

814

WHEEL DOZER



Engine Power	205 kW (275 hp)
Operating Weight	22 011 kg (48,526 lb)

Meets U.S. EPA Tier 4 Final and EU Stage V or meets Brazil MAR-1, emitting equivalent to U.S. EPA Tier 3/EU Stage IIIA.



The Cat® 814 is designed with durability built in, ensuring maximum availability through multiple lifecycles. With optimized performance and simplified serviceability, the 814 helps support your jobsite efficiently and safely while helping to lower owning and operating costs.

THE CAT® 814

MOBILE. AGILE. VERSATILE.



LOWERING YOUR COSTS WITH EFFICIENCY AND DURABILITY

The Cat 814 Wheel Dozer delivers sustained efficiency, enhanced durability, and safety.

- + THE CAT C7.1 ENGINE, NEW HYDRAULIC SENSORS, AND ADVANCED IDLING CONTROLS HELP INCREASE EFFICIENCY ON EVERY SITE
- + ADVANCED SAFETY FEATURES GIVE YOU PEACE OF MIND AND HELP REDUCE RISK
- + DURABLE DESIGN ENSURES LONGER LIFE TO PROTECT YOUR INVESTMENT



MORE POWER WITH
LESS COST

POWER TO DO MORE AT A LOWER COST

The Cat C7.1 engine helps deliver great power density but is designed for maximum fuel efficiency.

UNMATCHED DURABILITY

Robust structures, from a full box-section frame to resilient dozer blades, ensure you'll get the most from your machine.

SAFE OPERATION

A rear-vision camera and other increased vision and visibility features come standard, helping to keep your operator fully aware and workers safe.





BUILT FOR
SUSTAINABILITY

**CONTINUING
CONSCIOUSNESS**

**KEEPING
OUR PLANET
IN MIND**



**DESIGNED FOR LOW FUEL BURN AND
REDUCED ENVIRONMENTAL IMPACT.**

- + Agile maneuvering helps reduce cycle time.
- + Innovative engine design and advanced idling management help reduce fuel burn and increase component life.
- + Maintenance-free batteries and high-speed oil changes help reduce harmful waste.

CAT EQUIPMENT MANAGEMENT TAKES THE GUESSWORK OUT OF MANAGING YOUR EQUIPMENT

Cat Equipment Management telematics technology helps take the complexity out of managing your jobsites by gathering data generated by your equipment, materials, and people and serving it up to you in customizable formats.



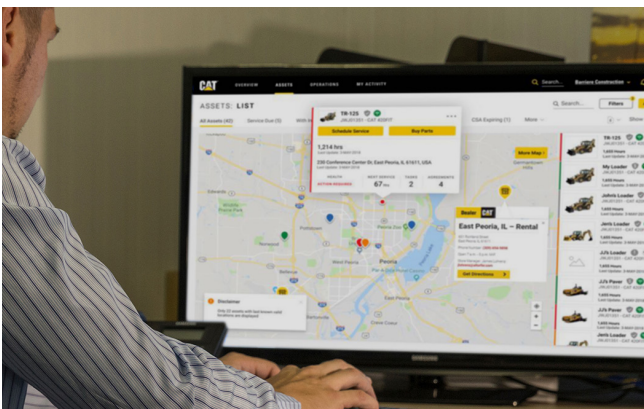
CAT PRODUCT LINK™

Product Link™ collects data automatically and accurately from your assets – any type and any brand. Information such as location, hours, fuel usage, productivity, idle time, maintenance alerts, diagnostic codes, and machine health can be viewed online through web and mobile applications.



VITAL INFORMATION MANAGEMENT SYSTEM (VIMS™)

Proactively manage machine health and production. This user-friendly interface monitor is available in the cabin and allows operators to monitor real-time machine performance and operating data. Access diagnostics, prognostic trends, and production information such as payload, haul cycle times, segment times, and fuel usage.



CAT TECHNOLOGIES

Cat technologies give you the edge you need to improve machine and operator efficiency while working safely.

ALL SYSTEMS GO

WORKING
IN SYNC
TO HELP LOWER
FUEL
CONSUMPTION



SYSTEM INTEGRATION IS KEY
TO PROMOTING EFFICIENCY

WHOLE-SYSTEM APPROACH

Deep system integration among engine and emissions, powertrain, hydraulic, and cooling systems helps lower fuel consumption.

THE CAT C7.1 ENGINE

Innovative systems (including new electronics, fuel injection, and air management) effectively lower the average working engine speed and help reduce overall heat loads for improved performance and fuel burn.

