

HEAVY DUTY MINING VEHICLE WASH SYSTEMS





Cost Savings

In the mining industry time is money, every minute your vehicles are idle you are not producing. Hand washing large equipment is time consuming especially if you do not have the right tools for the job. It often takes 4 – 6 hours to wash a 400 ton haul truck when washing manually. Implementing the correct design and equipment package we can significantly reduce this down time while also reducing ongoing maintenance costs.

InterClean offers several options for heavy, medium and light vehicle washing including:

- Automatic drive through packages for rapid throughput applications
- Manual monitor and fire hose packages for standard applications
- Semi-automatic joystick controlled monitors to limit the employee involvement in the wash lane
- Fully robotic monitor packages to completely remove the employee from the wash process

Options

The ever changing mining market requires us to evolve and quickly react to application requirements and project standards. Through the years we have built up a very impressive customer base and with it many new options have been developed via their projects. Although we would prefer to provide InterClean standard equipment we have are willing to work with our customers to meet their specific needs.

Below is a list of some of the options we can offer:

- Chassis wash packages
- Intensified side blaster
- Oil skimmers
- ISO container plant rooms
- Custom controls packages to meet the most strict international requirements
- IP56 – IP66 motors and electrical components





Drive Through

Some benefits of our wash system include:

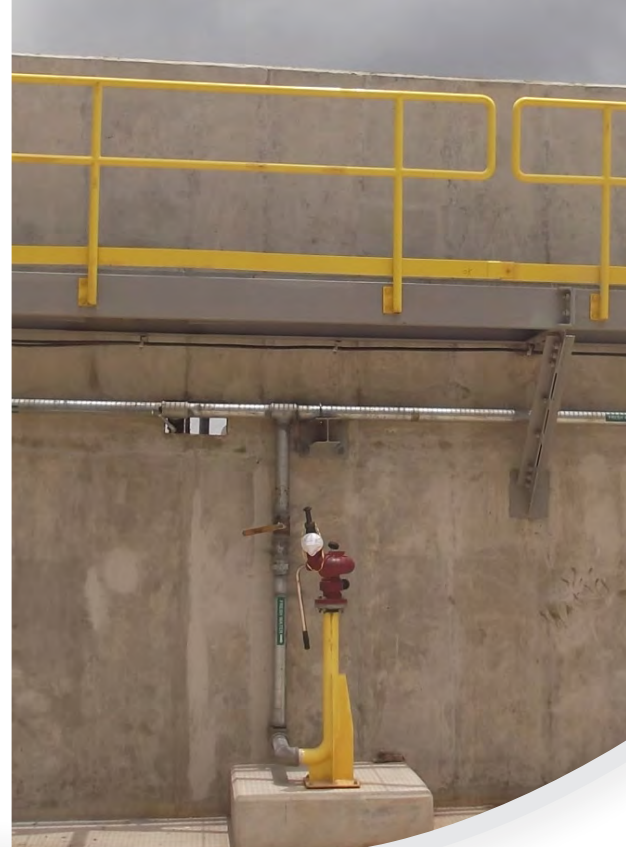
- Multi-vehicle design which can accommodate most fleet vehicles
- Reduced wash time
- Easy operation as driver simply idles through the wash
- Up to 100% recycled water
- Pre-wired and pre-plumbed containerized plant rooms available
- Extends the life of your fleet while presenting a positive clean image to your neighbors and associates

Heavy Duty: Washing heavy mining vehicles requires a large amount of recycled water at lower pressure. This allows us to safely remove heavy mud and hydrocarbons without damaging expensive equipment or injuring personnel.

Medium Duty: Medium sized vehicles on a mine site typically include dump trucks, buses, road trains and other large road legal vehicles. Washing these vehicles can also be very time consuming and expensive, not to mention the health and safety risks involved. With our standard wash package we can clean a dump truck in less than two minutes top to bottom including the chassis. InterClean offers a full line of tire and wheel washing packages to maintain your fleet and also prepare your vehicles for leaving the mine property.

Light Duty: Just about every mine site in the world has dozens if not hundreds of light duty vehicles. A light vehicle is typically a car, pickup or SUV, ambulance or other street legal small vehicle. Maintaining this fleet can be challenging especially at a mine site where these cars travel off road and on city streets. Washing your fleet is imperative not only for maintenance purposes but also for a positive presence in the community.





Manual Wash

The Washman filtration package requires no consumables and very little preventative maintenance. This passive filtration package is comfortably placed in this environment where down time costs money. The high volume manual monitors are of the highest quality and provide a heavy stream of focused and intense water to the dirtiest of vehicles. This impact quickly removes large rocks and dirt from dozers and haul trucks.

