



# Heavy duty cleaning solutions

truck washes  
bus washes  
under carriage washes  
special application  
washes



**30** OVER  
YEARS  
OF EXPERIENCE



Certificate Number 5565  
ISO 9001, ISO 14001

**SULTOF sp. z o. o.** is a leading manufacturer of specialized washing equipment used to wash diverse types of vehicles.

Among our clients, there are both leading fuel companies and owners of private gas stations as well as car washes, transport companies, public transport companies, etc.

We produce automatic brush car washes for washing all types of trucks and buses, as well as drive-through bus washes designed for daily washing of large bus fleets.

**SULTOF** also undertakes special tasks. On the basis of long-term experience in car wash designing, we are able to offer both modifications of standard devices, as well as completely new solutions to meet the specific customers' needs and requirements.

Our car washes are unique structures designed and manufactured by our engineers based on contemporary trends in the motor sector.

Produced in Poland, they are one of the best devices of this type on the market. Over the years, our car washes have become synonymous of durability and reliability, which results in low operating costs.

**SULTOF provides:**

- support of our experienced team of automation specialists and constructors
- fast and professional technical support
- easy access to spare parts
- design support at the investment preparation stage



**SULTOF car washes are made of high-quality stainless steel. We also provide versions made of galvanized steel.**



# Truck and bus washes

SULTOF car washes are modern devices, designed according to current trends and proven industrial solutions.

**The design work took advantage of SULTOF's many years of experience in the operation and service of car washes.**

One of the basic assumptions adopted when constructing the car wash was to create devices that would stand out on the market for their durability and reliability.

**Therefore, the whole structure and all fasteners and auxiliary elements are made of high-quality stainless steel.**

**This material provides 100% protection against corrosion, ease of keeping the device clean and prolonged lifespan incomparable to others.**

Other elements of the device, especially those transmitting the force e.g. gears and brush trolleys, have been designed to bear much higher weights and stresses than those normally used in a car wash.

All engines used are made in special waterproof version. In addition, engines exposed to particularly aggressive environmental influences are additionally protected e.g. by special seals or covers.

**Software is, besides the robust construction, the second important feature of the SULTOF car washes. When creating the software, we took into account comments and observations of both owners and the staff of car washes.**

Customization of washing programs according to the specific client's requirements is also possible.

The use of frequency converters ensures quiet and soft operation of the car wash, extending the lifespan of mechanical components.

**As a result, our washes not only have a very long lifespan, but are also low-maintenance and extremely strong. This feature allows for significant reduction in operating costs in both short and long term.**



## TYTAN Truck and bus wash

- stainless steel construction
- closed side columns with built-in compartments for the control and chemical dosing systems
- reinforced upper frame
- brush trolleys, connecting and auxiliary elements made of stainless steel
- hydraulic installations and nozzles made of stainless steel

## TYTAN NEXT Truck and bus wash

- stainless steel construction
- open frame structure of side columns
- autonomous sealed cabinets for control and chemical dosing systems
- brush trolleys, connecting and auxiliary elements made of stainless steel
- hydraulic installations and nozzles made of stainless steel

## YUNAK Truck and bus wash

- hot galvanized structure (painting as an option)
- open frame structure of side columns
- autonomous sealed cabinets for control and chemical dosing systems
- brush trolleys, connecting and auxiliary elements made of stainless steel
- hydraulic installations and nozzles made of stainless steel

## TYTAN, TYTAN NEXT, YUNAK WASH MODELS

### TECHNICAL FEATURES

Washing height	4,30 m
Washing width	2,80 m
Washing bay length (recommended)	vehicle length + 6 m
Washing bay width (recommended)	6,40 m
Washing bay height (recommended)	5,90 m

It is possible to adjust the washing height and width to the specific user's requirements and hall dimensions.

