

D8

DOZER



Engine Model
Power - Net
Operating Weight

Cat® C15
271 kW (363 hp)
39 000 kg (85,980 lb)



D8

DOZER

The Cat® Next Generation D8 Dozer delivers performance you expect, with next generation technology for easier, more efficient operation. Common interface and controls from the D5 through D8 make it easy to operate machines of different sizes. A proven, fully automatic 4-speed transmission optimizes efficiency. The broad range of technology features helps reduce operator inputs, especially for less experienced operators.



ADDED COMFORT AND SAFETY

Common cab, controls, and interface with the D5-D8 dozers and standard ease-of-use aids create an efficient operating environment.

GREATER EFFICIENCY

More drawbar power to move more material per hour with a proven, fully automatic 4-speed transmission.

MORE PRODUCTIVITY WITH CAT TECHNOLOGY

Assist features help reduce operator inputs, while options from the factory such as Cat Grade with 3D hardware make implementing technologies easier.

NEXT GENERATION PERFORMANCE



- Fully automatic 4-speed powershift transmission continuously adjusts for maximum efficiency and power to the ground without added operator input.
- Next Generation cab for the D8 means common controls and interface for all D5-D8 machines, making operators more efficient across multiple dozers.
- Blades are right-sized to the machine to help you get jobs done in fewer passes.
- Elevated sprocket gives you better ride and balance, plus more penetration force.
- Long undercarriage is standard, with more track at the rear of the machine for superior dozing performance.
- Outfit your dozer from the factory to take on the challenges of slot dozing, ripping, and more.

OPERATOR HELPERS



Assist features help make work easier, especially for less experienced operators. Some blade and steering functions are automated so newer operators can work at productivity levels closer to their veteran counterparts. Seasoned operators can enjoy reduced effort and fatigue, along with faster, more accurate results.

- Optional Assist features can reduce operator inputs up to 45%*. Cat Assist with Attachment Ready Option (ARO) features include:
 - Stable Blade works seamlessly with operator inputs to help produce a smoother surface when operating manually.
 - Traction Control automatically reduces track slip to save you time, fuel and track wear.**
 - AutoCarry™ automates blade lift to help you maintain consistent blade load and reduce track slip.**
 - Blade Load Monitor gives you real-time feedback on current load versus the optimal blade load based on your ground conditions. Actively monitors machine load and track slip to help you reach optimal pushing capacity.**
 - Cat Grade with Slope Assist™ automatically maintains pre-established blade position without a GNSS/GPS signal – no additional hardware or software needed. For machines with 3D, operators can easily switch back and forth from full 3D automatics to Slope Assist.
 - Steer Assist automates track and blade tilt steering. Helps reduce operator fatigue by automatically maintaining straight travel with light loads or heavy loads on flat ground and side slopes. Helps reduce steering inputs up to 75%. No GNSS/GPS required.
- Slope Indicate is included in the main machine display and shows side slope and uphill/downhill grades to help operators with slope work.
- Attachment Ready Option (ARO) provides wiring and mounting provisions for dealer installation of Grade with 3D, Accugrade, UTS, or other grade control systems.
- AutoRip automates ripper raise/lower and shank in/out to maximize ripping productivity.
- Application Profile lets you save machine settings based on application or operator preference. Utilize any of the default profiles defined by our expert operators or customize profiles for various jobs or multiple operators.
- Operator ID allows you to save custom touchscreen setup, machine settings, and to track individual operator productivity, safety and training opportunities via Product Link™.
- Machine security – passcode helps prevent theft and unauthorized operation by requiring an operator to enter an ID to start the machine.

* Input reduction based on product testing of a D5 (17B) Next Generation Dozer with and without the use of Slope Assist in a side slope application. Inputs measured as number of times operator adjusts controls, collected and verified by electronic control module (ECM). Test conducted by Caterpillar at Washington, IL, in July 2022.

