



CAT[®] TRUCKS
the **one**

FOR MINING

CATERPILLAR[®]



Specific features referenced in this brochure may not be available on, or apply to, all truck models.

769 — 1963

779 — 1965

773 — 1972

777 — 1975

785 — 1984

789 — 1986

793 — 1991

797 — 1998

795 — 2009

50,000 TRUCKS ONE FOCUS ONE SOURCE ONE LEADER

Caterpillar entered the off-highway truck market in 1963 with a truck that offered more. It performed better, ran faster, hauled more, operated more safely, and lasted longer than any truck in the marketplace. It was 100 percent designed by one company, and it was supported by a world-class distribution system.

It wasn't long before our product quality, durability and unmatched support allowed us to become the market leader—and led to the achievement of producing our 50,000th truck in 2009. In the past 30 years, Caterpillar has produced nearly three times as many trucks as our nearest competitor. Cat large mining trucks helped build the modern mining industry and today move more than half of the material—rock and ore, coal and oil sands—at mines around the world.

But we're not resting on past achievements. We're committed to remaining the leader in the off-highway truck market. We'll build on our strong foundation and leverage the technologies of today to build new trucks that offer our customers more. We'll continue to support our existing trucks through our unrivaled global dealer network. And we'll use the knowledge and expertise that went into our first 50,000 trucks to carry us forward as we build the next 50,000.

CAT TRUCKS the **one**

F O R M I N I N G





\$200 MILLION INVESTMENT one PROVEN APPROACH

When our customers asked us for improvements to our mining trucks, we responded with a record investment covering every single truck we make. And we followed an approach that has always separated us from the pack.

We visited nearly 150 different customers around the world, sitting down with maintenance people, operators, site superintendents and financial managers to understand their unique needs. Then we put our engineers to work developing quality designs that interpreted those needs. We built components and tested them—again and again and again—on our one-of-a-kind simulators. We built prototypes and put them out in the field—validating their performance and durability at our proving grounds and through field follow at our customer sites. We drove them loaded and unloaded, uphill and downhill. We took them through our structures course—an aggressive ride through terrain that includes ditches, oscillation holes and washboards.

The result? A validated truck. Because at the end of the day, our customers expect our trucks to do what we say they will do.

To view a documentary that offers a behind-the-scenes look at the truck development process, visit www.cat.com/mining.



(below) Three full-scale powertrain simulators—two for mechanical drive and one for AC electric drive—are used to test our next generation of mining trucks and to help integrate and validate the engine and drive train components.

(above) At the same time we've been making improvements to our mining trucks, we've also been changing the way we produce them. Cat locations around the world have implemented the Cat Production System (CPS), which allows us to get quality products to our customers more quickly while improving safety and removing waste from our processes and facilities.





CATERPILAR

787F CAT



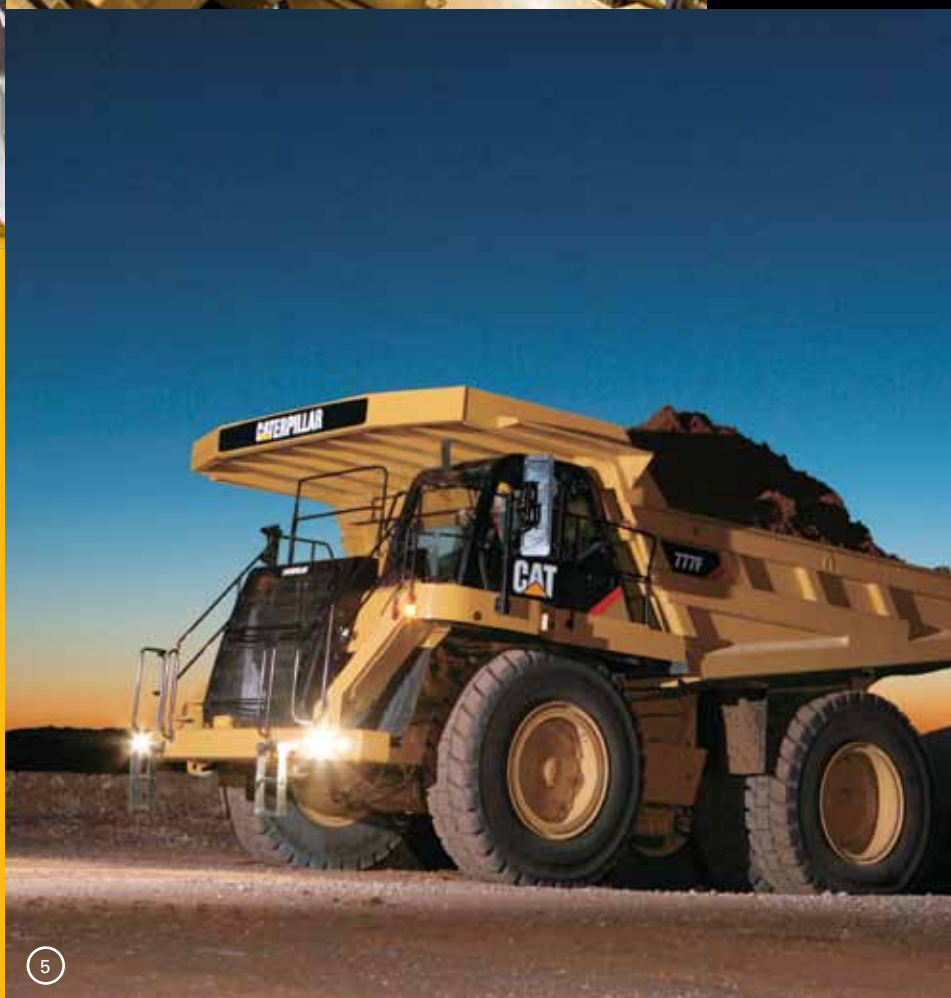
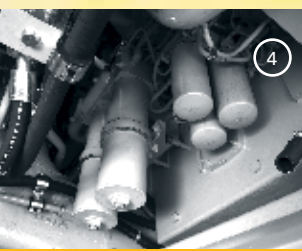
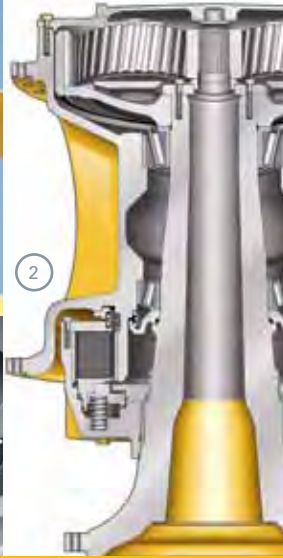
HIGHER AVAILABILITY LOWER COST PER TON **one**

