





THE NEXT GENERATION OF PRODUCTIVE HAULING

The Cat 785—the first of the next generation of Cat Mining Trucks—is designed to be highly efficient and productive.

If there was one word to describe the hundreds of improvements we've made in our products, it would be "optimized." We've optimized the operator experience, making the machine safer and more comfortable, and incorporating features that make their jobs easier, more consistent and more predictable. We've optimized electronics and connectivity, providing faster and easier access to data and streamlining technology integration. We've optimized machine health, with improved data analytics and new diagnostic capabilities. We've optimized maintenance, with modular features and consolidated components that make service faster and easier.

And we've done it all for one reason: So you can experience optimization in your hauling operation—and boost your bottom line.



EFFICIENT PERFORMANCE. SUPERIOR TECHNOLOGY.

STREAMLINED MAINTENANCE.



A MINING INDUSTRY GAME-CHANGER

The 785 Mining Truck was Caterpillar's first entry into the mining industry more than three decades ago and has been a proven performer on sites around the world ever since. And now it's the first to combine a game-changing level of efficiency with high physical availability to deliver the next generation of productive hauling.

It all starts with the operator, who sits in a state-of-the-art environment designed for efficiency and equipped with features that increase comfort, automate functions, provide real-time information and boost confidence.

The 785 also delivers significant improvements in serviceability and reliability, enhanced connectivity and easier technology integration. These improvements—and more—take an already proven truck to the next level of productivity and deliver a better bottom line to the most important mine in the world: yours.



UP TO 5% REDUCTION IN CYCLE TIMES THANKS TO

- + Larger tire option
- + Higher horsepower option
- + Advanced Productivity Electronic Control Strategy (APECS), which leads to:
 - Smoother and faster shifts
 - Better acceleration and gear optimization

6% HIGHER TKPH / TMPH (TONNE-KILOMETER-PER-HOUR / TON-MILE-PER-HOUR) THANKS TO LARGER TIRE OPTIONS

34% MORE OPERATOR SPACE IN LEADING-EDGE CAB

LESS MAINTENANCE & REPAIR = LOWER COSTS



1st truck in the Caterpillar product line for mining

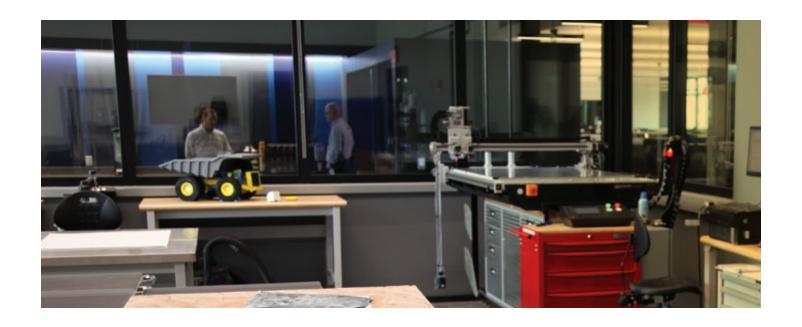
Our 1st mechanical drive truck in the 150-ton size class

1st Cat truck built as Tier 4

1st in productivity and efficiency

1st to incorporate next generation technology





A PROVEN DESIGN PHILOSOPHY

When it comes to making Cat mining trucks, we follow a proven design philosophy that focuses around five main areas:

- 1. MAKING A SUSTAINED INVESTMENT IN RESEARCH & DEVELOPMENT
- 2. INTEGRATING EVERY COMPONENT
- 3. DELIVERING IRON THAT PERFORMS
- 4. SUPPORTING PRODUCTS—
 AND PRODUCTIVITY
- 5. LISTENING TO OUR
 CUSTOMERS TO SPUR
 CONTINUOUS IMPROVEMENT

By following this philosophy—for every truck, every time—we strive to ensure that you get what you expect from Caterpillar: low cost per ton, high productivity and more uptime.

A PROVEN APPROACH TO R&D



A WORLD-CLASS TEAM OF ENGINEERS AND EXPERTS



A DISCIPLINED APPROACH TO DEVELOPMENT



MINING INDUSTRY FEEDBACK



TESTING AND VALIDATION OF EVERY MACHINE





HOW WOULD MORE HAULS PER YEAR BOOST YOUR BOTTOM LINE?



36 EXTRA MINUTES PER SHIFT



219 EXTRA HOURS PER YEAR

- GIVE YOU -



based on 12-hour shifts with 5% reduced cycle times

FASTER CYCLES

The 785 can deliver up to a 5% reduction in cycle times thanks to options such as larger tires and high horsepower, as well as the addition of automated functions and controls that boost efficiency and shorten the operator learning curve.

