of four.		
Firestone		
29.5-25 22 PR FS L3	–437	–964
29.5-25 22 PR FS L4	85	188
29.5-25 22 PR FS L5	622	1372

	kg	lb
General		
29.5-25 22 PR GEN L4	40	88
29.5-25 22 PR GEN L5	314	692
Goodyear		
29.5 R25 GP 2B * GY L3	–82	–180
29.5-25 22 PR GY L3	–323	–712
29.5-25 22 PR GY L4	337	744
29.5-25 22 PR GY SXT L5	951	2096
Michelin (standard tire offering)		
29.5 R25 XHA * MX L3	0	0

Tire weights represent variance from the standard tire weight, which is included in the machine operating weight.

824G Series II Wheel Dozer

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