6060 ELECTRIC

HYDRAULIC MINING SHOVEL



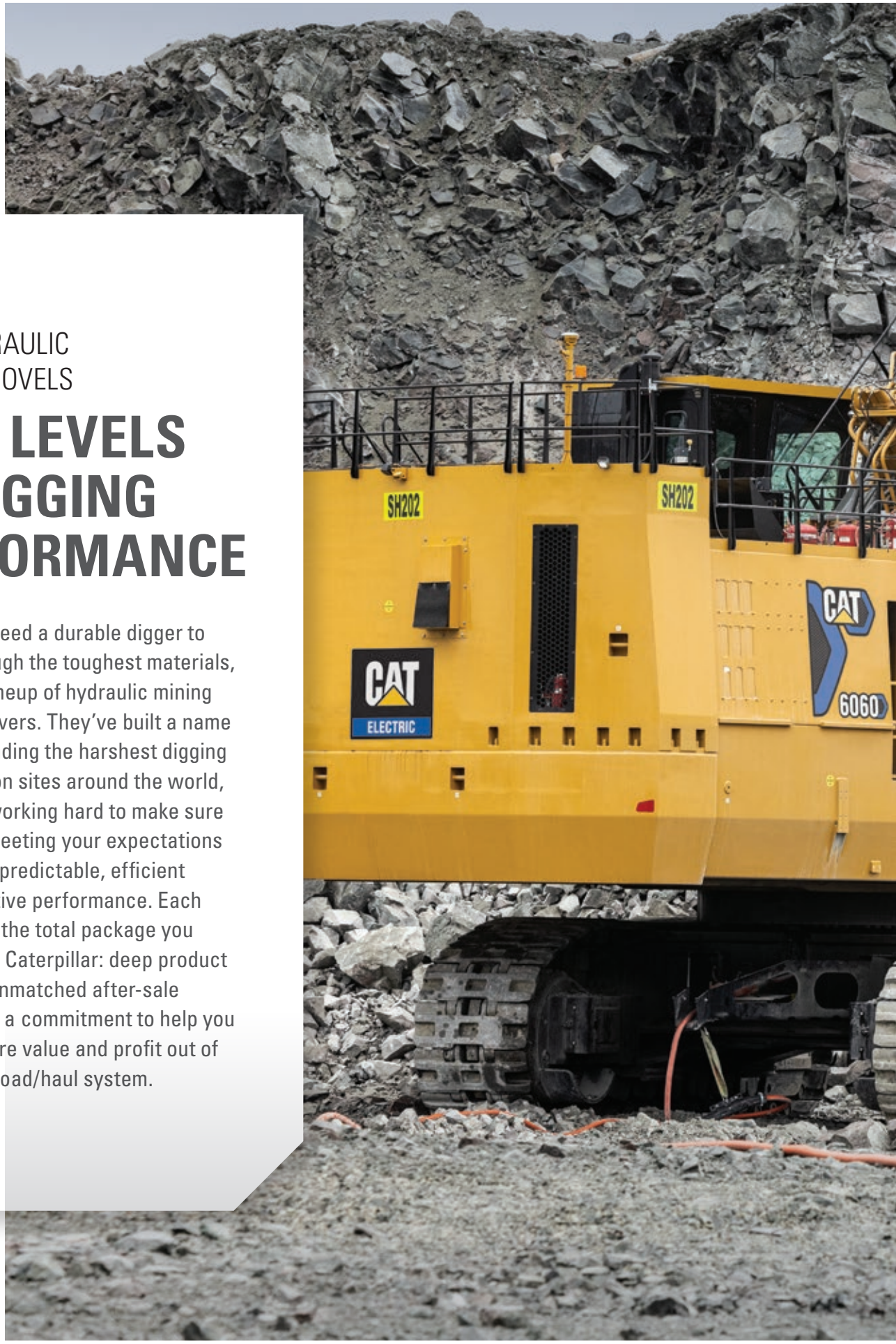
Motor:	2 x Cat® medium voltage induction motors
Motor Output:	2 x 1000 kW / 1,341 hp
Operating Weight:	BH 581 700 kg / 1,282,430 lb
	FS 580 000 kg / 1,278,430 lb
Bucket Payload:	BH 65 tonnes / 71 tons
	FS 61 tonnes / 67 tons

CAT®

CAT® HYDRAULIC
MINING SHOVELS

HIGH LEVELS OF DIGGING PERFORMANCE

When you need a durable digger to power through the toughest materials, our broad lineup of hydraulic mining shovels delivers. They've built a name for withstanding the harshest digging conditions on sites around the world, and we're working hard to make sure they keep meeting your expectations for reliable, predictable, efficient and productive performance. Each comes with the total package you expect from Caterpillar: deep product expertise, unmatched after-sale support and a commitment to help you squeeze more value and profit out of your entire load/haul system.





CAT® 6060 ELECTRIC

HYDRAULIC MINING SHOVEL



EFFICIENT ELECTRIC POWER. HIGH UPTIME. LOW OPERATING COSTS.

The Cat® 6060 Electric Hydraulic Mining Shovel combines everything you love about the 6060 with everything you demand from Caterpillar to deliver a shovel that uses efficient electric power to help you produce more — while keeping uptime high and operating costs low. Powered by dual electric motors, the 6060 Electric uses power more efficiently than diesel machines and produces zero direct carbon emissions.

With its rated backhoe payload of 65 tonnes (71) tons and face shovel payload of 61 tonnes (67 tons), the 6060 was the first shovel in the mining industry tailor-made for mines using 240-ton (218-tonne) haul trucks, providing an efficient 4-pass solution to meet production capacity in these environments.

Today's 6060 remains the ideal shovel for these applications, with improvements and enhancements in durability and reliability to deliver the uptime you demand. The result is higher productivity and lower overall owning and operating costs.

