

Cat® 789 Mining Truck

With the lowest cost per ton in its size class and high reliability, the next generation 789 Mining Truck delivers industry-leading results. Featuring the most efficient power train available, more emission choices, and over 30 new features to boost performance and safety, 789 has never been easier to choose, own, operate, and maintain. Additionally, the exceptional support from the Cat® Dealer Network assures high uptime and a long-life cycle.

Outperforms Competitive Models – Every Load and Every Cycle

- · Most power available in-class with a 200 hp advantage
- Payload capacity is 10% more than comparable trucks
- Speed on grade is over 5% faster than others

Move More With Less Fuel

- The APECS transmission provides more continuous torque and rimpull to the ground, allowing for higher gear use on grade which delivers fuel economy and faster cycle times
- Larger tire options allow for more speed in long-haul applications
- · Zero fuel burn during retarding
- Up to 9% less fuel consumption than the former 789 Tier 2 model

Productivity Boosting Cab

- Quieter cab has 40% less sound pressure level
- Wider design with 34% more operator area and improved visibility
- Speed Coaching provides real time feedback to maximize productivity and efficiency
- Payload Monitoring System has double the accuracy of the previous version
- Improved operator controls deliver greater stability and machine responsiveness

Cutting-Edge Connectivity and Technology

- 100 Mbps 2-wire ethernet connectivity and port with 250 channels (10 Mbps @ 1hz)
- More powerful controllers/ECMs
- Integrated technology
- · Real time decision making
- Troubleshoot maintenance issues, predict, and prevent machine failures
- · Current and future technology solution

Cat 3516E Engine Has More Power, More Efficiency and Lower Costs

- Fuel optimized engine for less regulated countries or optional engine that is compliant to U.S. EPA Tier 4 Final and EU Stage V emissions standards
- Engines have electable power ratings of 1417 kW (1,900 hp) or 1566 kW (2,100 hp)
- 12% more durable than previous 3516C, extending life and reducing costs

More Safety Built-In

- Five-sided coverage in the ROPS/FOPS structure protects occupants
- · Braking and retarding is immediate and fade-resistant
- Fatigue and distraction alerts are sent to the operator from the Driver Safety System
- · Birds-eye visibility with Cat Vision 360

Gain an Edge With MineStar™ Solutions

Whether you need a few semi-autonomous functions or full autonomy, the MineStar™ suite of products improves overall safety, efficiency, and productivity of your operation.

- Fleet Management
- Driver Safety System
- Equipment Care Advisor
- Health Office

- Object Detection
- Proximity Awareness
- Health Equipment Insights
- Command



Cat® 789 Mining Truck

Standard and Optional Equipment

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

	Standard	Optional
ELECTRICAL	Stalluaru	орионат
24V electrical system, low maintenance		
batteries (two) 93 amp-hour	✓	
Alarm, backup	√	
Auxiliary rear work lights, (one) LH side		✓
Brushless alternator, 225 amp	✓	
Digital payload display		✓
LED payload indicator lamps	✓	
Workshop horn		✓
Jump start/battery charge receptacle	✓	
Ground accessible power control box:		
- VIMS™ lamp	✓	
- Engine starter, transmission and		
battery lockouts	✓	
LED Lighting system:		
– Back-up and hazard lights	✓	
– Curb lights, (one) RH side, (one) LH side	✓	
– Turn signals (front and rear)	✓	
– Engine compartment lights	✓	
– Headlights with low-high beam selector	✓	
– Ladder light and service deck lights	✓	
– Stop/tail lights	✓	
– Additional lighting package		✓
– Body rear stop/tail lights and directional signal		✓
– Seat and park brake		✓
TRUCK BODIES		
Dual Slope body		✓
High Performance (HP) body		✓
MSDII body		✓
X body		✓
Body specific side wall and tail extensions		✓
Customizable body liner packages		✓
Body heat exhaust		✓
Rock ejectors		✓
FLUIDS		
Extended life coolant to -35° C (-30° F)	✓	
Antifreeze/coolant protects to -50° C (-58° F)		✓
OPERATOR ENVIRONMENT		
5V USB charging port	✓	
12V auxiliary power connection	✓	
Cup holders	✓	
Ethernet service port	✓	
Delayed engine shutdown	√	
Dome courtesy light and map lights	✓	
Emergency stop	✓	
Cruise control		√
Operator speed coaching		√
Entertainment radio ready:		•
- Speakers	✓	
- Radio Antenna (AM/FM/XM/DAB)		✓
- Radio mounting provisions and 12V		
power supply	✓	

