

# High-efficiency electric drive system for the Cat<sup>®</sup> R2900 XE Underground Loader reduces fuel consumption, GHG emissions

TUCSON, Ariz., September 21, 2024 – The diesel-electric Cat<sup>®</sup> 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<sup>™</sup> (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<sup>™</sup> Elite system for machine health monitoring boost connectivity and increases the availability of data provided by the R2900 XE

####

# TRADE PRESS RELEASE

Product Update

## **About Caterpillar:**

With 2023 sales and revenues of \$67.1 billion, Caterpillar Inc. is the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. For nearly 100 years, we've been helping customers build a better, more sustainable world and are committed and contributing to a reduced-carbon future. Our innovative products and services, backed by our global dealer network, provide exceptional value that helps customers succeed. Caterpillar does business on every continent, principally operating through three primary segments – Construction Industries, Resource Industries and Energy & Transportation – and providing financing and related services through our Financial Products segment. Visit us at [caterpillar.com](https://caterpillar.com/en/news/social-media.html) or join the conversation on our social media channels at [caterpillar.com/en/news/social-media.html](https://caterpillar.com/en/news/social-media.html).

Caterpillar rolls out products and services in each of its regions at different time intervals. Although every effort is made to ensure that product information is released only after Caterpillar has received confirmation from its independent dealer network, plants, and marketing subsidiaries that products and services are available in the relevant region, editors are kindly requested to verify with a Cat dealer for product availability and specifications.

CAT, CATERPILLAR, LET'S DO THE WORK, their respective logos, VisionLink, MineStar, "Caterpillar Corporate Yellow," the "Power Edge" and Cat "Modern Hex" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

Release Number: 177PR24 — September 2024

For Release: Worldwide