100% CAT INTEGRATION

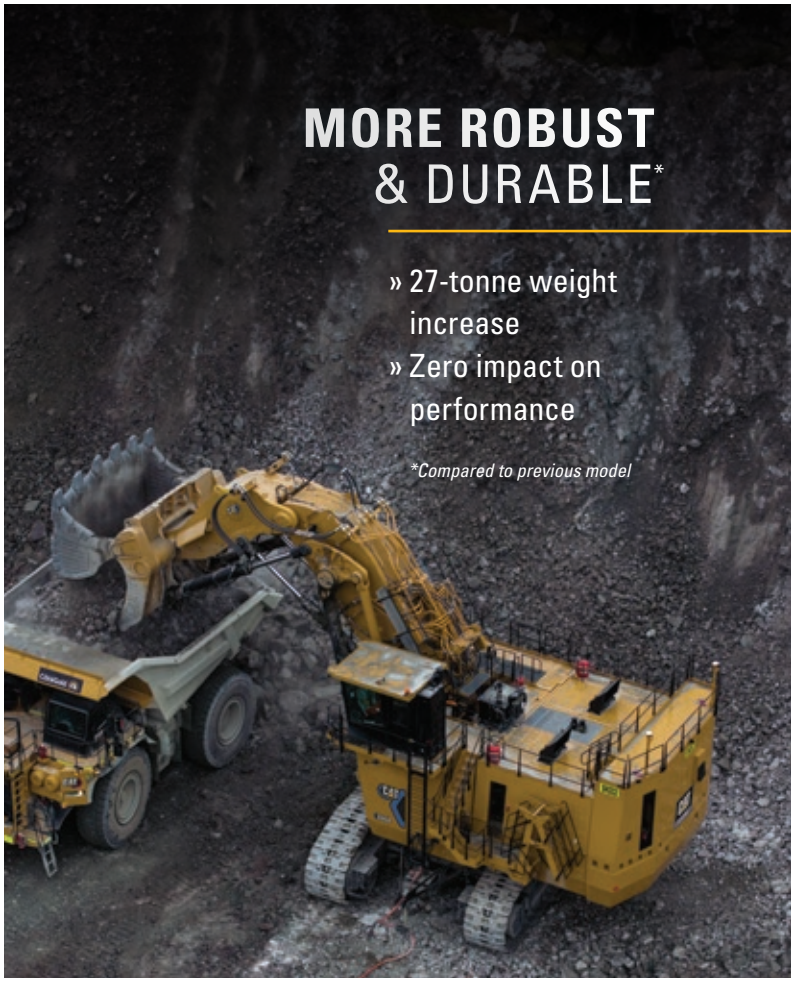
MORE THAN 35% GREATER VISIBILITY*

» Clear views to digging and loading areas
» Clear view to tracks

IMPROVED ENERGY EFFICIENCY

» Closed-Loop Swing Circuit
» Hydraulic Optimization

*Compared to previous electric drive model





The 6060 is one of the most popular hydraulic shovels in its size class. And for good reason. Its dual AC motors and efficient hydraulic system allow higher working speeds for fast cycle times and high productivity.

LOAD MORE EVERY CYCLE

ULTIMATE EFFICIENCY

The twin electric motors are the ultimate in efficiency. Their universal design enables them to adapt to various voltages and frequencies for a significant reduction of variations.

FASTER FACE SHOVEL OPERATION

The 6060's unique TriPower™ face shovel design has been proven to deliver safer, easier and faster face shovel operation. Generating superior mechanical leverage and control, our FS configured hydraulic mining shovels utilize a unique boom design that employs rotatable triangular rockers. This design facilitates quicker cycle times, increased effective lifting force, constant boom momentum, automatic constant bucket angle, and automatic roll-back limitation.



TWIN-MOTOR CONCEPT

The 6060's twin-motor concept delivers greater uptime and increased productivity. Up to 65% of full production can still be achieved with a single motor thanks to the shovel's continued ability to exert maximum digging forces, lower the front attachment without requiring motor power, and recuperate energy via its closed-loop swing circuit. The shovel can move away from high walls, blast zones or other safety hazards when in need of repair with single-motor operation. By comparing one motor and associated hydraulic network to the other motor, troubleshooting is expedited and simplified, therefore generating more uptime and more productivity.

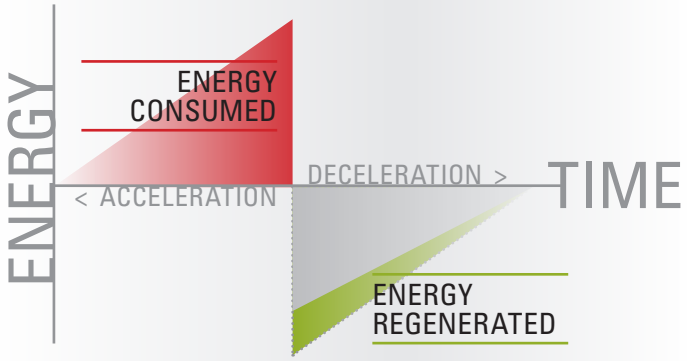
FASTER BOOM MOVEMENT

Cycle times are reduced thanks to the use of float valves rather than engaging pumps to lower the boom. This facilitates faster boom movements and allows other operating functions such as bucket curl and stick in/out to occur simultaneously.

CAPTURED ENERGY

The Closed-loop Swing System delivers faster cycle times and improved energy efficiency, while also generating less heat. Kinetic energy captured during the swing motion is fed back into the system during deceleration, providing more power to drive the main and auxiliary pumps. The system:

+ Uses pumps to decelerate
+ Uses energy instantaneously
+ Creates less heat
+ Lowers load factor
+ Reduces energy consumption



PROTECTING AND EXTENDING THE LIFE OF HYDRAULIC COMPONENTS

OPTIMIZED COOLING

The Independent Oil Cooling system is a more efficient means of cooling that protects and extends the life of hydraulic components. The system is independent of return oil, achieving efficiency through the utilization of dedicated pumps that provide cooling capacity as needed. That means optimum oil temperature is being maintained, even while your operator waits for the next truck to load. Competitive hydraulic shovels provide cooling only when the machine is working and under load. Additional efficiency is achieved via our thermostatically controlled fan speed.

