

# Caterpillar announces annual product updates for Cat<sup>®</sup> hydraulic excavators

- Cat<sup>®</sup> Grade with 2D delivers real-time guidance for vertical and horizontal control; new factory-installed option for Cat Grade 3D
- Latest User Interface gets crews to work without delay
- Advanced Payload option now available for track excavators

**IRVING, Texas, May 27, 2025**—Caterpillar announces multiple updates for its Cat<sup>®</sup> Hydraulic Excavator line as part of its annual product update (APU) program. Helping to improve machine efficiency and get operators quickly to work, the enhancements include Cat Grade technologies, a new User Interface (UI) for quick navigation and an Advanced Payload option for Cat track excavators. These updates apply to Cat small, medium, and large excavators, plus material handlers, wheeled excavators, and forestry and specialty machines.

## **Cat Grade enhancements**

With 2025 model builds, Cat Grade with Advanced 2D features and functions are now integrated into standard Cat Grade with 2D. Compared to traditional grading methods, Cat 2D technology empowers operators to work more efficiently in a range of applications by delivering real-time guidance for accurate vertical and horizontal control. It helps to ensure that cuts and fills are made to exact specifications, without undercutting or overcutting, and can eliminate the need for ground stakes in most applications.

“Our 2D grading technology provides easy adjustments to target depth and slope using joystick commands, the touchscreen interface, or a jog dial. It displays target grade with visual guidance plus height and depth,” says Jason Ho, senior global product consultant – excavation for Caterpillar. “To help ensure long life, the integrated components are protected from damage, and 2D works with multiple bucket types, including digging, cleaning, grading and tilting.”

For customers grading complex designs, Grade with 3D technology is now a factory-installed option that can be ordered for track and wheeled excavators. This new option includes all the hardware required for the 3D system, installed and tested from the factory. It provides an easier upgrade path for customers who want to add Cat Grade with 3D after initial purchase.

## **New user interface**

Cat Payload for excavators and material handlers delivers precise bucket load information with on-the-go weighing to help prevent overloading or underloading. From reordering work tool lists to creating new work tool combinations, the display's new UI starts quickly and enables operators to easily set up machines and

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access information so they get to work without delay. Operators keep track of the amount of material moved and can split tasks between truck loading in Weigh Mode and moving material around the site in Stockpile Mode. The ability to input couplers and attachments into the system makes setting up work tool combinations highly efficient by significantly reducing calibration time.

“While Cat Payload helps operators to accurately hit load targets and avoid underloading, overloading or misloading materials,” adds Ho, “customers with track excavators can upgrade the system to Advanced Payload for expanded capabilities such as custom tags, daily totals and electronic ticketing. When combined with VisionLink®, Advanced Payload enables customers to analyze job sites and individual assets for remote management of production targets and key metrics.”

Cat Advanced Payload helps customers to:

- **Lower costs** – by saving time, labor and fuel consumption.
- **Improve accuracy** – with precise payload targets that help eliminate over and underloading.
- **Increase efficiency** – helping new operators to get up to speed faster and experienced operators work more accurately.
- **Monitor safety** – by helping to prevent truck overloading, which results in heavier and more unstable loads.

### Cat Operator Training

All the latest APU 2025 features in action can be viewed on Cat Operator Training at [www.catoperatortraining.com](http://www.catoperatortraining.com). Caterpillar’s Equipment Training Solutions (ETS) team develops and executes training programs for Cat equipment operators and jobsite supervisors and certifies operators in the Cat dealer network. The comprehensive training solutions help operators maximize production and improve safety through a variety of training solutions, including eLearning, instructor-led, simulators, and custom training programs.

**More information on the new upgrades for Cat Hydraulic Excavators can be found by contacting a Cat dealer or visiting [www.cat.com](http://www.cat.com).**

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## NOTE TO EDITORS

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