LEADER IN PERFORMANCE

As pits get deeper, hauls get longer and energy costs get higher, Cat has responded with the most advanced generation of trucks we've ever developed. You'll find even more reasons to count on Cat trucks to work harder, last longer, and move more material at a lower cost.

They're powerful, productive and integrated with the latest in proven technologies. Our engines—the C32, improved 3500 and the new C175—deliver optimum horsepower while improving fuel efficiency, lowering emissions and shortening service time. Longer-lasting components feature state-of-the-art technologies and enhanced electronics. And our trucks are now more serviceable—so you'll spend less time on maintenance and more time hauling ore.

INCREASED PRODUCTIVITY Performance studies conducted during pilot and field testing of the 793F and 797F consistently demonstrated 5 to 10 percent productivity increases over the previous models, due primarily to faster speeds on grade.



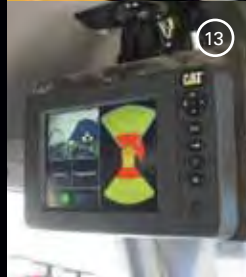
- 1. Integrated cameras enhance the operators' view of their surroundings.
- 2. Oil-cooled brakes give operators sure-footed control even in extreme haul road conditions.
- 3. Access to the center of the chassis has been improved with a ladder and platform.
- 4. Ground-level access allows safer, more convenient servicing to filters and drains.
- 5. High Intensity Discharge (HID) lighting in high beams and back-up lights improves nighttime visibility.
- 6. Computer modeling lets engineers test safety features before they are produced in iron.
- 7. Access and egress are improved with a front diagonal stairway.
- 8. Heated mirrors improve visibility by allowing the operator to defrost and clear the exterior mirrors.
- 9. A new wide, three-point seat/shoulder belt provides a secure, comfortable restraint.

SAFETY.CAT.COM™



HUNDREDS of safety ENHANCEMENTS one PRIORITY

Our customers have considered the safety of their workers a top priority for many years. They've worked at the corporate level and at the mine site level to improve safety with a goal of zero incidents—a goal we're committed to helping them achieve. So we've added enhanced safety features to our new mining trucks. Like wide, diagonal stairways and powered access ladders to reduce slips and falls. An integrated camera system that gives operators a panoramic view of their surroundings. And lockout controls and ground-level service points to create a safer environment for maintenance personnel. Because like our customers, we consider protecting those who work in, on or around Cat equipment a top priority.



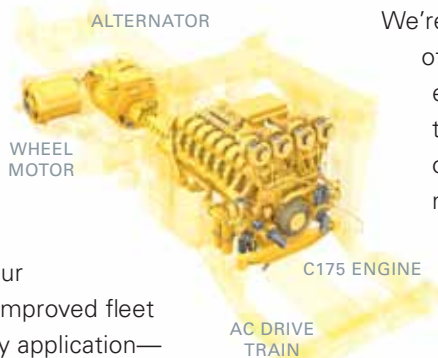
- 10. Technician safety is improved thanks to improved access to components.
- 11. Using state-of-the-art software to test machines can identify safety issues before they occur.
- 12. A ground-level powertrain lockout switch allows the truck to be serviced with the engine running, without the risk of accidental motion.
- 13. Site safety is improved by the Cat Integrated Object Detection System™, which uses radar technology and cameras to improve the operator's situational awareness.
- 14. Rugged frames support the Rollover Protective Structure (ROPS), which provides five-sided protection for the operator and instructor.