+ Independent from return oil / machine movement
+ Continuous cooling keeps oil at optimal temperature
+ Temperature controlled

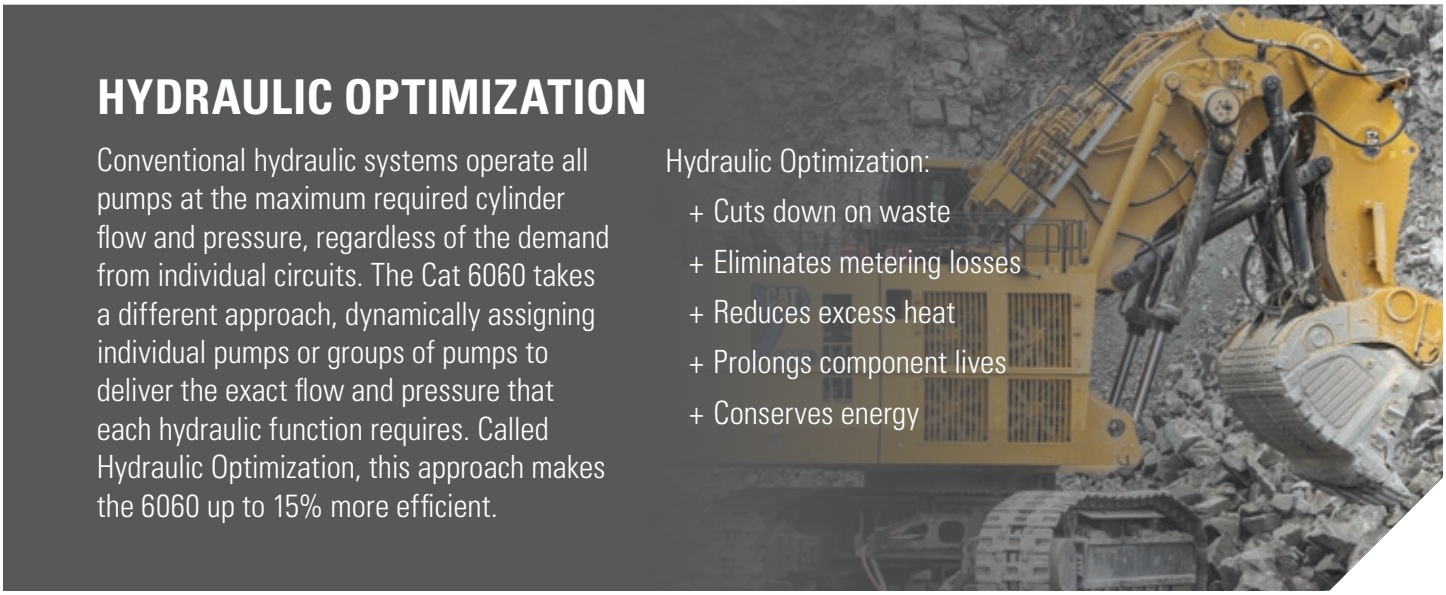
Lower costs by boosting efficiency

HYDRAULIC OPTIMIZATION

Conventional hydraulic systems operate all pumps at the maximum required cylinder flow and pressure, regardless of the demand from individual circuits. The Cat 6060 takes a different approach, dynamically assigning individual pumps or groups of pumps to deliver the exact flow and pressure that each hydraulic function requires. Called Hydraulic Optimization, this approach makes the 6060 up to 15% more efficient.

Hydraulic Optimization:

+ Cuts down on waste
+ Eliminates metering losses
+ Reduces excess heat
+ Prolongs component lives
+ Conserves energy



FULL INTEGRATION:
THE CATERPILLAR ADVANTAGE

Today's 6060 is fully Caterpillar, building on its performance to give you the productivity you demand from the manufacturer you trust for reliability and durability.

PROVEN AND VALIDATED ELECTRONICS

The integration of proven and validated Cat electronics delivers additional performance and reliability advantages. Intuitive, informative onboard electronics help operators be more productive. Common designs and componentry streamline maintenance. Connectivity features and integrated Cat MineStar™ Health offerings help you adopt a proactive approach to maintenance to keep your shovel on the job.

HIGHER UPTIME

The Caterpillar advantage also means higher uptime for your operation. Parts are stocked around the world for fast, efficient service. Service literature is easy to read and understand so technicians have the information they need to perform maintenance and repairs as quickly as possible. And like all Cat equipment, the 6060 is backed by the Cat dealer network for a seamless level of unparalleled support.





The next generation Cat 6060 has been improved and enhanced to be more durable and reliable—delivering the uptime you demand. The result is higher productivity and lower overall owning and operating costs.

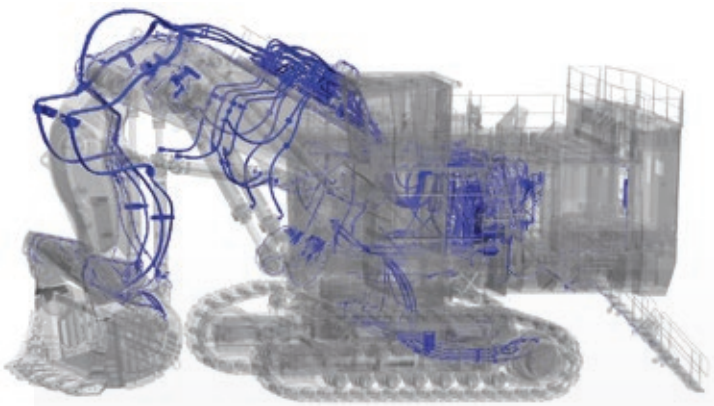
THE RELIABILITY TO MATCH THE PERFORMANCE

IMPROVED STRUCTURES

Today's 6060 lasts longer than ever, with significant improvements in the structures to deliver greater durability. We've increased the weight up to 27 tonnes without impacting performance, and a new and enlarged slew ring delivers higher hours and 33% longer service life. We've also strengthened the superstructure and increased the thickness in a number of locations.

LONGER LIFE COMPONENTS

Reliability of the 6060 is exceeding expectations thanks to a number of added features that improve life of the motor and components. The Cat Heavy Duty Undercarriage features long-life components, frame and electronics. We've introduced new idlers with duo cone seals and steel-backed bronze bearings. New HD rollers exceed the expected life of legacy rollers with no overheating, and lifetime lubrication reduces maintenance. We've also improved track pads and track tensioning.



VISUALIZING HOSE PERFORMANCE

Virtual design and validation of improvement opportunities included a rigorous hose audit performed by Cat engineers that has yielded excellent results. In addition to being better organized and routed to streamline service, the hoses are performing well—working more than 10,000 hours without a single major hydraulic leak.

MINING — FOR A — BETTER WORLD

Governments and regulatory agencies mandate that you establish and follow environmentally sound policies and practices as you meet the demand for mined materials. We're focused on doing our part to make sure our shovels help you meet those regulations.

