

Caterpillar expands Next Generation dozer Electric Drive lineup with introduction of the Cat[®] D8 XE

All the power of a Cat[®] D8-size dozer, now with the added advantages of Electric Drive — delivering fuel efficiency gains, lower maintenance costs, and increased productivity.

- Electric Drive powertrain delivers increased fuel savings compared to standard D8
- The D8 XE is more productive than the standard D8 model¹
- Offering even lower maintenance and rebuild costs vs. the standard D8 model

LAS VEGAS, March 1, 2026 – Caterpillar has announced the latest addition to its Next Generation dozer range, the Cat[®] D8 XE, reinforcing its commitment to the fuel-saving and maintenance-easing benefits of Electric Drive powertrain technology.

“Our focus on efficiency, productivity, and serviceability is perfectly served by our Electric Drive offering,” says Sam Meeker, market professional for Caterpillar.

Electric drive benefits

Instead of a conventional torque converter, the D8 XE’s Cat C15 engine drives a generator, in turn powering an electric motor connected to the final drives.

“Its headline attraction is the fuel saving,” he continues, “through an internal, head-to-head test in a composite cycle, the D8 XE consumed up to 10% less fuel and moved up to 6% more material in a given timeframe than the standard D8.”²

“But Electric Drive offers more than just a day-to-day saving in fuel costs. It has fewer moving parts than a conventional transmission, adding further potential savings in maintenance and rebuild costs.”

With Electric Drive eliminating torque interruptions, and providing more torque overall, the system provides constant power to the ground for faster, more efficient material movement, Meeker adds.

“What’s more, operators love the easy-to-operate D6 XE, the world’s first high-drive electric drive dozer. The D8 XE will build on the success of the D6 XE since its launch in 2019. After years in development, the combination of power and efficiency from electric drive already praised by owner-operators will carry on in the D8 size class.”

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Cab update

Another stand-out feature of the D8 XE is the adoption of the common cab design seen across the Cat D5-D8 models. Recognizing that comfort and visibility are just as crucial to operator productivity as the machine's inherent power and capabilities, the D8 XE's cab employs the same Next Generation design, making it easier for operators to transition between different machine sizes.

Offering more space than the previous design, the next generation dozer cab also improves all-round visibility. It also features an adjustable air-suspension seat, and a 10-inch (254mm) touchscreen display providing machine overview, technology access, and situation-appropriate operator tips, all accessible intuitively.

Technologies controlled through the touchscreen incorporate several features designed to minimize operator input, allowing productivity to be maintained, even for less experienced operators, while helping reduce effort and fatigue.

Technology and Assist features

Technologies included in the Cat Assist with Attachment Ready Option (ARO) suite of features include Stable Blade, to help produce a smoother surface in manual operation; Blade Load Monitor, which uses GPS to provide real-time feedback on blade and machine load, ground conditions, and track slip; Steer Assist; Traction Control; and Slope Indicate, which informs operators about uphill/downhill grades to optimize slope work. A further optional 360 Vision screen is available to secure better views around the whole machine.

Connectivity and remote support

"As one would expect, the D8 XE also offers enhanced machine connectivity," points out Meeker, "further improving productivity and efficiency."

"Remote Troubleshoot allows a Cat dealer to diagnose problems without a call-out, while Remote Flash enables over-the-air (OTA) updates at the most convenient time, without a software engineer in attendance."

Meeker says these features serve to emphasize why Electric Drive has received such an enthusiastic reception. "As more and more owners and operators experience what they deliver, and how Electric Drive addresses many of the operational and maintenance challenges associated with dozers, we expect that adoption of electric drive systems in earthmoving equipment will continue to grow."

Initially available in North America, Europe, Japan, Australia and New Zealand, the D8 XE will be available in the second half of 2026.

More information on the Cat D8 XE can be found by contacting a Cat dealer or visiting [cat.com](https://www.cat.com).



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¹ Disclaimer: Productivity improvement based on product testing of D8 XE (22A) vs. D8 (22A) in a composite cycle. Productivity measured as material moved per unit of time and verified by time keeping and a surveying drone. Material moved Test conducted by Caterpillar at Washington, IL in October 2025.

² Fuel consumption improvement based on product testing of D8 XE (22A) vs. D8 (22A) in a composite cycle. Fuel consumption measured using a fuel burn meter. The test was conducted by Caterpillar at Washington, IL in October 2025.

³ Maintenance costs based on comparison of D8 (21B) and D8 XE (22A) recommended maintenance interval schedule and recommended component rebuild schedule.

⁴ Rebuild costs based on comparison of D8T/D8 (21B) and D8 XE (22A). Recommended rebuild of certified powertrain and hydraulics.

Engine	Cat C15
Powertrain	Electric Drive Powertrain
Emissions	Meets U.S. EPA Tier 4 Final/EU Stage V/Korea Stage V/Japan 2014/China Nonroad Stage IV
Net power (ISO9249), kW (hp)	275 (369)
Operating weights	
Standard configuration, kg (lb)	40 100 (88,405)
LGP Standard configuration, kg (lb)	38 685 (85,286)
Waste Handler configuration, kg (lb)	40 500 (89,287)
LGP Waste Handler configuration, kg (lb)	42 145 (92,914)
Blade capacities	
Semi-universal (SU) blade, m³ (yd³)	10.3 (13.47)
LGP Semi-universal (SU) blade, m³ (yd³)	9.9 (12.95)
Semi-universal (SU) landfill blade, m³ (yd³)	21.2 (27.73)
LGP Semi-universal (SU) landfill blade, m³ (yd³)	22.2 (29.04)

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NOTE TO EDITORS

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