REDUCE IDLING

Engine idle shutdown and auto idle kickdown control systems help eliminate unnecessary idling, further reducing fuel burn.



MOVE MORE WITH LESS FUEL
INCREASED EFFICIENCY



DO MORE WITH
GREAT AGILITY

The 814's design is agile, allowing shorter cycle times and great efficiency and utility.

POWERFUL PUMP BOOSTING

A variable displacement load-sensing implement and steering pumps help deliver on-demand hydraulic flow instead of increasing engine speed. This helps with improved fuel efficiency.

SMOOTH CYCLES

The 814's agile design and low-effort integrated controls help result in smooth, fast cycles and less operator fatigue.

APECS POWERSHIFT

The world-class Cat planetary powershift transmission features Advanced Productivity Electronic Control Strategy (APECS) technology for great momentum on grades. Carrying that momentum through the shift points helps increase fuel savings.

STRONG STRUCTURES THAT PROTECT YOUR INVESTMENT

ENHANCED DURABILITY



TOUGHER COMPONENTS

The upper hitch pin, frame plate, and bearing are larger and more durable. Optimized axle mounting adds to the structural integrity, and tougher heavy-duty steering cylinder mounts efficiently transmit steering loads into the frame.



RESILIENT FRAME

The full box-section rear frame resists torsional shock and twisting forces, and solid through-width push beam transfers and absorbs stresses. All this contributes to your machine's long-term value.



ROBUST CONSTRUCTION

The 814's robust structures withstand the toughest conditions and multiple lifecycles to help improve your bottom line.



DESIGNED FOR DOZING

The push beam preserves your frame and is designed to match the way you work. The 814's push beam is through-width, not merely attached to the side of the frame. When corner dozing, stresses are transferred and absorbed through a larger portion of the frame, increasing the machine's durability and protecting your investment.

HIGH AWARENESS TO KEEP YOUR TEAM SAFE

SAFETY FEATURES



REARVIEW CAMERA

This standard feature gives the operator a rearview image for safe backing.

HIGH-VISIBILITY MIRRORS

Mirror clusters are designed for maximum visibility, providing full awareness of the operating environment. Heated mirrors are available as an option.

SAFE CYCLES

Cab-mounted LED beacons provide a warning for others near the machine, and the 814 is Cat Object Detection ready.

SAFE ENTRY/EXIT

All platforms and ladders are designed so operators constantly have three points of contact with the machine, and all feature non-slip surfaces.

STIC™ MAKES CONTROL EASY

The Steering and Transmission Integrated Control (STIC) system combines directional selection, gear selection, and steering into a single lever, maximizing responsiveness and control while helping to reduce operator fatigue.

REDUCED VIBRATION

Isolated cab mounts, seat-mounted implements, and a seat designed for maximum ride comfort all add up to less vibration and less operator fatigue.

FRESH AIR SYSTEMS

Automatic temperature controls and a pressurized cab help ensure that even the air around the operator is as comfortable as possible.

TOUCHSCREEN INTERFACE

The touchscreen display gives operators critical information when they need it. An enhanced user interface allows for intuitive operation and easy navigation.

REDUCED NOISE

Interior sound levels are lower than on previous models, increasing safety and keeping operators comfortable throughout their entire shift.

COMFORT SEATING

The Cat Premium Plus seat helps improve operator comfort with power lumbar and back bolster adjustment, ride stiffness adjustment and dynamic dampening, forced air heating and cooling, and a leather finish.

ERGONOMIC CONTROLS

The ergonomic placement of controls and easy-to-operate finger-controlled gear selection offer additional comfort.



SAVE ON MAINTENANCE

SAFE AND CONVENIENT SERVICING THAT SAVES TIME



INTUITIVE DESIGN

Daily service points are grouped for easy access from ground or the platform. The hydraulic oil cooler, air conditioner condenser, and fuel cooler are grouped together.

FLUID ACCESS

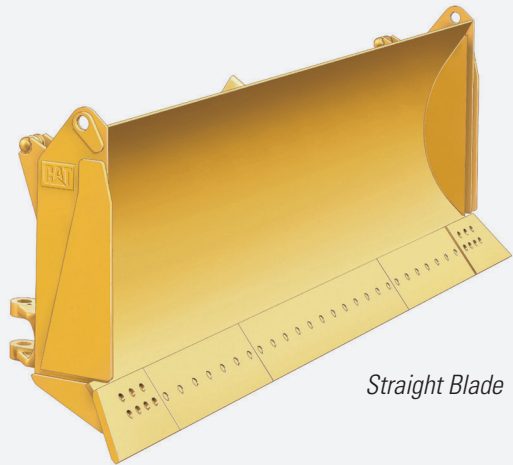
Sight gauges offer quick visual inspection of fluid levels to help minimize contamination. Ecology drains help prevent spills and allow for easier service.

