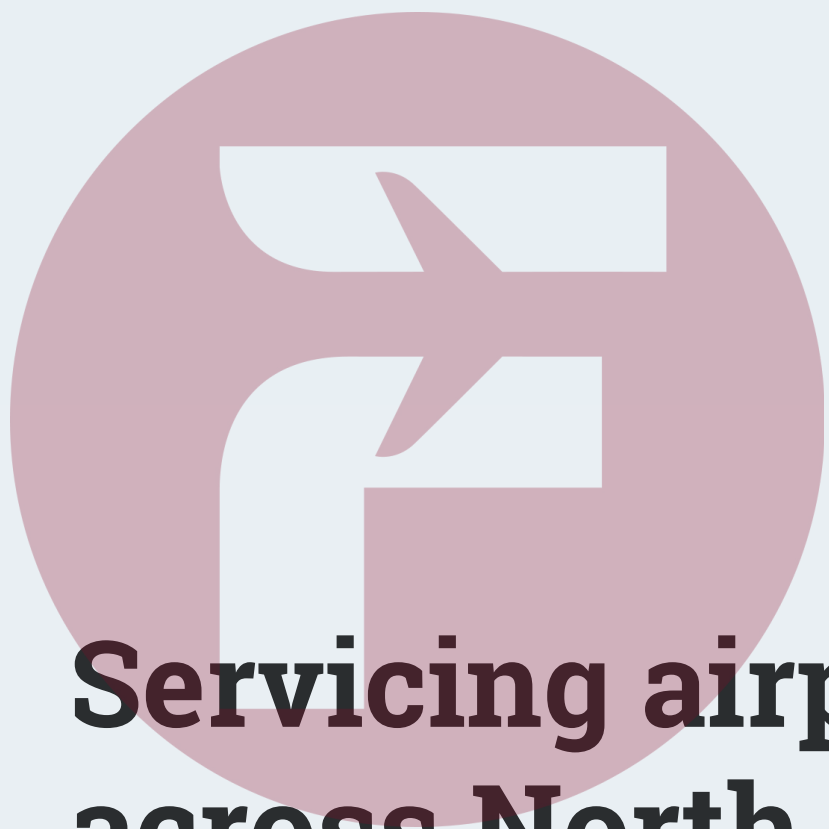


FORTBRAND

Special truck-mounted **sweepers**

A complete product range of multi-functional, heavy-duty and custom equipment for construction, industrial, road and airport applications





Servicing airports across North America since 1983

For over 30 years, Fortbrand has been a leading supplier of ground support and maintenance equipment to the airport industry.

Since 1983 Fortbrand Services has been providing rentals, leases, and sales of new and used airport equipment to Airlines, Airports, Ground Handlers, De-icing Companies, FBO's, MRO's, Into-Plane Fuelers, and Catering Companies.

Specializing in two subtypes of airport equipment, Ground Support Equipment and Airfield Maintenance Equipment, Fortbrand Services is your turnkey solutions provider to obtaining and paying for the equipment you need to run your operation today.

A photograph of a white sign with the word 'FORTBRAND' in red capital letters, placed in a landscaped area with mulch and small plants. In the background, there is a large, light-colored building with many windows and some trees.

FORTBRAND

Explore the Bucher Line



Why choose a Bucher?

Customized and powerful sweeping

Robust and flexible operation

Control System

Power pack modules

Hooper modules

Water tank modules

Special truck mounted sweeper applications

Front/mid mounted equipment

Water system modules

Rotor cleaner

Detergent system

Top/rear mounted equipment

Safety and storage equipment

Bucher XPower aero applications

Glycol recovery

Stand cleaning

Bucher V95t aero

Multi-purpose pick up unit

Suction and sweeping system

Safety

Operator experience

Bucher MaxPower V95t aero specifications

V Range

High performance

High productivity

Low cost of ownership

Low environmental impact

Safety

Operator experience

Product Specifications

V65

R65m

e35m

Why choose a Bucher unit?



Optimized for any job

A wide range of option modules allows you to customize your special truck-mounted sweeper to your needs. No job is too big for any Bucher unit.



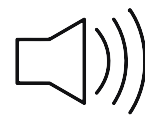
Low maintenance costs

Modularly built units with standardized components and a world-wide service network provide easy access to service and spare parts.



Increased capabilities

A wide range of hopper sizes, water tanks and sweep gear gives you greater flexibility so you can outperform on any area of application.



Low noise levels

With the high capacity fan it is possible to reduce engine noise. Its vibration dampers help minimize disturbance and wear and tear.



Made to last

Stainless steel and heavy-duty modular construction ensure the unit can withstand the harshest conditions every time.



Society and environment

We live up to our responsibility to society and environment by focusing on functional engineering, environmental integrity and driving comfort.



Best customer experience

We are with you all the way from idea to delivery, training, and service to ensure that you always get the best customer experience.

Customized and powerful sweeping

Driven by better

At Bucher Municipal, we offer a wide range of special truck-mounted sweeper equipment for municipal and contracting applications, using only high-quality materials, components from world-renowned suppliers and advanced technology. We are driven by a passion for people and a dedication to helping customers become better – by using less. We are driven by better.

Performance and sustainability

The special truck-mounted sweepers from Bucher Municipal are all developed, continuously tested around the world and perfected to ensure you get the best performance with a low environmental impact and a high return on investment. That is why our products are constantly playing a central role in ensuring both a safe and clean environment and a profitable business for our customers.

Types and capacities

Special truck-mounted sweepers from Bucher Municipal are available with equipment suited for airport and road applications.

Different sizes for different capabilities. Choose between two, three or four axels.

Hopper sizes available are 9 m³, 12 m³ and 14 m³. Increase water capacity with additional water tanks inside or outside the hopper.

Only the best is good enough

Attention to details is the very core of our business. Our hoppers are custom-built by our highly-skilled welders and made of stainless steel AISI 304 (1.4301) which is highly resistant to corrosion. We carefully choose our materials and follow well-documented procedures to ensure that every sweeper that leaves our factory can withstand the most extreme conditions - from the arctic temperatures of Siberia to the extreme heat of the deserts. Simply because we strongly believe that only the best is good enough.



Road applications



Airport applications



Bucher XPowa

Powerful & highly customizable. Rear suction and water systems specially configured for deep road cleaning.

Sweep gear

Customize your unit from a wide selection of options for front-, mid-, top- and rear-mounted equipment.

Hose reel & hand lance

These are part of the high-pressure water systems. Choose between a regular or hydraulic hose reel.

Good fuel economy

The choice of materials and components used in the special truck-mounted sweepers from Bucher Municipal are key to preserving a good fuel economy. E.g. our newest powerpack is provided with a belt driven high capacity fan and the highest euro norm engine available. This contributes to a high performance with low fuel consumption and CO₂ emission.

Effective workday

The special truck-mounted sweepers from Bucher Municipal are optimized so only one person is needed to safely operate the equipment. The option of additional water tanks allows you to carry a larger volume of water, this means more time sweeping and less time unloading and refilling. The ergonomic controls and user-friendly interface makes it easy to control and adjust the system.

Advantages



Reliability

Regardless of the unit you choose from Bucher Municipal, you can be sure it is built to perform and last under different conditions.



Cost

International components, robust construction, modulary built means easier spare part replacement, faster service and less down-time.



Safety

The hopper, water tanks & sweep gear are perfectly placed for a low center of gravity. Work lamps & beacons add safety on the field.



Performance

High performance with the newest engine technology and the stainless steel hopper with integrated water tanks on each side of it.



Bucher XPowa aero

Powerful sweep gear and water system configured for stand cleaning and glycol recovery.



Functionality everywhere

Rear door for emptying and maintenance, safety beacons, and a practical ladder and hose coupling on the back.



Wide suction

Effective liquid recovery with a highly efficient wide suction. Useful in airports to remove glycol from the stand.



