

THE NEW CAT® R2900 XE UNDERGROUND LOADER

**FASTER.
CLEANER.
MORE
POWERFUL.**

1. Four bucket sizes available and full range of Cat® GET offerings to achieve best productivity while maximizing bucket life
2. Proven frame design for increased durability
3. New front frame with redesigned Z-bar Loader Linkage geometry for better bucket loading and material retention
4. Aggressive hydraulic performance for improved loading times and common implement control and load sensing pumps with controllable flow
5. Superior productivity without burning more fuel: 52% quicker acceleration, improved machine response, 31%+ reduction in fuel consumption and 35% increase in breakout force*
6. Standard enclosed ROPS/FOPS cabin with ergonomic layout, Operator Present System and interior and exterior safety details
7. Steering and Transmission Integrated Control (STIC™), which combines directional selection, virtual gears and steering into a single lever for maximum responsiveness and control
8. Autodig function to optimize loading and traction control to maximize tire life
9. Product Link™ Elite (PLE) System for machine health monitoring
10. High-efficiency electric drive system, which replaces the traditional mechanical transmission in the R2900
11. Efficient Cat C15 engine, provided in EU Stage V or Tier 2 configurations, and diesel particulate filtration
12. Cat Switched Reluctance electric drive system for additional advantages
13. Single bolt-in fuel tank with ground level access for easy maintenance
14. Ready for Cat Minestar™ for underground technology
15. Fewer moving parts than traditional torque converter and mechanical transmission systems; extended maintenance intervals over mechanical powertrains
16. Radiator guard swings open to allow service access; high-efficiency radiator available as optional cooling package
17. Easily accessible ground-level service station
18. Flatfold handrails

*Compared to R2900G



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18 500 kg / 40,785 lb
RATED PAYLOAD

32 500 kg / 71,500 lb
42 000 kg / 92,500 lb
CALCULATED BREAKOUT FORCE
(LIFT / TILT)

335 kW / 449 hp
ENGINE POWER
STAGE V ENGINE – ISO14396:2002



SUPERIOR PRODUCTIVITY

- » 18.5-tonne / 20.4-ton payload for 3- to 4-pass match with Cat AD63 truck
- » Instant machine response, 52% faster acceleration and reduced cycle times vs. previous model*
- » Greater than 31% improvement in fuel efficiency during load and carry*

*Compared to R2900G



SAFETY

- » Ansil LVS (wet) Fire Suppression available; fire suppression activation from within the cab
- » Operator Present System using the door sensor and the latch sensor
- » Door and seat belt monitoring systems available
- » Tire pressure monitoring system available
- » Dual secondary emergency exits
- » Tow hook design is bolt-on and removable



HIGH-EFFICIENCY ELECTRIC DRIVE SYSTEM

The new R2900 XE features a proven switched reluctance electric drive system that is Caterpillar designed, integrated, validated and supported. The benefits include:

- » Improved power and cycle times
- » Continuously variable speed control
- » Implemented virtual gears for machine controllability
- » Automatic retarding controls for maintaining speed on grade
- » Anti-rollback feature
- » Smoother directional changing, with no driveline or powertrain shock loads
- » Programmable speed management, which improves operator efficiency and reduces fatigue
- » Neutral creep and coasting inhibitor
- » Torque control, which reduces brake applications



REDUCED MAINTENANCE AND REPAIR

- » Diesel electric drive, which reduces maintenance and repair costs
- » Increased component life and extended service intervals
- » Stronger frame for increased durability
- » Traction control for maximized tire life
- » Cat Electronic Technician (Cat ET) service tool, which enables quick electronic diagnosis of machine performance and key diagnostic data for effective maintenance and repairs