MANY unique CONDITIONS one FLEET FOR EVERY APPLICATION

Caterpillar offers the industry's most complete line of mining equipment—a range that is now broader than ever with the expansion of our mining truck fleet. Our improved fleet includes trucks for every application—uphill, downhill, extreme and unique conditions, mechanical or electric drive. Four-corner, multiple disc brakes with dynamic retarding are continuously oil-cooled for exceptional non-fade braking and retarding—delivering reliable performance and control in the most extreme haul road conditions. A range of standard and custom body options are designed for optimal strength and durability—handling even the toughest impact and abrasion over the long haul without diminishing capacity. And we've added a new size class that is well-placed to match a wide range of mining shovels.



We're expanding our offerings with a new electric drive truck that complements our world-leading mechanical drive fleet. Like our mechanical drive trucks, the complete AC drive system—components, electronics, controls and software—is designed, integrated and supported by Caterpillar and the Cat dealer network. So customers get unparalleled options from one reliable source. We're proud to offer both types of drive systems to the mining industry, each one perfectly suited to meet all customers' preferences and match any haul profile in the mining world.



A CAT TRUCK FOR EVERY APPLICATION
Many trucks are available with a number of attachments designed for specific haulage scenarios, including high heat or arctic temperatures, extreme uphill applications; long, flat haul profiles; downhill loaded hauls; and high altitude environments.







MANY NEW WAYS TO PROTECT THE ENVIRONMENT **one** WORLD TO SHARE

Governments, regulatory agencies and our own Code of Conduct mandate that we establish and follow environmentally sound policies and practices in the way we design, engineer and manufacture our products. But we're committed to doing much more than that.

To help educate the public on the importance of protecting the world in which we live while meeting the need for mined materials, we recently produced a new film, "Ground Rules:

Mining Right for a Sustainable Future." The film follows the development of new and operating mines as geologists, engineers and mine managers tackle complex problems and draw on the experiences of others as they illustrate the concepts of sustainability.

For a free copy or to view online, visit www.cat.com/groundrules.

We're also focused on doing our part to make sure our products are better for the environment. While continuing to provide the power our customers need, Cat engines with proven technology—like the C32, improved 3500 and new



C175—meet today's most stringent emissions reduction regulations—and they're poised to take on tomorrow's challenges as well. We're researching how our trucks can operate with alternative energy sources—like biofuels, liquefied natural gas, electric power and hybrid technology. We're preserving raw materials, conserving energy and reducing emissions through our Cat Reman program, which returns end-of-life components to like-new condition. And we're making our trucks as quiet as possible so they have less impact on the communities where they operate.



Caterpillar builds some of the world's most productive trucks—but it takes qualified, satisfied operators to get the most out of them. By polishing the skills of experienced operators and properly training new ones, mining companies can maximize the potential of their Cat equipment. Caterpillar's operator training programs offer hands-on and simulator training as well as e-learning opportunities for every level of skill.

And because satisfied operators are productive operators, we've also



made it a priority to make the environment in which they work as comfortable and safe as possible. Our new cab is unparalleled. It's totally different than anything operators have seen before—with enhanced ergonomics, an updated seat, and controls that are easier to access and operate. We decreased noise and vibration to reduce operator fatigue. And we improved safety by increasing visibility in critical areas and enhancing our Rollover Protective Structure.

We've also taken a role in helping operators adjust to the demands of the mining workday. Our "Managing a Mining Lifestyle" DVD and booklet provide practical solutions for easing the adjustment and day-to-day challenges associated with mining lifestyles. For a free copy visit www.cat.com/mining.

We're confident that our efforts are helping develop confident, skilled operators—operators who are working efficiently and increasing productivity on the mine site.



24/7/365
OPERATIONS
one
PRODUCTIVE
OPERATOR

UPDATED CAB The new cab in the 793F, 795F and 797F features a number of improvements to make it a more comfortable working environment, including controls, levers, switches and gauges that are positioned to maximize productivity and minimize fatigue. It features 40 percent more window area for a 15 percent improvement in operator visibility. An optional full-size, fully padded trainer seat features a backrest, wide hip and shoulder room, and seat belt for secure travel.



CATERPILLAR VIRTUAL TRAINING SYSTEM (VTS) Simulators provide a flexible, safe learning environment that unites simulated worksite applications and conditions with realistic controls. VTS simulators improve safety by allowing operators to train without risk to machines, themselves or others, and they make it possible for training to take place at any time, on-site or off-site. For information visit www.cat.com/simulators.