Fire suppression ready Floor mat, multi-piece and replaceable Digital gauges and indicators panel: - Critical oil and coolant temperatures - Fuel and Diesel Exhaust Fluid (DEF) level (if applicable) - Engine system, brake and transmission fault indicators - Speedometer, Tachometer Operator selectable max. machine speed by rotary dial Heated mirrors, right and left PRNDL shift lever and body hoist control Interactive touchscreen vehicle information display: - Day/night mode - Action alarm - Configurable gauge display Premium operator air suspension seat Operator door power window Provision for customer accessory mounting Push button secure start Retractable front visor ROPS cab, insulated/sound suppressed Stairway and walkway access, 600 mm (24 in) Steering wheel, tiltable, telescopic Self-filling to windshield washer fluid from AC condensate Storage locations for operator gear Three point seat belt for operator seat Windshield wiper, intermittent control/washer		
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Three point seat belt for operator seat Windshield wiper, intermittent control/washer	✓	
Windshield wiper, intermittent control/washer	✓	
·	✓	
	✓	
Unitized hydraulic powered HVAC with automatic temperature control	✓	
Deluxe Cab:		
 Premium Plus, heated, cooled and ventilated operator seat 		✓
- Premium air suspension companion seat		✓
– Advanced cabin air filtration system		✓
- Catwalk and handrails for rear cab access		✓
 Companion door power window 		✓
– Storage tray		✓
OWER TRAIN		
37R57 Standard rims	✓	
37R57 Quick change rims		✓
40R57 Standard rims		✓

(continued on next page)

Standard and Optional Equipment (continued)

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

	Standard	Optional		Standard	Option
POWER TRAIN (continued)			OTHER EQUIPMENT (continued)		
Cat® 3516E Engine:			Body heat exhaust		✓
- Automatic engine and DEF thermal	✓		Bumper towing – center pin kit		✓
management (if applicable)			Cold weather start (block heater)		✓
- Automatic low voltage idle management	✓		Communication arrangement –		✓
– Air cleaner with precleaner (two)	✓		MineStar™ radio		
 Turbocharging (four) with air-to-air aftercooler 	✓		Electronic Operation and Maintenance Manual in touchscreen	✓	
- Mechanical Electronic Unit Injector	✓		Fast fill fuel and DEF remote fill system	✓	
(MEUI™-A) fuel system			Fire extinguisher, portable		✓
 Electric starter (no air) with 93-amp hour batteries (four), electric horn and 	✓		Fuel heater, fuel water separator		✓
automatic lubrication system			Fuel tank mud guard		✓
- Turbine air starter with 93-amp hour		√	Gauge, brake wear indicator		✓
batteries (two), air tank, air horn and			Ground accessible fluid service center,		✓
automatic lubrication system			hydraulic and coolant		
– Variable speed fan drive		✓	Guards for rotating components	✓	
– Engine pre-lubrication system		✓	Hub odometer, kilometers		✓
Hydraulic braking system:			Hydraulic filters, 1,000 hours	✓	
– Four channel independent wheel	✓		Powered access stairway		✓
braking control			Rim diffuser		✓
– Anti Lock Braking (ABS)/Dynamic Stability Control (DSC)		✓	Secondary steering (automatic)	✓	
- Automatic retarder control (ARC),			Tie off points	✓	
adjustable and automatic	•		Tow hooks (front) and tow pin (rear)	✓	
- Brake release motor (towing)	✓		Sight glasses for hydraulic oils	✓	
- Engine over speed protection	✓		S·O·S SM ports	✓	
– Extended life brake disc material	✓		Wheel chocks		✓
- Hill start assist/anti roll back strategy	✓		Wireless Electronic Technician (ET)		✓
- Oil-cooled, multi-disc (front and rear) -	✓		Working at heights protection		✓
service, retarding, parking, secondary			Vital Information Management System (VIMS)	✓	
– Park brake integrated with gear selector	✓		Mudflaps	✓	
Transmission:			CAT® TECHNOLOGY PRODUCTS		
- Six-speed, automatic power shift with	✓		360 degree surround view		✓
Electronic Clutch Pressure Control (ECPC)			Product Link™ Elite with cellular radio	√	-
 Advanced Productivity Electronic Control Strategy (APECS) 	✓		Product Link Elite with cellular and	•	√
- Body-up reverse neutralizer	✓		satellite radio		
- Body-up shift inhibitor	✓		Connectivity bundle (includes: wireless		✓
- Downshift/reverse shift inhibitor	✓		operator ID, Bluetooth® key FOB to start)		
– Directional shift management	✓		Cyber security	✓	
– Engine pre-lubrication system		✓	Driver Safety System (DSS) 4.0 ready		✓
- Enhanced traction control system	✓		Integrated object detection system with	✓	
- Programmable top speed	✓		touchscreen display MineStar GPS		✓
- Oil level sensor	✓				
– Neutral coast inhibitor	✓		MineStar communication group (enables: MineStar Fleet, Aux)		✓
Lock-up torque converter	✓		Oil Renewal System (ORS) (non-Tier 4)		✓
Rear axle continuous lubrication/filtration	✓		Productivity bundle (includes: AutoHoist,		
Rear axle cooler		✓	crusher mode, dump control, speed coaching)		•
OTHER EQUIPMENT			Road Analysis Control (RAC)	✓	
Automatic lubrication system	✓		Tire Payload Monitoring System 2 (TPMS 2)	✓	
Auxiliary "buddy" dumping quick connect	✓		Remote flash software and troubleshooting	✓	
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Cat® 789 Mining Truck

