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# CAT® WATER SOLUTIONS

Defeat dust. Now you're in control.

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777 (05) WATER TRUCK



**What comes to mind when you think about the worksite? Dump trucks hauling loads of material, the boom of dynamite blasting through rock, or the dust levels that decrease visibility?**

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# THE CHALLENGE:

# DUST

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**Haul road dust can impact safety and productivity. That's why Caterpillar is now offering a fully integrated solution to control dust – connected and backed by the one you trust.**



A water truck may be one of the most important pieces of equipment at your site – and the support you need is just as important.

**Integrated water solutions help you reduce haul road dust, solve overwatering / underwatering issues, and manage your site more safely, productively, and sustainably – with scalable levels of technology and support from the Cat® dealer you know and trust.**

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# THE ANSWER: CAT WATER SOLUTIONS

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Whether on a construction site, in a quarry, or at a mine site, the 777 has been a proven performer around the world. That's why we chose this truck to deliver an integrated Cat Water Solution – combining a truck, tank, and sprayer system with flexible levels of connectivity through Cat® MineStar Edge™.

**Defeat Dust. Control Cost. Gain an Edge.**



## ONE SMART CHOICE: TRUCK, TANK, AND SPRAYER SYSTEM INTEGRATION – CONNECTED WITH FLEXIBLE LEVELS OF TECHNOLOGY.

A proven Cat 777 truck chassis is integrated with the tank and Cat Water Delivery System, paired with scalable technology to meet customer needs for more efficient, productive operations.

### MineStar Edge Technology

The Basic connectivity package comes standard on all Cat Water Solutions trucks with a 6-month complimentary service-based offering for better data insights.

**Cat branded tanks** include additional features and options commonly selected by customers in the industry.

**Cat Water Delivery System** automatically controls the amount of water and spray patterns to prevent overwatering.

**Cat 777 truck platform** is Cab and ROPS certified to protect your operators in case of a rollover.



Retrofit kits are available for existing water delivery and technology systems.





## **SITE SAFETY AND PRODUCTIVITY: KEEP YOUR OPERATIONS RUNNING AT PEAK PERFORMANCE**

### **ENHANCED SITE SAFETY**

The Cat Water Delivery System (WDS) provides variable water flow based on truck speed, eliminating overwatering that can lead to slippery roads.

Properly watered haul roads control vision-impairing dust and reduce risk of accidents due to poor visibility.

Reduce hazardous airborne particulates that cause long-term health issues for workers by suppressing dust.

### **OPTIMIZED PRODUCTIVITY**

Properly watered haul roads directly impact fleet cycle times, enabling you to meet production targets.

Spend less time maintaining haul roads by using proper watering techniques to solve overwatering / underwatering issues.

Prevent damage to trucks and reduce unplanned downtime with properly watered haul roads.

Pump features soft startup and shuts off automatically when the tank is empty, eliminating damage to your investment.

Maintenance-free and self-cleaning water spray heads reduce truck downtime.



**GAIN AN EDGE WITH**

# **CAT MINESTAR EDGE**

**Two levels of connectivity (Basic and Premium\*) to meet any customer need.**

- Connectivity includes data logging capabilities critical to minimizing safety-related liability.
- Water Solutions data can help ensure customers are meeting regulatory requirements.
- Asset management options include productivity, water usage, fuel & water tank levels, when and where to apply water, geofencing, asset location and remote management of water distribution.
- Additional functionality will be released in the future.

\*optional upgrade



## **BASIC CONNECTIVITY:**

### **Edge Equipment Tracking**

Edge Equipment Tracking will not interfere with existing fleet management systems. And tracking capabilities are available without the need for infrastructure investment. Equipment Tracking provides insights that help mines better manage their assets, and as a result they deliver more value and mines enjoy a lower overall cost of ownership.

#### **Features include:**

- Service Meter Readings
- Fueling & Recording
- Location Accuracy & Replay
- Time Utilization Tracking, Downtime & Operator Tracking
- Automatic Stoppage Measurement
- Health Event Record

## **PREMIUM CONNECTIVITY:**

### **Edge Production Recording**

From payload to dig rates to operator breaks — every activity has an impact on productivity and an opportunity to be improved. MineStar Edge Production Recording helps you find those opportunities by giving you visibility to your entire mining operation. When paired with Equipment Tracking, it delivers an accurate and automated near-real-time solution that measures and reports on every aspect of the load-haul-dump cycle without requiring any operator input.

#### **Features include:**

- Summary of Production Progress in Shift
- Drill Down / Spin the World
- Production Projections
- Production Record / Water Circuits Traveled
- Water Application and Tank Fill Time Cycles





# **INTEGRATION AND SUPPORT + FLEXIBLE OPTIONS = PROVEN COMPONENTS FOR RELIABLE PERFORMANCE**

The 777 has been a proven performer at mines, quarries, and job sites for decades. Now, the new 777 Water Truck with scalable technology offerings — delivered, warranted and serviced by your local Cat dealer — is more cost-effective as an integrated solution than its individual components.

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## **A TURNKEY SOLUTION TO MEET YOUR UNIQUE NEEDS**

- Retrofit kits available for existing Water Delivery and technology systems.
- A range of truck and tank offerings to fit every job site, road, quarry or mine.
- Try before you buy: the Basic connectivity package comes standard on all Cat Water Solutions trucks, with a 6-month complimentary service-based offering, for better data insights.



