

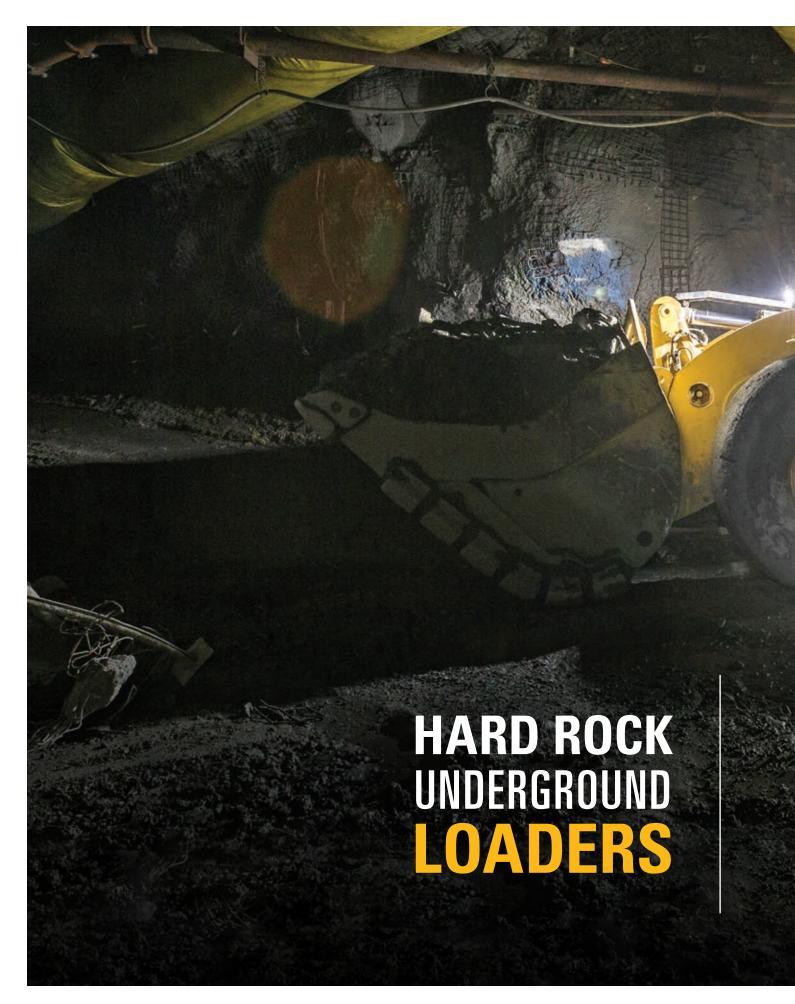


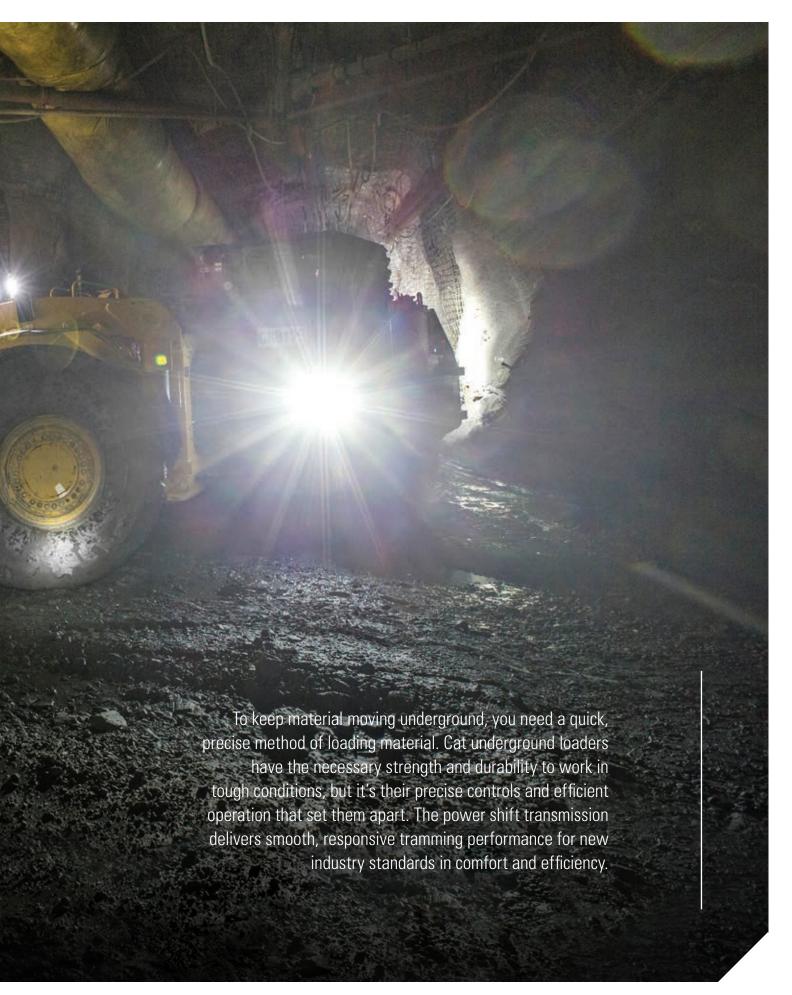
No matter what you mine — or how far underground you mine it — you need an equipment provider that understands the unique problems you face, and that has years of experience in solving them. You need a partner like Caterpillar.