Robust & flexible operation

Free from all compromises of mass production, Bucher Municipal develops special truck-mounted sweepers with tailor-made components of the highest quality. Each one of these units are custom-built for you to fit your specific requirements and applications. To ensure unrestricted suitability for daily use, only selected materials are used to ensure you get the highest possible resource efficiency.

The special construction of the special truck-mounted sweepers guarantees you a heavy-duty vehicle with an extraordinary service life and reliability in your daily work. It also provides you with multi-functionality on the field of operation as some of the brush gear can be interchanged with others, increasing your productivity.

Experience a robust and flexible operation with great performance in a wide range of demanding applications.



Control systems

Experience the intuitive in-cab control systems with the practical and ergonomical control panels. Choose between standard or integrated controls. The panel layout, type of buttons used and the colored screen add to the ease of operation and feedback received from the machine.

Switches mounted on console

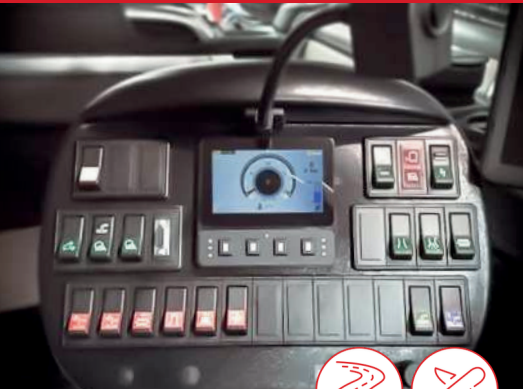
Manage all the brush gear functions from your unit in one place with the standard control panel mounted in a practical console inside the cabin. As an option you can add a lamp above the panel for better visibility.

Switches mounted on dashboard

Keep the center of the cab clear of obstructions with a control panel mounted into the dashboard and, whenever possible, into the overhead console as well. This layout is not only ergonomical but also specially useful if a sleeper cab is specified.

Separate on/off ergo switch

Two button positions and a toggle function allow the operator to program the brush gear functions from the main control panel, raise the equipment into stowed position and lift the suction nozzle to allow larger objects to be sucked into the hopper.



Standard control panel

A practical control panel is mounted on a separate console as a standard on all special truck-mounted sweeper units. This can also be provided with a lamp that works independently from the cab's light.



Integrated control panel

Enjoy a seamless and ergonomic integration of all the sweep gear functions directly into the special truck-mounted sweeper's dashboard.



On/off ergo switch

A selection of the most used brush gear switches can be placed in the door panel. This allows the operator a quick, safe and easy access to these controls without having to find them on the master control panel.



Power pack modules

There are three power packs available for the special truck-mounted sweepers; Standard, High capacity fan and Hydrostatic. All variants have a maximum suction power and sweeping performance at a low fuel consumption, for an efficient and economical use.

Better for the operator and the environment

The fan is encased and mounted on silent blocks and its exhaust is led upwards through a sound-insulated air duct. This results in a low level of noise for the driver and his environment, residue-free exhaust emissions, and no disturbance when working behind the vehicle.

Increased efficiency and easier service

The power packs help provide a better sweeping performance, more flexibility for daily tasks and operations and a smoother power loss. The international components ensure you can find spare parts on many workshops.

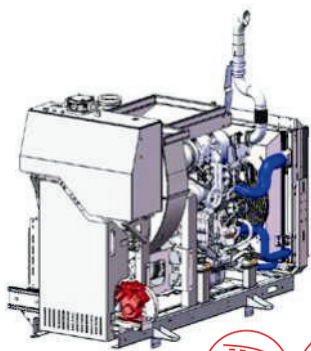
Less maintenance and wear and tear

The pump for the brushgear is driven directly out of the auxillary engine PTO instead of a belt drive, increasing efficiency and minimizing maintenance. The air outlet goes out on the roof without compromising the components, this minimizes failures due to corrosion or impairment of functions.

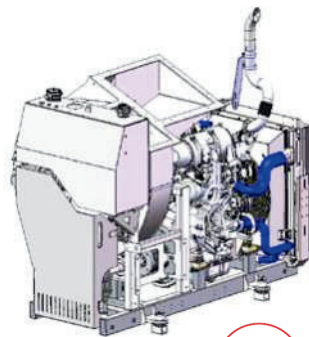
	Standard	High Capacity Fan (HCF)	Hydrostatic (HCF)
Engine	Twin: 4 cylinder - 129 kW	Twin: 4 cylinder - 129 kW (HCF)	Single: Chassis
Capacity	4765 cc	4765 cc	Chassis dependent
Operating revs	900 - 1800 RPM	900 - 1800 RPM	1100 - 1400 RPM
Power output	129 kW @ 2050 RPM	129 kW @ 2050 RPM	Chassis dependent
Max torque	690 Nm	690 Nm	Chassis dependent
Fuel consumption	5 - 18 l/hr	5 - 20 l/hr*	8 - 30 l/hr

*In normal sweeping mode 7,5 l/hr

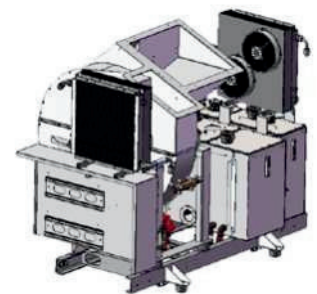
Note:
Typical operating speed for normal sweeping is 1200 to 1400 rpm.



Standard
With the use of an twin engine with 129 kW, power is transmitted to the dynamically balanced fan via a belt drive system and a fluid coupling.



High Capacity Fan (HCF)
Benefit from this high performing power pack that has air flow as high as the hydrostatic one at a very low fuel consumption and low noise level. Power transmission is done via a belt drive system and fluid coupling.



Hydrostatic (HCF)
The hydrostatic transmission offers an ultimate speed control, starting from 0.5 km/h. These transmissions can also be used to power all sweeper and washer functions from the chassis engine. Enjoy the absolute freedom between power and speed.



Hopper modules

The hoppers are manufactured from heavy-duty stainless steel (AISI 304 1.4301) to ensure a long service life. The thickness for the steel on the hopper is available from 3 mm to 6 mm depending on the strength requirements. The option of using AISI 316 stainless steel is ideal where excessive exposure to either salt air or other corrosive material is likely to be experienced.

The optimum tilt angle of the hopper body and the opening angle of the rear door ensure a fast and complete emptying of the sweeping material.

Hopper body

The design of the hopper body provides maximum payload capacity, ease of waste discharge and cleaning capability. A rear inspection hatch allows the operator to check on payload status.

Rear door

The hopper's rear door has a four-point locking system to ensure optimal sealing. The generous width of the door allows an easy waste discharge and a maximum accessibility to the operator for inspection and maintenance.

	V90	V120	V140
Voided air volume	9 m ³	12 m ³	14 m ³
Payload capacity*	4950 kg	11000 kg	13000 kg
Hopper tip angle	53°	40°	37°
Rear door opening angle	115°	115°	115°
Rear mesh area	1.8 m ²	1.8 m ²	1.8 m ²
Typical chassis GWV	18 tonne	26 tonne	26 tonne
Typical chassis layout	4x2	6x2*4	6x2*4

*Dependant on chassis and options required



9 m³ hopper

Ideal for smaller jobs. This is a small but powerful unit designed to outperform in a wide variety of areas and applications. The smart hopper body design provides not only a maximum payload capacity, but also an easy waste discharge and cleaning capability. Each component is manufactured from stainless steel to ensure all-round protection from the elements.

12 m³ hopper

Ideal for most jobs. Experience this unit's flexibility and performance on a wide variety of areas and applications. The smart hopper body design provides not only a maximum payload capacity, but also an easy waste discharge and cleaning capability. Each component is manufactured from stainless steel to ensure a long service life.

14 m³ hopper

Ideal for demanding cleaning. The larger capacity allows for more challenging jobs. More room to carry more water and to accommodate a heavy duty brush gear configuration. The hopper body design provides a maximum payload capacity, waste discharge and cleaning capability. Each component is made from stainless steel to ensure all-round protection from the elements.



