

# 6040

## HYDRAULIC MINING SHOVEL



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**Engine:** 2 x Cat® C32B  
**Engine Output:** 1554 kW / 2,084 HP  
**Operating Weight:** 411 tonnes / 453 tons  
**Bucket Payload:** 40 tonnes / 44 tons





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<sup>®</sup> 6040

HYDRAULIC MINING SHOVEL



## THE PRODUCTIVITY YOU DEMAND. THE DURABILITY YOU EXPECT.

The Cat® 6040 is proven and trusted on sites all over the world, with more than 200 currently in operation. It's known for high performance and high reliability—and now, it's getting even better. The next generation 6040 is packed with new features, upgrades and enhancements designed to make it more productive, more efficient, safer, easier to operate, simpler to maintain and more.

It's powered by two updated Cat C32B engines, delivering even greater performance and reliability without sacrificing fuel efficiency. Its heavy-duty undercarriage provides long life in tough conditions, reducing costs and keeping your machine hard at work.

A brand-new, state-of-the-art cab gives operators better control of the machine while keeping them safe and comfortable all shift long. Our patented three-seat design makes training and observing new operators easier than ever. And new safety features help everyone working in, on or around the 6040 get home safely every day.

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### HIGHER UPTIME

- » Fewer greasing points with new fixed pin design
- » All Cat hoses and harnesses
- » 30% more time between refills with updated grease system

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### STREAMLINED SERVICEABILITY

- » Improved pilot system layout
- » Dedicated quick-disconnect sample ports
- » New single-line lube system
- » Remote troubleshooting and flash

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### LOWER FUEL CONSUMPTION

- » Up to 15% more fuel efficient\*
- » Conserve energy with Hydraulic Optimization

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### STANDARD TECHNOLOGY OFFERINGS

- » Operator Assist – Enhanced Motion Control, Cat Vision 360 and Cat Payload
- » Upgraded Product Link™ Elite system
- » Integrated Cat MineStar™ Health

*\*Compared to previous model*

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### NEW STATE-OF-THE-ART CAB

Clear views of digging and loading areas and tracks



**40%+**  
GREATER  
VISIBILITY



# LOAD MORE EVERY CYCLE

The 6040 is a powerful machine that delivers the performance you need to keep your operation moving. It's driven by two Cat C32B engines, delivering reliable productivity shift after shift. The machine is fully operational with only one engine, allowing you to keep working for short periods even if one engine is experiencing an issue — and it can safely move away from the face and into the workshop for repair, allowing another loader to take its place at the face.

## FAST CYCLE TIMES

The 6040 uses energy-efficient float valves that incorporate gravitational force to help lower the boom. This saves hydraulic pump power and allows it to perform other functions like bucket curl and stick in/out while lowering the boom.



## CAT PAYLOAD

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Payload is a standalone payload measurement system for hydraulic mining shovels. It displays bucket payload, number of passes and truck payload in the shovel cab in real time, helping improve operator performance and preventing over- and under-loading of trucks. Payload is available from the factory and as a retrofit for machines already in the field.

- + Improves accuracy
- + Increases efficiency
- + Enables faster loading
- + Reduces costs

## OPERATOR ASSIST – ENHANCED MOTION CONTROL

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Operator Assist helps improve operator performance while protecting the machine from damage. The system incorporates angle sensors on the linkage to calculate boom and stick positioning. Reducing pressure spikes and shock feedback to the operator, the control system slows stick/boom movement as it nears the end of the cylinder stroke.

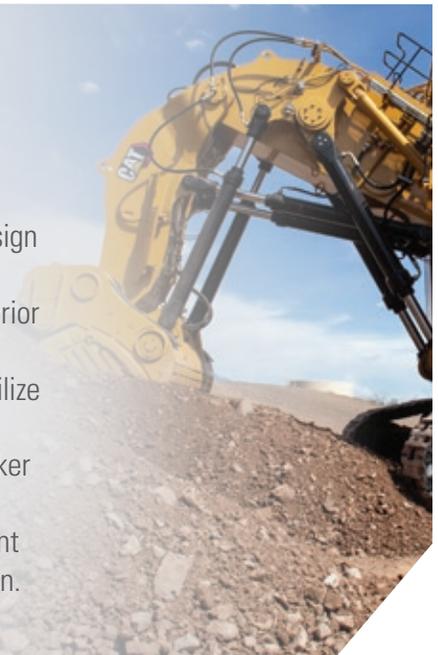
This prevents hard stops and metal-to-metal contacts, improving the service life of these main structural components.

This technology boosts operator efficiency, reduces fatigue and helps inexperienced operators more confidently load material. And by reducing contact of the linkage and cylinder, it lowers maintenance costs, increases component life and improves structural durability.

## TRIPower™ FACE SHOVEL KINEMATICS

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The 6040'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 face-shovel-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.





# 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 6040 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 saves fuel and makes the 6040 up to 15% more efficient than shovels without it.

Hydraulic Optimization:

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

UP TO  
**15%**  
MORE  
EFFICIENT

## DESIGNED FOR THE FUTURE

In the future, we will offer an electric power module for the 6040. This fully configured, factory-tested power module will have two electric motors and be retrofittable for machines in the field. This exchange should take as little as two weeks, and will line up well with the machine's first major overhaul for reduced downtime.