In addition, the Advanced Power Electronic Control Strategy (APECS) delivers productivity and efficiency improvements that can reduce cycle times. Benefits of APECS vary by application, but most mining applications will see an improvement to the bottom line through:

- + **Faster cycle times.** More continuous torque and rimpull delivers more power to the ground and makes it possible to use a higher gear on grade for optimal fuel efficiency.
- + **Faster acceleration.** Forward momentum and torque are maintained through each shift, with optimum gear selection resulting in faster acceleration.
- + **Improved operator comfort.** Operators enjoy a more comfortable ride thanks to smoother transitional shifting and reduced shift jerk levels.
- + **Reduced haul road maintenance.**Smoother shifting results in less spillage and less haul road maintenance required.
- + **Improved engine and powertrain life.**A reduction in torque spikes and fewer variations in engine speed deliver longer engine and powertrain component life.





REDUCE YOUR DOWNTIME. REDUCE YOUR COSTS.

We've reduced key contributors to downtime with features like the new modular HVAC (heating, ventilation and air conditioning) system, which improves reliability and consolidates components so the entire system can be removed and replaced quickly. A modular radiator reduces engine removal and installation time and enables rebuilds to be completed off the truck for reduced downtime.

Remote Troubleshooting capabilities reduce downtime and optimize machine performance by providing immediate access to the latest software updates and making it possible to troubleshoot the machine remotely or schedule updates when it's most convenient to the operation.

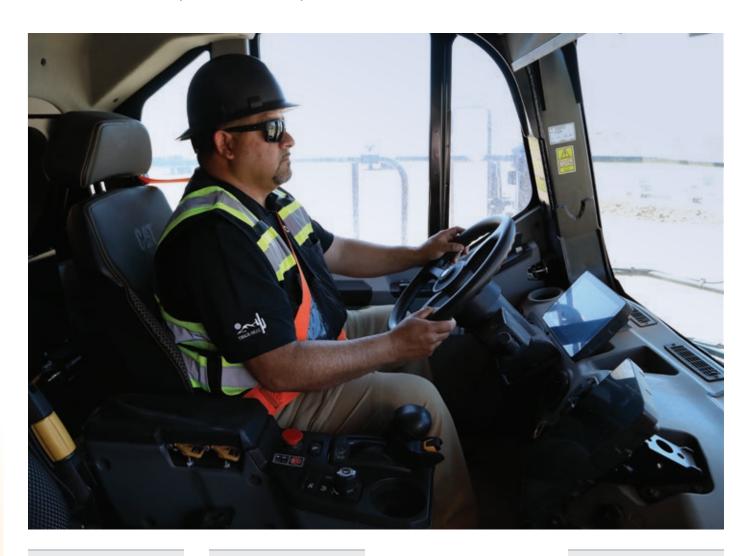


IMPROVEMENTS IN SERVICEABILITY AND RELIABILITY

- + Extended-interval filters with groundlevel access
- + Fluid-level sight glasses
- + Grouped service points
- + New centralized service center option
- + Extended coolant life (12.000 hours)
- + Extended hydraulic and TC/transmission filter life (500 to 1,000 hours)
- + Modular HVAC and modular radiator
- + Cleaner hydraulic and electrical routings
- + 100% airless electric start option, which eliminates air system maintenance from the machine and improves uptime
- + SOS and pressure ports for faster, safer oil sampling and troubleshooting
- + Brake wear indicator allows planned maintenance
- + Ground-level filters with extended service intervals for faster, safer planned maintenance

DESIGNED BY OPERATORS FOR OPERATORS

The latest cab is equipped with features that increase comfort and improve efficiency.



+17% CAB WIDTH

+11%
LEG
ROOM

34%
MORE
OPERATOR
SPACE

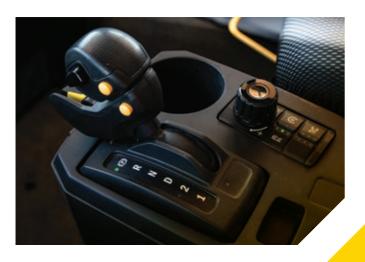
+19% SHOULDER ROOM

As compared to D-series cabs



IMPROVED CAB

The 785 cab is spacious and ergonomic, with controls, levers and switches positioned for ease of use. It's also quieter and offers automated temperature control and cab filtration for a safer and more comfortable environment. A walkthrough cab with fully adjustable center console, easy-to-adjust seat and increased leg room make the cab ideal for operators of all sizes.