We've designed the 6060 Electric to be more efficient, which reduces environmental impact. The twin electric motors use power efficiently and produce zero direct carbon emissions. Hydraulic Optimization helps deliver the exact flow and pressure that each hydraulic function requires, increasing efficiency up to 15%. In addition, the closed-loop swing circuit emits less heat and improves energy efficiency.

Cat Reman uses state-of-the-art, proprietary technologies to inspect, disassemble, clean and salvage acceptable end-of-life cores before remanufacturing and reassembling them to match OEM specifications of new Cat products with a same-as-new warranty.



Spend more time loading & less time servicing

The latest update to the 6060 brings the diesel and electric versions back to the same common platform. As a result, the new 6060 Electric benefits from all the minor and major serviceability improvements that were previously introduced on the diesel model. For example, we've streamlined maintenance by better organizing and routing hoses and other components. Hoses can be built locally using all Cat material. And an in-cab portal provides easy access to Cat Electronic Technician, helping dealer service personnel more easily diagnose and prevent issues.

SERVICE STATION

The ground-level service station provides easy access to functions such as hydraulic oil, slew gearbox oil, pump gearbox oil and grease. The service station features an emergency shutoff and Cat battery charging connector. Swing and travel functions are disabled when the service station is lowered.

+ Retractable
+ Comfortable height
+ Improved access to all functions
+ Fast fill connections

MAIN VALVE BLOCK

We've provided easy access to the slew gearboxes, swing drive, rotary distributor, high pressure swing filters, and travel spool valves. Oil cooler accessibility enables easy cleaning and maintenance. There is also a reduced number of hydraulic hoses from the superstructure to the attachment with this design.



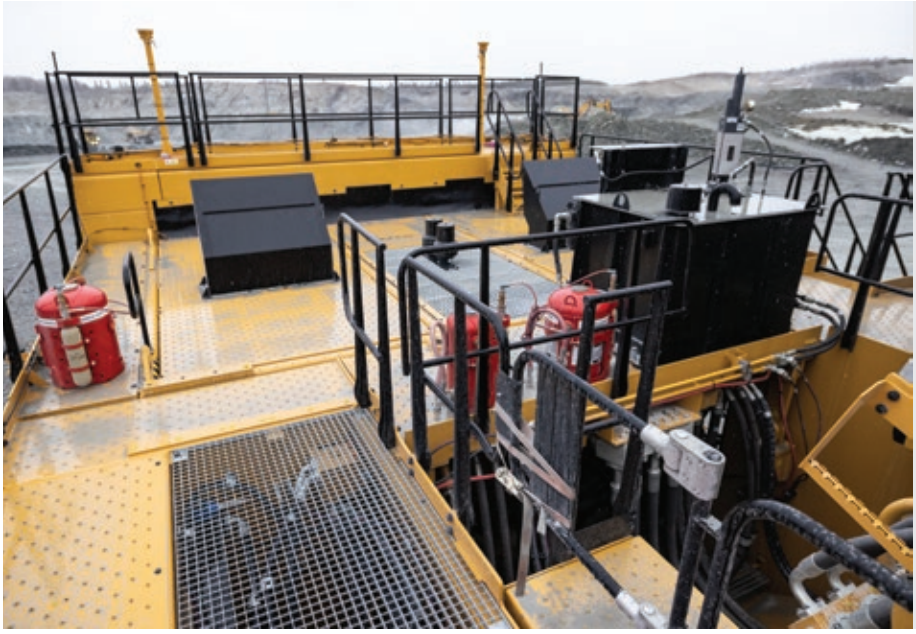
CAT HOSE & COUPLINGS

Cat Hose & Coupling Solutions offer unrivaled reliability and performance because they're designed and built as a complete system, tested beyond industry standards and supported by expert services.

Shovel hose assembly data is integrated within the Cat engineering system, parts logistics and dealer support network. Fully integrated hose assemblies mean:

+ Hassle-free identification and ordering
+ Faster and more accurate assembly
+ Faster delivery times and support
+ Leak-free connections

In addition, XT hoses are designed and tested to exceed 1 million impulse cycles without failure—double the industry standard.



SUPERSTRUCTURE ACCESS

Clear arrangement of components on the superstructure grants easy access and serviceability for the oil tank breather, HVAC unit and grease tank.

EXCHANGEABLE POWER MODULE

Available from the factory in both diesel and electric configurations, the 6060 Hydraulic Mining Shovel features an exchangeable power module that lets you convert from diesel to electric power, or vice versa, to meet the specific needs of your site. This process is streamlined for simplified service and reduced downtime, and can be performed at any time — so you can make the switch when your operation is ready.

This solution replaces the entire power module, which is fully factory tested and ready for installation, reducing rework time and minimizing the need for people in the field. There are fewer part numbers to ship and track, and the pumps, engines and gear boxes are salvageable to reduce waste.

REMOVE

+ Muffler
+ Air Filter
+ MineStar GPS
+ Handrails
+ Upper counterweight including radiators and fans
+ Access Ladder
+ Diesel Power Module
+ Diesel version of HVAC

INSTALL

+ AC Power Module
+ Counterweight including switch cabinets
+ Access Ladder
+ Handrails
+ MineStar GPS
+ Cooling Ducts
+ Slip Ring
+ Stinger
+ Cable Junction
+ Electric version of HVAC