**Feature not operational indoors or in areas where a GNSS/GPS signal is not available.

UPTIME COUNTS

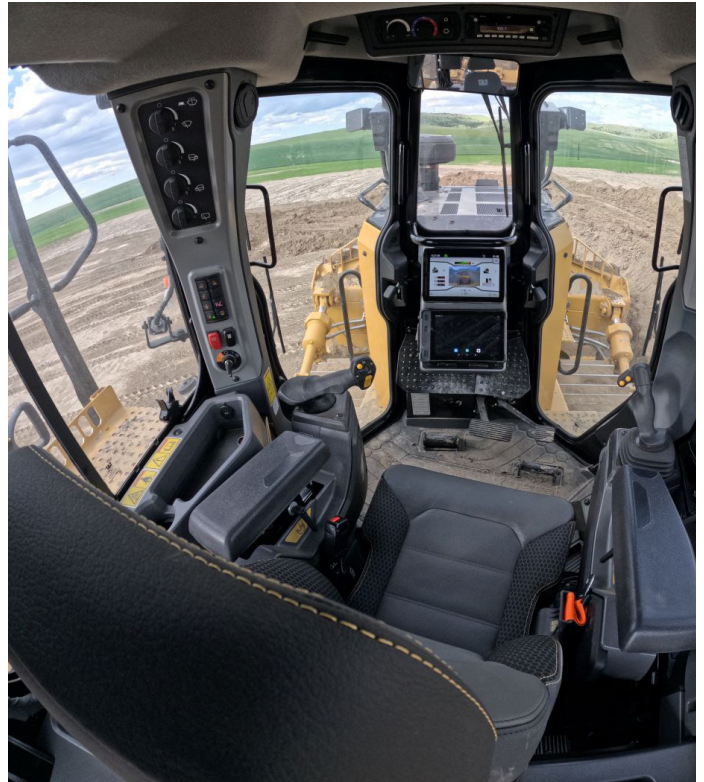
- Cab can be removed in about 30 minutes.
- Easy access without tools under the cab floor if needed.
- Option to install Cat Grade with 3D hardware from the factory eliminates shop time later.
- Reduce downtime with Read/Write Remote Troubleshoot, allowing dealer technicians to diagnose more issues remotely, saving time on service calls.
- Keep safety at the forefront with additional camera options for enhanced visibility around the machine.
- Platform with guard rail makes refueling other maintenance points safer to access.
- Elevated sprocket makes cleanout easier and provides convenient, modular service.
- Reversing hydraulic demand fan helps remove debris while you work, saving cleanout and maintenance time.
- Powered bottom guard option enhances safety during cleanout.
- Longer life LED lights help save you time and money.



COMFORT AND VISIBILITY

- Common cab, interface, and controls with D5 through D8, raising the bar for comfort, productivity, and straightforward operation across dozer models.
- Integrated rollover protective structure (ROPS) and next generation cab design provides 7% improved visibility.*
- Easy-to-use 254 mm (10 in) touchscreen main display.
- Optional, high-definition rearview camera with backup lines shows prominently in the main display when in reverse.
- Key Features Help, built into the display, gives you an overview of machine and technology features and helpful operating tips.
- Wide air suspension seat has multiple adjustments for personalized comfort. Armrest adjusts independent of the seat.
- Distributed cab heating/cooling circulates air effectively around the operator and helps reduce window fogging/frosting.
- Ample storage spaces throughout the cab.
- Convenient USB and auxiliary power ports in cab.

**Visibility improvement based on virtual visibility analysis. Comparisons made from the D8T/D8 (19B) to the Next Generation D8 (22A).*



BUILT-IN DURABILITY

- Elevated sprocket protects major components from shock loads.
- Heavier frame and structures for added durability.
- Cat C15 engine eliminates exhaust gas recirculation (EGR) system for greater reliability; simplified with a single engine electronic control module (ECM).
- Redesigned fuel system provides greater reliability and more accurate fuel delivery.
- Heavy Duty Extended Life undercarriage – HDXL with DuraLink™ – available option that provides more seal life in high impact conditions.
- Heavy-duty batteries for more cold-cranking power.