### CHARACTERISTICS

#### SOLUTIONS THAT INCREASE DURABILITY

- encoder-controlled brush travel system based on a non-stretchable polyester belt resistant to chemicals and secured with breakage sensors
- maintenance-free trolley rollers made of special abrasion-resistant material
- gears and brush trolleys with increased resistance to loads and stresses occurring in car washes
- engines additionally protected against water and chemicals
- flexible shaft mounting and vibration dampers on gears
- soft-start system for brush rotation
- prolonged lifespan of mechanical components and quiet and soft operation thanks to inverter drives



## SOFTWARE AND CONTROL SYSTEM

Control and software are important elements that determine the quality of washing.

The operation of our car washes is monitored by a modern microprocessor controller of the latest generation, which enables a thorough washing process.

**The SULTOF system offers as much as 100 ready to use washing programs for all types of trucks and buses, as well as buses and VANs.**

It is possible to modify and extend washing programs with available additional options e.g. chemical washing, pressure washing and under chassis washing. Configuring of new programs to meet the individual needs of the user is also possible. SULTOF also provides full diagnostics of the car wash status and registration of its operation.

**Supervising the operation of the device and changing parameters can also be done via Internet.**



The control cabinet is located in one of the gantry columns, enabling convenient and easy operation.

The use of frequency converters guarantees a smooth and gentle operation.



The control panel with buttons and a large 7" color touch screen provides intuitive, user-friendly operation and easy access to programs, settings and counters.

Stainless steel housing for control panel.

Electronic control of brush operation and pressure ensures high washing quality. The front and rear of the vehicle are washed by a horizontal brush and additionally by vertical brushes with an overlapping scrub function. The number of brush passes can be modified.

**It is possible to stop the car wash operation during the program and continue it from the point where it was stopped. Switching from automatic mode to manual control can also be used.**



## OPTIONAL EQUIPMENT

**SULTOF solutions are characterized by high flexibility. The equipment can be configured combining various washing systems i.e. brush washing, pressure washing and manual washing. During operation, the equipment can be expanded and modernized.**

### CHEMICAL WASHING

Prior to main brush washing, the vehicle is covered with active foam that softens the dirt.

The subsequent high pressure rinsing results in better washing efficiency.

### PRESSURE WASHING

Helps to speed up the washing process.

In combination with chemical pre-wash, pressure washing can be used as a separate program for touchless washing of odd-shaped vehicles.

#### Fixed – stationary nozzles:

recommended for rinsing off dirt after chemical cleaning and for pre-washing all heavily dirty vehicles. It may cover the lower parts, the entire sides or the entire contour of the vehicle.



#### Movable – oscillating nozzles and rotators:

it is used for washing odd-shaped vehicles such as tankers, silo semi-trailers and garbage trucks. Can be used for pre-washing or independent touch-less cleaning without brushes (in combination with chemical washing).

**The choice of nozzles – oscillating or rotatory, as well as washing parameters (water pressure and flow), depends on the type of vehicle and the type of dirt.**

This option may cover the lower parts, the entire sides or the entire contour of the vehicle. The horizontal beam with oscillating nozzles moves up/down and rotates around its own axis, enabling the water stream to reach hard accessible places.



High-quality brush bristles with high-density.



Accurate and efficient electric pumps, regulating the dosage of chemicals. Pumps are mounted in a car wash column or in a technical room.

### UNDER CHASSIS WASHING

Available in various configurations differing in shape, dimensions and number of nozzles. Optionally with covering the side surfaces of the wheels.

### WATER PUMPS AND TANKS

A wide selection of water pumps and storage tanks provides sufficient water supply for the car wash.



### ANTI-SPLASH SCREENS

Designed to cover roof brush and side brushes to reduce water splash and help keeping the wash bay clean.



### ENERGY CHAIN

A large number of hoses supplying water pressure options requires the use of a catenary guide instead of trolley slings and loops. This option is also available with standard equipment to arrange better the car wash space.



### POSITIONING

Two-color semaphore placed on the washing gantry informs the driver about the place where the vehicle should stop.