FOCUS ON SAFETY

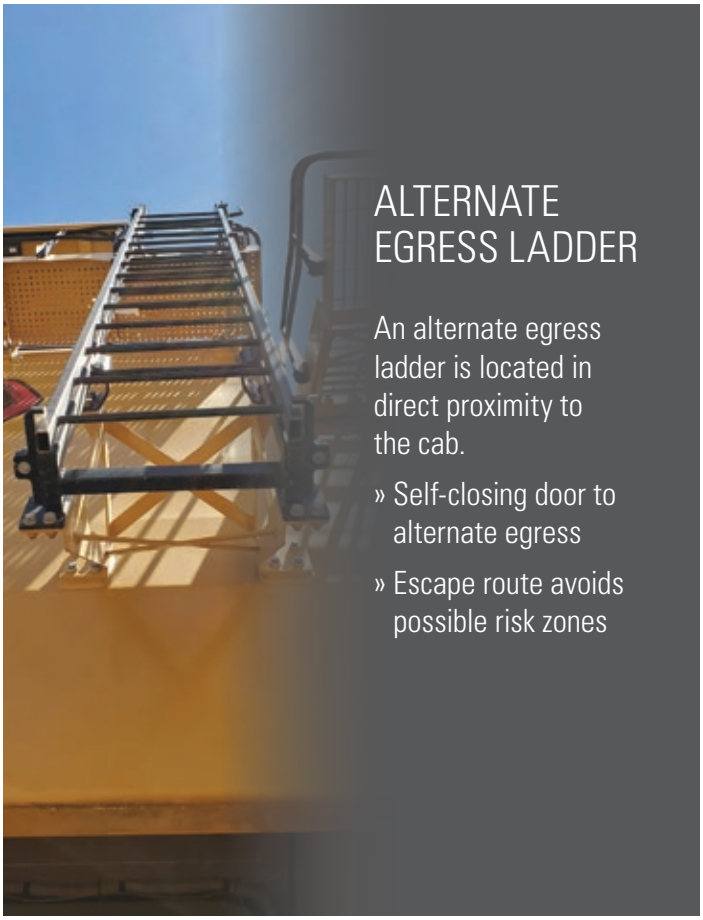
IN, ON AND AROUND THE SHOVEL

The 6060 is designed with the operator in mind and has been updated to incorporate mining safety best practices as part of its standard design. With an eye on safety during both operation and maintenance, the design focuses on visibility, access and egress, hydraulic hose routing, electric wiring and fire prevention.

MORE THAN 35% GREATER VISIBILITY

The position of the cab module provides excellent visibility of the digging and loading areas, and visibility is significantly improved thanks to a floor window that provides a view to the tracks. Integrated Cat MineStar and camera displays also enhance visibility.





ALTERNATE EGRESS LADDER

An alternate egress ladder is located in direct proximity to the cab.

» Self-closing door to alternate egress

» Escape route avoids possible risk zones

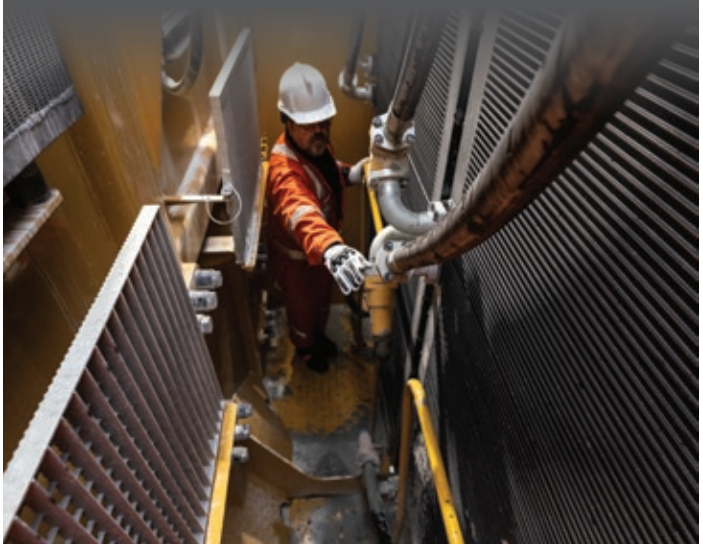


SAFER ACCESS AND EGRESS

The 45-degree hydraulically operated access stairway features emergency lowering via a nitrogen accumulator, which ensures it remains operational even when motors shut off. Machine swing and propel capabilities are automatically disabled while the boarding stairway is lowered.

SAFER SERVICE

Service personnel can work more safely thanks to improved routing and separation of hydraulic lines and electric cables. All service areas are accessible via anti-slip walkways, and trip hazards are eliminated.



BATTERY ISOLATION SWITCH

The battery isolation switch is required for checking the battery states and to prevent the batteries from draining during longer periods where the machine is disconnected from power.





KEEP OPERATORS COMFORTABLE AND PRODUCTIVE

We understand that the most important factor in your hydraulic shovel's effectiveness is the performance of its operator. To help make their workday as productive as possible, we've developed a cab that keeps operators safe, comfortable and in control. Designed by operators for operators, this state-of-the-art cab has everything operators need to work harder and last longer.

DESIGNED FOR COMFORT

The state-of-the-art operator cab, originally introduced in Cat B Series shovels, is the most comfortable and quiet in the industry. Operators enjoy a spacious environment with superior insulation that reduces noise and temperature. The cab features a new air conditioning system, Caterpillar Next Gen comfort seat, elevated full-size trainer seat, fold-away auxiliary seat, and ergonomic joystick controls.

DESIGNED FOR PRODUCTIVITY

The Operator Assist – Enhanced Motion Control feature boosts operator efficiency, reduces fatigue and helps inexperienced operators more confidently load material. This feature also reduces contact of the linkage and cylinder, lowering maintenance costs, increasing component life and improving structural durability.

DESIGNED FOR CONTROL

Outside the cab, productivity is enhanced through the 6060's hydraulic system. Operators experience greater control with five circuit hydraulics that allow for two cylinder motions, two travel motions, and swing to be controlled simultaneously.

+ Flow on demand with excellent fine control
+ Zero-oil-flow regulation
+ Automatic Idling / RPM reduction (adjustable)
+ Boom float / regenerating valve

