

CAT® WATER DELIVERY SYSTEM FOR THE 777, 785D, AND 789D WTR BARE CHASSIS

AN EFFICIENT WAY FOR MINING AND QUARRY OPERATIONS TO CONTROL DUST ON HAUL ROADS.

This automated system controls the amount of water and spray patterns to prevent the hazards common with overwatering. This fully integrated Cat[®] design employs a self-contained hydraulic system that controls spray patterns and allows for consistent water coverage regardless of engine RPM — capable of spraying up to 0.8 L/m² at speeds ranging from 3 to 25 mph (5 to 40 kph), covering an 80 foot (24 m) wide road in one pass. Factory option for Cat 777, 785D, and 789D WTR truck bare chassis. Retrofit kits for 777F, 777G, and 785D trucks.

Technical Specifications

System Features

Ground speed sensing system delivers a consistent amount of water	Operator selectable coverage	0.2-0.8 L/m ² (4 kph - 40 kph)	0.05-0.2 gal/ft ² (3 mph - 25 mph)
Constant coverage spray regardless of speed	Maximum water flow	3785 L/min	1,200 gal/min
Totally independent hydraulic system	Water per spray head (minimum)	130 L/min	35 gal/min
	Water per spray head (maximum)	2270 L/min	600 gal/min
Controls integrated with the truck systems	Spray head opening range (minimum)	1 mm	0.04 in
Automatic start/stop based on ground speed	Spray head opening range (maximum)	19 mm	0.75 in
Soft pump start and shut down	Maximum size debris flushed through spray head	19 mm	0.75 in
Self-cleaning spray heads	Spray width per head (dependent on flow)	4.5-9.1 m	15-30 ft
Active system functions displayed on control monitor	Spray system hydraulic tank capacity	27.5 L	7.25 gal
Active system functions displayed on control monitor	Maximum number of rear spray heads		5
Automatic shut off when water tank is empty	Minimum number of rear spray heads (recommended 3)		2
Remote tank fill controls	Maximum number of front/side spray heads		2
	Minimum number of front/side spray heads		0
Intermittent spray pattern based on time on and time off or distance	Maximum water from cannon (idle)	2271 L/min	600 gal/min
Hydraulic operated cannon nozzle options	Maximum water from cannon (high idle)	4732 L/min	1,250 gal/min
Hydraulic, electrical and water systems diagnostics	Maximum cannon spray distance	61 m	200 ft
	Wet water pump/hydraulic motor coupling		
Control monitor in multiple languages	 Coverage rates above 0.6 L/m² may not be available at higher speeds depending on head count and configuration. Opening is automatically controlled by the system to achieve AutoMode Coverage or Manual Mode Flow Rate. AutoMode Spray controls water coverage automatically to the number of heads being used and ground speed achieved. Manual Mode allows the operator to set a water flow rate that is constant regardless of ground speed. Spray Heads on competitive water distribution systems require tools and maintenance to change flow and spray pattern. Caterpillar is the only 		
Ceramic water pump seal for improved reliability			
Leverages standard tilt system for maintenance			
Stainless steel pump			
Optional Camera System: includes three cameras, three camera washers and cable assemblies			

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company to have variable active spray heads to regulate water spray.
Water flow is continually adjusted during operation to conserve water

and achieve desired coverage and flow rate.