### WHEEL GUIDES

They facilitate proper positioning of the vehicle at the washing bay and protect against a collision with the device. Mounted in front of the washing gantry and optionally on the entrance side. The standard length is 6 m.

### WAXING

The wax is applied during rinsing. Waxing facilitates drying and allows the clean effect to last longer. The wax layer protects the vehicle against weather conditions.

### ANTIFROST PROTECTION

Protects water installations against freezing by blowing with compressed air.



## Bus washes

In addition to the standard program of complete washing, there are also shortened programs available for everyday washing: express and drive-through program with a temporary stop of the vehicle to wash the front and rear.

The **TANDEM** and **TRIDENT** versions respectively with two and three washing gantries have been developed especially for quick washing of large bus fleets.

Combining two or three gantries moving on one track allows to wash the bus in up to 2.5 minutes.



Another solution for quick washing of large bus fleets in a short time is the **SULTOF EXPRESS** drive-through wash. During the wash process buses pass successively through a stationary set of pneumatically tilted vertical brushes.

The unique **SULTOF** solution involves the use of one long arm with a brush to wash the front of the vehicle for better protection of the non-folding right mirror.

Optionally, before entering the drive-through washing station, a pre-wetting arch can be installed. It allows to apply a chemical that softens the dirt. While at the exit a rinsing arch with wax and demineralized water could be an improving option.

The **SULTOF EXPRESS** bus wash is available in both stainless steel and galvanized versions.





## MANUAL WASHING SYSTEM

This is an additional part of the equipment dedicated to truck and bus washes. It complements automatic washing and is used to wash hard-to-reach places and untypical equipment.

A standard configuration of manual washing equipment includes:

- double-sided trolley hose guidance system for foaming and washing
- lances – foaming and washing – on both sides
- lance hangers – on both sides
- self-winding hose reels with lances for washing the interior of semi-trailers
- injector system for dosing foaming chemicals
- hot or cold high-pressure water unit
- a set of filters that purify circulating water for manual washing



## WATER RECYCLING SYSTEM – BIOCLEAN

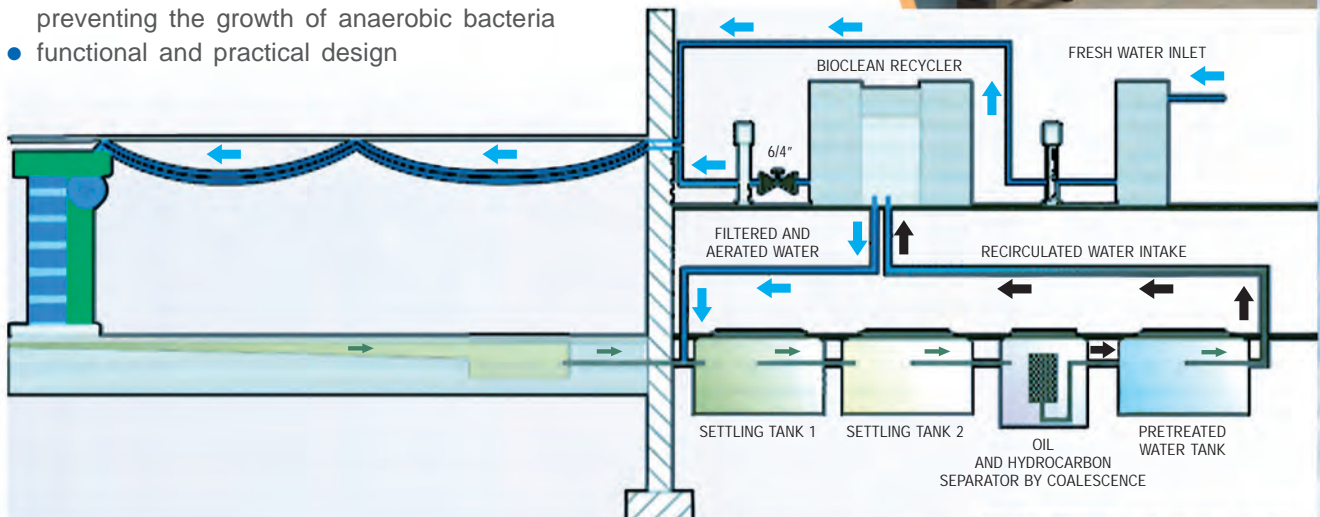
Together with other pro-ecological solutions, BIOCLEAN belongs to the line of innovative products developed by SULTOF under our own EKO-TECH brand.