## 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:

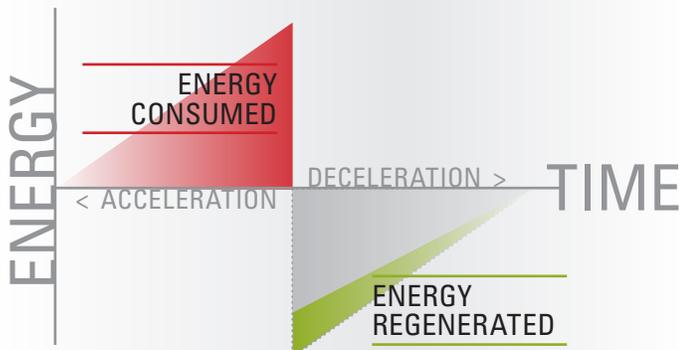
- + Uses pumps to decelerate
- + Uses energy instantaneously
- + Creates less heat
- + Lowers engine load factor
- + Reduces fuel consumption

## 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, whether the engine is idling or under load. 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 the engine is under load. Additional efficiency is achieved via our thermostatically controlled radiator fan speed.

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





## FULL INTEGRATION: THE CATERPILLAR ADVANTAGE

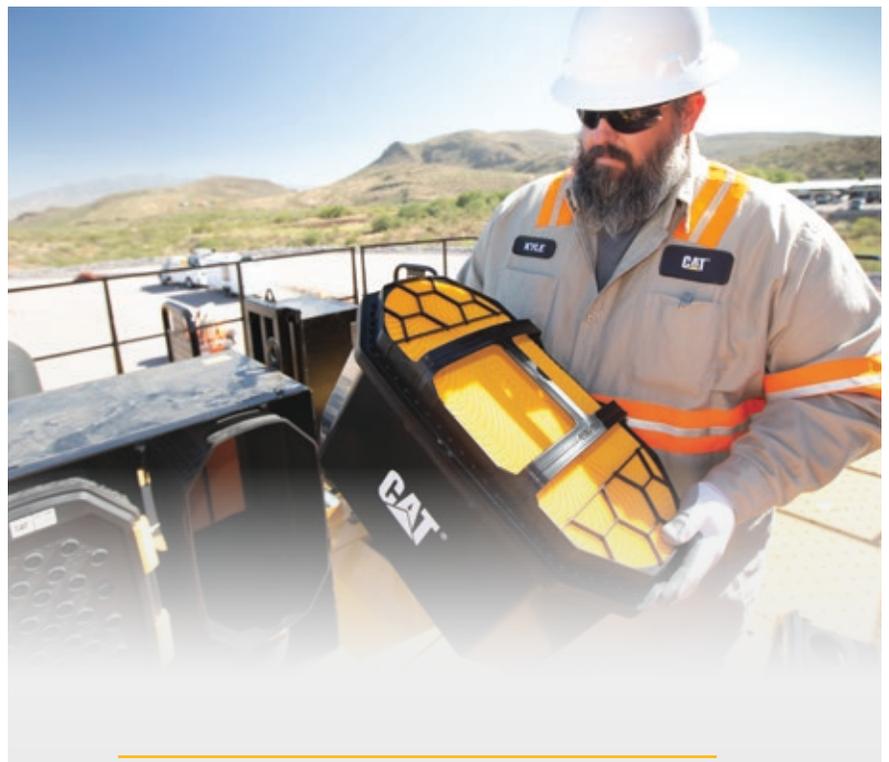
The 6040 is a 100% Caterpillar machine, built from the ground up to deliver the performance you need and the reliability you expect from a manufacturer you trust. We've also simplified and standardized service documentation to make it easier to keep your machine running.



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## 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.



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## 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 6040 is backed by the Cat dealer network for a seamless level of unparalleled support.

# A SHOVEL YOU CAN COUNT ON

The 6040 is a tough, reliable shovel that delivers the performance you need and the uptime you demand. Every component is validated over hundreds of hours, and proven on sites all over the world.



## ROBUST STRUCTURES

The 6040 is built to last, with a target design life of at least 60,000 hours. The new 6040 is 2.25% heavier than the previous model, with robust structures and heavy castings at pivot points that result in a sturdy design that stands up to heavy loads and harsh conditions.

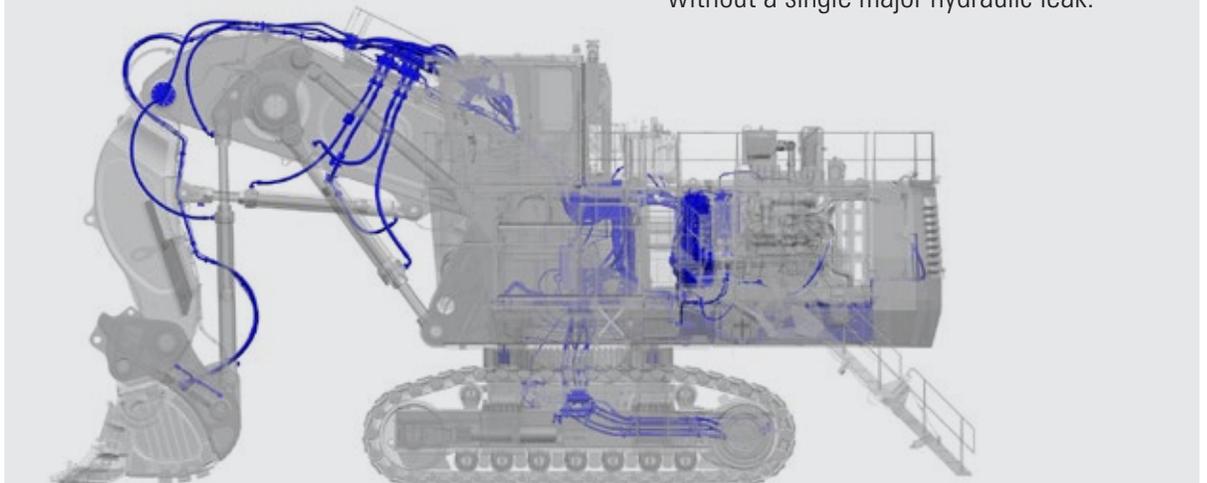
- + Heavy duty fixed-axle rollers and idlers last longer and eliminate grease consumption
- + Heavy-duty undercarriage offers longer service life with more durable components and frame