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1. **THE AQUILA™ DRAGLINE SYSTEM** provides comprehensive production monitoring and real-time information of dragline activities—right down to individual bucket loads and dump locations.

2. **THE AQUILA™ DRILL SYSTEM** helps optimize drill and blasting operations and lower costs by providing accurate drill patterns, nearly eliminating survey work and reducing over/under drilling.

3. **COMPUTER AIDED EARTHMOVING SYSTEM (CAES)**, a versatile machine guidance system that can be used in multiple mining applications, reduces rework by moving material right the first time and reduces ore dilution through material identification.



3

MORE TECHNOLOGY ADVANTAGES **one** UNIFIED SOLUTION

Over the last decade, the mining industry has seen a revolution in technologies—those that are improving the way mines operate today and those that will be the foundation for mine sites of the future.

Whether it's fleet management, diagnostics and prognostics, or machine guidance technologies, Caterpillar is exploring every innovation and leveraging those that are proven to benefit customers by improving safety and sustainability, lowering costs, improving profitability and boosting efficiency.

Productivity solutions—like MineStar™ FleetCommander, Computer Aided Earthmoving System and AQUILA™ Drill & Dragline Systems—focus on fleet management. They increase accuracy, optimize fleet utilization, drive efficiency and improve safety—delivering value to the bottom line.

Health systems—such as MineStar Health and VIMS™ application—gather important machine data that can be managed and analyzed to improve a mine's efficiency, lower operating costs, reduce failures, extend component life and improve maintenance practices.

Autonomous systems—including the MINEGEM™ Underground Automation System, Integrated Remote Control Track-Type Tractor, and autonomous haulage and drill systems—build upon Caterpillar's proven technologies and will make it possible for mines to use machines without in-cab operators. The Integrated Object Detection System™ improves safety by providing truck operators increased visibility around the truck at start-up and slow-down.

Mine sites of the future will combine these technologies with equipment, people and processes to change the way they operate—lowering cost-per-ton while minimizing their impact on the environment and enhancing safety.

www.cat.com/miningtechnology



4

4. **MINESTAR™ FLEETCOMMANDER**, a mine monitoring and management system, improves productivity through features such as advanced truck assignment system, alarm definition, charting/reporting, field machine communication, machine control, and tracking of productivity, machines and materials.



4



5



6



5



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5. **THE CAT INTEGRATED OBJECT DETECTION SYSTEM™** reduces blind spots and increases perimeter awareness by alerting the operator to obstacles around the machine. This robust system includes both radars and cameras to help prevent work area injuries caused by limited visibility.

6. **VIMS™**, an advanced diagnostic and equipment management tool, continuously monitors a wide range of vital machine functions to improve machine availability, component life, and productivity while reducing both repair costs and risk of catastrophic failure.

MINESTAR™ HEALTH, using data from VIMS, analyzes and correlates information on critical machine parameters fleet-wide to reduce failures, extend component life, improve maintenance practices and lower cost per ton.

7. **THE AUTONOMOUS HAULAGE SYSTEM** is being developed by building upon a number of Caterpillar's proven technologies. These technologies, being tested at the Tucson Proving Grounds in Arizona, will allow Cat trucks to achieve new levels of productivity while enhancing mine safety. In the future, trucks will work in concert with other autonomous and manned equipment to dramatically change the way mines operate.



GLOBAL DEALER NETWORK

We've built an extensive network of 180 locally owned businesses in over 200 countries. So wherever you operate, there is a dealer nearby to provide world-class service and support for your Cat equipment. To locate a dealer, visit www.cat.com/dealer.

1,900 WORLDWIDE LOCATIONS one POWERFUL SUPPORT NETWORK

As the only manufacturer of trucks 180 tonnes / 200 tons and over that offers both mechanical and electric drive, Caterpillar is truly unique. But one of our biggest differentiators isn't our trucks themselves. It's our dealer network. When it comes to service and support, customers make one call—to their local Cat dealer.

From parts availability to expert service diagnosis, from maintenance and repair agreements to web-enabled fleet management solutions, Cat dealers partner with customers to help them maximize machine productivity and minimize costs. They share their knowledge, helping customers understand their machine ownership and operating costs so they can make informed decisions about rebuilding and equipment replacement options. They use technologies like wireless data communications, machine monitoring, diagnostics, and job and business management software to lower costs, improve efficiency and increase productivity. And they partner with customers to develop and implement Continuous Improvement projects designed to improve safety, operations, maintenance, and supply and inventory efficiencies.

Cat customers can count on superior products and world-class service from one reliable source. All the components—engines, parts, transmissions—are manufactured by Caterpillar and serviced by Cat dealers.