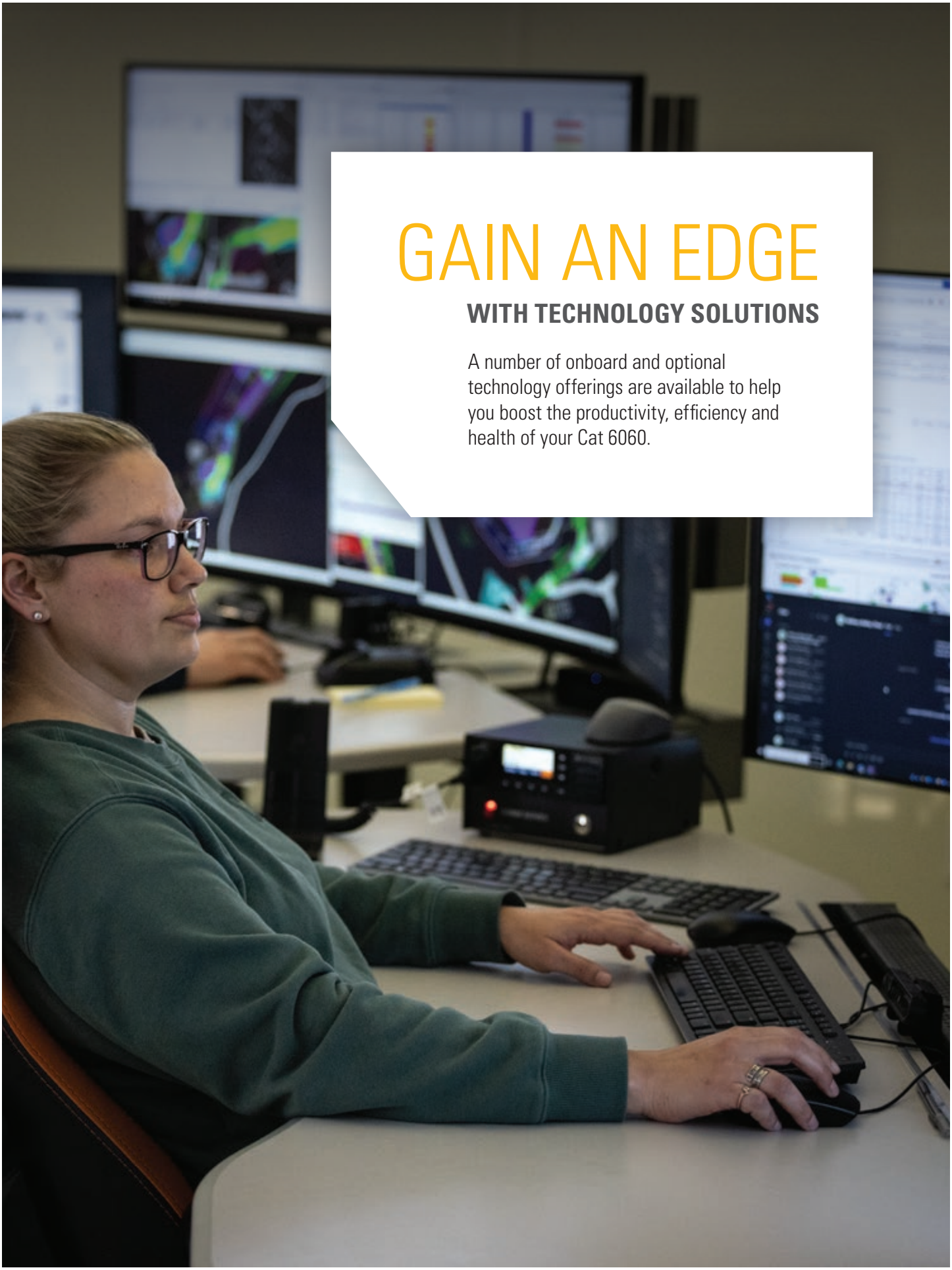


GET CONNECTED
TO REDUCE DOWNTIME

One of the key benefits of full Cat integration is the ability to connect the 6060 to industry-leading technologies and services offerings that improve maintenance and reduce downtime of your machine.

Key to connectivity is an improved Product Link™ Elite system, which boosts connectivity and increases the availability of data provided by the 6060. The onboard hardware enables your shovel to collect and transmit information into locally hosted or cloud-hosted applications such as Cat MineStar Solutions Health Office, Health Equipment Insights, Equipment Care Advisor or Vision Link.

The system opens the door for industry-leading equipment health and condition monitoring services from Caterpillar and your local Cat dealer. In addition, service personnel have access to Cat Electronic Technician, which enables easy diagnosis of potential problems and can help prevent future issues.



GAIN AN EDGE

WITH TECHNOLOGY SOLUTIONS

A number of onboard and optional technology offerings are available to help you boost the productivity, efficiency and health of your Cat 6060.

CAT MINESTAR™ SOLUTIONS

While they are not integrated at the factory, the capability sets of Cat MineStar Solutions are available as a retrofit. A comprehensive suite of technology products for the mining industry, MineStar offerings include:

+ Fleet, which provides real-time machine tracking, assignment and productivity management, providing a comprehensive overview of all your asset operations from anywhere in the world.
+ Terrain, which enables high-precision management of drilling, dragline, grading and loading operations through the use of guidance technology. It increases machine productivity and provides you real-time feedback for improved efficiency.
+ Detect, which helps increase operator awareness, enhancing safety at your operation. It includes a range of capabilities designed to assist the operator, including blind spot and proximity detection of fixed and mobile equipment.
+ Health, which delivers critical event-based machine condition and operating data for your entire fleet. It includes comprehensive equipment health and asset monitoring capabilities, with a wide range of diagnostic, analytic and reporting tools.



SHOVEL TECHNOLOGY SOLUTIONS

The Cat 6060 is integrated with several technology solutions out of the factory.

The Monitoring and Diagnostic System enhances diagnostic capabilities and provides detailed troubleshooting functions.

The onboard monitoring system controlled by Cat Electronics uses sensors throughout the machine to monitor operating data, record faults, and notify the operator audibly and visually. This promotes the earliest possible detection of faults and allows for timely maintenance planning and assistance for speedy repair.

+ Large 10-in (254-mm) touchscreen
+ Live sensor monitoring
+ Visual & acoustic fault warnings
+ Machine settings can be made without additional hardware or software

Our commitment to your success doesn't end when your Cat 6060 begins loading overburden or ore. We immediately start looking for ways to make your shovel work more efficiently, safely and productively. From addressing performance issues and training operators and technicians, to calibrating onboard technologies — our support of your shovel productivity is ongoing.



SUPPORTING PRODUCTS — AND PRODUCTIVITY



SUPPORT FOR THE COMPLETE EQUIPMENT LIFECYCLE

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 the complete lifecycle of the shovel.

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. Cat dealers operate as nearly 200 local businesses—each one fully embedded in and committed to the geographic area it serves. That means you work with people you know, who know your business, and who respond on your timeframe.

Caterpillar and Cat dealer personnel will work with you on site to improve the performance not only of your shovels but of your overall loading and hauling 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.

We also work alongside you to ensure you achieve maximum value throughout the life of your equipment. 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 expert 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.

BETTER LOADING

BETTER HAULING

BETTER BOTTOM LINE

With a broad lineup of hydraulic mining shovels and a truck for every site or application — no matter the size class or drive system — Caterpillar delivers a complete loading and hauling solution that delivers a low cost per ton. Trucks and loaders are ideally matched to optimize the loading and hauling cycle. From hydraulics to electronics, software to hardware, motors to ground engaging tools — systems work together to deliver optimized performance and a better bottom line.