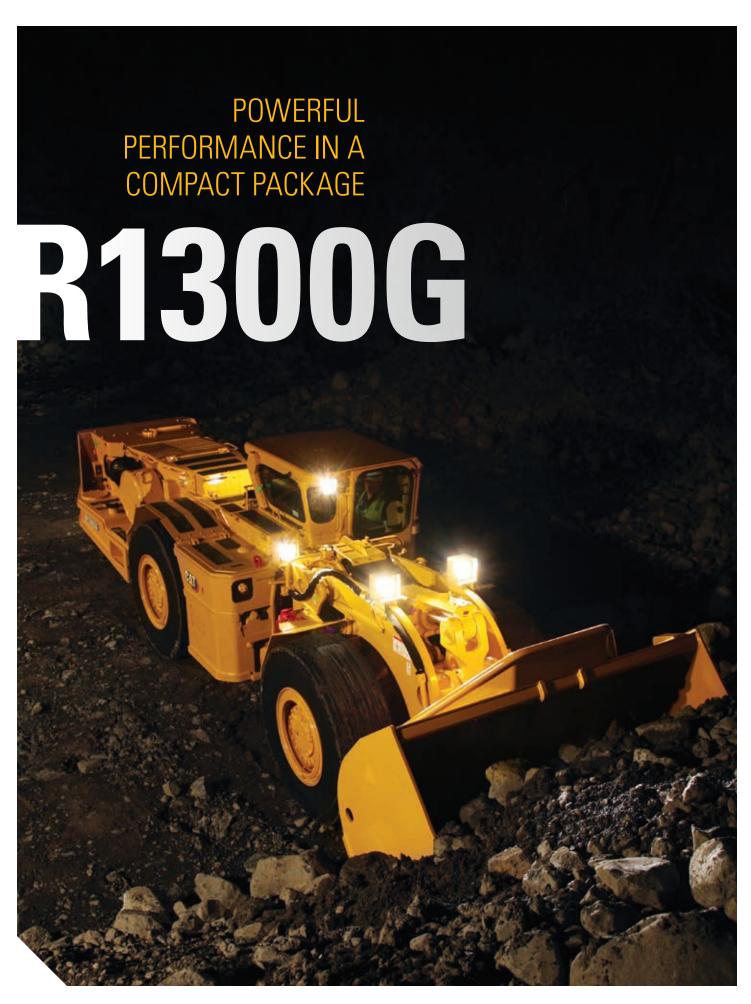






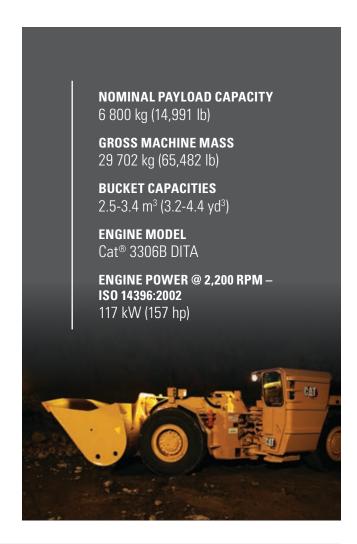




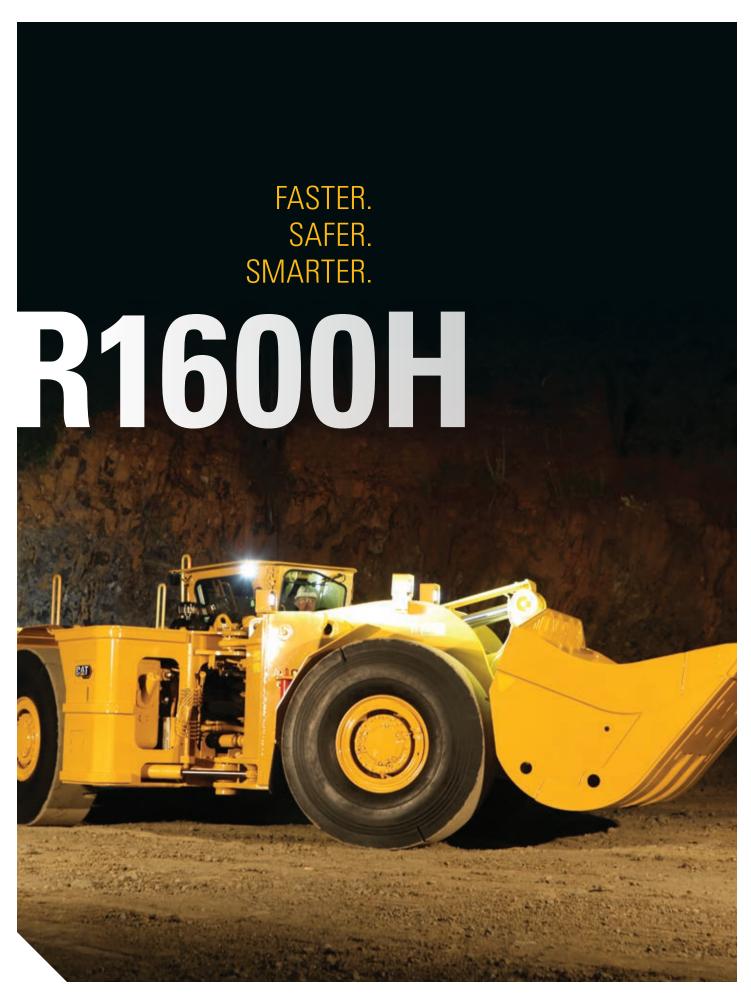


R1300G

The R1300G is our smallest LHD, but with a breakout force of 12 020 kg (26504 lb) and 117 kW (157hp) of engine power, it brings maximum production capability to smaller mines. An operator favorite, the R1300G features excellent loaded weight distribution, ride control and seat suspension for maximum comfort. To raise the bar on air quality in your mine, you can equip your R1300G with an optional diesel particulate filter. The R1300G is an ideal match for the Cat AD22 truck.