EASY-ACCESS DOORS

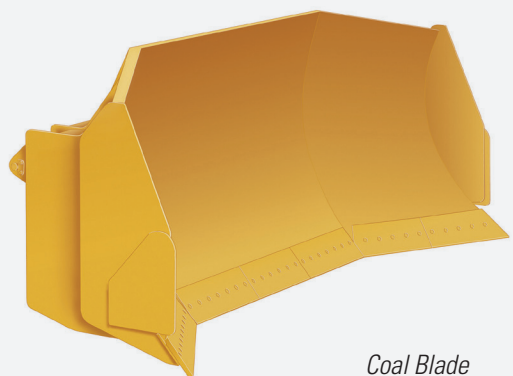
Swing-out doors on either side of the engine compartment help provide easy access for daily service or component changes.

BLADES TO MATCH YOUR DOZING REQUIREMENTS

BLADES THAT LAST



Straight Blade



Coal Blade

DURABLE BLADES

Cat blades are resilient, durable, and designed with excellent dozing and rolling characteristics, and deliver long-lasting service.

- + Capacities and widths are set to achieve increased productivity.
- + Design makes it easier to spread cover material and allows for dozing of heavier loads.

STRAIGHT BLADE

The straight blade (2.8 m³/3.7 yd³) delivers excellent performance in production dozing in stockpile material and general earthmoving.

COAL BLADE

The coal blade (10.6 m³/13.8 yd³) allows precise and productive dozing while helping to retain load control with increased capacity for lighter materials. Wing angles help retain the load during all parts of the cycle. This blade is available from Cat Work Tool and Services (CWTS).

INNOVATIVE OPTIONS HELP PROVIDE INCREASED SAFETY

POWER SERVICE AT GROUND LEVEL

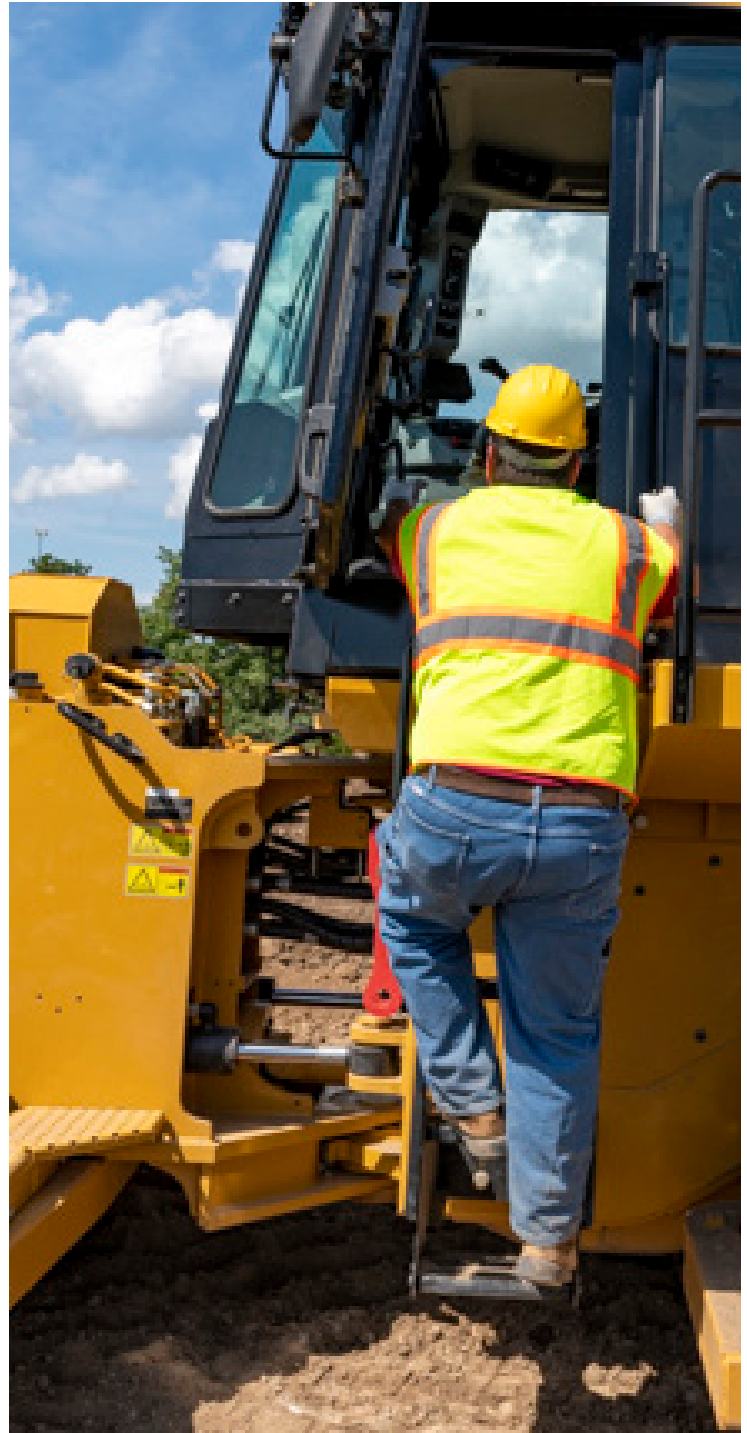
Battery disconnect switch, emergency engine shutdown switch, and stairway light switch are accessed through the ground-level power service center.

