New dozer offers increased fuel efficiency,
enhanced serviceability

Caterpillar unveiled a new dozer, the new Cat D10T2 dozer, that builds on the success the company has had with its D10T model.

The newest version of the dozer includes refinements to its power train, automated controls and structures. The result, the company said, is high productivity with superior fuel efficiency, reliable operation with long-lived structures, as well as enhanced access for service technicians and operators.

The D10T2 uses the latest load-sensing hydraulics technology combined with Cat advanced engine controls to maximize the amount of material moved for every drop of fuel burned. Improved filtration protects the fuel system, hydraulic system and power train oil system to help ensure high reliability and minimal machine downtime. Refined large structures, such as redesigned track roller frames, deliver longer service before rebuilds. Improved access and egress features enhance safety and productivity of technicians and operators, and optional powered access systems and platforms enable configuring the D10T2 for the site.

Caterpillar offers the D10T2 with two variations of the Cat C27 engine with ACERT Technology. One version is U.S. Environmental Protection Agency (EPA) Tier 4 Final certified, and the other is capable of achieving emission levels equivalent to EPA Tier 2 standards. Both engine configurations produce net power of 447 kW (600 hp) in forward gears and 538 kW (722 hp) in reverse gears. The engine controller automatically adjusts power output based on the direction of travel. With the new system, the D10T2 has about 20 percent more power in reverse compared to its predecessor model. The result is faster cycle times and greater productivity in certain applications.

The D10T2 is suited for a variety of applications including mining, heavy construction and bulk materials handling.

Smart machine

The D10T2 employs field-proven, load-sensing implement hydraulics to boost fuel efficiency and machine performance. The system automatically and continuously adjusts implement hydraulic power and delivers the right levels of flow and pressure to get the job done as efficiently as possible. The net result is more power available for the tracks to move the machine ahead.

Enhanced AutoShift (EAS) is a new standard feature on the D10T2. EAS improves fuel

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D10T2 Dozer Specifications	
Engine	Cat C27 ACERT
Net engine power, FWD/REV	447/538 kW (600/722 hp)
Operating weight	70,171 kg (154,700 lb)
Transmission	3F/3R planetary powershift
Length of track on ground	3,885 mm (153 in.)
Track gauge	2,550 mm (100 in.)

Blade capacity
    Semi-universal
    Universal
	
	18.5 m³ (24.2 yd³)
	22.0 m³ (28.7 yd³)

efficiency and productivity by automatically selecting the optimal gear and engine speed combination based on power train load and desired ground speed. This feature functions similarly to an automatic transmission. EAS functionality, combined with the increased power in reverse, enhances productivity when backing up slopes.

A number of new, optional electronic systems are available to assist the D10T2 operator. These automatic functions unburden the operator and boost productivity. Proven on the D10T, the optional Autocarry system provides automatic blade control during the carry segment of the dozing cycle by measuring ground speed and track slip with a robust global navigation satellite system (GNSS) receiver. Autocarry changes blade position automatically to keep track slip at the optimum level for best performance. The D10T2 now offers a new feature, Adaptive Load Select, which enhances Autocarry by automatically adjusting blade load based on operating conditions, such as underfoot conditions and track wear. Similarly, the new automatic ripper control monitors speed with GNSS and automatically adjusts engine speed and ripper depth to minimize track slip.

Cat MineStar System can take blade control even further. Terrain for Grading enables an electronic site plan to be sent to the machine from the office in real-time, showing the operator where to cut and fill. Now available is Terrain for Grading with blade control. The new blade control system automatically guides the blade to the desired design contours, and it is integrated with Autocarry to sense and automatically control the load of the blade for improved performance and efficient blade loading in high production dozing applications.

For more information about the D10T2, contact the local Cat dealer or go to: mining.cat. com. ■