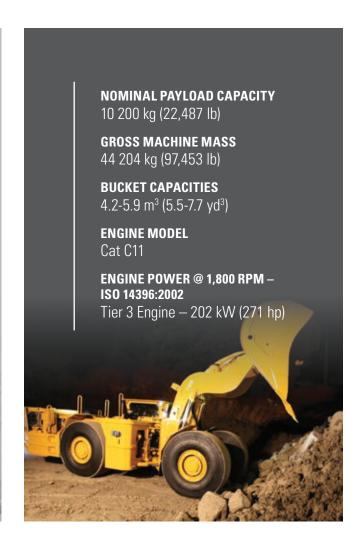




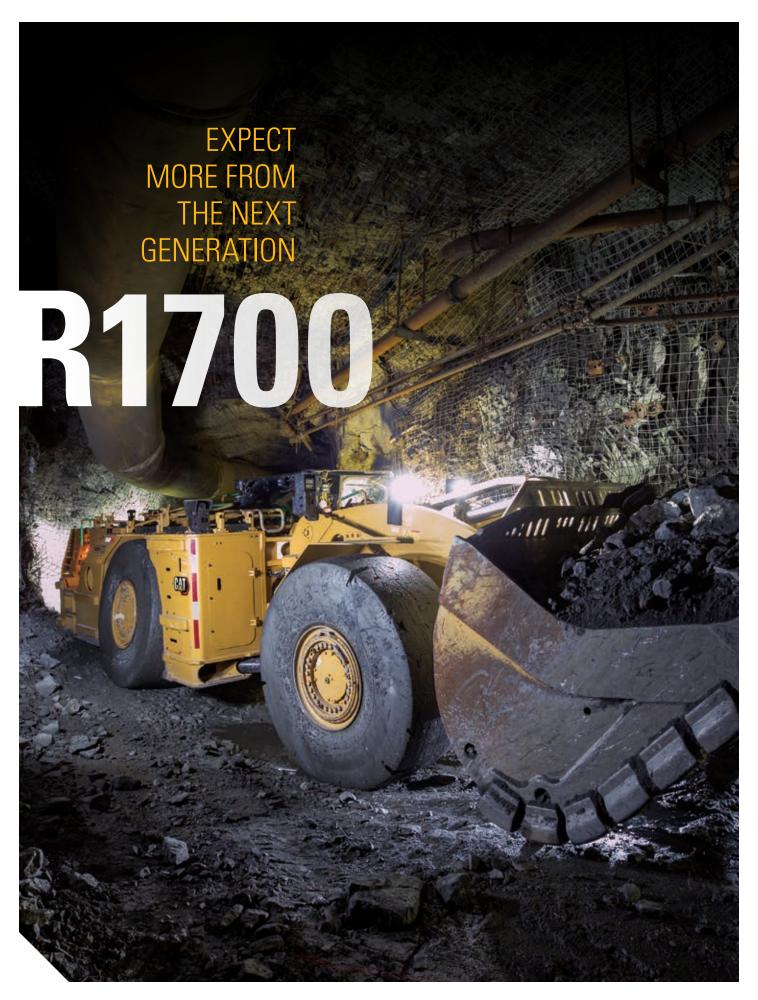


R1600H

The R1600H has a powertrain tuned specifically for speed on grade — mastering poor floor conditions and delivering maximum production in all speed ranges. The loader offers a number of safety features, from fire suppression and safety glass to the ability to incorporate autonomous operation. Thanks to the extreme durability designed into the structure, the R1600H can be productive through up to four rebuilds. The R1600H is an ideal match for the Cat AD30 truck.







R1700 A clean-sheet redesign, the R1700 loader leverages engineering talent from across Caterpillar to bring new levels of productivity, operator comfort and service convenience to your operation. The R1700 is Stage V emissions capable and factory-ready for a full suite of technology solutions. It carries 20% more material with each pass and is highly aggressive in the pile. Ten bucket options, including ejector and bolt-together buckets, are available to suit unique mining applications.





SUPERIOR PRODUCTIVITY. ZERO EXHAUST EMISSIONS.

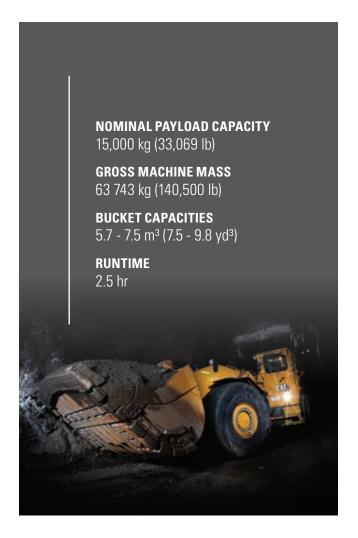
BATTERY ELECTRIC

R1700 XE



R1700 XE

The R1700 XE is a high productivity, zero-exhaust-emission loader with the industry's only onboard battery. It provides an alternative to expensive static charging station infrastructure, the need for additional batteries, and battery handling and swapping. It charges quickly — in less than 20 minutes when paired with two of the durable and mobile Cat MEC500 chargers. It features Autodig for optimized loading and is factory-ready for autonomous operation. And it delivers the powerful performance, maximum uptime and low operating costs you demand.