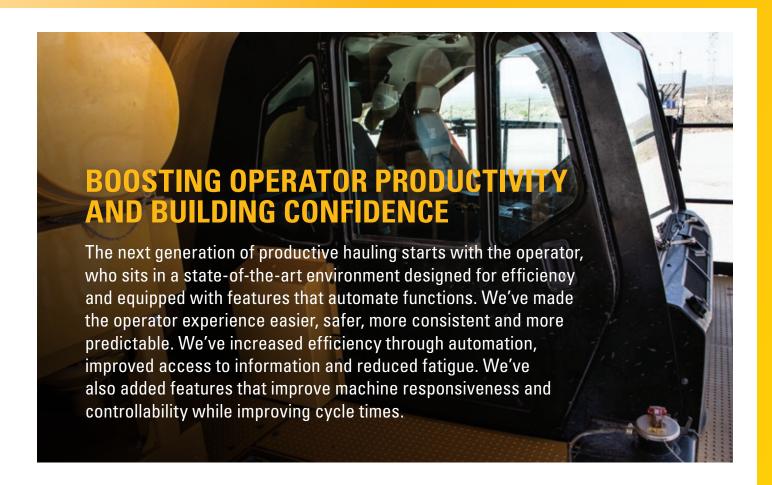
OPERATOR COMFORT & CONFIDENCE





Machine data, controls and guidance information are consolidated onto two 10-inch screens to reduce the number of displays required and present the right information when needed. The screens are ideally located to enable the operator's eyes to remain forward as much as possible, reducing fatigue and improving

safety. The gauge cluster is non-touchscreen while the secondary screen containing machine information is a touchscreen display. The displays provide a simple, consistent and intuitive user interface for operators across all global regions.



30+ NEW OR IMPROVED TECHNOLOGY FEATURES



AUTO HOIST

The optional Auto Hoist feature automatically raises the body and controls engine speed, simplifying operation and minimizing cycle times and cycle time variations across various operators. This feature is integrated with the transmission control, requiring less hand movement and enabling easier operation.



OPERATOR SPEED COACHING

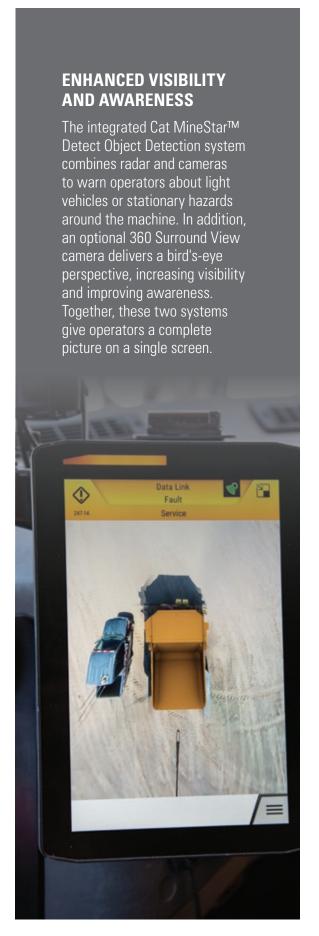
The Operator Speed
Coaching function gives
operators real-time feedback
on factors such as payload,
grade and ground conditions
to help them choose the
right speed for high
productivity and safety.



PAYLOAD MONITORING

The payload monitoring system is twice as accurate as its predecessor, with better monitoring and an improved interface that provides easy access to information.

OPERATOR CONFIDENCE





DYNAMIC STABILITY CONTROL (DSC)

An option to help steer operators in the right direction, DSC monitors steering intention—where the operator intends to go—tracks the motion of the truck, and then automatically modulates the brakes to ensure the machine is tracking.

- + Prevents understeering & oversteering
- + Gives operators better control of their machines
- + Ensures a safer mine for everyone

MACHINE SPEED LIMITING AND CRUISE CONTROL

This feature allows the operator to quickly and easily set a target speed limit. The truck will limit fuel or apply brakes to ensure the target speed limit is not exceeded. The powertrain will select the appropriate gear and RPM, improving performance and efficiency.

NOTE: Some optional features shown

AUTOMATIC RESISTOR CONTROL (ARC)

Automatic Resistor Control senses truck conditions like grade, payload, brake oil temperature and more to automatically set an optimum resistive braking speed. This allows trucks to safely travel 3–6% faster on grade, driving down cycle times with no impact on safety. In addition, zero fuel is consumed during mechanical resistive braking.

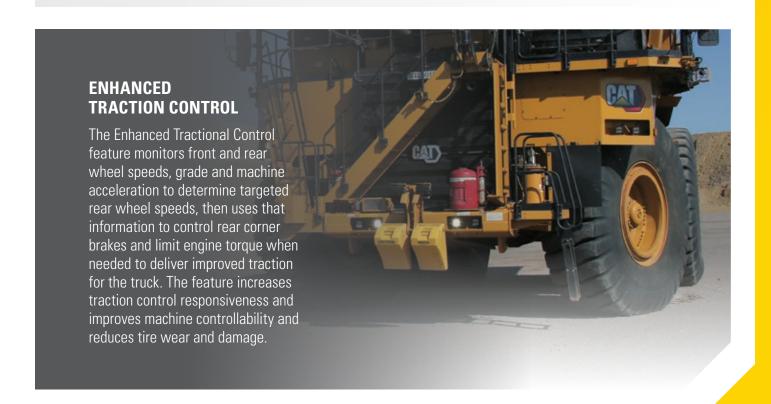
HILL START ASSIST WITH ANTI-ROLLBACK

Hill Start Assist uses physical grade and payload to determine the rimpull needed to keep the truck stationary and simplifies operation to move the truck in selected direction.

