

NEW CAT® D11 XE ELECTRIC DRIVE DOZER DELIVERS MORE PRODUCTIVITY AND LOWER OPERATING COSTS

- Caterpillar's first electric drive large dozer provides higher fuel efficiency, more production and lower total cost of ownership than the next generation Cat® D11
- Up to 25% less fuel consumed per unit of material moved, resulting in up to a 25% reduction in GHG emissions
- Up to 10% more power to the ground helps move 5% to 10% more material per hour

IRVING, Texas, September 9, 2026 – Mining operations depend on dozers that move more material efficiently while helping control fuel consumption and operating costs. The new Cat® D11 XE electric drive dozer is designed to help customers do exactly that, delivering up to 25% less fuel consumed per unit of material moved and moving 5% to 10% more material per hour than the next generation Cat D11. Its electric drivetrain has 60% fewer moving parts than a mechanical drive system, helping simplify service and lower owning and operating costs over the life of the machine.

Helping drive the D11 XE's productivity, efficiency and durability improvements are upgrades throughout the machine's powertrain and major systems. The Cat C32B engine operates at a lower high-idle speed to help the D11 XE deliver up to 20% longer life between rebuilds than the D11. Planned component repair intervals for the engine, final drives and hydraulic systems increase from 15,000 to 18,000 hours, aligning with the electric drive's 18,000-hour rebuild centerline. The result is the most efficient and productive D11 model to date, consuming up to 20% less fuel per hour and producing 20% to 25% fewer greenhouse gas (GHG) emissions.

Designed to improve efficiency while reducing drivetrain complexity, the electric drive system eliminates the bevel gear used in mechanical drive systems. The engine drives a generator that sends power through an inverter to two motors, delivering clean, consistent power to the tracks.

"The D11 XE is designed to help customers get more from every hour of operation. By combining the proven capability of the D11 platform with the benefits of electric drive, it delivers meaningful gains in productivity, efficiency and lifecycle value," [said Luke Fischer](#), product application specialist for Caterpillar. "It also reflects how far dozer performance has advanced, offering up to 25% greater efficiency than today's D11 and up to 140% greater efficiency than the first D11N introduced in 1986."

DESIGNED FOR EASIER OPERATION

With no gears to shift, the D11 XE electric drive system simplifies operation. A dedicated drive motor at each track provides power-turn capability for strong maneuverability and pryout force. By powering both tracks throughout the turn, the system enables smoother, sharper maneuvering and helps operators push more material through the turn.

The suspended undercarriage absorbs impact and reduces shock load transfer to the undercarriage by up to 50%, helping create a smoother, more comfortable ride. Accessible, low-effort electronic steering, ripper and dozer controls support precise maneuvering, while the primary multifunction touchscreen gives operators a clear view of machine performance and convenient access to operating settings. Together, these features help operators work more consistently and productively throughout the shift.

LOWER TOTAL COST OF OWNERSHIP

The Cat C32B engine delivers the same power and performance as the Cat C32, with heavier-duty internal components designed for greater durability and longer life. Compared with the D11, the D11 XE can achieve similar total operating hours with one fewer rebuild over the machine's life, helping lower total cost of ownership. The electric drive generator and motors are designed to last through two machine lives with only rebearing and resealing, reducing the investment required during every other rebuild. A modular design allows major components to be removed independently, helping streamline service and minimize downtime.

"Together, these design choices mean fewer service touches and more time available for productive work," [Fischer added](#).

A new radiator guard and upgraded case and frame help improve durability, extend machine life and reduce maintenance downtime. Larger lift-cylinder trunnion bearings simplify service. Redesigned pin joints with replaceable bearings eliminate the need for line boring and simplify bearing-insert replacement on the ripper, blade and push-arm trunnions. Up to 85% parts commonality with the D11 further supports serviceability through shared components and a familiar modular design.

BUILT ON PROVEN D11 PERFORMANCE

Integrated solutions help D11 XE operators work more efficiently, accurately and consistently. Available onboard features include:

- **AutoCarry™** provides automatic blade control during the carry segment to reduce fatigue, help maintain optimum track slip and increase productivity by up to 15%.
- **3D Grade Control** uses dual ROPS-mounted GNSS antennas and blade-mounted inertial measurement unit (IMU) sensors to precisely position the cutting edge without blade-mounted masts or cables.
- **Automated Blade Assist (ABA)** uses standard dual-tilt capability to automate blade movement to key pitch positions, helping increase efficiency and reduce operator workload.
- **Automatic ripper control** automatically adjusts engine speed and ripper depth to maximize productivity, minimize track slip and reduce machine wear.

The D11 XE can also be equipped with Cat® MineStar™ solutions that help operators work more accurately, safely and efficiently. Command for dozing offers multiple levels of remote control and semi-autonomous operation, allowing the operator to work away from the cab. Terrain capabilities help reduce fuel use and rehandling through automated functions and blade overcut protection. Terrain for grading provides guidance such as bench heights, cycle times and material cut-and-fill volumes to help operators improve machine efficiency.

More information on the new Cat D11 XE electric drive dozer, contact a Cat dealer or visit cat.com.

D11 XE SPECIFICATIONS

Engine	Cat® C32B
Powertrain	Electric drive
Emissions	Meets U.S. EPA Tier 2 equivalent and U.S. EPA Tier 4 Final/EU Stage V
Net* power forward - SAE J1349/ISO 9249, kW (hp)	642 (861)
Net* power reverse, Tier 2 equivalent - SAE J1349/ISO 9249, kW (hp)	715 (959)
Net* power reverse, Tier 4 Final/EU Stage V - SAE J1349/ISO 9249, kW (hp)	712 (955)
Forward/reverse speed, infinitely variable, km/h (mph)	0-11.2 (0-7.0)
Operating weight: single-shank ripper, U blade, 28-in ES shoes, kg (lb)	108 316 (238,796)
Operating weight: single-shank heavy ripper, Carrydozer blade, 36-in ES shoes, kg (lb)	117 007 (257,958)
Blade capacity: Semi-Universal, m³ (yd³)	27.2 (35.6)
Blade capacity: Universal, m³ (yd³)	34.4 (45.0)
Blade capacity: Carrydozer, m³ (yd³)	43.6 (57.0)

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*Net power is the power available at the flywheel when the engine is equipped with air cleaner, muffler, alternator, fan and engine emissions equipment as required.