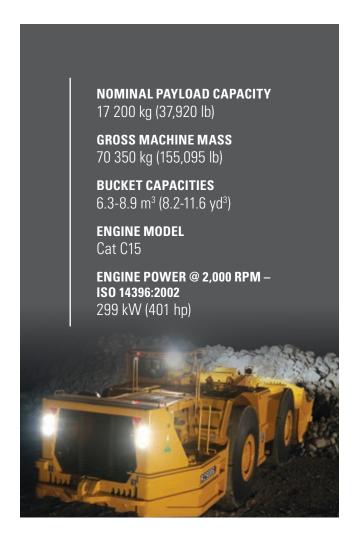




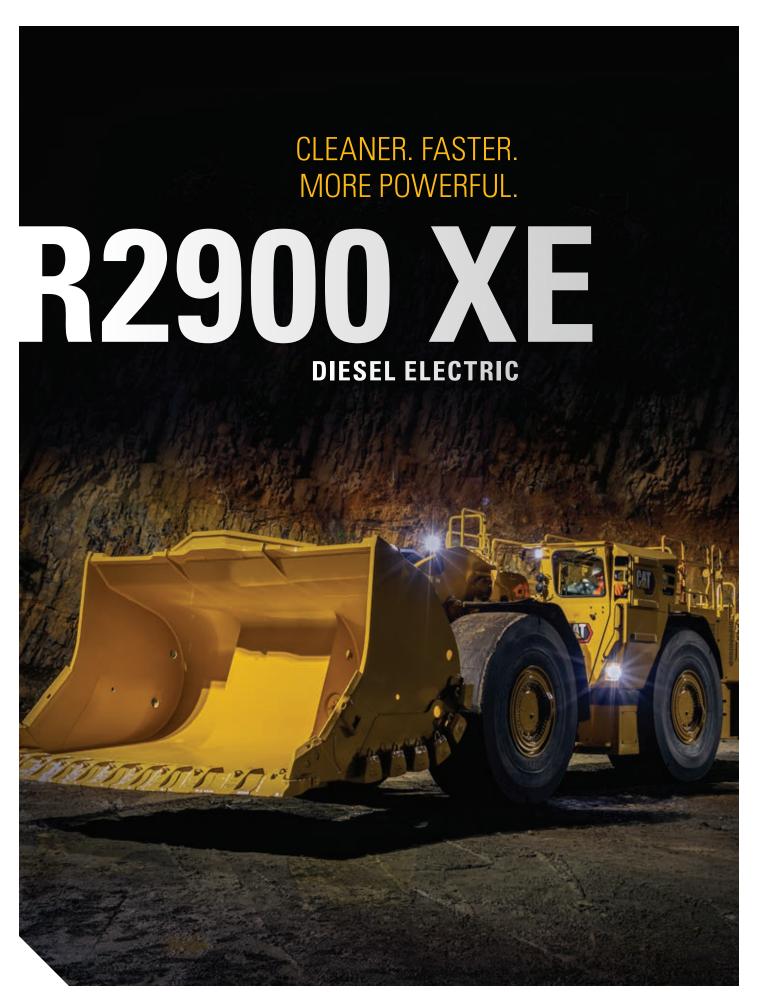


R2900G

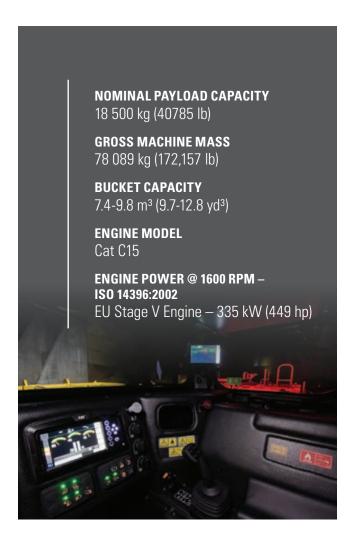
The Cat R2900G underground loader is designed for high-production, low cost-per-ton loading and tramming in underground mining applications. An operator favorite, it delivers a safe, comfortable ride in a cab equipped with easy-to-use controls and efficiency-boosting features that optimize performance and maximize productivity. Its compact design provides agile performance combined with rugged construction and simplified maintenance to ensure excellent productivity, long life and low operating costs.







R2900 XE The R2900 XE was built from the ground up for increased production. Its 18.5-tonne (20.4-ton) payload allows it to load Cat AD63 trucks in 3 to 4 passes for maximum throughput. Faster acceleration, instant machine response and higher speed on grade make for shorter cycle times, while greater breakout force and higher lifting height make digging and loading faster than ever.