We created **EKO-TECH** line for both environmentally friendly and economically friendly solutions. Secondary water can be used for all operations except final rinsing and waxing. Working with recycled water also contributes to the significant reduction in chemical consumption.

**The solution with our BIOCLEAN device is a complete technology for washing and purifying water in line with the highest ecological requirements.**

Characteristics of the BIOCLEAN recycling system:

- reduction of water consumption by up to 90%
- low investment and operating costs
- biological degradation of most chemicals and organic pollutants
- service-free operation, no need to add chemicals
- odorless sewage due to high oxygen content preventing the growth of anaerobic bacteria
- functional and practical design



# Special application washes

## SULTOF HERKULES

### Wheel and chassis wash

**HERKULES** is a device for special tasks. Washing takes place while the vehicle slowly drives through a special platform.

Thanks to the system of nozzles placed underneath and on the sides of the platform, water jets efficiently remove contaminants from the wheels and lower parts of the vehicle using appropriate water pressure and flow.

**The HERKULES car wash was designed to work in the harshest conditions, that is why it is extremely strong, virtually failure-free and easy to use on a daily basis. It guarantees efficient and thorough washing of wheels and other vehicle elements that get dirty most quickly.**

The device is a particularly useful solution for washing and disinfecting wheels, undercarriage and all the lower part of the vehicles coming from e.g. landfills, poultry farms, quarries, mines, cement plants and other industrial plants where heavy dirt is present in the form of mud, sand, clay or bio-waste.

**SULTOF HERKULES** car washes are available in stationary and mobile versions and with platforms of various lengths.

The choice depends on the type of contamination and washed vehicles.

Also a version with an insulated and heated water tank for operation at low temperatures is available.



## Non-standard solutions

**SULTOF also undertakes to create unique made-to-measure solutions.**

Thanks to many years of experience in car wash manufacturing, we are able to offer both modifications of standard devices and completely new solutions dedicated to meet the specific needs and requirements of customers.

We are able to offer unusual solutions to wash construction machines and vehicles, municipal and landfill vehicles, as well as military vehicles.

Another special solution in our wide range of professional washing devices are **"rain showers"** used to check the tightness of various types of vehicles leaving production lines of e.g. trains and buses.

Non-standard solutions may come in the form of drive-through and stationary washing sets with movable washing elements.



In addition to the unique design solutions, depending on specific washing conditions, we customize nozzles and water pumps.

That often results in combination with using chemicals, high pressure nozzles or low pressure nozzles with big volume of water.



The **SULTOF** company established in 1991 specializes in manufacturing, sale and installation of washes for all types of vehicles. For many years now **SULTOF** has been one of the industry leaders in Poland.

Focuses also strongly on exports, increasing year after year the number of wash systems sold abroad. Individual approach to customers needs results in big number of companies that vary in size and branch from small businesses, large transport and construction companies to public transport companies (buses, trams, metro and railways).



**The SULTOF offer includes:**

- jet washes
- roll-overs and washing tunnels
- bus washes
- tank washes
- truck washes
- tram washes
- train washes
- metro washes
- under-chassis and wheel washes
- untypical solutions designed to work in particularly difficult conditions

**and self-service equipment:**

- vacuum cleaners, air compressors, a.s.o.

**SULTOF** has its own developed maintenance network. At every stage of the investment, we provide professional technical advice, consult projects and oversee their implementation. Also customers from abroad are provided with advice and technical support delivered by **SULTOF** local distributors.

***Become our Partner!***

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