Anti-Rollback stops the machine with automatic brake application when it is rolling in the opposite direction of the selected gear.

ANTI-LOCK BRAKE SYSTEM (ABS)

This optional system reduces wheel lock and the resulting chance of an uncontrollable skid, making it easier to control the truck in braking situations with reduced traction. ABS allows the operator to steer while in a sliding condition and helps the operator maintain the desired path of travel during braking.



SAFETY-INFUSED

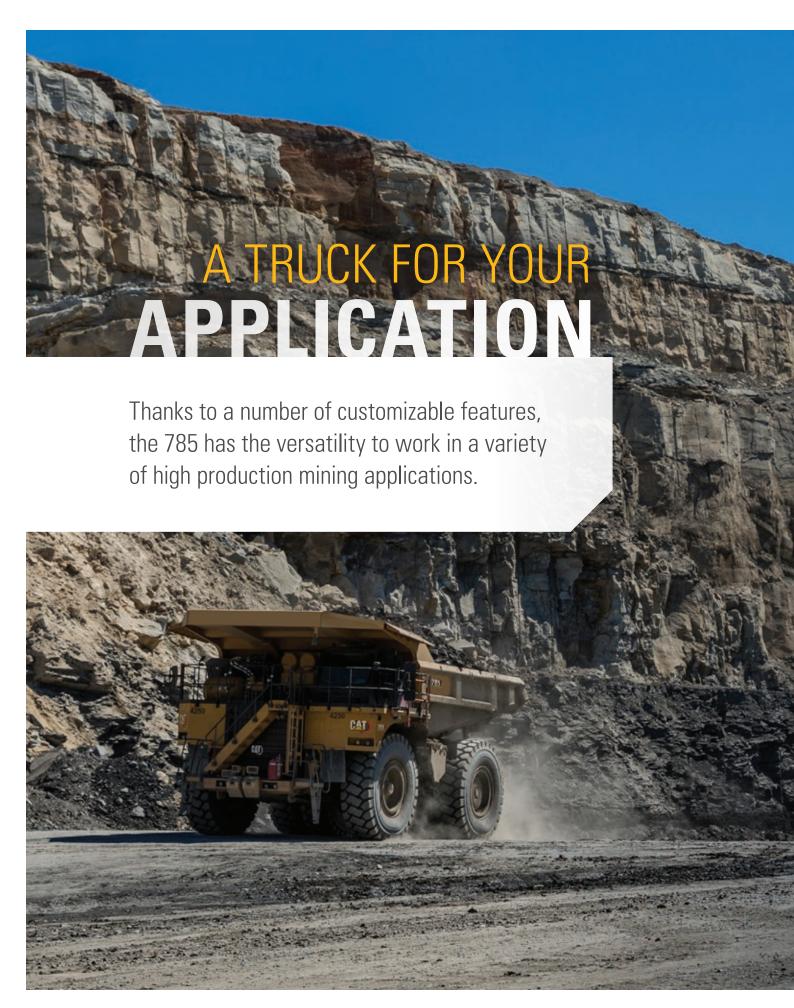


SUPERIOR BRAKING

Like all Cat trucks, the 785 offers superior braking for increased operator confidence. The oil-cooled, multiple disc brakes provide immediate, fade-resistant braking. The 785 has a true four-corner service braking and mechanical resistive braking (retarding) system proven in thousands of Cat mining trucks in challenging underfoot conditions. With mechanical resistive braking power applied to all four corners, the full weight of the truck can be applied for traction, resulting in maximum productivity even in poor underfoot conditions.









EMISSIONS OPTIONS

The 785 can be configured to meet U.S. EPA Tier 4 Final regulations, or fuel optimized for countries where the regulations are less stringent.



TIRE OPTIONS

The 785 lets you select the tire offering that best matches your application, with larger tires available to improve payload, speed and fuel efficiency. For flat, long, high-speed applications, the 36R51 tire option delivers a 6% higher TPKH / TMPH tire capability and allows for a higher payload. In Caterpillar machine simulations, this option also shows a better match to the engine with an improvement in fuel efficiency. The 33R51 tire option is the more common size tire in the industry and is typically more readily available globally. The frame is designed to maintain the same turning diameter while accommodating both tire sizes.