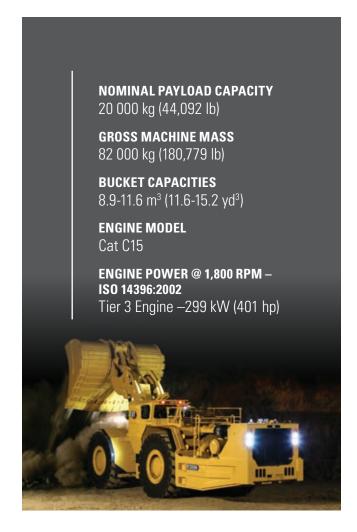
SUPER PRODUCTIVE AND BUILT TO LAST

R3000H

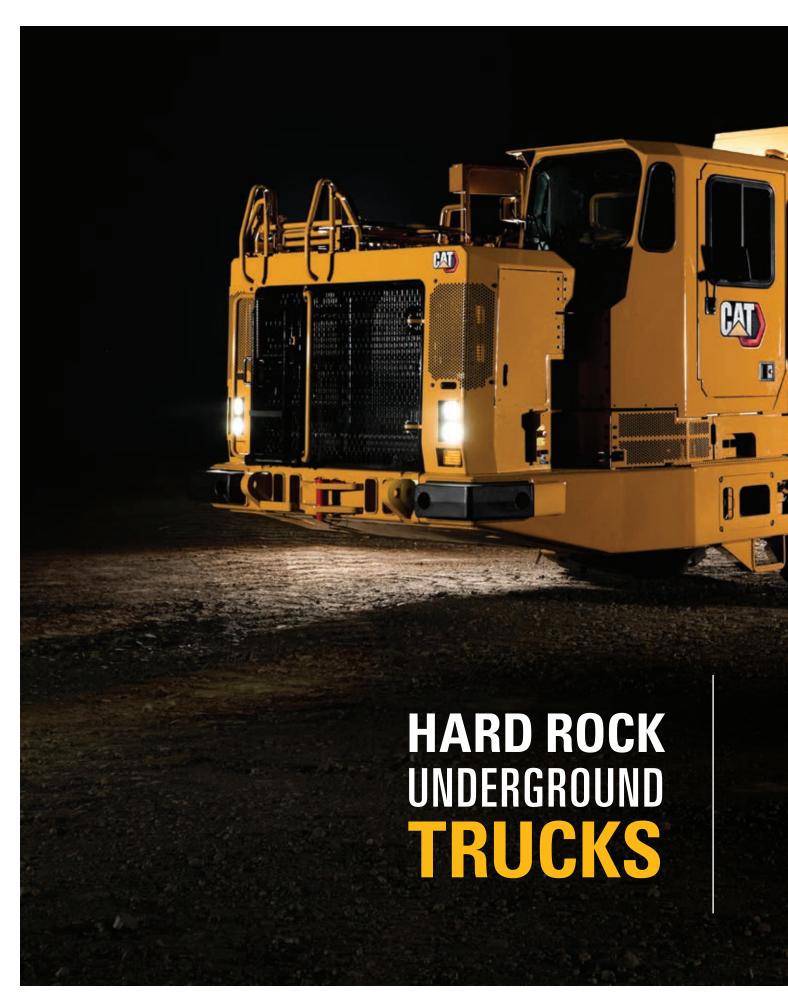


R3000H

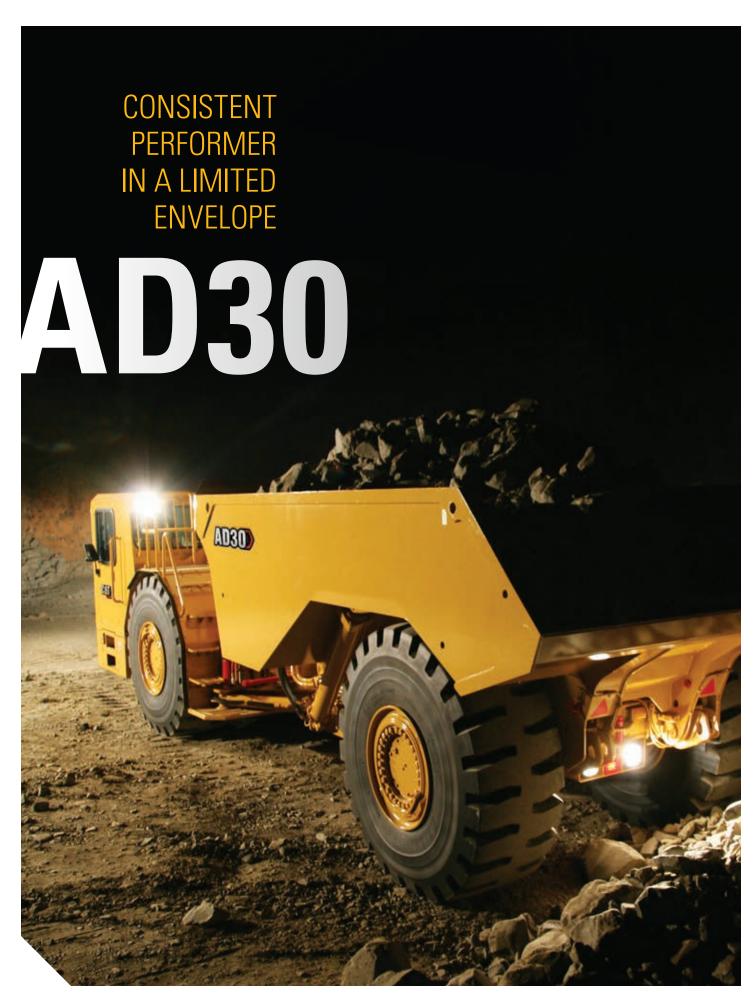
Designed for the largest underground mines, the R3000H is an updated, super-productive 20-tonne (22-ton) machine that specializes in lowering costs. Most of the latest Cat safety features come standard on this machine, including the operator presence system. With its 100% Cat powertrain, performance, long-term durability and ease of maintenance are built in.





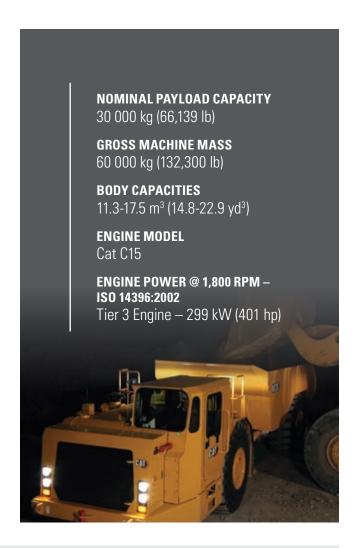




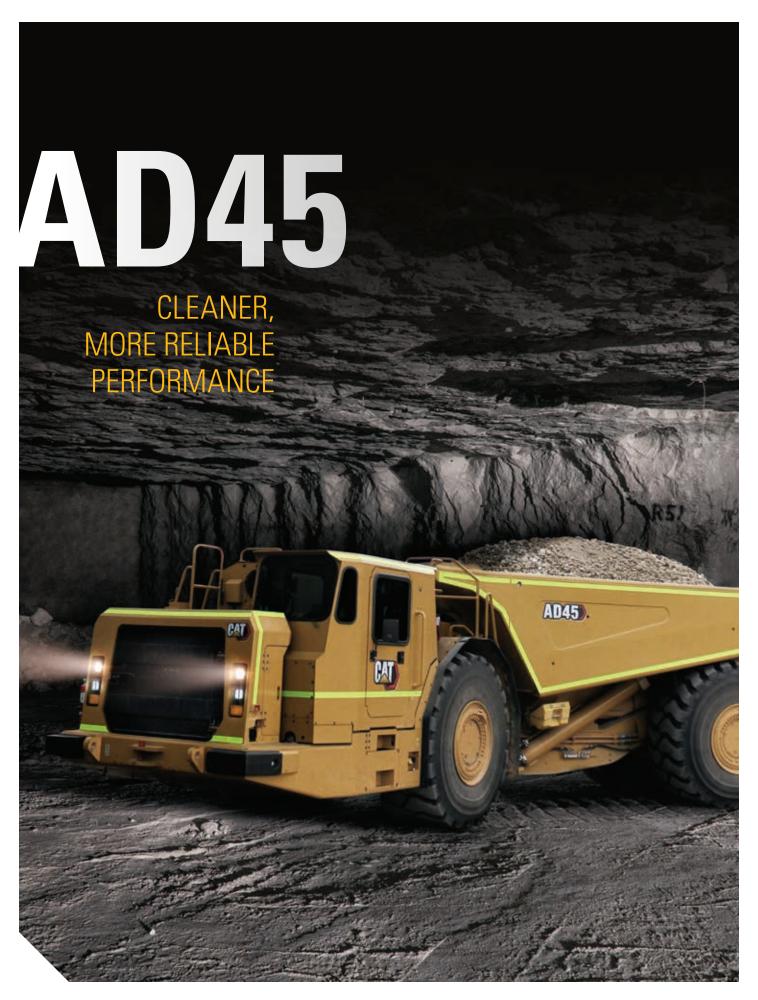


AD30

Ideally suited to entry sizes of 4 × 4 meters (13 x 13 feet), the AD30 is a medium to smaller mine hauler that is perfectly matched to the R1600H LHD. This proven and recognized industry leader is engineered for performance. Its Cat C15 engine provides unequaled lugging force while traversing steep grades. Torque rise effectively matches transmission shift points for maximum efficiency and fast cycle times. The cab is ergonomically designed for all-day comfort, control and productivity. Rugged construction and easy maintenance guarantee long life with low operating costs.



