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MCV

MUNICIPAL CLEANING VEHICLE





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CLEANING & ENVIRONMENTAL SOLUTIONS

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MCV MUNICIPAL CLEANING VEHICLE

COMPACT EFFICIENT CLEANING

MUNICIPAL CLEANING VEHICLE

The Municipal Cleaning Vehicle (MCV) packs high efficiency cleaning capacity into a compact and versatile standards-based platform.

The 5 ft wide cleaning path lets the user obtain excellent productivity while still performing tasks inside parking facilities, sidewalks and other spaces where size and maneuverability count.

Triverus vehicles use high efficiency cleaning and recovery technology that takes outdoor surface cleaning to a new level of effectiveness.

Vehicle configurations are ranging from compact solutions for municipal spaces, flight decks on aircraft carriers to airfield/runway maintenance.

Triverus MCV Preliminary Specification Sheet

Chassis: Bobcat Toolcat 5600
Wheelbase: 88"
Overall Height: 81"
Overall Width: 66" (Includes side mounted recovery line but not mirrors)
Overall Length: 180" (including cleaning deck)
Engine: Doosan (61 HP)
Transmission: Hydrostatic Drive (All wheel drive and all wheel steer)
Travel Speed: 0-17 MPH
Work Speed: 0-8 MPH
Empty Weight: 6,500 lbs
Fuel Capacity: 20 Gallons

Key Features

Single engine system with dual range hydrostatic drive: This system allows precise control for low speed operation but still allows the vehicle to quickly traverse the work site when needed.
High flow vacuum system: Provides excellent recovery of water and debris even on grooved surfaces.
Integrated HMI/Control System: Provides visual feedback of system operating parameters and includes integrated safety interlocks.
Multifunction capability: The cleaning deck and recovery box can be removed to allow other bobcat attachments to be fitted for multi function operation.
Tilt out bag filter system: Provides excellent pump protection and allows for quick and easy filter change out when required.

HP Water System

Pump: General KT18-A
Rated Flow: 9.2 GPM
Rated Pressure: 5800 PSI
Cleaning Path: 60" (Up to 8.5 GPM @ 4,500 PSI using standard nozzle configuration)
Filtration: 5 Micron bag filter
Clean Water Tank: 200 Gallons Max (160 Gallons without exceeding rated chassis capacity)

Recovery System

Vacuum: 1000+ CFM
Water Recovery Tank: 200 Gallons Max (160 Gallons without exceeding rated chassis capacity)
Solids Collection: Removable solids collection tray in recovery tank (75 lb max weight)
Offload Pump: 50+ GPM (Solids tolerant sludge pump)

Patent Numbers: 7,735,186; 8,395,441 and Patents Pending. All Rights Reserved. Specifications are subject to change without notice.



The MCV is a proven maintenance solution for environmentally driven cleaning goals. Using the MCV as a restorative or maintenance BMP can remove stormwater contributing pollution at a much higher efficiency than conventional sweeping practices. Non porous surfaces can be a collection point and a conduit for stormwater pollution. Cleaning these surfaces with high efficiency techniques can affect benchmark results at the outfall. This is possible because very fine (and potentially stormwater pollution contributing) solids can be cleaned and recovered from the surface.

Pervious Surfaces

Pervious (Asphalt, Concrete and Pavers) are technology intended to sequester pollution and keep it out of the storm water system. As a side effect this technology also collects and sequesters solids which in turn can clog the pervious functionality to a point where it will not percolate water. Solids removal inside these pores and crevices are notoriously difficult to clean. MCV technology is designed to clean these surfaces and recover solids at the same instant to prevent recontamination. The maintenance or restorative cleaning capability will prevent clogging and restore percolation functionality. Site maintenance can keep Pervious/Porus surfaces in top condition as a function of on going site BMP. The MCV is proven in the municipal and institutional market place where pervious surface performance is maintained.

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APPLICATIONS

Parking Facilities

The MCV has excellent maneuverability.

This is done by several methods:

4-Wheel Steering (Selectable) , Allows sharp turning within tight spaces like parking facilities, or mixed sidewalk/street spaces. Crab Steering Allows the operator to place the front mounted cleaning deck in a way that it is the focus of operation in relation to the workpiece.

The rest of the vehicle is positioned at an angle, allowing the operator to concentrate on more difficult edge work without excessive machine clearance issues.

Airports / Municipal Spaces

While General aesthetically driven cleaning is often sought, MCV versatility includes a unique Paint Preparation function where pre-paint cleaning can be done to remove solids to improve paint adhesion.