HANDLE THE DESERT HEAT

- Choose from a variety of factory options to support machine performance and service life in extremely sandy or abrasive conditions.
- Cooling system designed for sand application with special fan coating and radiator grid.
- Turbine precleaner prevents particles from entering the engine system by delivering cleaner air to the powertrain.
- Sealed bottom guard and added seals help keep fine abrasive particles out of components. Access panels facilitate cleanout without removing bottom guard.
- Ducted and sealed alternator for longer life.
- Special seals throughout machine help reduce sand entering machine.
- Powered air precleaner helps keep cab air cleaner and pressurized for greater operator comfort.
- Solid-bottom engine enclosure doors help keep sand out for improved cooling and reduced cleanout.
- Specially coated fan and radiator core protection help resist abrasion. Reversing function is disabled on the hydraulic demand fan.
- Replaceable wear plates offer longer blade life when working in abrasive conditions.



CONNECT TO GREATER EFFICIENCY



- Product Link collects machine data that can be viewed online through web and mobile applications.
- Access information anytime, anywhere with VisionLink® – and use it to make informed, data-driven decisions about your jobsite.*
- Mixed-fleet management capable with API integration or by using Product Link devices on equipment from other manufacturers, so you can monitor owned, rented, or leased assets.
- Review equipment data from your desktop or mobile device with customizable dashboards to provide information such as hours, miles, location with mapping, idle time, asset status, asset operation, and fuel utilization.
- Read/Write Remote Troubleshoot saves time and money by allowing your Cat dealer to perform diagnostic testing remotely.
- Remote Flash updates on-board software without a technician being present, at a time that is convenient for you, with the potential to reduce update time.

* Data field availability can vary by equipment manufacturer.



MORE THAN MACHINES

BUILT AROUND YOUR SUCCESS

When you buy Cat equipment, you get so much more than the machine. You also get the support of a best-in-class dealer network, backed by a range of flexible solutions, technology, tools, and more.

CUSTOMER VALUE AGREEMENTS

A Customer Value Agreement (CVA) from your Cat dealer helps you do more and worry less. A CVA simplifies machine ownership and maintenance, adds the security of expert dealer support, and gives you the peace of mind from effective equipment health management.

REPAIR OPTIONS

A broad range of repair options gives you choices that work with your needs, budget, and timeline. Every repair is performed by expert Cat technicians. You'll receive smart repair advice, a timely, accurate quote, and service that gets your machine back into action quickly.

GENUINE CAT PARTS

Genuine Cat parts deliver the highest level of reliability and productivity. Order direct from your Cat dealer or shop online at parts.cat.com.

FINANCIAL SERVICES

Count on Cat Financial to provide the best finance and extended protection solutions for your business. For more than 30 years, we have helped our customers succeed through financial service excellence.

GET BACK TO WORK

Services to help you save time, save money, and get back on the job.

CAT INSPECT

Access your equipment data on your mobile device. This easy-to-use app lets you capture inspection data and integrates with your other Cat data systems, so you can keep a close eye on your fleet.

HYDRAULICS AND HOSE

Whether you choose new, Reman, exchange, or rebuilt hydraulic components, you'll get expert diagnostics, testing, and contamination control. Cat Hose Service offers hoses and couplings for most makes and models.

CERTIFIED REBUILD

Get a full second machine life at a fraction of the cost of buying new. With upgraded features, safety enhancements, and the latest technologies, your old machine will perform even better than it did when it rolled off the line.

TECHNICAL SPECIFICATIONS

Engine

Engine Model	Cat® C15	
Power - Net	271 kW	363 hp
Net Power - ISO 9249/SAE J1349	271 kW	363 hp
Net Power - ISO 9249 (DIN)	368 mhp	368 mhp
Build Number	22A	
Emissions	Brazil MAR-1, and UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3/EU Stage IIIA	

Net power at 2,050 rpm. 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. Advertised power is tested per the specified standard in effect at the time of manufacture.

Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to: 20% biodiesel FAME (fatty acid methyl ester) * or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. * For use of blends higher than 20% biodiesel, consult your Cat dealer.

