

New Cat[®] 775 off-highway truck previews the next generation design and the future of autonomy

- Designed with autonomy in mind
- Innovative new frame design
- Refined suspension

MUNICH, Germany, April 7, 2025—Caterpillar Inc. is showcasing the new Cat[®] 775 off-highway truck at bauma-Munich 2025, spotlighting the company's ongoing leadership in technology and autonomous capabilities. The machine is the first next generation design of off-highway trucks for the company. Distinguishing it from the previous 775 models, this 65-tonne (71-ton) payload hauler is engineered to enable fully autonomous capabilities in the future.

"The design of the Next Gen 775 represents a significant leap forward in off-highway truck technology, offering unmatched power, efficiency and safety features," says Tony Fassino, group president of Caterpillar Construction Industries. "Visitors at bauma will see our full range of technology offerings, from remote control to semi-autonomous to the future of autonomous machines in construction."

Caterpillar is leveraging its current Autonomous Hauling Systems (AHS), Cat[®] MineStar[™] Command for hauling, already at work at mine sites throughout the world, and scaling the system's processes and technology to meet the specific needs for quarry operations.

"We are using the lessons learned from working with our US-based customer, Luck Stone, where we have MineStar Command for hauling installed on four Cat 777 trucks," Denise Johnson, group president of Caterpillar Resource Industries. "The shift to the aggregate industry, where we are automating fewer trucks that don't haul material 24 hours a day, is helping transform our technology and processes to manage smaller operations."

The Cat 775 next generation truck has a planned introduction in 2026. Autonomous capabilities with MineStar Command for hauling are currently under development, and a release date will be announced at a later date.

Productivity

The 775 features an innovative new frame design that helps to optimize payload weight, a refined suspension for improved ride and handling, and advanced safety features like the 360-degree surround cameras and Cat Detect radar system to deliver superior performance and safer and more comfortable operation.

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“Compared to previous models, our next generation 775 off-highway truck features an industry-first frame design that reduces empty weight delivering the potential for larger payloads and lower fuel burn. Plus, its 10% more body volume and improved turning radius helps to boost productivity and performance,” says David Holthaus, senior engineer and team lead for the Cat 775.

Performance

With more body volume, the truck’s new frame is optimized for weight distribution and structural efficiency. Compared to the 775G series truck, there is nearly 30% less welding to minimize the risk of cracks and improve frame life. Less internal welding and ease of frame repairability help lower costs to maintain the new 775 over an estimated 40,000-hour truck life.

Its redesigned suspension boasts a lower center of gravity. The 775 has shown to deliver better handling than previous designs, and an updated turning radius enhances on-site maneuverability. Improving service life, the truck experiences less bouncing on the tires and driveline, and the operator feels less vibration and energy feedback into the truck.

The truck is powered by the 615-kw (825-hp) Cat C27 engine and comes in different emissions configurations to meet different global regulations. The U.S. EPA Tier 4 Final/Stage V version displayed at bauma offers better fuel efficiency than previous models, with advanced electronic powertrain controls that deliver faster cycles and reduced road maintenance. The truck’s enhanced ride and handling allow for higher speeds on curves and driving in higher gears, which directly reduces fuel consumption during the cycle.

Safety

The new cab is designed for efficiency and equipped with features to automate functions. The large windows give the operator visibility to the work area and surroundings. Automatic cab temperature controls and the Cat next generation deluxe seat is designed to help to improve operator comfort.

Its 360-degree surround cameras with object detection alerts operators to hazards within the immediate vicinity, making it easier to safely operate the new 775. Cat Detect combines radar and camera systems to automatically detect hazards within critical areas around the truck—primarily the front, rear and turning radius on each side.

Serviceability

Multiple key maintenance and service contributors have been reduced with the new truck design. The next generation of enhanced serviceability incorporates extended-interval filters with ground-level access, ground-level lockout features and a serviceable suspension. Its design is fire suppression ready to simplify system installation.

The ability to access and analyze accurate real-time data enables faster diagnostics and enhances the ability to predict and prevent machine failure. New for the 775, remote flash and troubleshooting capabilities help to

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boost truck availability. Remote flash instantly provides access to the latest software updates and enables the updates to be scheduled and executed at a time that doesn't interrupt the production schedule. Remote Troubleshoot enables the dealer to perform diagnostics remotely while the truck is still in operation.

More information on the new next generation Cat 775 off-highway truck can be found by contacting a Cat dealer or by visiting [cat.com](https://www.cat.com).

775 SPECIFICATIONS

Engine	Cat® C27
Gross power SAE J1995 – kW (hp)	615 (825)
Gross vehicle weight – kg (lb)	111 811 (246,500)
Nominal payload capacity – tonne (ton)	65 (71)

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NOTE TO EDITORS

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