Water tank modules

As a standard, our hoppers are provided with two standard water tanks fixed vertically on each side for optimum weight distribution in the payload.

When longer sweeping times are required, access to fresh water is limited or when larger quantities of water are needed (such as with high-pressure, high-flow water systems), having additional water becomes necessary. Additional water can be added in two ways, either by adding a water tank inside the hopper or between cab and hopper.

Increase your water capacity

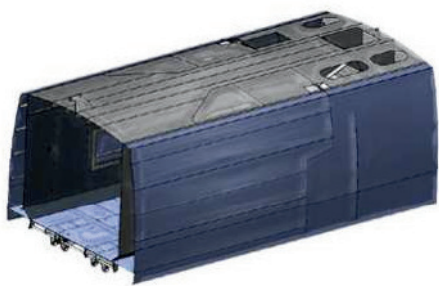
Based on your sweeping requirements, you can customize the water capacity of your special truck-mounted sweeper with any of the five additional water tank modules available. Do you need more capacity than the options listed here? Not a problem. Further special setups are also possible.

	V90	V120	V140
Std. water tanks' capacity*	2660 litres	3660 litres	4320 litres
Std. water tanks position	In hopper, left and right side	In hopper, left and right side	In hopper, left and right side
Add'l. water tank capacity (OPT1)	600 or 1000 litres	600 or 1000 litres	600 or 1000 litres
Add'l. water tank position (OPT1†)	In hopper, fixed to water tanks	In hopper, fixed to water tanks	In hopper, fixed to water tanks
Add'l. water tank capacity (OPT2)	1100, 1500 or 2000 litres	1100, 1500 or 2000 litres	1100, 1500 or 2000 litres
Add'l. water tank position (OPT2‡)	Behind cab	Behind cab	Behind cab
Add'l water tank width (OPT2)	315 mm	315 mm	315 mm

*Rear suction option reduces capacity by approx. 340 litres

**In-hopper water tanks reduce voided air volume

***Weight calculation needed to ensure axles aren't overloaded



Standard water tanks

Positioned on both sides of the hopper body, each tank has a hatch for cleaning and inspection. The hatch can be accessed from inside the hopper body. The tanks are manufactured in stainless steel, type 1.4301 (304) as a standard or type 316 as an option.

Add'l. water tank (OPT1)

Located inside the hopper and linked to both standard tanks for optimal weight distribution and balance of the vehicle during water consumption. The tank is manufactured in stainless steel, type 1.4301 (304) as a standard or type 316 as an option.

Add'l. water tank (OPT2)

Located between the cab and the hopper. Same length as the hopper for optimal weight distribution and balance of the vehicle during water consumption. The tank is manufactured in stainless steel, type 1.4301 (304) as a standard or type 316 as an option.

Special truck-mounted sweepers for a **wide range** of applications



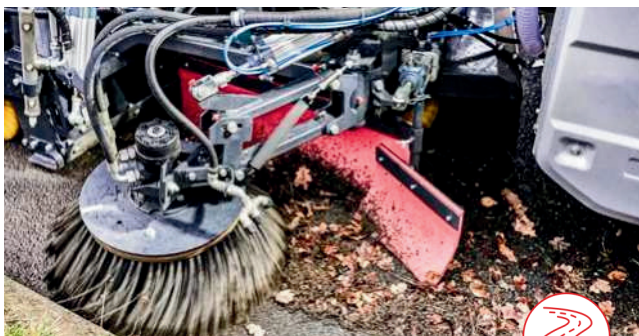




Front/mid-mounted equipment

	Single sweep	Dual sweep	Simultaneous sweep	Full width suction*
Sweeping width	Up to 2550 mm	Up to 2250 mm (L or R)	3500 mm	3600 mm
Channel brush size	700 mm ¹	2 x 700 mm ¹	2 x 700 mm ¹	2 x 1100 mm ³
Suction nozzle size	600 mm ²	2 x 600 mm ²	2 x 600 mm ²	2400 mm ²
Inlet tubes, Std.** fan	275 mm	2 x 275 mm	2 x 275 mm	275 mm
Inlet tubes, HC*** fan	300 mm	2 x 300 mm	2 x 300 mm	2 x 300 mm

*Airport **Standard ***High Capacity
¹ Steel ² Rubberised steel ³ Polly or Steel



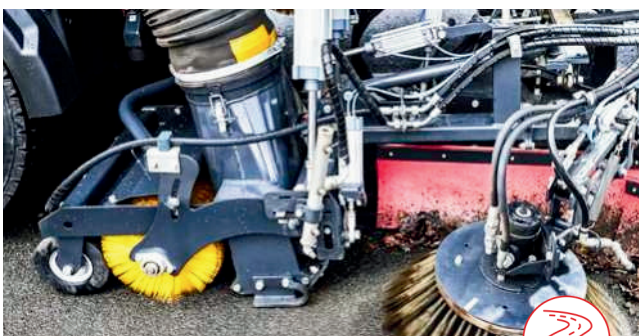
Channel brush

Channel brushes with trailing arms that minimise the risk of damage on collision with curbs or other obstructions. Choose between single or dual brushes with either fixed or side sliding operation.



Wide suction

Used mainly on airports for fast pick-up of glycol or any type of fluid, it allows the operator to drive immediately over the spill and fastly recover liquid across the full width of the chassis.



Rear brush

The brush sits immediately behind the suction nozzle to enable a rapid pick up with a very low twin engine RPM. This reduces not only the fuel cost but also the noise.



Wide suction with brushes

Used mostly on airports and military establishments. Choose two or three channel brushes for full width scrubbing area. Can be used also with the detergent dispersal system or alone without brushes for spill recovery.



Brush unit

The channel brush and the suction nozzle can extend up to 400 mm enabling the machine to keep away from the edges of a freshly laid surface. As an option, you can have a sliding centre brush.

Rotatilt function

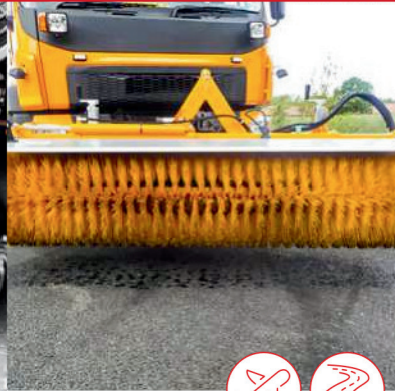
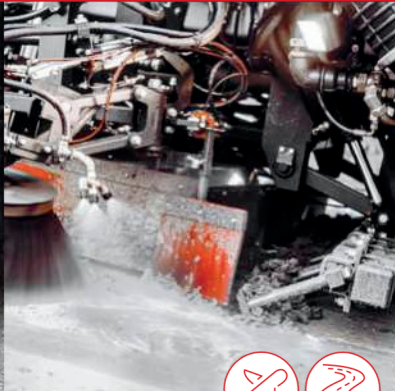
The rotatilt function of the channel brush allows the operator to precisely angle the brush both laterally and longitudinally within a 360 degree angle so that the brush orientation matches the job at hand. The brush can be flat for general sweeping or angled for cleaning gullies. This function can be installed on either a channel brush or front brush.

Special front brush

For the ultimate reach and flexibility, this large front-mounted brush can slide up to 1100 mm to provide a great advantage when sweeping lay-by, bus stops, along roads with overhanging trees and even when sweeping tunnels. The brush can just as easily be placed on top of the kerb to brush debris away and into the path of the channel brush.

Weed rip brush

The side sliding weed rip brush can extend up to 750 mm to clean kerbstones from weed. The front-mounted version can keep the debris away from the front wheel to prevent compacting. The modular design with controls and quick-release connections allow the operator to multitask with the same machine by interchanging the weed rip brush with a scraper or edge cutter.



Simple scrapper

Mounted behind the front right or left wheel, the simple scrapper can extend up to 750 mm to lift compacted mud and debris from the surface. The smart modular design with controls and quick-release connections allows the operator to multi-task with the same machine by interchanging the scrapper with the weed rip brush or edge cutter.