Weights

Operating Weight	39 000 kg	85,980 lb
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Transmission

Powertrain	Fully-automatic 4-speed transmission with lock-up clutch (LUC) torque divider	
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Service Refill Capacities

Fuel Tank	624 l	164.8 gal (US)
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Standard SU

Operating Weight	39 000 kg	85,980 lb
Ground Pressure	88.5 kPa	12.84 psi
Width of Standard Shoe	610 mm	24 in
Blade	Semi-Universal	
Blade Capacity	10.3 m³	13.47 yd³

LGP

Operating Weight	37 585 kg	82,861 lb
Ground Pressure	53.9 kPa	7.82 psi
Width of Standard Shoe	965 mm	38 in
Blade	LGP Semi-Universal	
Blade Capacity	9.9 m³	12.95 yd³

Desert/High Abrasion

Operating Weight	39 250 kg	86,531 lb
Ground Pressure	89.1 kPa	12.92 psi
Width of Standard Shoe	610 mm	24 in
Blade	Semi-Universal	
Blade Capacity	10.3 m³	13.47 yd³

Sustainability

Recyclability	98%
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Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 1.36 kg (2.99 lb) of refrigerant which has a CO ₂ equivalent of 1.946 metric tonnes (2.145 tons).
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STANDARD & OPTIONAL EQUIPMENT

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

	Standard	Optional
POWERTRAIN		
Cat C15 engine	✓	
Fully-automatic 4-speed transmission with lock-up clutch (LUC) torque divider	✓	
Aftercooler, air-to-air (ATAAC)	✓	
Coolant, extended life	✓	
Differential steering	✓	
Engine air filter with electronic service indicator	✓	
Engine air precleaner with dust ejection	✓	
Engine idle shutdown	✓	
Final drives, double reduction – Standard or LGP	✓	
Fan, hydraulic demand	✓	
Fuel lines – B100 compliant (required for Indonesia)	✓	
Radiator, aluminum bar plate with debris resistant cores	✓	
High performance single plane cooling system	✓	
Desert package with unique engine, precleaner, bottom guards, and seals for application		✓
Engine air precleaner desert configuration		✓
Engine air precleaner with screen and dust ejector		✓
Engine with thermal shield		✓
Fan, auto reversing		✓
High capacity fuel tank – includes B100 compliant fuel lines		✓
Oil change system, high speed		✓
Sound suppression		✓
Starting aid, automatic ether		✓
Starting aid, jacket water heater (110V or 220V)		✓
OPERATOR ENVIRONMENT		
Standard cab with integrated rollover protective structure (ROPS) and falling objects protective structure (FOPS), laminated safety glass, sliding windows, basic display/non-ARO, standard seat	✓	
203 mm (8 in) gauge cluster display	✓	
Cloth seat with mechanical adjustable lumbar support	✓	
Cab mounted modular HVAC system with automatic reversing fans. Automatic temperature and blower control with distributed ducting.	✓	
Rearview mirror	✓	

	Standard	Optional
OPERATOR ENVIRONMENT, continued		
Retractable 76 mm (3 in) seat belt	✓	
Cup holders	✓	
Lunchbox storage	✓	
Wipers	✓	
Operator presence switch	✓	
Premium cab with integrated ROPS and FOPS, laminated safety glass, sliding windows, adjustable armrests. Cab is technology- and remote control-ready.		✓
High debris cab with integrated ROPS and FOPS, impact resistant polycarbonate doors, solid side windows for improved sealing, powered precleaner with Cat Advanced Cabin Filtration for improved performance and filter life. Cab is technology- and remote control-ready.		✓
Full-color 254 mm (10 in) liquid crystal touchscreen display		✓
High definition rearview camera with backup lines		✓
In-display key machine features		✓
Operator ID/Operator ID with Security		✓
Deluxe leather heated/ventilated seat with electronic adjustable lumbar support		✓
Armrests adjustable fore-aft and vertically		✓
Joystick control – ARO		✓
Floor plate and pedals for shorter operators		✓
Entertainment radio with Bluetooth and microphone		✓
USB and AUX ports		✓
Emergency hammer		✓
Window shades		✓
BLADES		
Semi-Universal (SU)		✓
Universal (U)		✓
Waste/Landfill		✓
Angle (A)		✓
Rock Guard/Wear Plate		✓
Push Plate		✓
FirstCut™ cutting edges (SU blades)		✓
HYDRAULICS		
Load sensing hydraulics	✓	
Independent steering and implement pumps	✓	
Dozer tilt hydraulics – single tilt	✓	
Electronically enabled quick drop valve	✓	
Rear hydraulics ripper and winch ready	✓	
Dozer tilt hydraulics – dual tilt		✓