## VISUALIZING HOSE PERFORMANCE

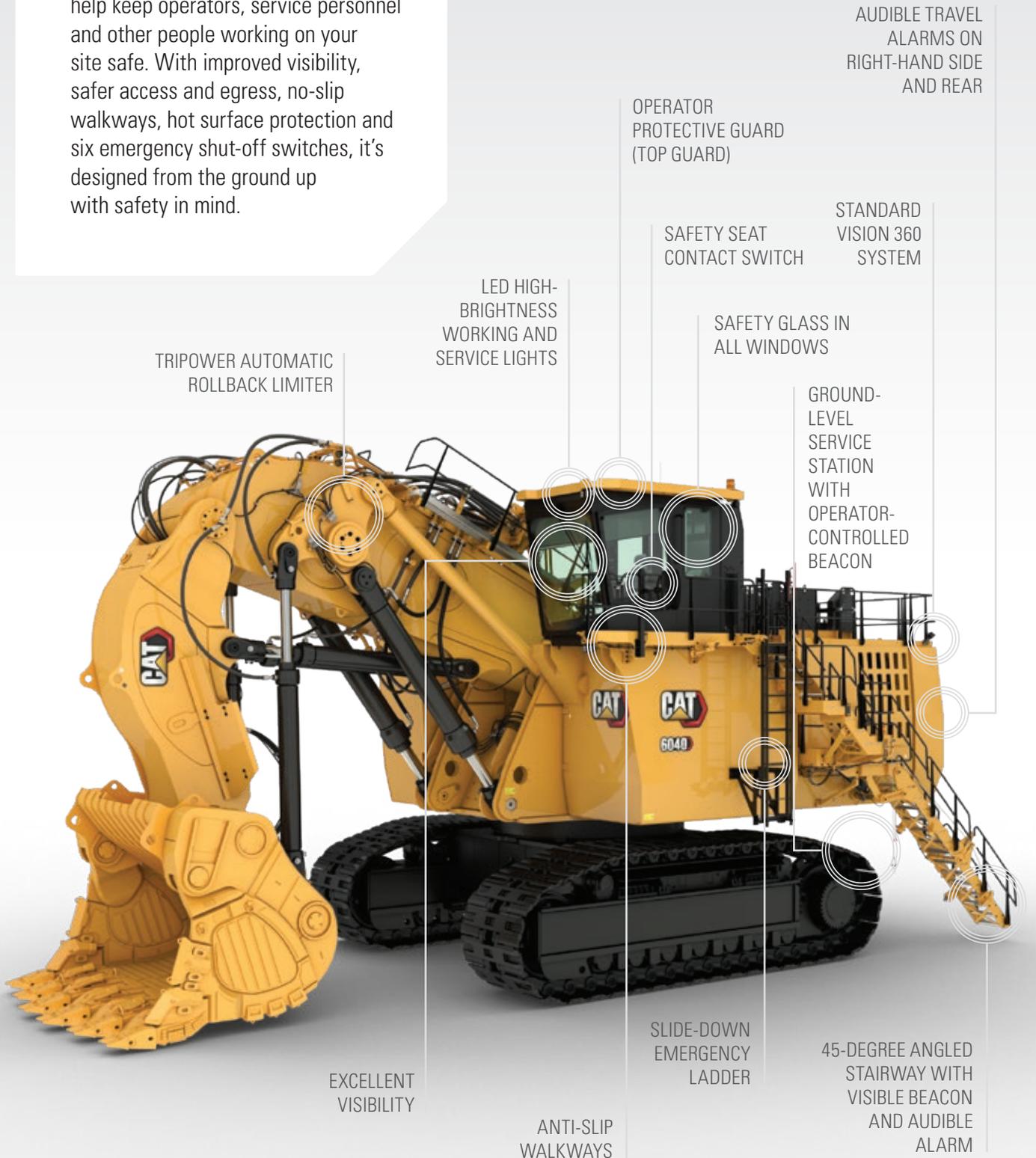
Virtual design and assembly of improvement opportunities included a rigorous hose audit performed by Cat engineers that has yielded excellent results. In addition to being better organized and routed to streamline service, the hoses are performing well — working more than 10,000 hours without a single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



## FOCUS ON SAFETY

### IN, ON AND AROUND THE SHOVEL

The 6040 is packed with features that help keep operators, service personnel and other people working on your site safe. With improved visibility, safer access and egress, no-slip walkways, hot surface protection and six emergency shut-off switches, it's designed from the ground up with safety in mind.