Full width scrapper

Used for the removal of dried on or compacted debris that is across the road surface such as building sites, where a lot of construction activity takes place or where vehicles cross the road leaving mud that 'sticks' to the surface. Three variations are available, one perpendicular to the direction of travel and two offset by 17° to direct debris to the suction nozzle.

Pivoting roller brush

The front-mounted pivoting roller brush is very versatile. It can be used for multiple applications such as snow removal or fast sweeping larger areas, but it is especially effective for brushing freshly milled asphalt. The roller can easily be removed to perform normal sweeping jobs or be interchanged with another piece of sweeping equipment.

Magnet

Front-mounted magnet that can be removed or replaced for regular sweeping jobs. The stainless steel magnet allows you to collect ferrous objects in your path quick and easy when carrying out runway or road side clearing. Magnet width is 2400 mm with a 50 mm operational clearance and flux density up to 1480 gauss.



Water system modules

The special truck-mounted sweepers from Bucher Municipal have built-in dust suppression water sprays. Other applications include surface deep-clean such as with drain asphalt cleaning, high-pressure rinsing such as with airport stand cleaning, and overall assisting the sweeper achieve greater results in a whole

variety of applications. Choosing the right water system for your needs and applications is crucial for your unit to perform to its maximum potential. Whether to choose high-pressure, high-flow or both and whether to use V-jets and/or rotating jets depends on the application and results desired.

Spray bar configuration

Combined with brushes

Combined with suction

Stand alone

With V-jets

From 600 to 2550 mm

Up to 2400 mm

Up to 2500 mm*

With rotary jets

-

Up to 2400 mm

-

With rotor cleaner (S/N)

-

From 1200 to 2400 mm

-

*Numerous configurations can be set up after your wishes.

**S: Standard / N: Narrow

Also relevant is the position the spray bars have in relation to the sweep gear. Below are listed different possibilities available.

Ref. Spray bar position

- 1) Front-mounted, fixed

- 1) Front-mounted, manual pivot

- 1) Front-mounted, pneumatic pivot

- 2) Behind wide sweep brush

- 3) Behind suction nozzle with V-jets

- 4) Behind channel brush with V-jets

- 5a) In front of wide suction with V-jets

- 5b) In front of wide suction with rotating jets

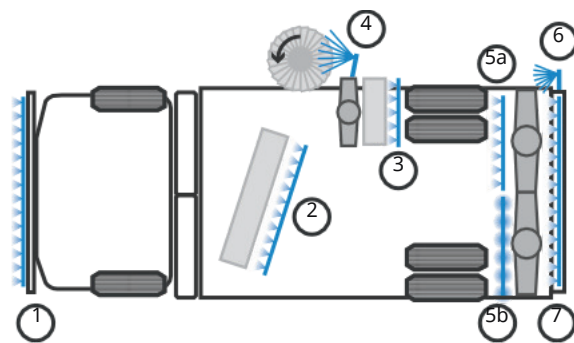
- 6) To the side of the wide suction with V-jets

- 7) Behind wide suction with V-jets

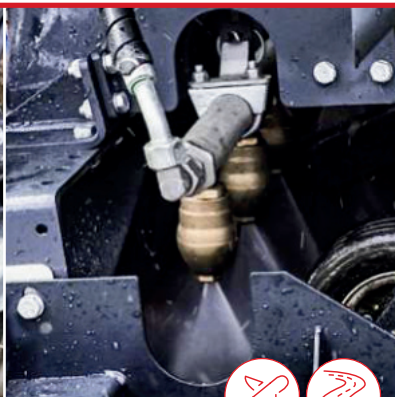
Numerous configurations can be set up after your wishes

High-pressure water systems

140 bar @ 47 l/min	175 bar @ 172 l/min
150 bar @ 106 l/min	300 bar @ 136 l/min
200 bar @ 106 l/min	240 bar @ 172 l/min
280 bar @ 74 l/min	400 bar @ 100 l/min



Spray bar positions. Description on the left.



Spray bars with V-jets

These jets are used to help loosen stubborn material on concrete and other non-porous surfaces. The V-jets are angled slightly forward to provide the optimum angle for cleaning. Each of the jets can be unscrewed for an easy maintenance, cleaning, repair or replacement.

Spray bars with rotary jets

A very powerful application for in-dept cleaning. These jets have a ceramic nozzle orifice that provides a rotating jet of water with a high-speed pulsing effect hitting the surface and dislodging the debris so the wide suction immediately behind can suck it into the hopper.

Hose reel and hand lance

Included with the high-pressure systems are a hose reel (15 m) and high-pressure hand lance. Used for cleaning of the vehicle, signs, taxiway lights and spot cleaning of road surfaces where stubborn dirt persists (hose is regulated to max. 120 bar). As an option, you can change the hose reel to be hydraulic.

Heat exchanger

Sweep in temperatures down to minus 3 degrees celsius by using the heat of the twin engine to heat up the water to approximately 5 degrees celsius. The water is drawn from the tank, through the filter and into the heat exchanger before passing through the pump and out to the nozzles.



Rotor cleaner

As an alternative to full width rear suction and spray bars, Bucher Municipal offers a rear-mounted rotor cleaning system. It has rotating spray bars and a wide suction that cover the full width of the truck and can be used with a range of high-pressure pumps from 100 to 400 bar.

It is completely enclosed, ensuring there won't be any water spillage as you clean and it has a high vacuum that effectively collects all water and waste. This system is equally valuable when used in road maintenance, construction, industrial site cleaning, and aircraft parking stand cleaning.

Superior results with less resources

It operates at 60 to 80 l/min compared to the traditional 100 l/min. This reduces the costs of fuel, waste disposal, refilling and allows for better utilisation (more on-station time). It can also be used in conjunction with the detergent system.

	Standard	Narrow
Suction width	2400 mm	2400
Nozzle spray (bars/jets)	4 bars w. 8 jets	8 bars w. 16 jets
Spray bars diameter	600 mm	300 mm
Suction nozzle width	2x 1200 mm	2 x 1200 mm



Detergent systems

Mixer system

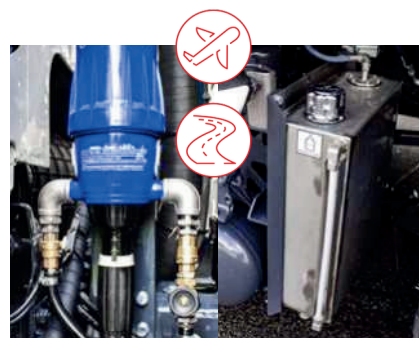
The detergent is mixed with water from the internal tanks and it is applied via the std. front-mounted spray bar with the std. low pressure water pump.

Stand alone system

The cleaning agent is mixed with water in the tanks and it is applied via a front-mounted spray bar that pours the mix directly onto the surface to be cleaned.

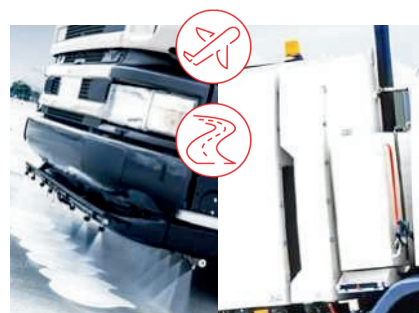
Spray bar possibilities

All valves open	Spray width of 2500 mm
Left valve closed	Spray width of 1250 mm (right)
Right valve closed	Spray width of 1250 mm (left)



Mixed solution dispersal

Proportional feeder, 25 litre detergent tank & front-mounted spray bar w. valves, hoses, fittings and controls.



Stand alone dispersal

200 to 400 litre detergent tank, membrane pump, spray bar, valves, hoses, fittings and controls in the cabin.



Top/rear-mounted equipment



Rear-mounted wanderhose

Available with either a pneumatic or sprung counter-balance system for an easy operation, the wanderhose can have a reach of 2 or 3 m and a diameter of 170 or 200 mm depending on the type of operation used.