CONTINUOUS IMPROVEMENT

Cat dealers spend time on customer sites around the world, conducting performance studies in an effort to help them get the most from their Cat equipment. For example, dealers conduct payload management studies, balancing the production and cost-per-ton needs on the mine site. Using a scale truck, they validate empty weights, loaded weights and payload measurement systems. Studies have proven that in addition to production efficiencies, proper load placement and payload management also maximize component life.



A RECORD NUMBER OF IMPROVEMENTS

one

UNPARALLELED FLEET OF TRUCKS

We recently made our largest investment ever in improvements to our mining trucks. Our new trucks and engine have logged hundreds of thousands of hours of field testing. But that's only the beginning. Caterpillar is making significant investments to make sure we are ready to meet our customers' needs in the future. We're continuing to develop new products and update our existing ones in an effort to continuously expand and improve our offerings. We're funding research and development at an aggressive level and pursuing integrated technologies that are the building blocks of autonomy. We're getting our processes ready by implementing a new production system in our factories. And we're partnering with mining companies and dealers to fine-tune our forecasting processes and systems so together we will be ready to capitalize on tomorrow's opportunities.



SAFETY

793F

Faster speed on grade can deliver 5 to 10 percent more productivity than the 793D.

New cab features enhanced ergonomics and easier-to-access controls, improving operator comfort and increasing efficiency.

Wide diagonal stairways and optional powered access ladder allow **safer access and egress**.



789C



793F

797F

Increased horsepower provides a 20 percent **faster top speed** on an effective 12 percent grade, shortening cycle times and increasing productivity.

New single block C175-20 engine, also available as a retrofit for the 797B, is more fuel efficient and easier to maintain, lowering operating costs.

Ground level access allows more convenient servicing, improving safety and lowering maintenance costs.

SERVICEABILITY



797F

PERFORMANCE



795F AC

795F AC

New size class offers more options and matches a wide range of mining shovels.

Cat's first AC electric drive truck is designed, integrated and supported by Caterpillar for a **one-source solution**.

Four-corner blended retarding allows safer and faster downhill speeds—allowing **increased operator confidence and machine controllability**.

BODY OPTIONS



Dual Slope	Gateless Coal	X Body (Jan 2010)
60–76 m ³ / 79–99 yd ³	89–126 m ³ / 116–165 yd ³	64–81 m ³ / 84–106 yd ³

The Cat 777 Off-Highway Truck has been the leader in its class since its introduction. The 777F builds on that reputation by retaining the best features of previous models while offering new and enhanced features and technologies like the new C32 engine, which meets Tier 2 emissions regulations. Other improvements include better performance, reliability and productivity along with all-new safety features and an operator environment that brings a whole new level of value to Cat customers.

777F



ENGINE	C32
POWER	758 kW / 1,016 hp
EMISSIONS	Tier 2
FUEL SYSTEM	EUI
DISPLACEMENT	32.1 L / 1,959 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	67 210–72 977 kg / 148,200–160,900 lb
GROSS OPERATING MACHINE WEIGHT	163 293 kg / 360,000 lb
NOMINAL PAYLOAD	91 tonnes / 100 tons
WEIGHT DIST (EMPTY)	45 / 55%
WEIGHT DIST (LOADED)	33 / 67%
TOP SPEED (LOADED)	65 km/h / 40 mph
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	76 dB(A)

COMMON LOADING TOOLS



Wheel Loader

Cat 992K: 10.7–12.2 m³ / 14–16 yd³
 Cat 993K: 12–14.5 m³ / 15.7–19 yd³
 Cat 993K: 23.7 m³ / 31 yd³ (coal)



Hydraulic Excavator

Hydraulic Front Shovel

KEY FEATURES

Automatic Retarder Control	MineStar*
Directional shift management	Oil Renewal System*
Extended life brake discs*	Payload management*
4-wheel, oil-cooled disc brakes	Road Analysis Control*
Ground-level lockouts	Traction Control System*
Heated mirrors	VIMS*
HID lights*	Work area vision camera*
MAX Payload & Speed Manager*	

*OPTIONAL

ENGINE

With the C32 engine, Caterpillar optimizes engine performance while meeting U.S. Environmental Protection Agency (EPA) Tier 2 and European Union Stage II regulations. ACERT™ Technology reduces emissions during the combustion process by using advanced technology in the air and fuel systems, in conjunction with integrated electronics. No engine derating up to 3658 m / 12,000 ft.



TIRES

27.00-R49

SOME FEATURES AND OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS. CONSULT YOUR DEALER FOR A COMPLETE LIST OF STANDARD AND OPTIONAL FEATURES, CURRENT AVAILABILITY, AND PROPER TRUCK BODY SIZE, LINER AND APPLICATION. FOR PROPER TIRE SIZE AND APPLICATION, CONSULT YOUR TIRE REPRESENTATIVE.