Technical Specifications

Engine				
Engine Model	Cat® 3	Cat® 3516E		
Gross Power – SAE J1995:2014	1566 kW	2,100 hp		
Net Power – SAE J1349:2011	1473 kW	1,975 hp		
Rated Speed	1,650	1,650 rpm		
Emissions Rating	Fuel Opt	Fuel Optimized		
Bore	170 mm	6.7 in		
Stroke	215 mm	8.5 in		
Displacement	78.1 L	4,766 in ³		
Net Device and and in the construction of the form of the form of the construction				

- Net Power advertised is the power available at the flywheel when the engine is equipped with air intake system, exhaust system, and alternator.
- Optional 1417 kW (1,900 hp) engine rating.
- U.S. EPA Tier 4 Final/EU Stage V optional engine available for applicable markets.

Weights – Approximate	;	
Rated Gross Machine Weight (RGMW)		
37 R57 Tires	324 318 kg	715,000 lb
40 R57 and 42/90 R57 Tires	324 318 kg	715,000 lb
Chassis Weight (CW) (LRC)		
37 R57 Tires	103 657 kg	228,525 lb
40 R57 and 42/90 R57 Tires	106 847 kg	235,557 lb
Body Weight (BW) (HP Body)	27 400 kg	60,406 lb
Nominal Rated Payload (NRP)		
37 R57 Tires	193 tonnes	213 ton
40 R57 and 42/90 R57 Tires	190 tonnes	210 ton

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

Weight Distributions – Approximate		
Front Axle – Empty	50%	
Rear Axle – Empty	50%	
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	2.35:1
Planetary Ratio	10.83:1
Total Reduction Ratio	25.46:1

Transmission		
Forward 1	12.6 km/h	7.8 mph
Forward 2	17.1 km/h	10.6 mph
Forward 3	23.1 km/h	14.4 mph
Forward 4	31.2 km/h	19.4 mph
Forward 5	42.3 km/h	26.3 mph
Forward 6	57.2 km/h	35.5 mph
Reverse	11.8 km/h	7.3 mph
Top Speed – Loaded	57.2 km/h	35.5 mph

Tires and Rims
37 R57 (standard)
40 R57 (optional)
42/90 R57 (optional)
29" x 57" Rims
• Quick Change Rims optional
Caterpillar recommends the customer evaluate all job conditions and consult

Braking System		
Service Brakes: Four-Corner, Wet Disc, Oil Cooled, H	ydraulically Ac	tuated
Front Wet Disc Brake Surface Area	81 693 cm ²	12,662 in ²
Rear Wet Disc Brake Surface Area	134 590 cm ²	20,861 in ²
Standards (Service and Secondary)	ISO 3450:2011	I

tire manufacturer for proper tire selection and TKPH (TMPH) capabilities.

Parking Brake: Four-corner, Multi-disc, Spring applied, Hydraulically Released

Capacity – High Performance Body – 100% Fill Factor				
Struck	77 m³	101 yd³		
Heaped (SAE 2:1)	143 m³	187 yd³		

• Consult your local Cat dealer for body recommendations.

Body Hoists		
Twin, two-stage hydraulic cylinders with snubbing valve.		
Pump Flow – High Idle	403 L/min	106.5 gal/min
Relief Valve Setting – Raise	18 950 kPa	2,749 psi
Body Raise Time – High Idle	14 sec	
Body Lower Time – Float	16 sec	

Suspension			
Self-contained nitrogen/oil cylinders, pin-to-pin mounting, top and bottom double shear clevis attachments			
Effective Cylinder Stroke – Front	104.65 mm	4.12 in	
Effective Cylinder Stroke – Rear	93.22 mm	3.67 in	
Rear Axle Oscillation	+/- 5 degrees		

Service Refill Capacities			
Fuel Tank Standard	2500 L	550 gal	
Fuel Tank Large	4546 L	1,000 gal	
Fuel Tank for Tier 4/Stage V Truck	2500 L	55 gal	
DEF Tank	233 L	62 gal	
Cooling System	679 L	180 gal	
Crankcase	291 L	77 gal	
Front Wheels, Each	22 L	5.8 gal	
Differentials and Final Drives	610 L	161 gal	
Steering Tank	160 L	42 gal	
Steering System (Includes Tank)	175 L	46 gal	
Brake/Hoist Tank	640 L	169 gal	
Brake/Hoist System (Includes Tank)	1315 L	347 gal	
Torque Converter/Transmission System (Includes Sump)	209 L	55 gal	

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

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

CAT®