Top-mounted wanderhose

It can be used on the left, right and/or back side of the vehicle. Available with either a spring relieved or hydraulic control for an easy operation. Choose between 150 or 200 mm wanderhose diameter.



Magnet

Collect ferrous objects in your path quick and easy without interfering with other instruments and out of the way from the rest of your brush gear. Flux density up to 1380 gauss.



Rotor cleaner

Alternative to the full width rear suction and spray bars. Achieve superior results using lower volumes of water. This system operates at 60-80 l/min compared to the traditional 100 l/min.



Rear suction

The full width and power of the rear suction results in the majority of water being sucked back into the hopper leaving the surface suitably dry for immediate use. Add side suction and heavy-duty intake seats as extra options.



Safety & storage equipment

Keep yourself and your gear safe

Rear view cameras and additional lighting options are available to increase the comfort and safety of the operator and those around the vehicle. The dedicated storage compartments allow a safe keeping and transport of your work gear.

Practical storage

Increase your safety and productivity by storing your extra work gear in a secure manner. The convenient storage compartments available throughout the sweeper make it easy for you to transport anything from a broom and hoses to even a channel brush.

Additional lightning

Due to personal preference or extra regulations in the area of operation, sometimes additional lightning options are required. See and be seen better during your work day thanks to the extra beacons, blitz and work lamps that can be added to different parts of the special truck-mounted sweeper.



Equipment stowage

Different types of facilities are available in the vehicle to store equipment such as a spare channel brush, a water hydrant stand pipe with key and even a full size broom and shovel.



Tool box

Mounted in a convenient area of the sweeper, the tool box provides the operator with sufficient space to keep the hoses, adapters and tools needed during the day without needing to keep them in the cab.



Rear view camera

Heavy-duty cameras mounted on the rear (single), rear and offside (dual) or rear, front and sides of the vehicle (360°) provide instant feedback to the operator on the correct function of brushes as well as rearward vision.



Rear view screen

The single, dual or 360° camera system comes with a camera and a 7" or 10" color screen mounted in the cab to provide optimum visibility and ensure the safety of the driver and those around the vehicle.



Additional blitz light

Depending on local traffic regulations some vehicles require blitz type flashing lights fitted to the front or rear of the sweeper. These are used when the machine is working and usually operate when the beacons are on.



Extra beacon

If needed you can add an extra beacon on the cab or hopper in addition to the two beacons that are fitted to the hopper as a standard on all Bucher special truck-mounted sweepers.

High-end sweeping equipment for an **outstanding** **performance**





Bucher XPowa aero applications

Bucher XPowa aero is available for two main airport applications: Stand cleaning & Glycol recovery



Bucher XPower aero **glycol recovery**

The efficient liquid recovery and load capacity of this machine allows to collect glycol where gate de-icing is carried out.

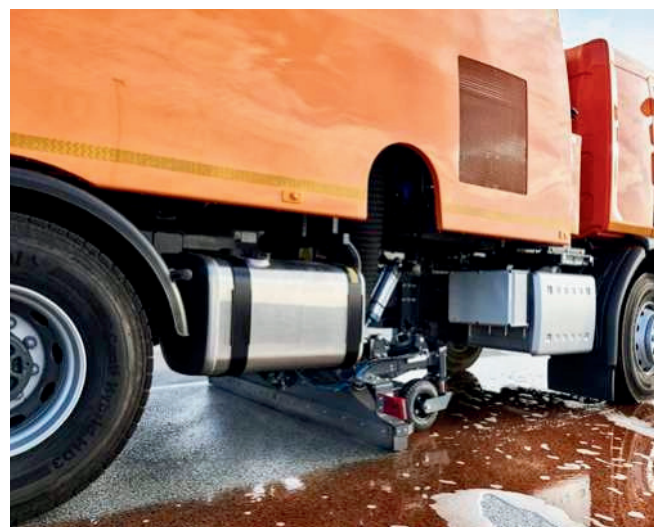
Off loading is fast and trouble-free using the off load pump and the heated hopper floor. If the side brushes are chosen as an option then other tasks can be carried out such as stand cleaning when the weather is warmer.

Optional equipment

- Additional water tanks
- Detergent tank, 400 litres
- High-pressure systems
- Warm water system
- Side brushes

Basic configuration:

- 9 m³ hopper in stainless steel
- Standard fan
- Wide suction 2.4 m
- 4" off-load valve on the rear
- Load indicator
- Camera system





Bucher XPowa aero **stand cleaning**

The stand cleaner is offered in a number of configurations to suit all sizes of airports. The primary function of these machines is the cleaning of spills, also oil and grease from aircraft parking stands.

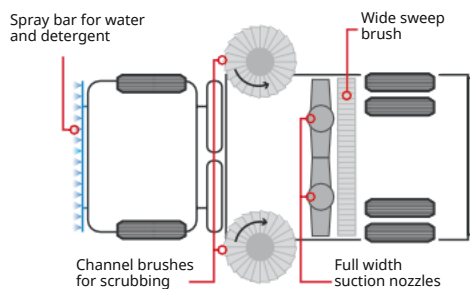
This machine can also be used for other cleaning and sweeping applications for example glycol recovery and even snow clearance in the winter time with the front roller brush. This allows a year-round use making it much more cost effective.

Optional equipment

- 9, 12 or 14 m³ hoppers
 - Additional water tanks
 - 3rd brush
 - Side blast nozzles
 - Rotor cleaner
 - High-pressure systems
 - Magnetic bar (front or rear-mounted)
 - Front roller brush and snow plough
- More options are also available.

Basic configuration:

- 9 m³ hopper in stainless steel
- Water capacity, 2900 litres
- Detergent tank, 200-400 litres
- High-pressure pump, 200 bar @ 100 litres
- Full width suction nozzles
- Wide sweep brush for sweeping or scrubbing
- Channel brushes (left/right) for sweeping or scrubbing
- Multiple spray bars for detergent dispersal and application of high-pressure water





The detergent and high-pressure water systems facilitate runway cleaning in combination with the detergent system using gentle environmentally friendly solvents.

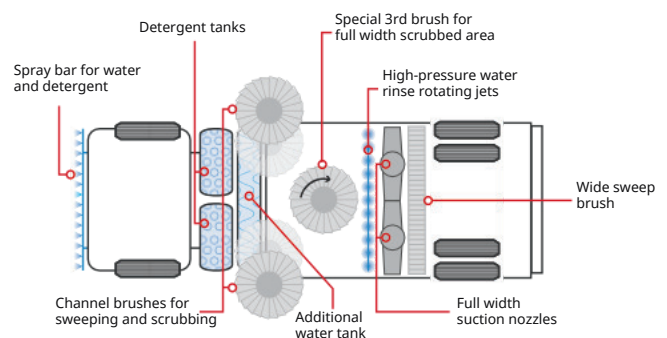
These spills are not only dangerous and slippery when wet, they also represent an environmental issue. This sweeper will quickly clean and degrease the surface making it ready for immediate use.

Optional equipment

- Additional water tanks
- Detergent tank, 400 litres
- High-pressure systems
- 3rd brush

Alternative configuration:

- 14 m³ hopper in stainless steel
- Water capacity, 3980 litres + 1500 litres
- Hydrostatic powerpack
- Detergent tank 200-400 litres
- High-pressure pump, 300 bar @ 100 litres
- Full width suction nozzles
- Wide sweep brushes for sweeping or scrubbing
- Rotor cleaner system, rear-mounted
- Multiple spraybars for detergent dispersal and application of high-pressure water





FORTBRAND
QUALITY • TRUST • RELIABILITY

Bucher **V95t aero**

High Speed Runway & Multitask Airport Sweeper



Extraordinary performance and results from our airport sweeper

The Bucher V95t aero has become renowned as the industry leading high speed runway and multi-task airport sweeper capable of sweeping your airport hazard free.