789 3 PASS



793 4 PASS



794 AC 5 PASS



796 AC 6 PASS



797 6 PASS



798 AC 6 PASS





6060

TRUCK-SHOVEL MATCH

THE 6060 IS SUITED TO LOAD A RANGE OF TRUCKS.



GET THE RIGHT OPTIONS FOR THE JOB

Rugged Cat attachments are designed to withstand harsh mining conditions. They're designed with high-strength steel and castings, and joined and thermally stress-relieved to extend service life and achieve productivity targets.

BUCKETS

Cat Hydraulic Mining Shovel buckets are designed to maximize durability and productivity. We have the right bucket size ideally matched to your shovel and your application.

FACE SHOVEL OPTIONS

Iron Ore	Heavy Rock	Heavy Rock	Standard Rock
26.0 m^3	28.0 m^3	31.0 m^3	34.0 m^3
34.0 yd^3	36.6 yd^3	40.5 yd^3	44.5 yd^3

Capacity Heaped 2:1 (ISO 7546)

BACKHOE BUCKET OPTIONS

Iron Ore	Heavy Rock	Heavy Rock	Standard Rock	Standard Rock	Light Rock
26.0 m^3	28.0 m^3	31.0 m^3	34.0 m^3	36.0 m^3	38.0 m^3
34.0 yd^3	37.0 yd^3	40.5 yd^3	44.5 yd^3	47.1 yd^3	50.0 yd^3

Capacity Heaped 1:1 (ISO 7451)

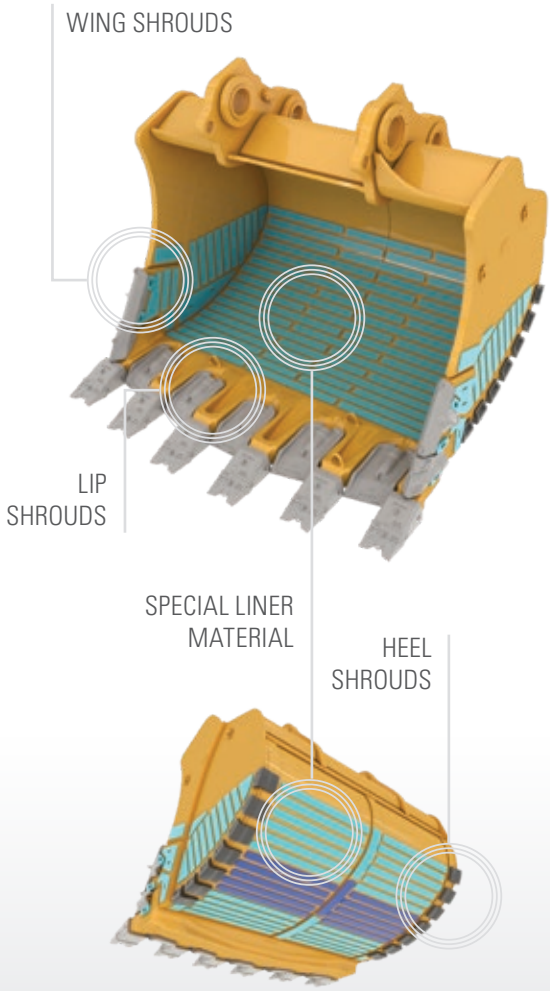
GET SYSTEM

WEAR PACKAGE

All buckets are equipped with a wear package that keeps you productive while protecting your investment. The wear package consists of:

+ Special liner material covering main wear areas inside and outside of bucket
+ Shrouds to protect the specific areas from impact and abrasion
  – Lip shroud between teeth
  – Wing shrouds on outer corners of the side walls
  – Heel shrouds at bottom edges

Special wear packages for highly abrasive materials are available upon request.





EXPANDED OFFERINGS

WITH SPECIALTY SOLUTIONS

+ Frontless shovel arrangements
+ Upper-only arrangements for fixed installations
+ Undercarriage and track arrangements

TECHNICAL SPECIFICATIONS

See cat.com/6060Electric for complete specifications.

ELECTRIC MOTORS		
Type	2 × Squirrel cage induction motor	
Output (nominal rated)	2 × 1000 kW	
Voltage	6.0 kV ± 10% 6.6 kV ± 10% 7.2 kV ± 10%	
Rated Current I_N	6.0 kV 6.6 kV 7.2 kV	235 A 215 A 195 A
Frequency	50 Hz/60 Hz	
Speed	1,500 min-1/50Hz; 1,800 min-1/60Hz	
Maximum Starting Current	6.0 kV 6.6 kV 7.2 kV	480 A 545 A 482 A

LOW VOLTAGE ELECTRICAL SYSTEM	
Control System Voltage	24 V
Batteries in Series Installation	2 × 210 Ah – 12 V each 210 Ah – 24 V
Cab Heating Voltage	230 V
Power Take Off	1 × single phase (10 A, 230 V, 2.23 kW) 1 × three phase (4 A, 400 V, 2.8 kW)

OPERATING WEIGHTS		
6060 Electric with TriPower Face Shovel Attachment (FS)		
Standard Track Pads	1400 mm	4 ft 7 in
Operating Weight*	580 000 kg	1,278,430 lb
Ground Pressure	25.7 N/cm	2 37.3 psi
Payload	61 000 kg	134,482 lb
6060 Electric Backhoe Attachment (BH)		
Standard Track Pads	1400 mm	4 ft 7 in
Operating Weight*	581 700 kg	1,282,430 lb
Ground Pressure	25.8 N/cm	2 37.4 psi
Bucket Payload	65 000 kg	143,300 lb

*Operating weights include: base machine, front attachment, standard track pads, standard rock bucket and lubricants.