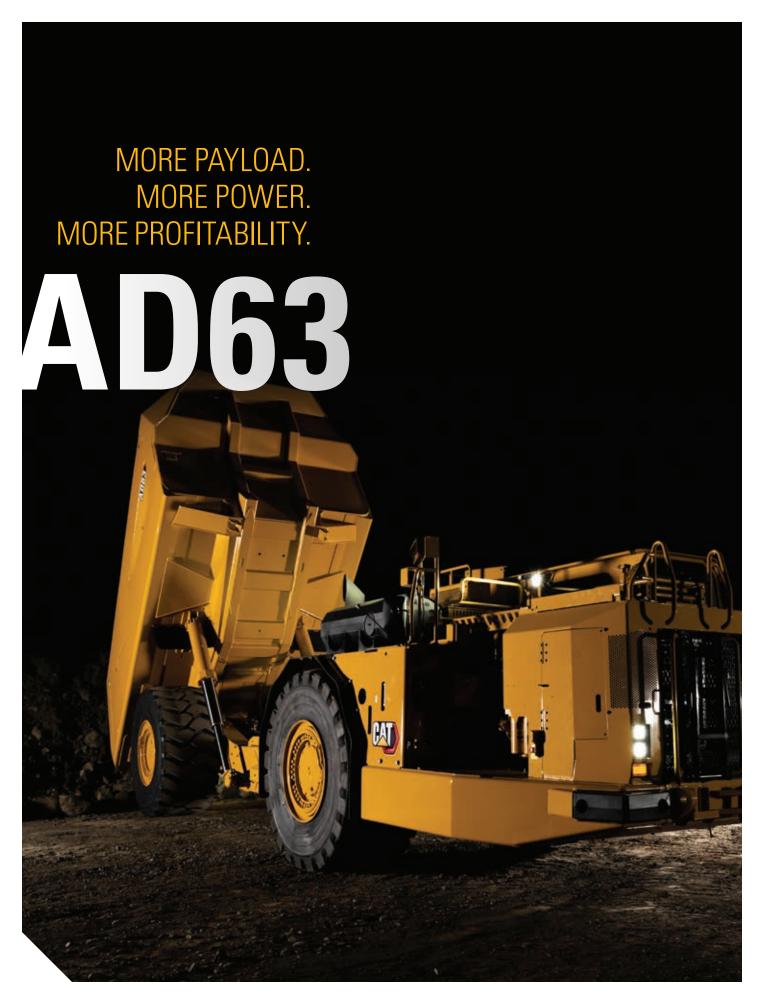




AD45 Based on the proven performance of the AD45B, the AD45 underground articulated truck is powered by the Cat C18 engine, with scalable solutions to meet emission regulations, including the industry's strictest — EU Stage V. A perfect match for the flagship Cat R1700 loader, the AD45 delivers proven operating efficiency and improved serviceability. The truck can be fitted with Payload Measurement System (TPMS), and the new Product Link™ Elite (PLE) system is a standard feature.







AD63

With 5% greater payload and more torque, the AD63 underground truck delivers more production than its predecessor.

The AD63 is powered by the Cat C27 engine, which offers the perfect balance between power, robust design and economy. In addition, the C27 meets the strictest nonroad emission standards (EU Stage V) and is approved by CANMET for use in underground mines.

Five body sizes, including a new lightweight dump body, ensure optimal performance and reliability in tough mining applications. The truck can be fitted with Payload Measurement System (TPMS), and the new Product Link Elite (PLE) system is a standard feature.





THE RIGHT OPTIONS

TRUCK BODY SYSTEMS

FOR THE JOB

Selection of the right body depends on material, haul road, and dump conditions. The better the match of body to application, the greater the efficiency. Your Cat dealer can help you select the right body size and system for your specific application.

Caterpillar offers two specific body styles — a dump body and an ejector body — for the most efficient hauling solutions at the lowest cost per ton.

Cat truck bodies are designed for optimal strength, capacity and durability. Drawing on years of experience in truck body design, Cat truck bodies are designed for long service life and low cost per ton. They're designed and matched with the integrated chassis system for optimum structural reliability, durability and long life.

TRUCK PAYLOAD MANAGEMENT SYSTEM (TPMS)

The optional TPMS system calculates the payload the truck is carrying and determines truck cycle times. It now offers digital payload scoreboards on both sides of the truck providing the LHD operator with visual real time payload data.

DURABLE CAT BUCKETS

Cat underground loader buckets deliver unmatched productivity and structural reliability to help lower your cost-per-ton. Our bucket design is also improved with the use of two types of cast corners to help strengthen the side plate to bucket lip joint as well as allowing for various cutting edges.

Buckets are available in a range of sizes to suit material types and densities, with multiple options including dump buckets, ejector buckets and the new bolttogether bucket.

Bolt-together buckets feature a modular design and multiple components for ease of transportation and assembly, with no underground welding required. Designed and fabricated for abrasive materials, they deliver long life, require less maintenance and reduce overall costs.

OPTIONAL AUTODIG FEATURE

Some Cat underground loaders can be equipped with Autodig, an autonomous digging and bucket loading function that helps new operators be productive on the first day and reduces fatigue for experienced operators. This function also enables autonomous haulage through MineStar™ Command for underground.