Whether you are looking to keep your civilian airport runways, taxiways and aprons serviceable or need the highest performance of material pick up to remove foreign object debris on a military airfield the Bucher V95t aero is the machine to perform. From glycol recovery to high speed runway sweeping; all your airport cleaning tasks are covered.

The Bucher V95t aero airport sweeper has been developed to provide exceptional performance with the lowest environmental impact, combined with ease of use and low operational costs.

The Bucher V95t aero excels in each of these areas; high performance, high productivity, lower cost of ownership, environmental impact, safety and operator experience.



High **productivity**

The Bucher V95t aero has a vast 9.5 m³ hopper capacity enabling large areas to be swept before hopper capacity is reached.

High speed sweeping

With operational speed of up to 40 km/h the Bucher V95t aero makes the perfect choice for cleaning large areas of runways, taxiways and aprons quickly and effectively.

Optimised airport cleaning solution

The wide suction, high speed operation and large collection capacity are the perfect combination that gives you an excellent performance during your daily airport cleaning operations.

Key Specification



Up to 5000 kg
payload with an 18000 kg
GVM chassis.

Up to 3400 mm
swept width with optional
channel brush operation
enables a sweeping area
capability of 136,000 m²
per hour.

Up to 4000 litres
water capacity. Standard tank
capacity of 1500 litres and
various auxiliary tank options
give you the capability to tailor
the Bucher V95t aero to your
operational requirements.



High performance

The Bucher V95t exceeds the requirements of all internationally recognised military and civilian aviation authority pick-up tests to give the confidence your airport is swept clean and all debris is removed from traffic surfaces to prevent aircraft damage.

Multipurpose

Equipped with a specialist multitask sweeping and pickup system located between the axles to protect from accidental collision damage the Bucher V95t aero will pick up a range of debris including fine dust, FOD and liquid such as glycol or surface water.

Airblast nozzles

Exhaust air from the fan can be diverted down to dual side blast nozzles at ground level which prove very effective at the dispersal of debris such as grass clippings, leaves, sand or light snow from large areas of surface into noncritical areas.

Auxiliary engine

The heart of the machine is a powerful yet fuel efficient Mercedes Benz auxiliary engine. EU Stage V / EPA Tier 4 final (210 kW) and EU Stage IIIa (205 kW) emissions compliant options are available to suit various environmental and operational territory requirements.

Water & detergent cleaning systems

Various options are available for the Bucher V95t aero to increase the cleaning performance of the machine including:

- High pressure water pump options
- V-Jets
- Rotating jets
- Detergent dosing
- Pre mixed detergent spray

Permanent magnet

Permanent magnet bar options are available, either front or rear mounted, for the collection of ferrous FOD.

Airport task capability



Runway & Taxiway Sweeping

Sweeping can be achieved at speeds of upto 40 km/h.

FOD removal

Designed with foreign object debris collection at the forefront of the machine design. The Bucher V95t aero excels at industry FOD pick-up test performance.

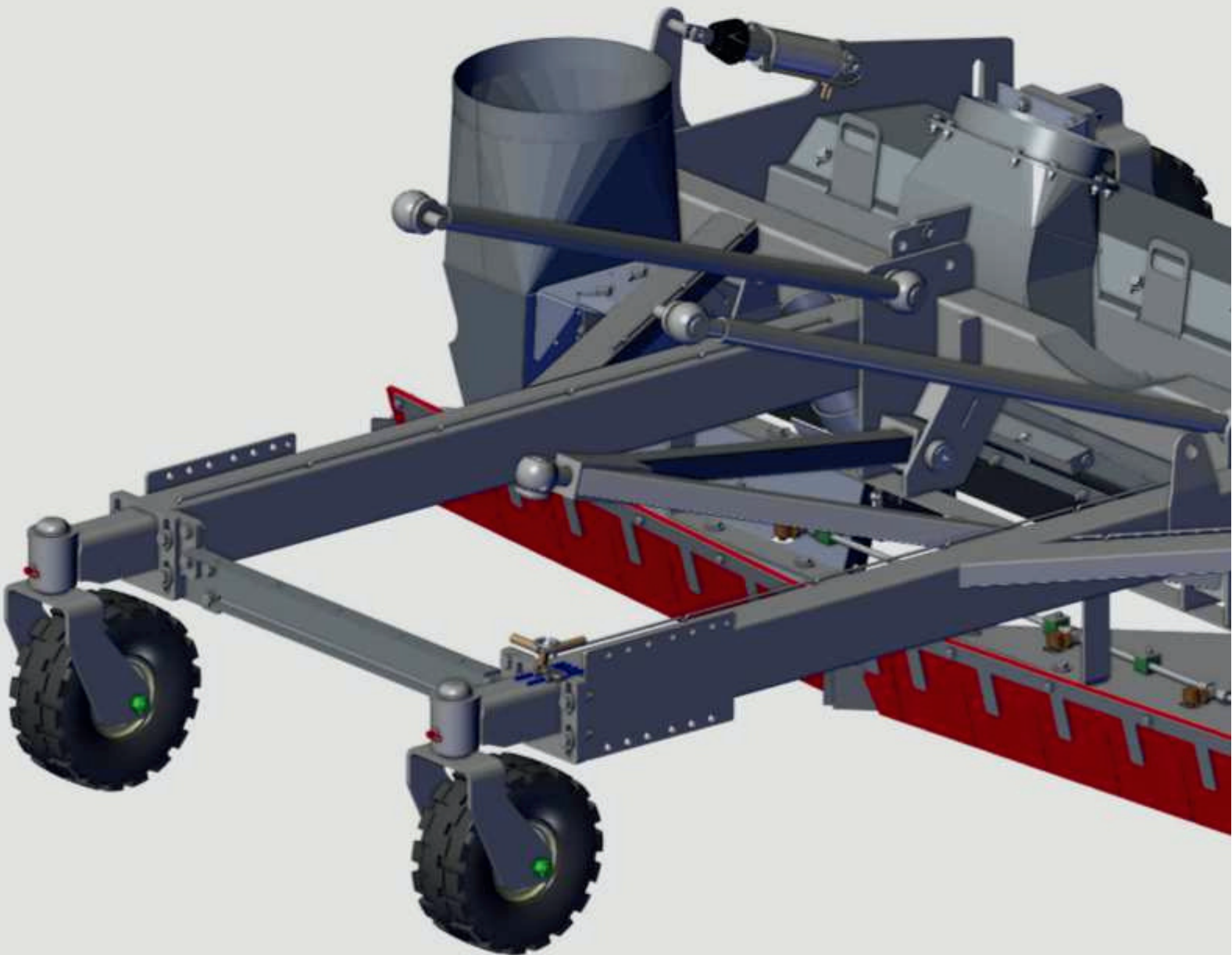
Glycol and fluid recovery

Full width nozzles achieve efficient liquid recovery from airport surfaces.

Stand cleaning

Optional channel brushes give effective stand cleaning capability and can be combined with optional high pressure water systems and detergent dosing for ultimate cleaning performance.

Multi purpose **pick-up** unit



Innovative nozzle geometry

The highly specialised high speed runway sweeping machine is fitted with a unique and innovative multi purpose pickup head specifically designed for airfield applications. V-formation channels direct larger FOD (foreign object debris) directly into the primary suction nozzles. These are followed by a full width suction nozzle and a widesweep brush for the collection of finer debris.

Glycol and liquid recovery

The full width nozzles also excel as liquid recovery nozzles and allow the sweeper to clean up standing water, glycol, deposited detergent mix or fuel spillages. No component changes are required to optimise the pickup unit for liquid recovery, just minor adjustments on the hood.