SERVICE REFILL CAPACITIES		
Hydraulic Oil Tank Capacity	7100 L	1,876 gal
Total Volume of Hydraulic Oil	9400 L	2,483 gal
Pump Transmission Gearbox including Cooling Circuit	2 × 103 L	2 × 27.2 gal
Pump Pre-Chambers at Pump Transmission Gearbox	2 × 14 L	2 × 3.7 gal
Swing Gearbox	4 × 38 L	4 × 10.0 gal
Travel Gearbox Planetary	2 × 120 L	2 × 31.7 gal
Travel Gearbox Spur Gear	2 × 19 L	2 × 5.0 gal
Travel Gearbox Brake Chambers	4 × 0.5 L	2 × 0.13 gal
Grease Tank Capacity	710 L	188 gal

HYDRAULIC SYSTEM		
Main Pumps	8 × variable flow axial piston pumps	
Maximum Oil Flow	8 × 650 L/min	8 × 172 gal/min
Maximum Pressure, Attachment	320 bar	4,640 psi
Maximum Pressure, Travel	360 bar	5,220 psi
Swing Pumps	4 × reversible swash plate pumps	
Maximum Oil Flow	4 × 352 L/min	4 × 93 gal/min
Maximum Pressure	350 bar	5,076 psi

HYDRAULIC OIL COOLING		
Oil Flow of Cooling Pumps	4 × 488 L/min	4 × 129 gal/min
Number of Fans	4	
Diameter of Fans	4 × 1170 mm	4 × 46 in
Fan Speed	Thermostatically controlled	
Cooling System	Fully independent	

SWING SYSTEM	
Swing Drives	4 × compact planetary transmissions with axial piston motors
Parking Brakes	Wet multiple-disc brake, spring-loaded/hydraulically released
Maximum Swing Speed	3.8 rpm
Swing Ring	Triple-race roller bearing with sealed internal gearing
Swing Circuit	Closed-loop with torque control

UNDERCARRIAGE		
Travel Speed (2 stages)		
1st Stage – Maximum	1.1 km/h	0.68 mph
2nd Stage – Maximum	1.6 km/h	0.99 mph
Maximum Tractive Force	2942 kN	661,160 lbf
Gradeability of Travel Drives	21.2°/38.8%	
Track Pads (each side)	42	
Bottom Rollers (each side)	7	
Support Rollers (each side)	2 plus a skid plate in between	
Travel Drives (each side)	1 × planetary transmission with 2 × two-stage axial piston motors	
Parking Brakes	Wet multiple disc brake, spring loaded/hydraulically released	

OPERATOR ENVIRONMENT		
Operator's Eye Level – Approximately	7.6 m	24 ft 11 in
Internal Dimensions of Cab		
Length	2230 mm	7 ft 4 in
Width	1625 mm	5 ft 4 in
Height	2070 mm	6 ft 9 in
Operator Protective Guard (Top Guard)	ISO 10262:1998 Level II	

STANDARD & OPTIONAL EQUIPMENT

Standard and optional equipment may vary. Consult your Cat dealer for details.

HIGH VOLTAGE ELECTRICAL SYSTEM	STANDARD	OPTIONAL
Electric Motor (6.6 kV – 50 Hz)		•
Electric Motor (6.0 kV – 50 Hz)		•
Electric Motor (7.2 kV – 60 Hz)		•
Pressurized high voltage switch cabinet: » Load break switch » Main, motor and transformer fuses » Voltage and current transformers » Vacuum contactors for motor control » Ground fault detection » Auxiliary transformer	•	
Power factor correction	•	

HYDRAULICS	STANDARD	OPTIONAL
Hydraulic Optimization	•	
Cat Hydraulic Hose Assemblies	•	
Cat pump managing system with: » Electronic load limit control » Flow on demand » Automatic zero flow regulation » Automatic oil flow reduction » Reduced oil flow at high hydraulic oil temperature	•	
Pressure cut-off for main pumps	•	
Cooling of pump transmission gear oil	•	
Closed loop swing circuit	•	
Pressure testing points	•	
Full-flow high-pressure filters (100 µm), main pumps	•	
High pressure filters (200 µm), closed swing circuit	•	
Full-flow filters (10 µm), return circuit	•	
Pressure filters swing charge circuit (40 µm)	•	
Pressure filters pilot circuit (6 µm)	•	
Transmission oil filters (40 µm)	•	
Boom float valve (FS and BH)	•	
Stick float valve (FS only)	•	

LOW VOLTAGE ELECTRICAL SYSTEM	STANDARD	OPTIONAL
2 × batteries	•	
Lockable 24 V system isolator switch	•	
Low voltage switch cabinet: » Motor Protection Relay (MPR) » 24 V and 400 V power supply » Active power converter » Phase sequence indication » Circuit breakers	•	
13 × LED high-brightness working flood lights	•	
19 × LED service lights	•	
2 × acoustic travel alarms – forward and reverse (power module, oil cooler module)	•	
2 × electric horns (1 × cab module, 1 × oil cooler module)	•	

UNDERCARRIAGE	STANDARD	OPTIONAL
HD tracks with cast double-grouser track pad	•	
1400 mm (4 ft 7 in) wide track pads	•	
1600 mm (5 ft 3 in) wide track pads		•
HD fixed axle idler and load rollers	•	
Hardened running surfaces of sprockets, idlers, rollers, pad links, teeth contact areas	•	
Fully hydraulic self-adjusting track tensioning system with piston accumulators	•	
Slip ring in undercarriage	•	
Cable guide with junction box at undercarriage	•	

FRONT ATTACHMENT	STANDARD	OPTIONAL
TriPower Face Shovel kinematics		•
Backhoe attachment		•
Service access holes from both sides in boom and stick (FS and BH)	•	
Boom and stick thermally stress relieved after welding	•	
Catwalks with rails at boom (FS and BH)	•	
Wear Package (as per bucket selection)	•	

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Dual hydraulically driven HVAC system	•	
In-floor window with removable grate	•	
Heated, pneumatically cushioned and multi-adjustable comfort seat	•	
Independently adjustable seat consoles with integrated joysticks	•	
Full-size trainer seat	•	
Monitoring system with 254 mm (10 in) color touchscreen	•	
45° stairway from engine bay to operator cab	•	
Powered 45° access stairway	•	
Heated mirror on LH side	•	
Cat Vision 360 with 254 mm (10 in) HD color technology display	•	
Level indicators for length and crosswise inclination	•	

CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Payload	•	
Cat Vision 360	•	
Operator Assist: Enhanced Motion Control	•	
Cat Product Link Elite	•	
Cat Product Link Elite Dual Mode (Cellular and Satellite)		•
Cat Minestar Solutions Ready	•	



6060 ELECTRIC HYDRAULIC MINING SHOVEL

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