The popular Cat 785 has been improved to lower emissions without compromising productivity. Target payloads have been maintained, and the new 3512C HD engine is Tier 2 emissions compliant while maintaining fuel efficiency. Developed specifically for high production mining and construction applications, the 785D keeps material moving at high volume to lower cost-per-ton. Rugged construction creates a durable machine and easy maintenance procedures ensure high reliability and long life with low operating costs.

785D

ENGINE	3512C HD
POWER	1082 kW / 1,450 hp
EMISSIONS	Tier 2
FUEL SYSTEM	EUI
DISPLACEMENT	58.6 L / 3,574 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	106 219–117 597 kg / 234,170–259,257 lbs
GROSS MACHINE OPERATING WEIGHT	249 476 kg / 550,000 lbs
NOMINAL PAYLOAD	136 tonnes / 150 tons
WEIGHT DIST (EMPTY)	46 / 54%
WEIGHT DIST (LOADED)	33 / 67%
TOP SPEED (LOADED)	55 km/h / 34 mph
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	80 dB(A)

BODY OPTIONS



Dual Slope	Gateless Coal	MSD II	X Body
78–91 m ³ / 102–119 yd ³	140–183 m ³ / 183–239 yd ³	99–115 m ³ / 130–150 yd ³	85–103 m ³ / 111–135 yd ³



ENGINE



The 3512C HD is a 12-cylinder, four-stroke design that uses long, effective power strokes for more complete fuel combustion and optimum fuel efficiency.

This engine meets U.S. EPA Tier 2 emissions standards. No engine derating up to 4267 m / 14,000 ft.

TIRES

33.00-R51

SOME FEATURES AND OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS. CONSULT YOUR DEALER FOR A COMPLETE LIST OF STANDARD AND OPTIONAL FEATURES, CURRENT AVAILABILITY, AND PROPER TRUCK BODY SIZE, LINER AND APPLICATION. FOR PROPER TIRE SIZE AND APPLICATION, CONSULT YOUR TIRE REPRESENTATIVE.

COMMON LOADING TOOLS



Wheel Loader
 Cat 993K: 12–14.5 m³ / 15.7–19 yd³
 Cat 993K: 23.7 m³ / 31 yd³ (coal)
 Cat 994F: 14–31 m³ / 18.5–41 yd³

Hydraulic Excavator
Hydraulic Front Shovel
Rope Shovel

KEY FEATURES

Automatic Retarder Control	Oil Renewal System*
Directional shift management	Payload management
Extended life brake discs*	Rear axle filtration
External digital payload display*	Road Analysis Control*
4-wheel, oil-cooled disc brakes	600 mm / 24 in access system
Ground-level lockouts	Traction Control System
HID lights*	VIMS
MAX Payload & Speed Manager	Work area vision camera*
MineStar*	
Object detection system*	*OPTIONAL

BODY OPTIONS



Dual Slope	Gateless Coal	MSD II	X Body
105–120 m ³ / 137–157 yd ³	182–233 m ³ / 240–307 yd ³	126–148 m ³ / 165–195 yd ³	113–134 m ³ / 148–175 yd ³

The 789C leads the way in the 181-tonne / 200-ton truck class. It's powered by the Tier 1-compliant 3516B, proven to deliver superior performance in the toughest applications. The powertrain delivers more power to the ground for greater productivity and lower operating costs. The 789C offers four different truck body designs to fit any application. Built for durability and supported by the world-class Cat dealer network, the 789C delivers reliable performance around the clock.

789C



ENGINE	3516B
POWER	1417 kW / 1,900 hp
EMISSIONS	Tier 1
FUEL SYSTEM	EUI
DISPLACEMENT	69 L / 4,211 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	126 184–141 543 kg / 278,188–312,049 lbs
GROSS MACHINE OPERATING WEIGHT	317 515 kg / 700,000 lb
NOMINAL PAYLOAD	177 tonnes / 195 tons
WEIGHT DIST (EMPTY)	47 / 53%
WEIGHT DIST (LOADED)	33 / 67%
TOP SPEED (LOADED)	53 km/h / 33 mph
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	74 dB(A)

COMMON LOADING TOOLS



Wheel Loader

Cat 994F: 14–31 m³ / 18.5–41 yd³

Hydraulic Excavator

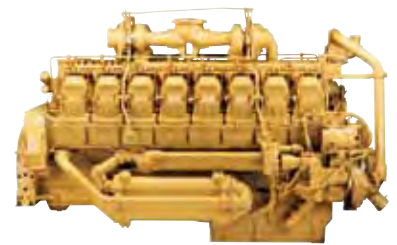
Hydraulic Front Shovel
Rope Shovel

KEY FEATURES

Automatic Retarder Control	MineStar*
Directional shift management	Object detection system*
Extended life brake discs	Oil Renewal System*
External digital payload display*	Payload management
4-wheel, oil-cooled disc brakes	Road Analysis Control*
Ground-level lockouts	Traction Control System
HID lights*	VIMS
High Altitude Arrangement*	Work area vision camera*
MAX Payload & Speed Manager	*OPTIONAL

ENGINE

The US EPA Tier 1 compliant 3516B will deliver the performance needed for the 789C. The 1417 kW / 1,900 hp engine operates with an EUI fuel system that will optimize fuel burn and power.