COLD WEATHER OPERATION

The 785 is available with cold-weather features and options that make it ideal for mines operating in frigid environments. It features automatic engine thermal management, a variable fan speed for low temperature operation, and an electric-start or air-start option. Operators work comfortably with a heated seat, automated temperature controls and a highly reliable modular HVAC system. Additional cold-weather features include:

- + Fuel filter with water separator and fuel heater
- + Engine coolant heater and oil heater for startup
- + Engine coolant for -50°C / -58°F
- + Heated mirrors



HIGH ALTITUDE CAPABILITY

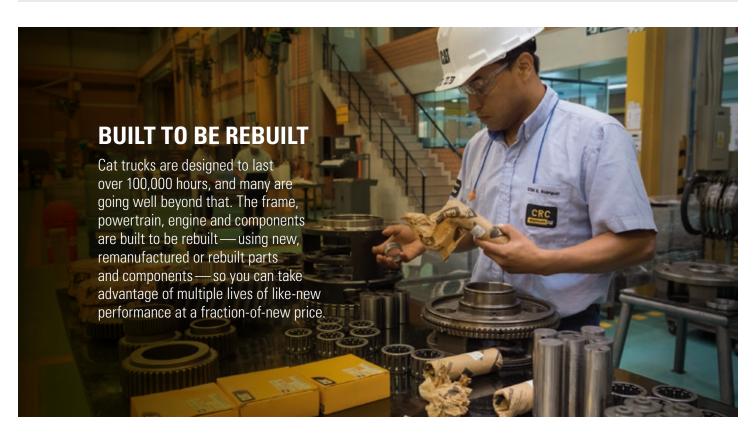
The 785 is designed for operation at high altitudes up to 2987 m / 9,800 ft without engine derate. It can operate at higher altitudes with some engine derate.



STRONG BACKBONE

The 785 frame uses a box-section design, incorporating two forgings and 21 castings in high-stress areas with deep penetrating and continuous wrap-around welds to resist damage from twisting loads without adding extra weight. The mild steel frame provides flexibility, durability and resistance to impact loads. The integral 4-post ROPS cab provides increased strength for operator protection.







The individual components, software, systems and engine that go inside a Cat 785 have different purposes, but they have one very important thing in common: They are all manufactured by

Caterpillar and supported by the Cat dealer network. This integration ensures that the entire truck, from tires to transmissions, engines to electronics, can be fully optimized to deliver lower cost per ton.



GET THE RIGHT BODY FOR THE JOB

Matching the truck body to the application is a critical part of achieving high value from your 785.

Caterpillar offers a variety of application-specific body options. The Caterpillar optimized payload policy helps achieve a balance of excellent payload, optimal durability and safe operation.

Caterpillar designed and manufactured bodies are integrated with the chassis as a unit to optimize performance and incorporate optional U.S. EPA Tier 4 components, including body exhaust heat.

HIGH PERFORMANCE (HP) BODY

The HP body features a lightweight, simplified and durable design that provides complete front machine coverage and extended overhead protection. The HP body features robust top rail geometry with internal stiffeners and a high-visibility load placement indicator. Patented floating bolsters and spring plates improve overall durability by avoiding welds in high-stress areas. In addition, the body requires only minimal liner coverage due to thicker and harder base plates. Curved front/side transitions minimize carryback.

ADDITIONAL FEATURES

- + Application-specific side wall and tail extensions
- + Body exhaust heat
- + Bodies compatible to all previous generation trucks
- + Customizable body liner packages









SOLUTIONS FOR YOUR JOURNEY TO A REDUCED-EMISSIONS FUTURE

There are a variety of features, solutions and offerings that can help you reduce emissions today as you build a path to to a reduced-emissions future.

- + Today's 785 has been designed to use less fuel and reduces corresponding greenhouse gas emissions. Zero fuel burn during mechanical resistive braking, combined with high mechanical drive powertrain efficiencies, can decrease fuel consumption.
- + The optional U.S. EPA Tier 4 Final engine can reduce NOx and particulate matter.
- + Caterpillar scale studies utilize truck scales and bed scanners to help optimize empty machine weight, reduce carryback and ensure ideal payload. Reduction in weight or payload results in lower CO2 per ton.
- + Caterpillar Production Studies optimize operations and improve productivity and utilization at the fleet, site and enterprise levels. These studies can be conducted on site or remotely.
- Site assessments that evaluate haul road design, maintenance and traffic patterns provide opportunities to improve cycle times, increase productivity, lower fuel burn per cycle and reduce maintenance costs.