AUDIBLE TRAVEL ALARMS ON RIGHT-HAND SIDE AND REAR

OPERATOR PROTECTIVE GUARD (TOP GUARD)

SAFETY SEAT CONTACT SWITCH

STANDARD VISION 360 SYSTEM

LED HIGH-BRIGHTNESS WORKING AND SERVICE LIGHTS

SAFETY GLASS IN ALL WINDOWS

TRIPOWER AUTOMATIC ROLLBACK LIMITER

GROUND-LEVEL SERVICE STATION WITH OPERATOR-CONTROLLED BEACON

EXCELLENT VISIBILITY

SLIDE-DOWN EMERGENCY LADDER

45-DEGREE ANGLED STAIRWAY WITH VISIBLE BEACON AND AUDIBLE ALARM

ANTI-SLIP WALKWAYS



## EMERGENCY EGRESS LADDER

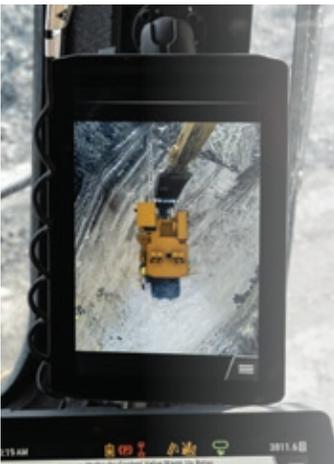
An emergency egress ladder is located in direct proximity to the cab.

- » Self-closing door to emergency egress
- » Escape route avoids possible risk zones



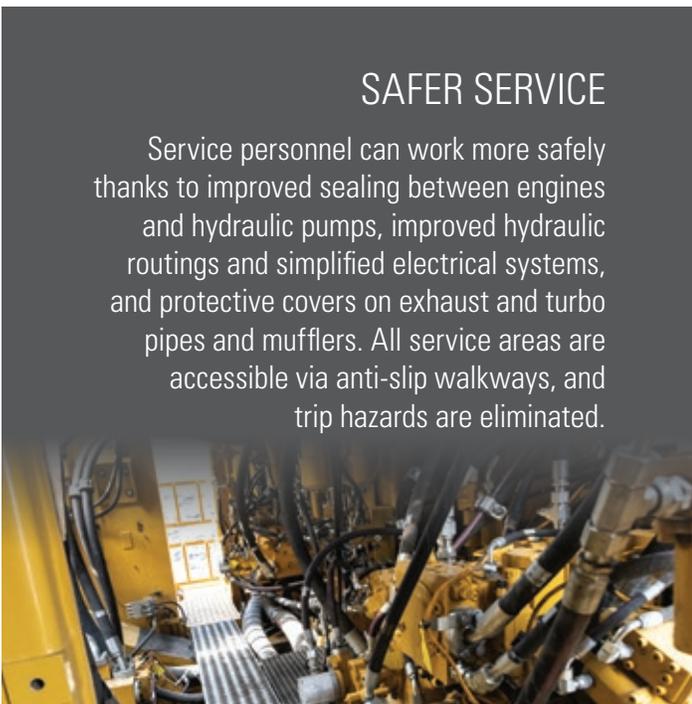
## SAFER ACCESS AND EGRESS

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



## VISION 360

Vision 360 is a system that increases safety by improving visibility around the machine. The system integrates four cameras to give the operator a 360-degree surround view of their shovel. Operators can see the view through the in-cab touchscreen display, which allows them to toggle between views and provides the ability to focus on specific areas to increase safety or productivity. Vision 360 reduces blind spots and repositioning, alleviates potential safety hazards and lowers cycle times. These benefits increase operator confidence and efficiency, while reducing fatigue.



## SAFER SERVICE

Service personnel can work more safely thanks to improved sealing between engines and hydraulic pumps, improved hydraulic routings and simplified electrical systems, and protective covers on exhaust and turbo pipes and mufflers. All service areas are accessible via anti-slip walkways, and trip hazards are eliminated.



## ISOLATION SWITCHES

A lockable starter and battery isolation switch cabinet, mounted on the top deck directly above the battery box, allows for safe electrical and/or mechanical maintenance of the machine.

# More time loading. Less time servicing.

Your shovel is the heart of your operation — when it's down for maintenance, it's not loading material and your production suffers. That's why we designed it with longer-lasting components and easier access to complete common service tasks. The result is less downtime, and that means your shovel spends more time hard at work.

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## SERVICE STATION

The retractable service station provides easy access to functions such as coolant, hydraulic oil, slew gear box oil, grease, diesel and engine oil. The service station features an emergency shutoff, Cat battery charging connector and fluid indicator lights. Swing and travel functions are disabled when the service station is lowered.

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



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## SINGLE-LINE GREASE SYSTEM

We've simplified the 6040's lubrication system to use a single grease line, reducing complexity and making it easier and faster to perform routine maintenance and troubleshoot problems. This new system uses common parts and components with other Cat machines, which makes it easier to keep parts in stock.

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## MAIN HYDRAULIC VALVE BLOCK

The main hydraulic valve block is located on the boom of the 6040. This adds space to the superstructure and gives technicians easy access to the swing drives, rotary joint and travel spool valves. It also limits the number of hoses that move frequently, extending hose life and limiting downtime for replacement.



## DESIGNED FOR THE FUTURE

Next-generation Cat Hydraulic Mining Shovels are built using an optimized electronic architecture that supports productivity, safety and reliability improvements today—and provides a platform for seamless integration of future technologies. This architecture impacts nearly every aspect of the shovel, delivering performance and reliability benefits by integrating proven and validated Cat electronics.

The system is also common with other Cat machines, which reduces the number of parts you need to keep on hand and allows service personnel and Cat dealers to leverage knowledge from other products to support your machine.



# KEEP OPERATORS **COMFORTABLE AND PRODUCTIVE**

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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.



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## DESIGNED FOR COMFORT

This state-of-the-art operator cab is comfortable and quiet. It provides 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.