Built on the heritage of the 3500 series engine, the 3516 continues to deliver performance, durability and reliability. No engine derating up to 2300 m / 7,500 ft (4237 m / 13,900 ft with High Altitude Arrangement).

TIRES

3700-R57

SOME FEATURES AND OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS. CONSULT YOUR DEALER FOR A COMPLETE LIST OF STANDARD AND OPTIONAL FEATURES, CURRENT AVAILABILITY, AND PROPER TRUCK BODY SIZE, LINER AND APPLICATION. FOR PROPER TIRE SIZE AND APPLICATION, CONSULT YOUR TIRE REPRESENTATIVE.

When designing its mining trucks, Caterpillar has three key objectives: safety, service and performance. The 793F delivers all three. From enhanced safety features like ground level service and 600-mm-wide / 24-in-wide stairways, to the increased performance and improved fuel efficiency delivered by the Tier 2 compliant C175-16, the 793F delivers more. And it's available in a wide variety of configurations to meet the needs of any mine site. Matched with the proper truck body, the 793 will continue to be the industry leader in its class.

793F

ENGINE	C175-16
POWER	1976 kW / 2,650 hp
EMISSIONS	Tier 2
FUEL SYSTEM	Common Rail
DISPLACEMENT	85 L / 5,187 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	149 162–169 927 kg / 329,220–375,000 lb
GROSS MACHINE OPERATING WEIGHT	386 007 kg / 851,000 lb
NOMINAL PAYLOAD	227 tonnes / 250 tons
WEIGHT DIST (EMPTY)	48 / 52%
WEIGHT DIST (LOADED)	33 / 67%
TOP SPEED (LOADED)	60 km/h / 37 mph
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	76 dB(A)

BODY OPTIONS



Gateless Coal	MSD II	X Body
238–307 m ³ / 311–402 yd ³	161–191 m ³ / 210–250 yd ³	148–168 m ³ / 195–220 yd ³



ENGINE



The C175-16 engine used in the 793F is rated at 1976 kW / 2,650 hp.

This large displacement engine features a 175 mm / 6.9 in bore, a high pressure common-rail fuel system and is compliant with U.S. EPA Tier 2 emissions standards. No engine derating up

to 3353 m / 11,000 ft (4573 m / 15,000 ft with High Altitude Arrangement).

TIRES

40.00-R57	46/90-R57	50/80-R57
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COMMON LOADING TOOLS



Wheel Loader
Cat 994F: 14–31 m³ / 18.5–41 yd³

Hydraulic Excavator
Hydraulic Front Shovel
Rope Shovel

KEY FEATURES

Additional retarding*	MineStar*
Automatic Retarder Control	Object detection system*
Directional shift management	Payload management
Extended life brake discs	Powered access stairway*
External digital payload display*	Rear axle filtration
4-wheel, oil-cooled disc brakes	Road Analysis Control*
Ground-level lockouts	600 mm / 24 in access system
Heated mirrors*	Traction Control System
HID lights*	VIMS
High Altitude Arrangement*	Work area vision camera*
MAX Payload & Speed Manager	*OPTIONAL

BODY OPTIONS



Gateless Coal	MSD II
350–428 m ³ /	220–252 m ³ /
460–560 yd ³	288–330 yd ³

Caterpillar's first AC electric drive truck sets a new standard for performance. Featuring state-of-the-art safety and maintenance features, the 795F AC also breaks new ground in operator comfort. Operators will appreciate the improved handling made possible by a unique braking system that combines dynamic retarding and oil-cooled disc brakes for the highest retarding speed on grade. The 795F AC matches a wide range of mining shovels and a variety of body options allow it to be adapted to any mining application.

795F AC

LIMITED AVAILABILITY
CONSULT YOUR DEALER



ENGINE	C175-16
POWER	2535 kW / 3,400 hp
EMISSIONS	Tier 2
FUEL SYSTEM	Common Rail
DISPLACEMENT	85 L / 5,187 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	243 000–258 900 kg / 535,300–570,300 lb
GROSS MACHINE OPERATING WEIGHT	570 166 kg / 1,257,000 lb
NOMINAL PAYLOAD	313 tonnes / 345 tons
WEIGHT DIST (EMPTY)	48 / 52%
WEIGHT DIST (LOADED)	33 / 67%
DRIVE SYSTEM	AC electric
TOP SPEED (LOADED)	64 km/h / 40 mph
DYNAMIC RETARDING POWER	4750 kW / 6,370 hp
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	76 dB(A) (test results pending)