EASY ACCESS

Wider stairs with reduced stair angles help increase safety for operators. Access stairs via a powered platform from cab or ground level and have emergency egress access.

INCREASED AWARENESS

Optional Cat Detect with object detection system (rearview camera and radar) or Vision (rearview camera) help increase operator awareness around the machine.



TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGINE		
Engine Model	Cat® C7.1	
Emissions (Option 1)	U.S. EPA Tier 4 Final/EU Stage V	
Rated Speed	2,200 rpm	
Net Power (SAE J1349:2011)	186 kW	249 hp
Net Power (ISO 9249:2007)	186 kW	249 hp
Gross Power (SAE J1995:2014)	212 kW	284 hp
Engine Power (ISO 14396:2002)	205 kW	275 hp
Peak Torque @ 1,400 rpm	1223 N·m	902 lbf·ft
Torque Rise	52%	
Emissions (Option 2)	Brazil MAR-1, emitting equivalent to U.S. EPA Tier 3/ EU Stage IIIA	
Rated Speed	2,200 rpm	
Net Power (SAE J1349:2011)	186 kW	249 hp
Net Power (ISO 9249:2007)	186 kW	249 hp
Gross Power (SAE J1995:2014)	213 kW	286 hp
Engine Power (ISO 14396:2002)	205 kW	275 hp
Peak Torque @ 1,400 rpm	1016 N·m	749 lbf·ft
Torque Rise	26%	
Bore	105 mm	4.1 in
Stroke	135 mm	5.3 in
Displacement	7.01 L	427.8 in ³
High Idle Speed	2,270 rpm	
Low Idle Speed	800 rpm	
Maximum Altitude without Derating	3000 m	9842.5 ft

- 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.

OPERATING SPECIFICATIONS		
Operating Weight (Tier 4 Final/Stage V)	22 011 kg	48,526 lb
Operating Weight (Tier 3/Stage IIIA equivalent)	21 721 kg	47,887 lb

TRANSMISSION		
Forward 1	5.9 km/h	3.7 mph
Forward 2	10.4 km/h	6.5 mph
Forward 3	18.1 km/h	11.2 mph
Forward 4	31.3 km/h	19.4 mph
Reverse 1	6.7 km/h	4.2 mph
Reverse 2	11.8 km/h	7.3 mph
Reverse 3	20.6 km/h	12.8 mph
Reverse 4	35.5 km/h	22.1 mph

AIR CONDITIONING SYSTEM		
<ul style="list-style-type: none"> • The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. • If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg of refrigerant which has a CO₂ equivalent of 2.717 metric tonnes. 		