- + The 785 engine is compatible with diesel fuel blended with lower-carbon intensity fuels such as biofuels and renewable fuels. These fuels reduce lifecycle greenhouse gas (GHG) emissions in the fuel value chain; GHG emissions at the tailpipe are essentially the same as traditional fuels. Drop-in replacements for diesel include biodiesel fuels, Hydrotreated Vegetable Oil (HVO) and Gas-to-Liquid (GTL) fuels.
- + Features like the Enhanced Engine Oil Filtration System, continuous rear axle filtration, extended life filters and longer maintenance intervals decrease the amount of waste contributed to the environment.
- + We preserve raw materials, conserve energy and reduce emissions through the Cat Reman program, which returns end-of-life components to like-new condition. Reman has been shown to contribute 65-87% less GHG process emissions. It uses 80-90% less new materials (by weight) and 65-87% less process energy.*
- + Machine rebuilds also consume less energy and reduce emissions compared to manufacturing new trucks.

^{*}Represents U.S. environmental impacts comparing gate-to-gate remanufacturing and manufacturing processes for engines and components.

Based on 2018 external study of Cat engines, alternators and turbochargers. Does not include impacts elsewhere in our value chain.



MORE POWER, LOWER COSTS

The 785 is powered by the 3512E engine, which delivers higher power, 10% more fuel to overhaul, and high reliability — contributing to overall lower operating costs. The 12-cylinder four-stroke design uses long, effective power strokes for more complete fuel combustion and optimum fuel efficiency. The 23% net torque rise provide unequaled lugging force during acceleration, on steep grades and in rough underfoot conditions. High displacement, low rpm rating and conservative horsepower ratings mean more time on the haul roads and less time in the maintenance shop. The MEUI-A fuel system delivers class-leading fuel efficiency and robustness to lower quality fuels and also delivers lower repair costs compared to competitive engines.

The 3512E engine gives you the ability to select the power rating:

- + 1 081 kW / 1,450 hp to match your current fleet performance
- + 1 193 kW / 1,600 hp for faster cycle times

PROVEN EMISSIONS SYSTEM

The Cat 785 is available in a fuel-efficient configuration that meets U.S. EPA Tier 4 Final emissions standards. Through over 360,000 hours of successful operation on Cat mining trucks, the system has proven its ability to deliver with no impact on machine performance. Designed for easy serviceability with readily accessible components, the modular aftertreatment system reduces overall fluid and fuel consumption and is aligned with truck preventive maintenance intervals to maintain high availability.

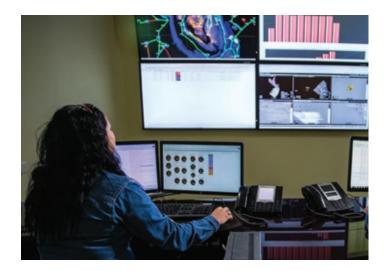
OVER
360,000
HOURS
OF SUCCESSFUL
OPERATION



OPTIMIZE YOUR ENTIRE OPERATION

Optional offerings improve the overall safety, efficiency and productivity of your operation:

- + Fleet Management
- + Driver Safety System
- + Proximity Awareness
- + Equipment Care Advisor
- + Health-Equipment Insights
- + Health Office
- + Command



GAIN AN EDGE

WITH CAT MINESTAR™ SOLUTIONS











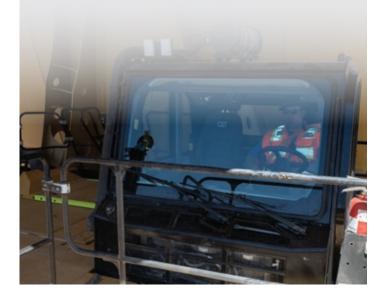
HEALTH

Cat MineStar Solutions help you optimize your loading and hauling operation, keeping your shovels busy and your trucks on the move. MineStar fleet management tools will help you identify opportunities to improve truck efficiencies in ways that increase payload, reduce cycle times, lower costs and boost profitability. And they'll guide your operators to the right material, optimize every truck load, track what material goes where and ensure you're moving the right amount of material with every load. And when you add autonomous trucks to the mix, you'll gain even more efficiencies. The result? Productivity goes up and costs go down.

MineStar Solutions for loading and hauling include a range of capabilities that meet the needs of your fleet, your budget and your site. From simple fleet management offerings to fully autonomous haulage, every solution puts more value to your bottom line.

MANAGING AND MITIGATING FATIGUE

Fatigued and distracted machine operators are present on every mine site every day—and the consequences can be costly, even fatal. The Cat Driver Safety System (DSS) is a non-intrusive, in-cab detection system that can help you identify fatigue and distraction—and address it—in real time. The 785 leaves the factory ready for the DSS, which also includes an option to send events to a 24-hour monitoring center.



IMPLEMENTING AUTONOMOUS HAULAGE

MineStar Command for hauling, an autonomous hauling solution, is a fully integrated factory offering on the 785. Command enables near-continuous utilization and has proven to increase productivity by up to 30%.

Operators are completely removed from the environment for significant improvements in site safety. Hundreds of autonomous Cat machines are currently in service.