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## DESIGNED FOR PRODUCTIVITY

Operator Assist – Enhanced Motion Control boosts operator efficiency, reduces fatigue and helps inexperienced operators more confidently load material. It also reduces metal-to-metal contact of the attachment's mechanical stops and cylinders. This reduces maintenance costs, increases component life and improves structural durability.

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## DESIGNED FOR CONTROL

Outside the cab, productivity is enhanced through the 6040'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. The Speed Control Swing system applies braking when the joystick is released, which improves controllability and safety—and enables our future autonomy and energy recovery efforts.

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

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# MINING — FOR A — BETTER WORLD

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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.

The next-generation 6040 is designed to burn less fuel while moving more material, resulting in lower engine emissions. It's also built to be rebuilt, enabling it to achieve multiple lives of like-new performance while preserving the raw materials, energy and emissions that would have gone into building a new machine.



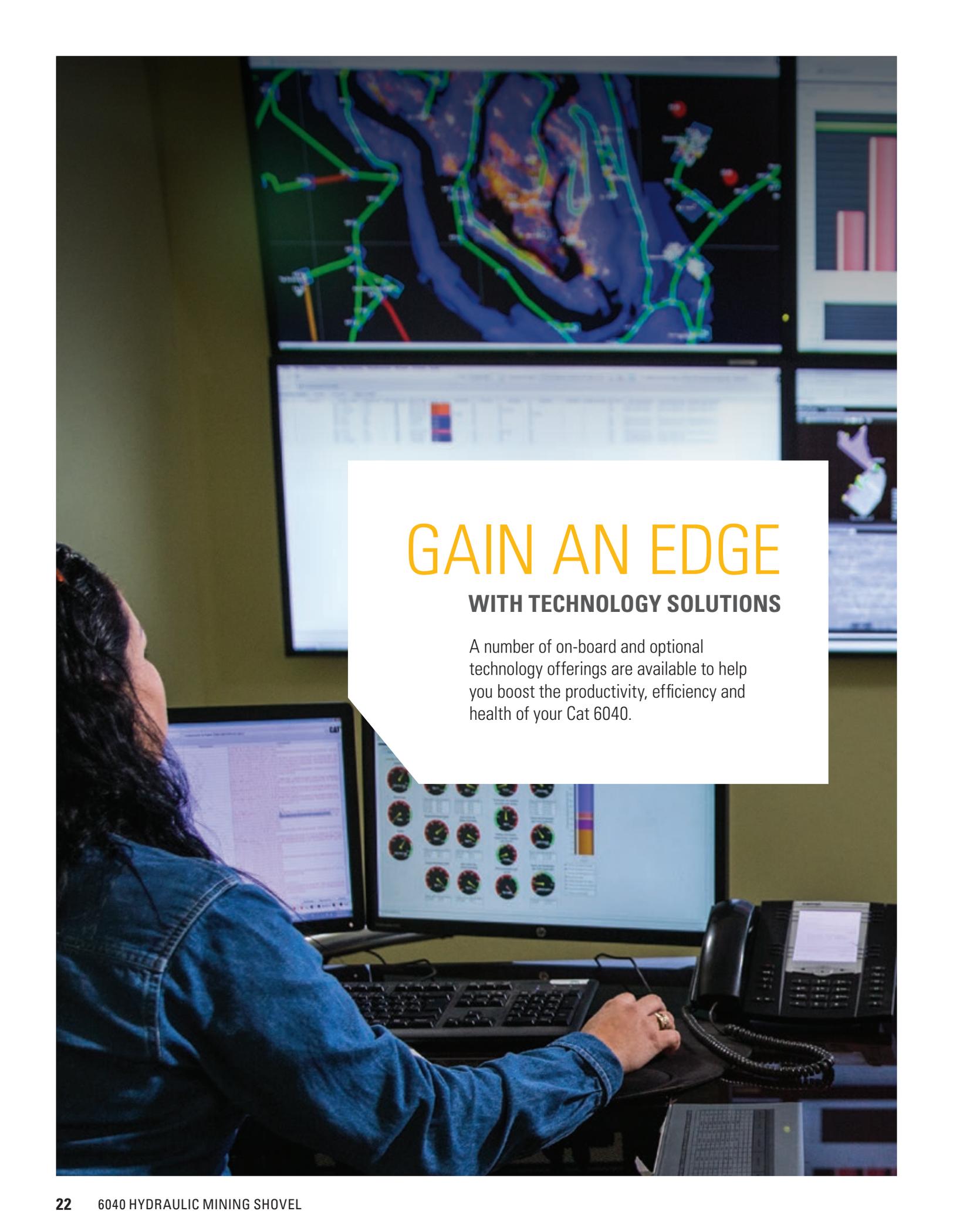


## GET CONNECTED TO REDUCE DOWNTIME

One of the key benefits of full Cat integration is the ability to connect the 6040 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 6040. The on-board 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 engine problems and can help prevent future issues.



# GAIN AN EDGE

## WITH TECHNOLOGY SOLUTIONS

A number of on-board and optional technology offerings are available to help you boost the productivity, efficiency and health of your Cat 6040.

## 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 for 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 6040 is integrated with several technology solutions out of the factory.