	Standard	Optional
BATTERIES, STARTERS, ALTERNATORS, AND COOLANT		
95 Amp alternator	✓	
24 Volt starter	✓	
Engine coolant, -37° C (-35° F)	✓	
Four maintenance free 12-volt batteries (900 cca) (24-volt system)	✓	
150 Amp alternator		✓
150 Amp ducted alternator		✓
Arctic engine coolant, -51° C (-60° F)		✓
CAT TECHNOLOGY		
Cat Slope Indicate	✓	
Compatibility with radios and base stations from Trimble, Topcon, and Leica	✓	
Capability to install 3D grade systems from Trimble, Topcon, and Leica	✓	
Remote Flash/Troubleshoot	✓	
Machine security - passcode	✓	
Remote Control Ready	✓	
Cat Assist with ARO package		✓
Cat Grade 3D Ready with Assist package (hardware only)		✓
Cat Grade 3D with Assist package		✓
Third party Grade Control ready cab		✓
Product Link™ – cellular or dual mode		✓
Machine security – Bluetooth		✓
Cat Command for Dozing		✓
SERVICE AND MAINTENANCE		
Centralized, remote mounted pressure taps	✓	
Ecology drains	✓	
Extended service intervals (500 hours engine, 1,000-hour powertrain)	✓	
Ground level service center (remote electrical disconnect, secondary shutdown switch)	✓	
Heavy duty perforated radiator doors, louvered and hinged	✓	
Removable engine enclosures, perforated and hinged	✓	
Scheduled Oil Sampling (S-O-S SM) ports	✓	
Vandalism protection for fluid compartments and battery box	✓	
30-minute cab removal		✓
Ground level service center (hour meter, jump start)		✓
Fast fuel fill		✓
High-speed oil change		✓
Heavy duty radiator doors for waste		✓
Quick access cab floor		✓
Under hood work light		✓
Shovel holder		✓

	Standard	Optional
GUARDING AND SCREENS		
Bottom guards – standard	✓	
Bottom guards – heavy duty, powered, sealed, desert		✓
Cab rear screen – fixed or hinged		✓
Cab side screens – hinged		✓
Fuel tank guards		✓
Striker bars, front, suspended		✓
Sweeps package		✓
ELECTRICAL		
Standard lights – 4 LED light package	✓	
Backup alarm	✓	
Converter: 15 Amp, 12V outlets	✓	
Forward warning horn	✓	
Upgraded lights – 6 LED light package		✓
Premium lights – 12 LED light package		✓
Beacon warning light		✓
UNDERCARRIAGE		
Standard or Low Ground Pressure (LGP) undercarriage	✓	
Heavy Duty with Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓	
Suspension-type undercarriage	✓	
Lifetime lubricated track and roller	✓	
Moderate service track shoes	✓	
Track guide	✓	
Sprocket rim segments, replaceable	✓	
8-roller tubular track roller frame (carrier roller ready)	✓	
Two-piece master links	✓	
Heavy Duty Extended Life (HDXL) with PPR undercarriage – 44 section track, sealed and lubricated, single grouser shoes		✓
Waste undercarriage		✓
Extreme service track shoes		✓
ATTACHMENTS		
Multi-shank ripper with CapSure™ ripper tips and shank protector		✓
Single shank ripper with CapSure ripper tip and shank protector		✓
Pin puller (single shank)		✓
Rear striker box with striker bar		✓
Rear striker bar		✓
Rear counterweight		✓
Drawbar		✓
Winch		✓
PUSH ARMS		
Standard	✓	
Extreme		✓



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