BOLT-ON HALF ARROW GROUND ENGAGING TOOLS

For the entire underground loader line, Caterpillar now offers Bolt On Half Arrow ground engaging tools (GET) for bucket edges. The system is designed for high abrasion applications where weld-on GET experience high wear rates. With a proven and reliable retention system, the bolt-on GET offer more wear material than standard weld-on GET, and the bolt-on design enables fast and easy removal and replacement. Despite additional wear material, the low-profile front edge eases pile penetration and promotes fast bucket loading.

BOHA GET can reduce changeout times while extending the life of traditional weld-on GET option. BOHA GET are bolted onto the bucket instead of welded — shortening replacement time from as much as 40 hours to as little as one or two. And with no need for welding, they are easier to replace.



CAT MODULAR SEGMENT WELDED GET SYSTEM Modular shrouds deliver welded part reliability with the replacement simplicity of a mechanical system. Integrated bevel allows for faster weld installation time — 20% faster than competitive shroud systems — and creates an 18% stronger modular shroud assembly by locking segments together. Wear indicators are visible from the top to help establish maintenance intervals.



PARTNERS BEYOND THE IRON

Caterpillar offers a breadth of machines for underground mining. But the power of Caterpillar is more than iron. It's our technologies, which are helping mines optimize their operations, improve the way they manage equipment health and keep people safe. It's the end-to-end services we provide, like power, rail and financing. It's our knowledge and expertise, which we leverage to create a unique mix of solutions to meet site-specific needs. And it's the unparalleled support that Caterpillar and Cat dealers provide after our machines go to work.







Run your LHDs remotely WITH COMMAND FOR UNDERGROUND

Command for underground enables remote operation of load-haul-dump machines — from simple line-of-sight to full autonomy — providing immediate productivity and efficiency gains and improving safety.



Get essential operational information with fleet for underground provides real-time visibility to cycle time, payload and other key operational parameters and automatically records and tracks data up and down the value chain.

Address risks to people and assets **WITH DETECT FOR UNDERGROUND**

Detect prevents unintended interactions between people and assets by letting you "see" in the dark. Using a high-precision peer-to-peer proximity detection system coupled with a revolutionary communications and tracking network, Detect can prevent incidents and track people and machines — wherever they are underground — in real time and with no reliance on mine infrastructure. It provides operators continuous awareness of their surroundings to sub-meter accuracy, along with the location and status of all personnel and assets.

Make informed decisions and optimize your maintenance strategy

WITH MINESTAR HEALTH

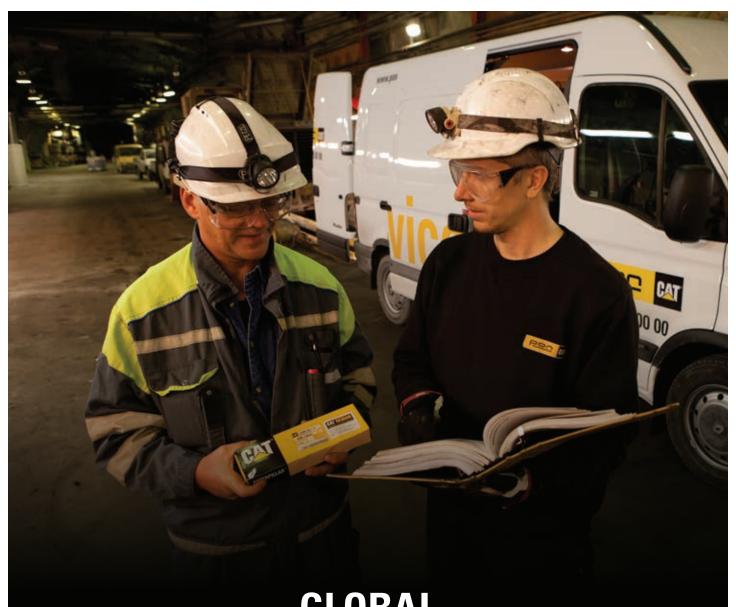
Machine health data is critical to helping you improve the reliability of your mining equipment, reduce unplanned downtime and prevent costly failures. MineStar Health products and services enable you to collect and transmit equipment data that enables proactive maintenance services and predictive equipment analysis.











GLOBAL —— CAT DEALER ——

NETWORK

No one knows more about how to get the most from a piece of Cat equipment than Caterpillar and your local Cat dealer. Our partnership starts with validation and testing of the machine and continues through its complete lifecycle.

The one-of-a-kind Cat dealer support network delivers expert service, integrated solutions, after-sales support, fast and efficient parts fulfillment, world-class rebuild and remanufacturing capabilities and more.