Brush control

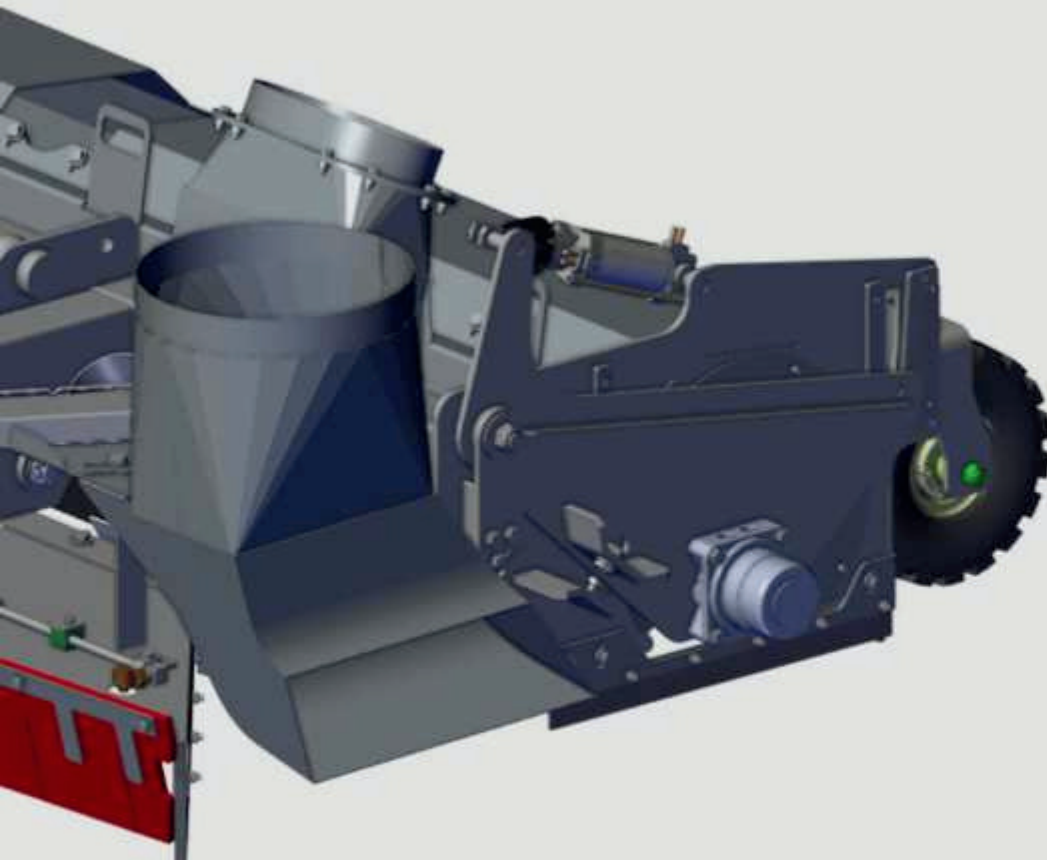
The widesweep brush is independently controlled to maximise the flexibility of the sweeper.

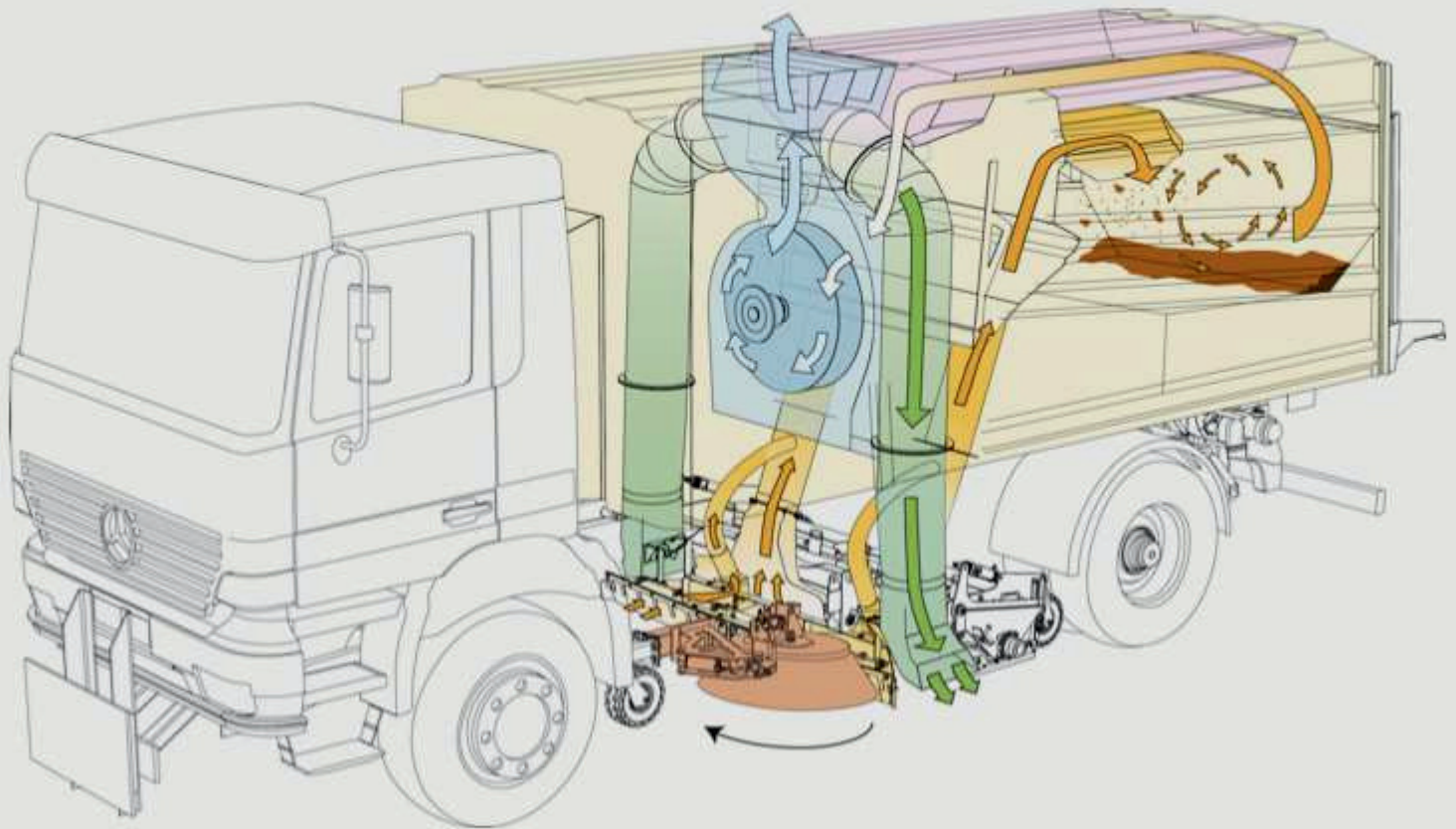
Safe and smooth operation

The whole unit is suspended on rubber castors to give a smooth ride and prevent any damage to the paved airport surfaces. At speeds above 40 km/h the pick-up unit automatically raises and will re-deploy once the vehicle slows to 10 km/h. This acts as a safety precaution to avoid damage to the machine or the surface.

Robust design

Mounting the pick-up unit between the axles reduces the risk of collision especially in confined spaces and when reversing. An additional benefit to centre mounting is the capability to fit an optional rear mounted magnet to the machine, minimising the overall vehicle length.





Suction and **sweeping** system

The Bucher V95t aero is designed with cleaning at the heart of its operation.

Fan drive concept

Efficiency and performance are pivotal to the productivity of the Bucher V95t aero. The fan is driven from the auxiliary engine through a heavy duty gearbox and fluid coupling assembly to ensure maximum power transmission and minimised energy losses through a durable system.