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

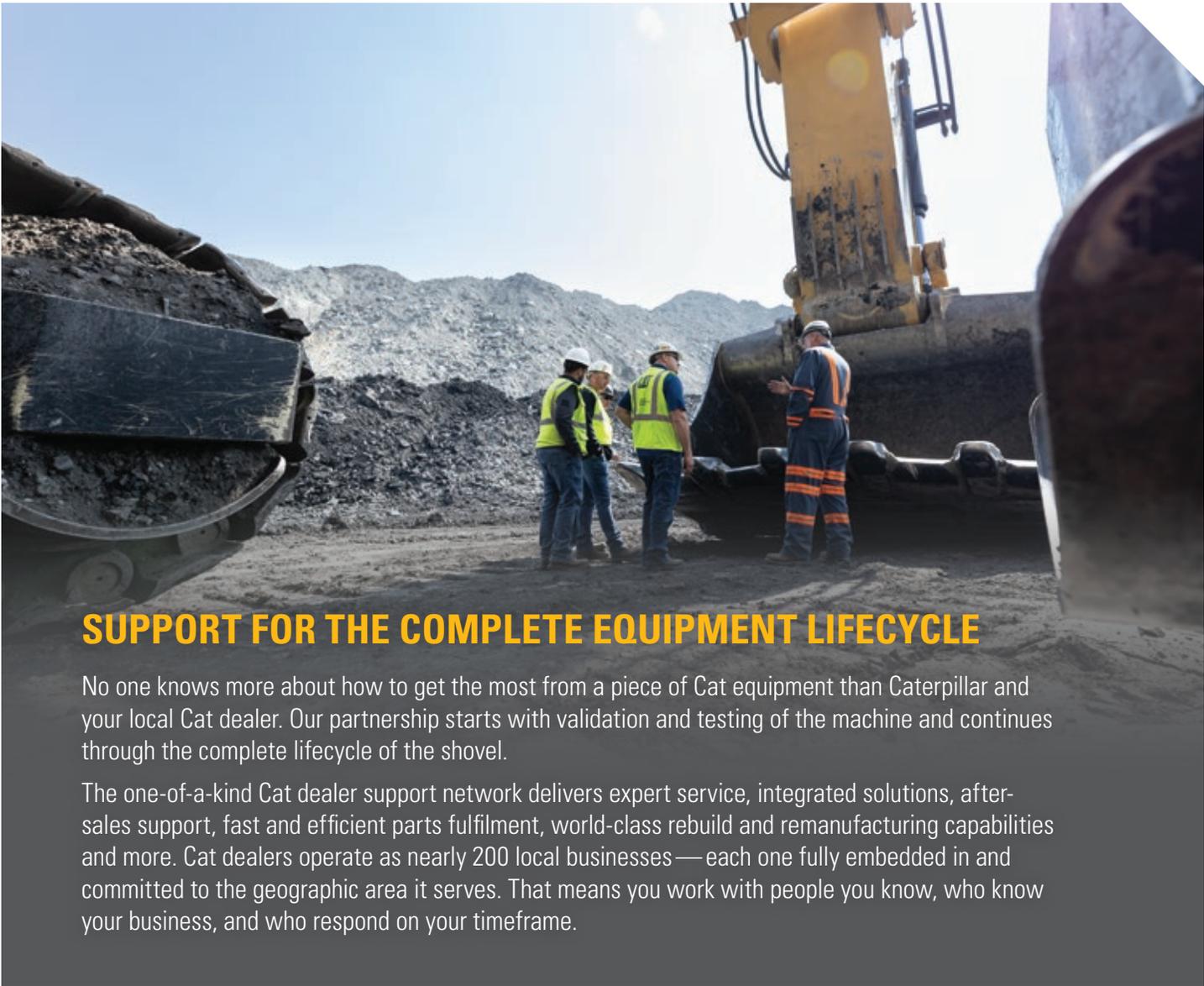
The onboard monitoring system controlled by Cat Electronics uses sensors throughout the machine to monitor operating data, record faults and notify the operator audibly and visually. This promotes the earliest possible detection of faults and allows for timely maintenance planning and assistance for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

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

Our commitment to your success doesn't end when your Cat 6040 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, to 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 fulfilment, 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 partner 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 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.

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 the lowest cost per ton. Trucks and loaders are ideally matched to optimize the loading and hauling cycle. From iron to engines, hydraulics to electronics, software to hardware, transmissions to ground engaging tools — systems work together to deliver optimized performance and a better bottom line.



785 **4** PASS



789 **5** PASS



793 **6** PASS



794 AC **7** PASS



796 AC **8** PASS



# 6040

TRUCK-SHOVEL MATCH

THE 6040 IS SUITED TO LOAD  
A RANGE OF TRUCKS.





# GET THE RIGHT OPTIONS FOR THE JOB

The 6040 can be fitted with a variety of buckets and Ground Engaging Tools (GET), all designed to maximize durability and productivity. This includes a set of hammerless GET designed specifically to work with the 6040, which can be installed and removed without using specialized tools.

Our buckets and GET are integrated to work as part of the complete machine system, helping you achieve a lower cost per ton.

## 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

Heavy Rock	Standard Rock	Standard Rock
20.0 m <sup>3</sup>	22.0 m <sup>3</sup>	22.0 m <sup>3</sup>
26.2 yd <sup>3</sup>	28.8 yd <sup>3</sup>	28.8 yd <sup>3</sup>

Capacity Heaped 2:1 (ISO 7546)

### BACKHOE BUCKET OPTIONS

Heavy Rock	Standard Rock	Light Rock	Coal
20.0 m <sup>3</sup>	22.0 m <sup>3</sup>	26.0 m <sup>3</sup>	30.0 m <sup>3</sup>
26.2 yd <sup>3</sup>	29.0 yd <sup>3</sup>	34.0 yd <sup>3</sup>	39.0 yd <sup>3</sup>

Capacity Heaped 1:1 (ISO 7451)

