

MCV (Municipal Cleaning Vehicle): Base unit and options



Manufactured and Shipped from Triverus, LLC Alaska

About Us: Triverus designs and manufactures high efficiency outdoor surface cleaning equipment. Our cleaning vehicles are used in airfield, municipal and military markets. We lean heavily on a fit-for-purpose design process that applies our continually improving cleaning and waste management technologies to specific market sectors. Working with our partner company, Tri-Jet Manufacturing Services, Triverus also offers responsive in-house design and production capabilities.

Core Competencies: Outdoor Surface Cleaning, Parking facilities, Airfields, Marine and dry dock, Restoration of pervious concrete, performance High-efficiency closed loop recovery: supports Storm Water Pollution Prevention (SWPP), Glycol recovery, Ramp cleaning, Spill response, Fine solids recovery for paint prep or crack sealing pre-cleaning.

Current Users of the MCV:

Municipalities:

Public Works & Utilities, Pierce County, WA
Public Works & Utilities, City of Port Angeles, WA
Minneapolis St. Paul Airport
National Railroad Passenger Corporation, Amtrak, Seattle, WA
Olympia School District, Service Support Center, Olympia, WA

Aviation:

Miami Dade County, Aviation Department
Metropolitan Airports Commission,
Ted Stevens International Airport,
Anchorage, AK

Company Information

- Since 2001, Triverus LLC has pioneered surface cleaning solutions with a focus on efficiency, recovery, and maintainability.
- Triverus' leading-edge technology was originally developed in partnership with the United States Office of Naval Research for cleaning flight decks on aircraft carriers.
- "High-efficiency cleaning" and why is it important to your operations? At Triverus, high-efficiency cleaning means achieving the best results using fewer resources, and with minimal damage to surfaces. Our proprietary cleaning technology uses only pressurized water (no chemicals) to safely deliver the best results available.
- Triverus' technology utilizes a low-noise, low-pressure recovery technology that allows all our platforms to be power and width efficient. This translates into exceptionally clean surfaces from not only larger recoverable particles, but hard-to-recover sub-micron particles that contribute to stormwater pollution. Triverus technology yields minimal damage to surfaces, meaning reduced costs and liability for your operations. Our machines recover what other machines leave behind.
- The Triverus Municipal Cleaning Vehicle (MCV) integrates Triverus 3800 PSI spray cleaning and recovery technology onto a Bobcat® Toolcat™ all-wheel steer carrier. This packaging provides maximum flexibility for surface cleaning in congested areas such as airport ramps, airside loading bridge and terminal areas, walkways, dock areas, and enclosed parking structures. An overall height of 84 inches gives the MCV free reign in almost any covered parking area.
- The 60-inch wide cleaning platform is the widest available in this class of cleaner and is the most productive in the industry. The cleaning deck's position in front of the vehicle allows cleaning in close quarters, individual parking slots within an occupied parking garage, and up close and personal with guardrails, buildings, and other obstructions.
- The MCV is unmatched in achieving regulatory compliance through removal and containment of restricted or controlled materials that are more and more often the target of EPA regulations and inspections. The MCV achieves excellent cleaning results with pure water only and does not require chemicals or soap solutions of any kind to do its work.
- The Triverus cleaning platform is mounted to the Toolcat™ carrier by means of the standard implement attach point. The quick disconnect single spray liquid hose and electrical connector allow removal of the cleaning and recovery head within minutes, enabling brooms, snow blowers, plow blades, or any of over 40 Bobcat® attachments for year-round use. The rear-mounted recovery module can be removed within 90 minutes, totally freeing up the carrier for any other Toolcat™ application desired by the customer.

MCV Description



Bobcat Toolcat 5600 Chassis

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-Engine Doosan 61 HP diesel

- 4-Wheel Steering AWD (All Wheel Drive)

- Road Light Package

- Empty Weight 6500LBS

-Hydrostatic Drive Transmission

-High Flow Hydraulics S

-Overall Width 66" includes side mounted recovery, Passenger mirror

-Overall Length 180" includes cleaning platform

- Travel Speed 0-17mph

- Wheelbase 88"

-Work Speed 0-8mph

-Overall Height 81"

The Municipal Cleaning Vehicle is offered as a base unit with options.