COMMON LOADING TOOLS



Hydraulic Front Shovel
Rope Shovel

KEY FEATURES

Automatic Retarder Control	Object detection system*
Directional shift management	Payload management
Extended life brake discs	Powered access stairway*
External digital payload display*	Rear axle filtration
4-wheel, oil-cooled disc brakes	Road Analysis Control*
Ground-level lockouts	600 mm / 24 in access system
Heated mirrors*	Traction Control System
HID lights*	VIMS
High Altitude Arrangement*	Work area vision camera*
MAX Payload & Speed Manager	
MineStar*	

* OPTIONAL

ENGINE

The C175-16 engine used in the 795F AC is rated at 2535 kW / 3,400 hp. This large displacement engine features a 175 mm / 6.9 in bore, a high pressure common-rail fuel system and is compliant with U.S. EPA Tier 2 emissions standards. No engine derating up to 3658 m / 12,000 ft (4573 m / 15,000 ft with High Altitude Arrangement).



TIRES

55/80-R63	56/80-R63	59/80-R63 (Bridgestone only)
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SOME FEATURES AND OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS. CONSULT YOUR DEALER FOR A COMPLETE LIST OF STANDARD AND OPTIONAL FEATURES, CURRENT AVAILABILITY, AND PROPER TRUCK BODY SIZE, LINER AND APPLICATION. FOR PROPER TIRE SIZE AND APPLICATION, CONSULT YOUR TIRE REPRESENTATIVE.

The 797F is the next step in ultra-class mining trucks, designed and built by Caterpillar using components and systems that have evolved through years of rugged mining applications. It delivers excellent maneuverability, safe operation, low maintenance costs, lower operating costs and a comfortable ride. The 797F also features two retarding options for downhill or flat/uphill applications and oil-cooled multiple disc brakes on all four wheels.

BODY OPTIONS



MSD II

220–266 m³ /

288–350 yd³

797F

ENGINE	C175-20
POWER	2983 kW / 4,000 hp
EMISSIONS	Tier 2
FUEL SYSTEM	Common Rail
DISPLACEMENT	106 L / 6,469 in ³
EMPTY OPERATING MACHINE WEIGHT RANGE	251 998–280 381 kg / 555,560–617,913 lb
GROSS MACHINE OPERATING WEIGHT	623 690 kg / 1,375,000 lb
NOMINAL PAYLOAD	363 tonnes / 400 tons
WEIGHT DIST (EMPTY)	44 / 56%
WEIGHT DIST (LOADED)	33 / 67%
TOP SPEED (LOADED)	68 km/h / 42 mph
ROPS	Meets ISO 3471:1994
OPERATOR SOUND	76 dB(A)



ENGINE



The C175-20 engine helps the 797F move more material at higher volumes while improving operating costs through greater fuel efficiency. Rated at 2983 kW / 4,000 hp, this engine features a 175 mm / 6.9 in bore, a high pressure common-rail fuel system and is compliant with U.S. EPA Tier 2 emissions standards. No engine derating up to 2134 m / 7,000 ft (4877 m / 16,000 ft with High Altitude Arrangement).

TIRES

59/80-R63

SOME FEATURES AND OPTIONS MAY NOT BE AVAILABLE ON ALL MODELS. CONSULT YOUR DEALER FOR A COMPLETE LIST OF STANDARD AND OPTIONAL FEATURES, CURRENT AVAILABILITY, AND PROPER TRUCK BODY SIZE, LINER AND APPLICATION. FOR PROPER TIRE SIZE AND APPLICATION, CONSULT YOUR TIRE REPRESENTATIVE.

COMMON LOADING TOOLS



Rope Shovel

KEY FEATURES

Additional retarding*	MineStar*
Automatic Retarder Control	Object detection system*
Directional shift management	Payload management
Extended life brake discs	Powered access stairway*
External digital payload display*	Rear axle filtration
4-wheel, oil-cooled disc brakes	Road Analysis Control*
Ground-level lockouts	600 mm / 24 in access system
Heated mirrors*	Traction Control System
HID lights*	VIMS
High Altitude Arrangement*	Work area vision camera*
MAX Payload & Speed Manager	*OPTIONAL

"Mining safely. Mining more. Mining right." embraces our commitment to mining efficiently and productively while doing the utmost to protect the health and safety of miners, the environment, and the communities where mining companies operate.

We're committed to helping customers protect their greatest asset—their people.

We design products integrated with features that keep people safe when they're in, on or around Cat® equipment.

We're committed to helping customers produce more—more efficiently. We focus on providing equipment that runs more efficiently, lasts longer, delivers higher availability and helps lower cost-per-ton.

We're committed to helping our customers mine right—today and tomorrow. We strive to develop equipment that has more respect for the air we breathe and the earth we share.

Mining safely. Mining more. **Mining right.**

www.cat.com/mining