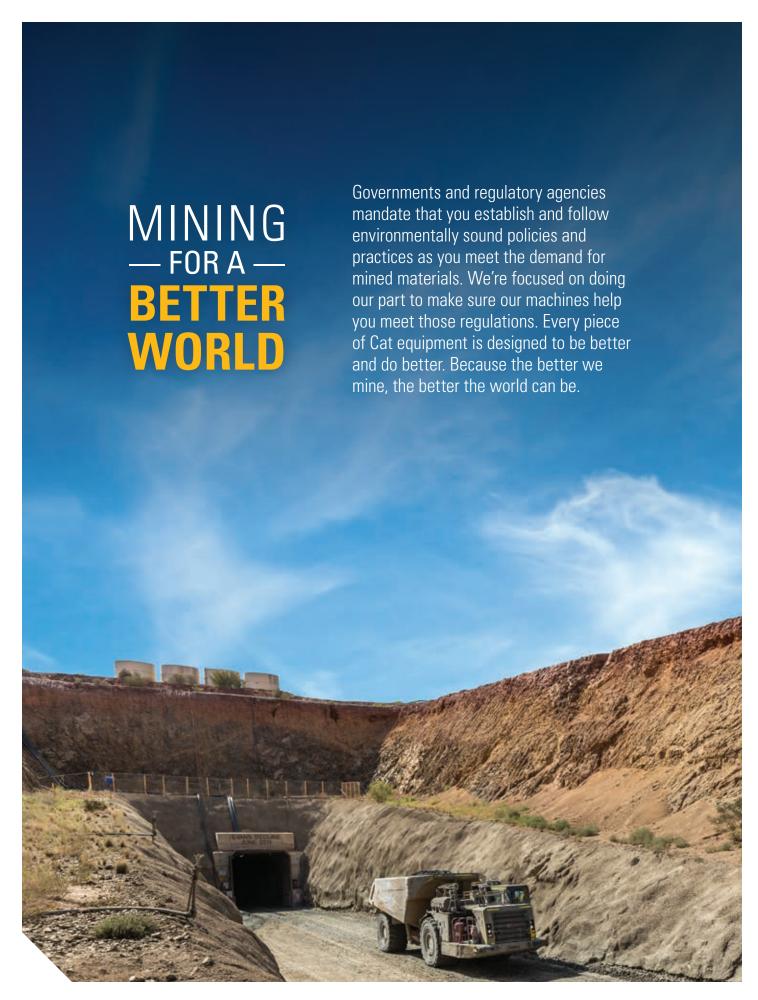


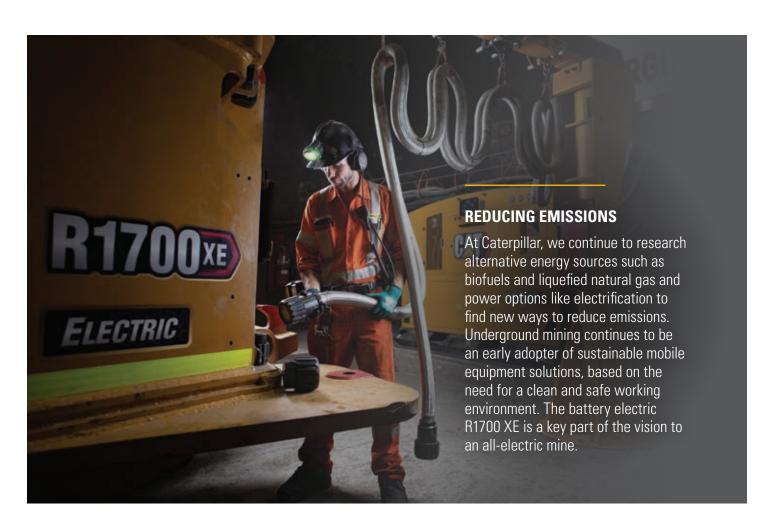
Together with our dealers, we help you employ a philosophy of preventive maintenance, proactively taking care of parts and components so they last as long as possible. Dealers leverage information gained from machine health systems, preventive maintenance programs and other initiatives to predict maintenance and repair needs and anticipate the parts and components that will be required.

Caterpillar and Cat dealer personnel will partner with you on site to improve the performance of your machines as well as your overall operation. You'll have access to parts and service, as well as technicians who are focused on helping you optimize repairs to keep machines productive. And we help with training to ensure your operators have the skills and knowledge they need to work as efficiently and productively as possible.

Together with our Cat dealer network, we customize service offerings to provide a maintenance solution that fits your operation—whether you want to perform the majority of service yourself, or you're looking for an onsite partner to manage your maintenance organization. We're also consultants who can help you make smart decisions about buying, operating, maintaining, repairing, rebuilding and replacing equipment.

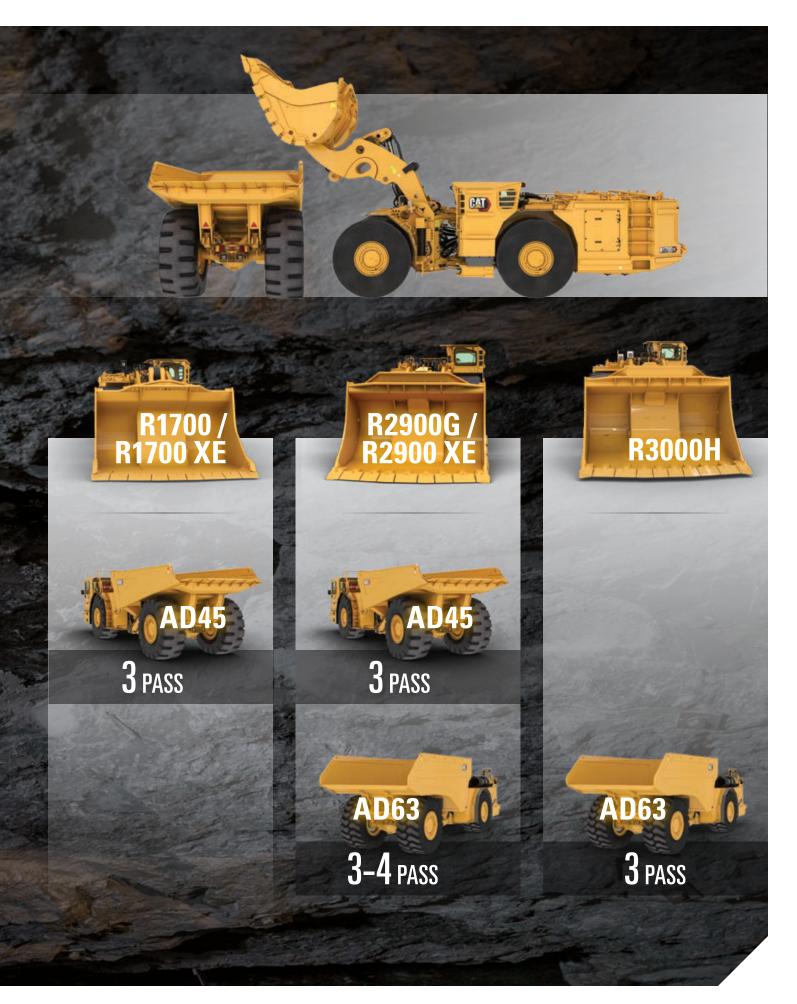














HARDIROL MINING

For more complete information on Cat products, dealer services and industry solutions, visit us at www.cat.com

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

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