—AND PRODUCTIVITY

Our commitment to your success doesn't end when your Cat 785 begins hauling overburden or ore. We immediately start looking for ways to make that truck work more efficiently, safely and productively. From addressing performance issues, to training operators and technicians, to calibrating onboard technologies — our support of your truck productivity is ongoing.

Caterpillar and Cat dealer personnel will work with you to help improve the performance not only of your trucks but of your overall loading and hauling operation. You'll have access to parts and service, and technicians who are focused on helping you optimize repairs to keep machines in the field rather than the maintenance shop. And we help with training to ensure your operators have the skills and knowledge they need to work as efficiently and productively as possible.

Together with our Cat dealer network, we customize service offerings to provide a maintenance solution that fits your operation—whether you want to perform the majority of service yourself, or you're looking for an on-site 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.

SITE-LEVEL SOLUTIONS

We're committed to supporting more than your equipment. We work together to find ways to help you optimize your entire operation. We'll work alongside you to help you improve site productivity and machine availability while lowering cost per ton. We have teams of people with decades of experience working in the industry. They have hands-on knowledge of mining machines and applications, site operations and equipment maintenance and repair, mining technologies, safety solutions, fleet management—and more

- + Cat Job Site Solutions Combining the products, services and expertise of the global Cat dealer network and Caterpillar providers into customized solutions that help you optimize your equipment, your people and your overall operation.
- + Caterpillar Safety Services Guiding you along your safety journey by providing industry best practices, continuous improvement processes and the latest technologies to see, mitigate and manage risks.

CAT CUSTOMER VALUE AGREEMENTS (CVAS)

Cat Customer Value Agreements (CVAs) for mining help you optimize equipment health, keep your fleet moving and get the most from your investment. With built-in cost controls and a range of guarantees, your dealer can tailor these plans to suit your mine site's needs and bring top results to your business. Your Cat dealer can offer you options for planned maintenance, components and powertrain—all with the flexibility to be shaped for your operation.

- + Hassle-Free Ownership. CVAs bring together dealer advice, easy parts acquisition, plus options for flexible payment terms.
- + Hassle-Free Maintenance. Getting the right Genuine Cat Parts delivered to the right place at the right time makes it easier for maintenance to get done. Service options are flexible to meet your needs.
- + Security of Expert Dealer Support. Cat CVAs are customized plans that offer troubleshooting, diagnostics and repairs with Genuine Cat Parts. If you need trained technician assistance, there are options for that, too.
- Peace of Mind from Equipment Health Management. You get easy access to monitoring tools with a Cat CVA. Digital tools give you the ability to access important operating parameters for your business anywhere you have an internet connection.

SUPPORT FOR THE COMPLETE EQUIPMENT LIFECYCLE

No one knows more about how to get the most from a piece of Cat equipment than your local Cat dealer. This one-of-a-kind, on-the-ground support network delivers expert service, integrated solutions, aftersales support, fast and efficient parts fulfilment, world-class rebuild and remanufacturing capabilities, and more.

Cat dealers operate as nearly 150 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.



BETTER LOADING BETTER HAULING

BETTER BOTTOM LINE

With a truck for every site or application—no matter the size class or drive system—and a broad lineup of loading tools, Caterpillar delivers a complete loading and hauling solution that is designed to deliver low cost per ton.

Trucks and loaders are ideally matched to optimize the loading and hauling cycle. Whether you choose a Cat electric rope shovel, hydraulic mining shovel or large wheel loader, or a mechanical-drive or electric-drive Cat truck, you'll find they all have one thing in common: They're Caterpillar, inside and out. From iron to engines, hydraulics to electronics, software to hardware, transmissions to ground engaging tools—systems are fully integrated and work together to deliver optimized performance and a better bottom line.







TECHNICAL SPECIFICATIONS

See cat.com for complete specifications.

ENGI	VE	
Engine Model	Cat® 3512E	
Gross Power – SAE J1995:2014	1193 kW	1,600 hp
Net Power – SAE J1349:2011	1125 kW	1,509 hp
Rated Speed	1,650 rpm	
Emissions Rating	Fuel Optimized	
Bore	170 mm	6.7 in
Stroke	215 mm	8.5 in
Displacement	58.56 L	3,573 in ³
Net Decree advantised in the married		a Lacorda a sa

- + Net Power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, and alternator.
- + U.S. EPA Tier 4 Final / EU Stage V available for applicable markets
- + Additional fuel optimized selectable power ratings: 1,450 hp

WEIGHTS – APPROXIMATE			
Rated Gross Machine Weight (RGMW)			
33.00 R51 Tires	249 476 kg	550,000 lb	
36.00 R51 Tires	255 826 kg	564,000 lb	
Chassis Weight (CW)			
33.00 R51 Tires	84 731 kg	186,799 lb	
36.00 R51 Tires	87 631 kg	193,192 lb	
Body Weight (BW)	26 208 kg	57,779 lb	
Nominal Rated Payload (NRP)			
33.00 R51 Tires	139 tonnes	153 tons	
36.00 R51 Tires	142 tonnes	157 tons	
Consult your tire manufacturer for m	ovimum allawahla tir	alaad	

- + Consult your tire manufacturer for maximum allowable tire load
- + Chassis weight with full fuel and fluids, standard & mandatory attachments, hoist, body mounting group, rims, and tires.

