

High-efficiency electric drive system for the Cat[®] R2900 XE Underground Loader reduces fuel consumption, GHG emissions

TUCSON, Ariz., September 21, 2024 – The diesel-electric Cat[®] R2900 XE load-haul-dump (LHD) loader is built on the R2900G's platform, Caterpillar's most popular underground loader. It features optimized lift arm and component geometry plus load-sensing hydraulics to improve breakout force by 35% over the R2900G. The R2900 XE meets the underground mining industry's needs for bigger payloads, faster loading, reduced exhaust emissions and low total cost of ownership.

- Works fast in tough conditions and offers 52% quicker acceleration than the R2900G
- Accelerates from 0-24 km/h (0-14.9 mph) in 6.4 seconds for 7% higher speed on grade
- Its higher 18.5-tonne (20.4-ton) payload offers fast cycle times and a 3- to 4-pass match to the Cat AD63 truck for improved efficiency
- The R2900 XE LHD features the field-proven switch reluctance (SR) electric drive system
- No driveline or powertrain shock loads deliver smooth directional changing
- Increased axle component size and four-gear planetary final drive groups provide greater strength and longer life than the R2900G
- STIC[™] (steering and transmission integrated control) steering provides maximum responsiveness and machine control
- Two emergency exits plus optional rearview and forward- and rear-facing sideview cameras help to improve visibility to enhance safety for operators and workers
- Autodig technology automates critical parts of the digging cycle to optimize loading and traction control for maximum tire life
- Cat Payload Management (CPM) produces material management, cycle count, timing recording and wireless production detail reporting capabilities
- Electric drive reduces the number of parts compared to mechanical drive systems
- Standard Product Link[™] Elite system for machine health monitoring boost connectivity and increases the availability of data provided by the R2900 XE

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TRADE PRESS RELEASE

Product Update

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