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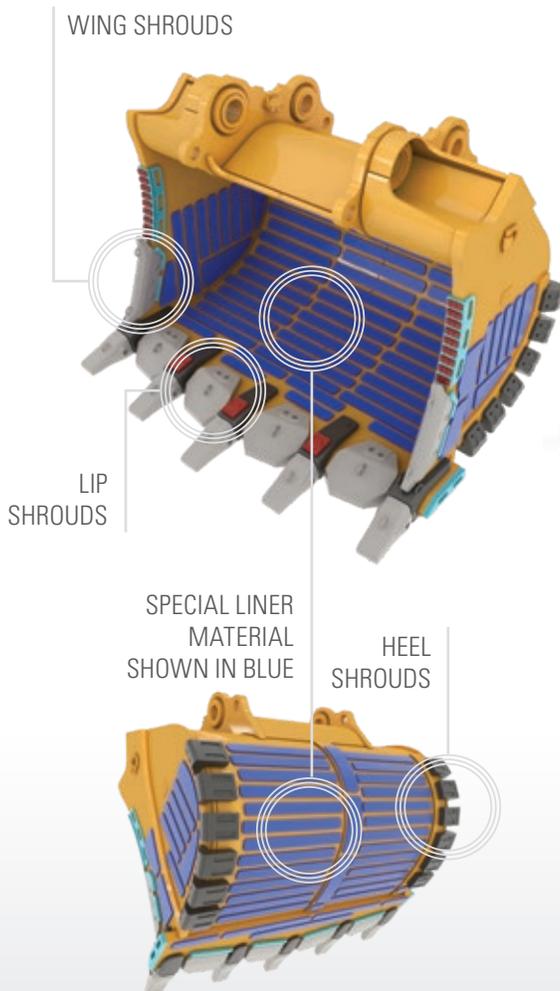
## GET SYSTEM

### 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



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## EXPANDED OFFERINGS

### WITH SPECIALTY SOLUTIONS

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

# TECHNICAL SPECIFICATIONS

See [cat.com/6040](http://cat.com/6040) for complete specifications.

## DIESEL ENGINES – LESSER REGULATED

Make and model	2 × Cat C32B	
Rated speed	1,800 min <sup>-1</sup>	1,800 rpm
Gross Power – J1995:2014	1554 kW	2,084 hp
Net Power – SAE J1349:2011*	1432 kW	1,921 hp
Net Power – ISO 9249:2007**	1538 kW	2,062 hp
* Net power tested per SAE J1349 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with maximum fan losses.		
** Net power tested per ISO 9249 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with minimum fan losses.		

## DIESEL ENGINES – HIGHLY REGULATED

Make and model	2 × Cat C32B	
Rated speed	1,800 min <sup>-1</sup>	1,800 rpm
Gross Power – J1995:2014	1550 kW	2,079 hp
Net Power – SAE J1349:2011*	1428 kW	1,915 hp
Net Power – ISO 9249:2007**	1530 kW	2,052 hp
Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.		
* Net power tested per SAE J1349 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with maximum fan losses.		
** Net power tested per ISO 9249 is the power available at the flywheel when the engine is equipped with alternator, cooling, air intake, and exhaust systems, with minimum fan losses.		

## ELECTRICAL SYSTEM

System Voltage	24 V	
Batteries in series / Parallel Installation	6 × 210 Ah – 12 V each 630 Ah – 24 V in total	

## OPERATING WEIGHTS

Face Shovel (FS)*	410 850 kg	905,769 lb
Backhoe (BH)*	410 780 kg	905,614 lb
* Operating weights include: base machine, front attachment, standard track pads, standard rock bucket, 100% fuel and lubricants.		

## SERVICE REFILL CAPACITIES

Fuel Tank Capacity	2 × 3900 L	2 × 1,030 gal
Hydraulic Oil Tank Capacity	3626 L	958 gal
Total Volume of Hydraulic System	5800 L	1,532 gal
Engine Oil Crankcase	2 × 120 L	2 × 31.7 gal
Engine Coolant	2 × 155 L	2 × 41 gal
Grease Tank Capacity	720 L	190 gal

## HYDRAULICS

Maximum Flow to Main Pumps	4 × 745 L/min	4 × 197 gal/min
Maximum Pressure – Attachment	300 bar	4,351 psi
Maximum Pressure – Travel	350 bar	5,076 psi
Maximum Flow to Swing Pumps	2 × 661 L/min	2 × 175 gal/min
Maximum Pressure – Swing	350 bar	5,076 psi

## SWING SYSTEM

Maximum Swing Speed	4.8 rpm	
Swing Circuit	Closed-loop with speed control	

## UNDERCARRIAGE

Travel Speed (2 stages)		
1st Stage – Maximum	1.4 km/h	0.87 mph
2nd Stage – Maximum	2.3 km/h	1.43 mph
Maximum Tractive Force	1767 kN	397,237 lbf

## OPERATOR ENVIRONMENT

Operator's Eye Level – Approximately	7.1 m	23 ft 2 in
Spectator Sound Power Level (L <sub>WA</sub> ) ISO 6395:2008*	122 dB(A)	
Operator Sound Pressure Level (L <sub>PA</sub> ) ISO 6396:2008*	69 dB(A)	
Operator Protective Guard (Top Guard)	ISO 10262:1998 Level II	

## DIMENSIONS

Height overall	8344 mm	27 ft 5 in
Height of tracks	2250 mm	7 ft 5 in
Clearance under counterweight	2615 mm	8 ft 7 in
Tail swing radius	7000 mm	23 ft 0 in
Width overall (@ 1200 mm [3 ft 11 in] Heavy Duty (HD) track pads)	8126 mm	26 ft 8 in
Crawler length	8090 mm	26 ft 7 in
Track gauge	5395 mm	17 ft 8 in