WEIGHT DISTRIBUTIONS – APPROXIMATE		
Front Axle – Empty	48%	
Rear Axle — Empty	52%	
Front Axle – Loaded	33%	
Rear Axle – Loaded	67%	
+ Weight distributions optimized with Cat body.		

FINAL DRIVES			
Double reduction, planetary with full floating axles.			
Differential Ratio 2:10:1			
Planetary Ratio	10.83:1		
Total Reduction Ratio	22.75:1		
TRANSMISSION			

TRANSMISSION		
Forward 1	12.0 km/h	7.4 mph
Forward 2	16.2 km/h	10.0 mph
Forward 3	22.1 km/h	13.7 mph
Forward 4	29.8 km/h	18.5 mph
Forward 5	40.2 km/h	25.0 mph
Forward 6	57.2 km/h	35.6 mph
Reverse	11.6 km/h	7.2 mph
Top Speed – Loaded	57.2 km/h	35.6 mph
+ Maximum travel speed(s) with standard 33.	00 R51 tires.	

+ Ma	aximum trave	l speed(s) with staı	ndard 33.	00 R51	tires.
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TIRES & RIMS
33.00 R51 (standard)
36.00 R51 (optional)
610 mm (24") Rims (standard)
660 mm (26") Rims (optional)
Ovide Channe Bine antique

- + Quick Change Rims optional.
- + Caterpillar recommends the customer evaluate all job conditions and consult tire manufacturer for proper tire selection and Tonne Kilometers Per Hour (TKPH) Ton-Miles Per Hour (TMPH) capabilities.

BRAK		
Service Brakes	Four-Corner, Wet Disc, Oil Cooled, Hydraulically Actuated	
Front Wet Disc Brake Surface A	rea 61 270 cm ²	9,487 in ²
Rear Wet Disc Brake Surface Ar	ea 89 728 cm ²	13,908 in ²
Standards (Service and Seconda	ary) ISO 3450:2011	
Parking Brake Four-Corner, Multi-Disc, Spring-Applied, Hydraulically Released		

CAPACITY – MSD II – 100% FI	ILL FACTOR	
Struck	72 m³	94 yd³
Heaped (SAE 2:1)	99 m³	129 yd²
+ Consult your local Cat dealer for body recommendations.		

BODY HOISTS				
Twin, two-stage hydraulic cylinders with sn	Twin, two-stage hydraulic cylinders with snubbing valve.			
Pump Flow – High Idle	847 L/min	223 gal/min		
Relief Valve Setting – Raise	17 225 kPa	2,500 psi		
Body Raise Time – High Idle	15.0 sec			
Body Lower Time – Float	15.6 sec			
Body Power Down – High Idle	15.5 sec			

SUSPENS	ION	
Self-contained nitrogen/oil cylinders, p double shear clevis attachments	in-to-pin mounting, top	& bottom
Effective Cylinder Stroke – Front	320 mm	12.6 in
Effective Cylinder Stroke – Rear	165 mm	6.5 in
Rear Axle Oscillation	+/- 5.4 degrees	

SERVICE REFILL CAPACITIES				
Fuel Tank	1552 L	410 gal		
Diesel Exhaust Fluid (DEF) Tank (if applicable)	136 L	36 gal		
Cooling System	476 L	126 gal		
Crankcase	204 L	54 gal		
Front Wheels, Each	27 L	7.1 gal		
Differentials & Final Drives	527 L	139 gal		
Steering Tank	110 L	29 gal		
Steering System (Includes Tank)	117 L	31 gal		
Brake/Hoist Tank	511 L	135 gal		
Brake/Hoist System (Includes Tank)	541 L	143 gal		
Torque Converter/Transmission System (Includes Sump)	175 L	46 gal		

CAB	
Air Conditioning (HFC – 134A refrigerant)	24,500 Btu/hr
Heater / Defroster	33,300 Btu/hr
Sound level: Operator sound pressure level tested to ISO 6396:2008	80 dB(A)
Rollover Protective Structure: ROPS for Operator ROPS for Trainer	ISO 3471:2008 ISO 13459:2012
Falling Objects Protective Structure: FOPS for Operator FOPS for Trainer	ISO 3449:2005 Level II ISO 13459:2012 Level II

STEERIN	G	
Steer Angle	25.1 degrees	
Turning Diameter (ISO 7457:1997)	29.4 m	96.6 ft
Steering Standards	ISO 5010:2019	



MINING TRUCK

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

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

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