# 777 (05) Water Solutions Truck Tank Configurations

Multiple tank configurations are offered based on customer preference and regional locations.

	TRUCK SPECIFICATIONS			
Bare Chassis Weight	48 133	kg	106,115	lb
Fuel tank capacity	1136	L	300	gal
Fuel tank - 100% fill	955	kg	2,106	lb
Target Gross Machine Weight (GMW)*	163 360	kg	360,148	lb
	TANK: SOUTH AMERICA, AFRICA, MIDDLE EAST			
Water Tank Capacity	75 700	L	20,000	gal
Water Tank - Max Empty Weight (no WDS)	20 000	kg	44,092	lb
Empty Machine Weight (with water tank)	68 133	kg	150,207	lb
Machine Weight with water tank full	144 633	kg	318,862	lb
Empty Machine Operating Weight (without water / with fuel)	69 088	kg	152,313	lb
	TANK: SOUTH AMERICA, AFRICA, MIDDLE EAST, AUSTRALIA / NEW ZEALAND			
Water Tank Capacity	75 700	L	20,000	gal
Water Tank - Max Empty Weight (no WDS)	20 412	kg	45,000	lb
Empty Machine Weight (with water tank)	68 545	kg	151,115	lb
Machine Weight with water tank full	144 589	kg	318,765	lb
Empty Machine Operating Weight (without water / with fuel)	69 500	kg	153,221	lb
	TANK: AUSTRALIA / NEW ZEALAND			
Water Tank Capacity	75 400	L	19,900	gal
Water Tank - Max Empty Weight (no WDS)	19 497	kg	42,983	lb
Empty Machine Weight (with water tank)	67 630	kg	149,098	lb
Machine Weight with water tank full	143 047	kg	315,365	lb
Empty Machine Operating Weight (without water / with fuel)	68 585	kg	151,204	lb

NOTE: Machine weights based on configuration. \*Target GMW not to exceed weight in above table after attachments are installed.

For truck rimpull and retarding curves, please reference the 777 (05) Off-Highway technical specifications document.



## THE TRUCK

Cat Truck Platforms 777 / 785 / 789



### Features Include:

- Application-specific Cab and ROPS certification for operator safety
- Braking/retarding systems to provide operator focus on the job
- Hallmark Caterpillar durability, reliability, and efficiency
- Engine emissions to meet regional requirements
- Integrated systems enable fuel savings
- Eligible for Equipment Protection Plans (EPP) & Customer Value Agreements (CVAs)

## THE TANK



### Features Include:

- Splash guards, fill chute, rock ejectors
- Hoist capability for maintenance access
- Safety features include tie-offs, access ladders, camera system
- Cat dealer installation
- Caterpillar Factory Standard Warranty



# THE SOLUTION YOU NEED, FROM THE ONE YOU TRUST.

## THE CAT WATER DELIVERY SYSTEM



### Features Include:

Self-contained hydraulic system controls spray patterns for consistent water coverage regardless of engine RPM

Capable of spraying up to 0.8 L / m<sup>2</sup> ranging from 3 to 25 mph (5 to 40 kph), covering an 80 foot (24 m) wide road in one pass

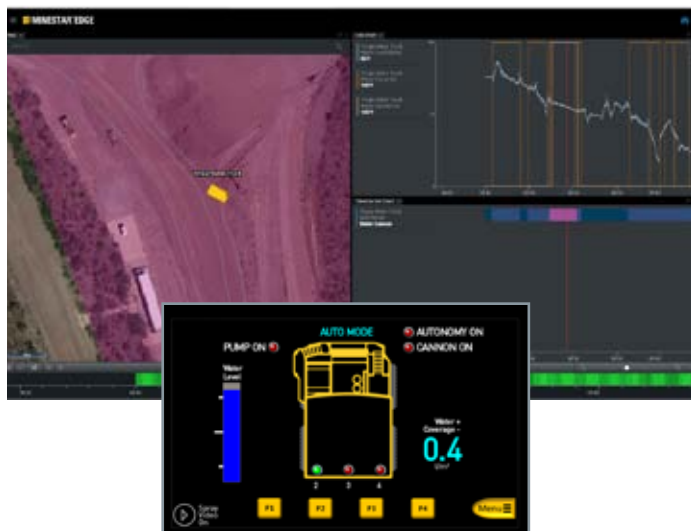
Variable water flow based on truck speed with automatic start and stop

Water cannon operates at idle

Pump features soft startup and shuts off automatically when the tank is empty

Factory-installed, integrated and durable ergonomic cab controls

## THE TECHNOLOGY



### Features Include:

Cloud-based application

Dedicated software and product support team

Service-based offering by site or by asset

Flexible levels of connectivity: choose from Basic or Premium packages



## (05) WATER TRUCK

**CONTROL DUST • INCREASE VISIBILITY • REDUCE RISK**

**FOR SMARTER, SAFER, MORE PRODUCTIVE OPERATIONS**

**Visit [Cat.com/WaterSolutions-au](https://www.cat.com/WaterSolutions-au) for more information.**

**LET'S DO THE WORK.™**

PEDJ1171-01 (Build Number: 05C)

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