## WORKING RANGES AND FORCES

### FACE SHOVEL

Boom	7.3 m	23 ft 11 in
Stick	4.6 m	15 ft 1 in
Standard Rock Bucket Heaped 2:1 (ISO 7546)	22 m <sup>3</sup>	28.8 yd <sup>3</sup>
G.E.T. System with six (6) teeth	CL-1	
Maximum Crowd Force (ISO)	1791 kN	402,633 lb
Maximum Breakout Force (ISO)	1201 kN	269,996 lbf
Maximum Digging Height	14.9 m	48 ft 11 in
Maximum Digging Reach	15.7 m	51 ft 6 in

### BACKHOE

Boom	9.5 m	31 ft 2 in
Stick	4.6 m	15 ft 1 in
Standard Rock Bucket Heaped 1:1 (ISO 7451)	22.0 m <sup>3</sup>	28.8 yd <sup>3</sup>
G.E.T. System with six (6) teeth	C95	
Maximum Tearout Force (ISO)	1018 kN	228,856 lbf
Maximum Breakout Force (ISO)	1123 kN	252,460 lbf
Maximum Digging Depth	7.0 m	23 ft 0 in
Maximum Digging Reach	17.7 m	58 ft 1 in

# STANDARD & OPTIONAL EQUIPMENT

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

CAT POWER TRAIN	STANDARD	OPTIONAL
2 × Cat C32B engines	•	
Aftertreatment system (used in Tier 4 Final/Stage V only)	•	
» Diesel Oxidation Catalyst (DOC)		
» NOx Reduction System (NRS)		
» Non-Diesel Exhaust Fluid (DEF) solution		
Hydraulically driven radiator fan	•	
Electronically controlled fan speed	•	
Two-stage fuel filter with series filtration	•	
Automatic engine idle shut down	•	
HYDRAULICS	STANDARD	OPTIONAL
Cat Pump managing system with:	•	
» Electronic load limit control		
» Flow on demand		
» Automatic zero flow regulation		
» Automatic engine RPM reduction		
» Reduced oil flow at high hydraulic oil or engine temperature		
Pressure cut-off for main pumps	•	
Cat Hydraulic Hose assemblies	•	
Closed loop swing circuit	•	
Boom float valves (FS and BH)	•	
ELECTRICAL SYSTEM	STANDARD	OPTIONAL
6 maintenance-free batteries	•	
18 LED high-brightness working flood lights	•	
11 LED service lights	•	
2 acoustic travel alarms – forward and reverse (power module, oil cooler module)	•	
UNDERCARRIAGE & STRUCTURES	STANDARD	OPTIONAL
HD tracks with cast double-grouser track pads	•	
» 1200 mm (3 ft 11 in) wide track pads	•	
» 1600 mm (5 ft 3 in) wide track pads		•
Undercarriage guard (belly plate)		•
HD fixed axle carrier and load rollers	•	
HD fixed axle idlers	•	
Automatic hydraulic retarder valve	•	
Fully hydraulic self-adjusting track tensioning system with piston accumulator	•	
FRONT ATTACHMENT	STANDARD	OPTIONAL
TriPower™ Kinematics (Face Shovel only)		•
Guards for shovel cylinders at FS stick	•	
Backhoe attachment		•
Frontless base machine		•
Wear Package (as per bucket selection)	•	

OPERATOR ENVIRONMENT	STANDARD	OPTIONAL
Dual hydraulically driven HVAC system	•	
Heated, pneumatically cushioned and multi-adjustable comfort seat	•	
Independently adjustable seat consoles with intergrated joysticks	•	
FM/AM radio with USB and AUX input	•	
Fold-away auxiliary seat and full-size trainer seat	•	
In-floor window with removable grate	•	
Roller blinds	•	
Cat Vision 360 with 254 mm (10 in) HD color technology display	•	
Monitoring System with 254 mm (10 in) color touchscreen	•	
Level indicators for length and crosswise inclination	•	
CAT TECHNOLOGY	STANDARD	OPTIONAL
Cat Payload	•	
Cat Vision360	•	
Operator Assist: Enhanced Motion Control	•	
Cat Product Link™ Elite (Cellular)		•
Cat Product Link™ Elite Dual Mode (Cellular + Satellite)		•
Cat Minestar™ Solutions Ready	•	
COLD WEATHER	STANDARD	OPTIONAL
Cold Weather Package (400V; 50Hz)		•
Cold Weather Package (208V; 60 Hz)		•
SERVICE & MAINTENANCE	STANDARD	OPTIONAL
Retractable service station	•	
Scheduled Oil Sampling (S-O-S <sup>SM</sup> ) Ports	•	
Engine oil exchange interval: 500 hours	•	
Engine oil exchange interval: 1,000 hours		•
Hydraulic oil change interval: 10,000 hours	•	
Cat Type 4 air filters with pre-cleaner dust ejection system	•	
SAFETY & SECURITY	STANDARD	OPTIONAL
Emergency stop switches: 2 in cab, 3 in engine module, 1 at ground level service station, and 1 pull rope accessible from ground level	•	
Operator Protective Guard (Top Guard)	•	
All-around safety glass	•	
Emergency egress ladder	•	
MISCELLANEOUS	STANDARD	OPTIONAL
ISO or ANSI decals	•	



# 6040 HYDRAULIC MINING SHOVEL

For more complete information on Cat products, dealer services and industry solutions, visit us at [www.cat.com](http://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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Build Number: 04A