HYDRAULIC SYSTEM LIFT/TILT		
Lift/Tilt System – Circuit	Pilot operated Load Sensing valve with EH	
Lift/Tilt System	Variable displacement piston	
Maximum Flow at 2,200 rpm	89 L/min	23.5 gal/min
Relief Valve Setting – Lift/Tilt	22 000 kPa	3,190 psi
Cylinders, Double Acting: Lift, Bore, Stroke	120 mm × 915 mm	4.7 in × 36.0 in
Cylinders, Double Acting: Left and Right Tilt, Bore, Stroke	101.6 mm × 234 mm	4.0 in × 9.2 in
Pilot System	Open center, fixed displacement gear	
Pilot Relief Valve Setting	21 000 kPa	3,046 psi

HYDRAULIC SYSTEM – STEERING		
Steering System – Circuit	Pilot, load sensing	
Steering System – Pump	Variable displacement piston	
Maximum Flow at 2,200 rpm	147 L/min	38.8 gal/min
Relief Valve Setting – Steering	27 600 kPa	4,003 psi
Total Steering Angle	72°	
Steering Cycle Time (high idle)	3.0 seconds	
Steering Cycle Time (low idle)	8.2 seconds	

SOUND		
Tier 4 Final/Stage V		
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)	
Machine Sound Power Level (ISO 6395:2008)	111 dB(A)	
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)*	
Machine Sound Power Level (ISO 6395:2008)	109 dB(A)*	
Tier 3/Stage IIIA Equivalent		
Operator Sound Pressure Level (ISO 6396:2008)	72 dB(A)	
Machine Sound Power Level (ISO 6395:2008)	112 dB(A)	
Operator Sound Pressure Level (ISO 6396:2008)	70 dB(A)*	
Machine Sound Power Level (ISO 6395:2008)	110 dB(A)*	
* Sound suppression equipped		
<ul style="list-style-type: none"> • The machine sound power level was measured according to ISO 6395:2008. The measurement was conducted at maximum engine cooling fan speed. • The operator sound pressure level was measured according to ISO 6396:2008. The measurement was conducted at 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. 		

AXLES		
Front	Planetary – Fixed	
Rear	Planetary – Oscillating	
Oscillation Angle	±10°	

STANDARD & OPTIONAL EQUIPMENT

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

ELECTRICAL	STANDARD	OPTIONAL
Lights, directional (rear)	•	
Lighting system (front and rear)	•	
Lighting system, LED		•
Starter, electric	•	
OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Cab glass, laminated and tinted, rubber mounted	•	
Electro-hydraulic tilt and lift controls (seat mounted)	•	
Radio, AM/FM/AUX/USB/Bluetooth®		•
Radio ready for entertainment: antenna, speakers, converter (12V, 10-15 amp)	•	
Seat, Premium Plus containing forced air heating and cooling, two-way thigh adjustment, power lumbar and back bolster adjustment, ride stiffness adjustment, dynamic end dampening, and leather finish	•	
POWERTRAIN	STANDARD	OPTIONAL
Advanced Productivity Electronic Control System (APECS)	•	
Brakes, full hydraulic, enclosed, wet multiple disc service brakes	•	
Engine driven cooling fan – suction	•	
Heater, engine coolant, 120V		•
Heater, engine coolant, 240V		•
No-spin rear axle		•
Radiator, unit core	•	
SAFETY	STANDARD	OPTIONAL
Alarm, back-up	•	
Camera, rear-vision	•	
Cat Detect: object detection ready	•	
Emergency exit	•	
Lights, warning switched (LED strobe)	•	
Mirror, internal (panoramic)	•	
Mirrors, rearview (externally mounted)	•	
Seat belt with minder, retractable, 76 mm (3 in) wide	•	
Steering and Transmission Integrated Control (STIC™) system with lockout	•	

SERVICE	STANDARD	OPTIONAL
Auxiliary start receptacle	•	
Doors, service access (locking)	•	
Dual engine precleaner		•
Ecology drains for engine, radiator, transmission, hydraulic tank	•	
Engine, crankcase, 500-hour interval with CJ-4 oil	•	
Engine precleaner	•	
Fast fill fuel		•
Fire suppression ready	•	
Ground-level engine shutdown	•	
Ground-level lockable battery disconnect switch	•	
Oil change system, high-speed	•	
Oil sampling valves	•	
Total hydraulic filtration system	•	
COLD WEATHER	STANDARD	OPTIONAL
Antifreeze, -50°C (-58°F)		•
Antifreeze, premixed 50% concentration extended life (-34°C/-29°F)	•	
Starting aid (ether)	•	
EFFICIENCY	STANDARD	OPTIONAL
Steering, load sensing	•	
Torque converter	•	
SOUND	STANDARD	OPTIONAL
Sound suppression (required for Brazil)		•
OTHER	STANDARD	OPTIONAL
Counterweight (front)		•



AEXQ3083-01 (11-2024)
Replaces AEXQ3083-00
Build Number: 11A
(Global Excluding Europe
and Türkiye)

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