The Washman manual wash package consists of:

Self-contained Washman Filtration package

Skid mounted easily installed and serviced all pumps and panel included

High volume monitors

Mining duty quality with several options to meet any application including joystick controlled packages

Fire hose

Rigid rubber hose including hose reel and adjustable nozzle, spring rewind hose reel as well

High pressure washer

100% recycled water high pressure pump can feed up to four hoses simultaneously



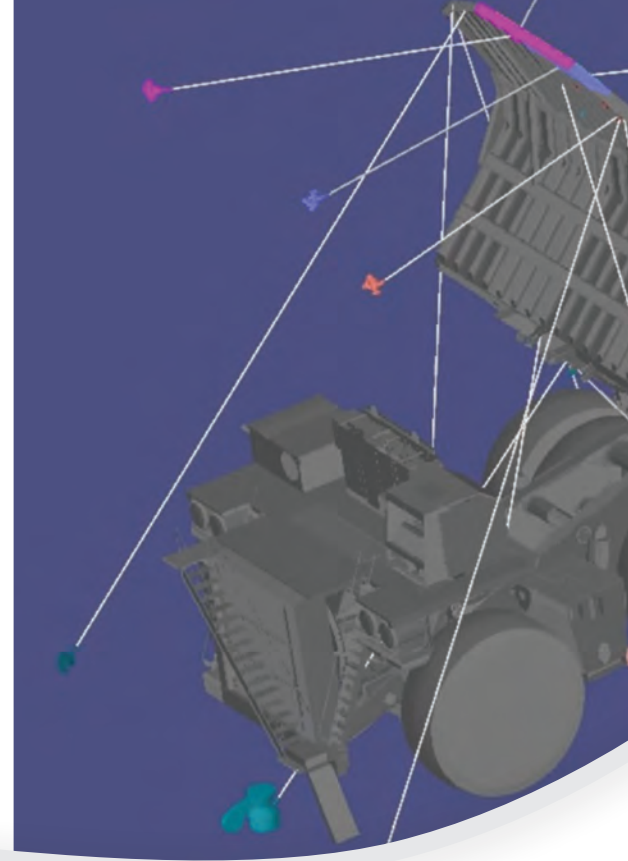
GREAT LAKES EXCAVATING

EXCAVATING

320B L

CAT

KEEP AWAY FROM
HOT SURFACES



Robotic Wash Options

Innovation

InterClean is always looking to the future and listening to our customers about their needs and requirements. Due to safety standards at many mines, clients have asked us to design a wash package which removes the employee from the wash bay. In response to this requirement we have developed a fully robotic wash package for washing large vehicles up to 400 ton haul trucks. This robotic package is designed to wash haul trucks with multiple monitors performing simultaneously, thus greatly reducing the down time.

Safety

The robotic monitor package can be used in several different configurations depending on the project needs and requirements. This system can be installed in hazardous locations such as underground mines, underneath the vehicle, or in any other areas not safe for human traffic.

Technology

The wash system software is designed to recognize the vehicle and wash specifically designated areas avoiding those sensitive portions of the vehicle which cannot withstand a direct blast from water cannons. This is ideal for the newest diesel-electric haul trucks being produced by CAT & Komatsu.



EQ 100

WATER RECLAIM SYSTEM

Recycling wash water greatly decreases the amount of fresh water needed, and disposed of by up to 90% each wash. Water reclamation saves money and enables facilities to operate efficiently in areas with high water and sewer costs, or areas that are highly regulated.

By using the efficient and cost-effective EQ 100 water recycling system, InterClean Equipment is able to employ the full force of huge volumes of pressurized wash water, which creates a cleaning impact that is simply not possible with other automatic vehicle washing systems.

The system is designed to recycle and aerate the wash water automatically, without requiring changing filters or manual supervision, and is capable of operating under the most demanding vehicle wash conditions such as recycling water used to wash garbage trucks.



The modular design requires only 25 ft² of space allowing for easy installation using a reclaim pit and almost any site configuration



FEATURES

System Design	<ul style="list-style-type: none"> The InterClean reclaim system is comprised of a Settling Pit, InterScreen® maintenance free filter, and the EQ Module. The modular footprint ensures that the equipment can be precisely configured at the factory to require a small footprint on-site. The module is pre-wired, pre-plumbed and mounted on a skid. 				
Settling Pit	<ul style="list-style-type: none"> Designed to promote separation of solids from the water. Continuously aerated by the recirculation pump to prevent unwanted odors. 				
Filtration	<ul style="list-style-type: none"> Maintenance free stainless steel InterScreen® filter is mounted in the settling pit supplying initial filtration. Cyclonic filtering mechanisms incorporated with module to further filter the water before delivering it to the high-pressure pump. 				
Treatment	<ul style="list-style-type: none"> Module comes equipped with bioremediation system to allow for enhanced water treatment capability. The system uses no chemicals or additives and is environmentally sustainable. 				
Dimensions	<ul style="list-style-type: none"> 60" (150 cm) wide x 60" (150 cm) long x 102" (260 cm) tall per unit 				
<table border="1" style="width: 100%;"> <thead> <tr> <th style="width: 50%;">Recycling Capacity</th> <th style="width: 50%;">High-Pressure Capacity for Reclaimed Water</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">• 300 GPM (1250 l/m) continuously per unit</td> <td style="text-align: center;">• 50-300 GPM (200-1250 l/m) continuously per unit</td> </tr> </tbody> </table>		Recycling Capacity	High-Pressure Capacity for Reclaimed Water	• 300 GPM (1250 l/m) continuously per unit	• 50-300 GPM (200-1250 l/m) continuously per unit
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The patented Centri*Spinner® is approved for both fresh and recycled water applications. Please contact InterClean for system performance approval before using with recycled water applications not engineered and supplied by InterClean.

Centri*Spinner® Specifications:

- Power Venturi Assisted Zero Degree Nozzles
- Hydrodynamic Rotational Speed Control
- Mechanical High Pressure Seal
- 1" NPT Connection
- 270-300 psi Operational Pressure Range



CLEAN BY NATURE



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