Product Description	Cost	Prod #
Municipal Cleaning Vehicle base unit	\$ 196,621.85	60073
Walkaway Component Configuration: Surface cleaner package includes a 21-inch surface cleaner with vacuum recovery, dual recovery hard-pipe, 25 ft high-pressure water, and vacuum hose with quick-connector umbilical, blast valve restrictor, tank mounted carrier and hose manager	\$ 9,500.00	3059905
Rear mounted video camera with color cab display	\$ 1,083.50	60073VC
Top cab mounted flashing strobe (84 inches overall height)	\$ 709.50	60073FS
Toolcat cab soundproofing upgrade kit, installed	\$ 532.00	60073SP
Front magnet: 41.5-inch FOD magnet mounted at the front of the cleaning deck	\$ 1,950.00	3060439
Rear magnet: 60-inch Hitch-mount full-vehicle width FOD magnet	\$ 1,950.00	3062867
Air Gap Fill, includes quick-attach pipe and (2) fill ports for compliant filling from public hydrants and potable water sources.	\$ 2,950.00	3063784
Operation Hose and Adapter Kit includes a 2-in fill hose 15 ft, 3-in offload hose 15 ft, garden hose adapter, Rodder hose adapter	\$ 395.00	3064263
High-intensity LED work Lighting package incl. independently operated four (4) front work lights, two (2) front fender mounted headlights; two (2) ground lights by cab steps; two (2) reverse-activated rear work lights	\$ 2,750.00	3061538
Start-up kit: Includes Eight (8) 0-degree spray nozzles; Eight (8) 15-degree spray nozzles; One (1) swivel break-in spray bar with nozzles; two (2) 100 series manifold gaskets; two (2) 200 series manifold gaskets; two (2) deck caster plates; one (1) green 100 mesh screens for T-strainer; one (1) red 30 mesh screens for Y-strainer; one (1) spare spray bars; one (1) swivel seal kits; one (1) swivels	\$2,795.00	8510111
2-day on-site US-based domestic training by Triverus Technician for MCV operations and maintenance. Training covers best practices, efficient operation, demonstration of all functions, features, options, routine maintenance, daily operation checks, basic troubleshooting, and trainee certification. Strongly encouraged for new customers.	\$ 3,465.00	9999707
Shipping	TBD	

Also included are:

- One Year Warranty
- Service Manual / Illustrated Parts List

Warranty Terms

Triverus, LLC warranties apply only to Triverus branded products and are subject to the following terms: all Triverus warranties include parts and labor but are non-transferable and are only available to the original end-user consumer without prior written consent from Triverus, LLC. In addition, all labor must be performed by certified Triverus technicians unless written consent has been obtained from Triverus, LLC prior to the work being performed. To request a replacement product under a warranty policy, you must email claims@triverus.com and request a Warranty Claim Form. The form must be filled out completely and returned with the defective part within 15 business days. Triverus, LLC reserves the right to decline any and all claims received after the warranty period has ended or that do not meet the criteria listed above.

ONE-YEAR MANUFACTURER'S WARRANTY

Triverus, LLC expressly warrants the components in its products against defects in materials and workmanship under normal use for a period of ONE (1) YEAR from the date of delivery to the original end-user consumer. This warranty does not apply to normal wear and tear components. If the chassis or any additional components that are not manufactured directly by Triverus, LLC carry their own manufacturer's warranty, Triverus' warranty of those components is limited to that provided by the direct manufacturer. Triverus, LLC shall administer such warranty claims for these items. Standard claim procedures shall apply. If a valid claim is made during the one-year period, Triverus, LLC, at its option, will repair or replace the defective component. A replacement component assumes the remaining warranty of the original product. Customer must obtain a Warranty Claim Form prior to sending in components for replacement and is responsible for the return shipping costs. Triverus, LLC product warranties are non-transferable.

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Revised: January 17, 2020

Bobcat Utility Work Machines

Bobcat Company warrants to its authorized dealers and authorized dealers of Bobcat Equipment Ltd., who in turn warrant to the owner, that each new Bobcat utility work machine will be free from proven defects in material and workmanship with respect to (i) all components of the product except as otherwise specified herein for twelve (12) months, (ii) the drive belt from the hydrostatic pump to the engine, for thirty six (36) months, provided that after the initial twelve month warranty period, such warranty shall be limited to parts only and does not include labor, (iii) Bobcat brand tires, for twelve (12) months on a prorated basis based on the remaining depth of the tire at the time any defect is discovered, (iv) Bobcat brand batteries, for an additional twelve (12) months after the initial twelve month warranty period, provided that Bobcat Company shall only reimburse a fixed portion of the cost of replacing the battery during such additional twelve months and (v) auxiliary hydraulic quick couplers for six (6) months or 200 hours, whichever occurs first. For new Bobcat utility work machines sold in the United States or Canada that are equipped with Bobcat Engines, the engine is covered for an additional twelve (12) months after the initial twelve (12) month warranty period, or a total of 2000 hours, whichever occurs first, will apply on machines with a delivery date on or after January 1, 2018. The foregoing time periods shall all commence after delivery by the authorized Bobcat dealer to the original buyer.

During the warranty period, the authorized Bobcat dealer shall repair or replace, at Bobcat Company's option, without charge for parts and labor, any part of the Bobcat product except as otherwise specified herein which fails because of defects in material or workmanship. The owner shall provide the authorized Bobcat dealer with prompt written notice of the defect and allow reasonable time for repair or replacement. Bobcat Company may, at its option, require failed parts to be returned to the factory. Travel time of mechanics and transportation of the Bobcat product to the authorized Bobcat dealer for warranty work are the responsibility of the owner. The remedies provided in this warranty are exclusive.

This warranty does not cover replacement of scheduled service items such as oil, filters, tune-up parts, and other high-wear items. This warranty does not cover damages resulting from abuse, accidents, alterations, use of the Bobcat product with any accessory or attachment not approved by Bobcat Company, air flow obstructions, or failure to maintain or use the Bobcat product according to the instructions applicable to it.

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