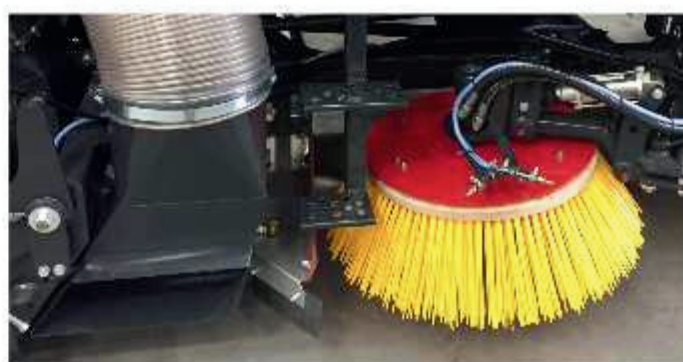
Air flow

The fan creates a vacuum in the hopper which causes air and debris to be drawn up through the pick up nozzles. The debris is deposited in the hopper as the air swirls in the body before clean air exhausts through the mesh screens. The exhaust air either leaves the machine through the top mounted duct or is diverted via a pneumatically controlled valve down to the low level air blast nozzles.



Front mounted magnet

The optional front mounted magnet improves the airport cleaning and safety performance and effectively collects ferrous FOD which can cause serious damage to aircraft and support vehicles.



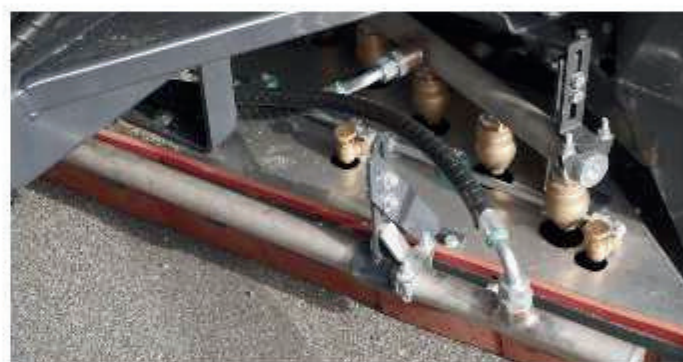
Channel brushes

Optional 900 mm diameter channel brushes are available in either polypropylene or steel material. The ground pressure can be adjusted to aid with stand scrubbing duties.



DIN plate

A front mounted DIN plate interface can be supplied fitted to your machine to enable operational flexibility and fast removal of front mounted equipment such as our optional magnet.



High pressure water

Various high pressure water options are available to assist with airport cleaning duty. A hand lance is also available as an option for cleaning difficult reach areas around the airport.



500 litre water tank

Twin 250 litre plastic water tanks can be added to the Bucher V95t aero to increase the water capacity by 500 litres. Situated under the hopper above the rear axle the additional tanks increase on station time.



Rear mounted wanderhose

Heavy duty, rear mounted wanderhose is also available to allow on airfield gully emptying and collection of detritus in confined and inaccessible areas. The single piece rear hose provides fast deployment.



Safety

We understand the paramount importance of safety in air-side operations. The Bucher V95t aero has been designed to keep airports, both civilian and military, safe and operational by cleaning areas quickly and efficiently. Foreign object debris (FOD) covers a variety of material including loose runway material, rocks, sand, bolts which can cause damage to equipment or airport personnel. In addition the machine has been designed to keep the operator and maintenance personnel safe during their duties around the machine.

Automatic body prop

A highly visible, self-engaging body prop provides the operator and service personnel with a safe working environment. As it is disengaged from the pendant, there is no need for anyone to work under an unsecured body.

Lighting

Various hazard warning light options are available on the Bucher V95t aero to improve visibility of the machine to other airfield users. To help assist the operator in low light and night time conditions various work light options are available.

Operator Experience

CAN enabled HMI console

Sweeper functionality is controlled through the easy to operate CAN bus enabled control unit ergonomically situated within the vehicle cab. Machine and diagnostic information is displayed on the high clarity colour display.

Simple operation

The centrally mounted pick up system is simple to set up and operate which maximises the operational time of the sweeper. The multi-purpose pick-up head arrangement prevents complicated nozzle changes to switch from debris to liquid collection and achieved through simple operator adjustment.



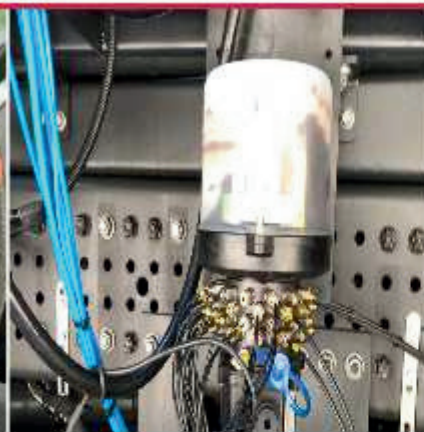
Rear view camera

The optional rear view camera provides a clear LCD screen in the cab that assists the operator to reverse easily and safely into tight locations around the airfield.



CAN Bus enabled HMI console

Sweeper information is provided on the colour screen HMI interface and the easy to use controls allow intuitive operation of the machine's functionality.



Autolube system

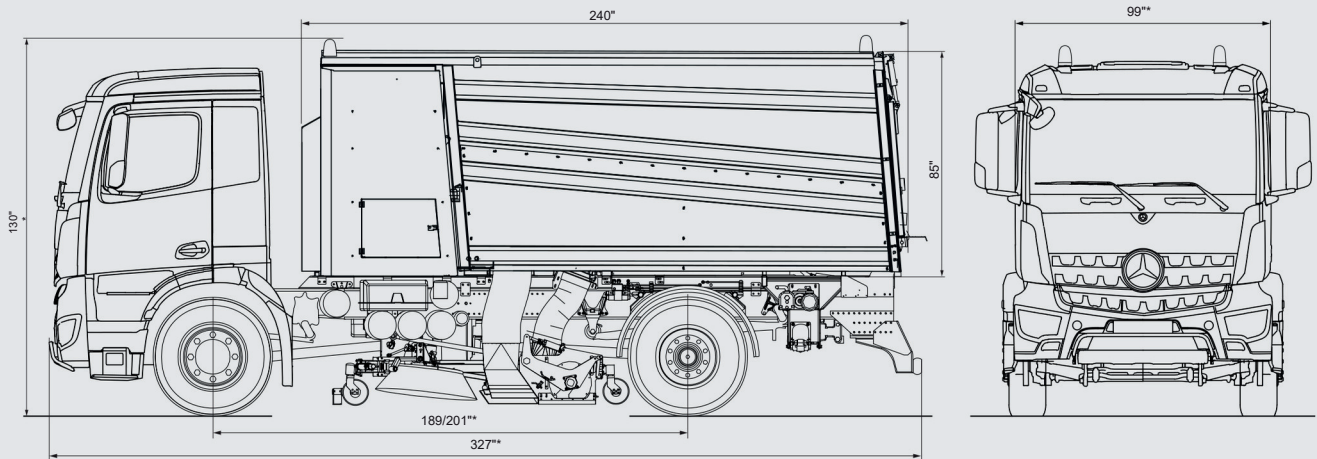
An optional automatic lubrication system reduces manual greasing of the sweeper systems and ensures the sweeper remains in optimal condition.



Fire extinguisher

An optional fire extinguisher provides safety and peace of mind to the operator.

Bucher MaxPowa V95t aero



Dimensions

Length*	327"
Width*	99"
Height *	130"
Wheelbase (E3/5 chassis)*	189"
Wheelbase (E6 chassis)*	nominal
Weight (empty)*	20,517 lbs nominal

Noise level cab

<75 dB(A) *

Sweep gear and sweep speed

Swept width (no side brooms)	99"
Swept width (with side brooms)	134"
Sweep speed (no side brooms)	25 mph
Sweep speed (with side brooms)	10 mph

Chassis

GVM	Chassis dependent
Axle config	4x2

Diesel fuel tank

Capacity (shared sweeper & chassis)*	76 gallons
--------------------------------------	------------

Auxiliary engine Mercedes

Benz OM 906LA Cylinders	Stage 3a**
Displacement	6
Gross Power	6400 cc
Torque	205 kW @ 1950 rpm
Max torque	1150 Nm @ 1200 rpm
	440 Nm @ 1300 rpm

Optional Auxiliary Engine

Mercedes Benz OM 936LA	
Cylinders	Stage 5
Displacement	6
Gross Power	7700 cc
Torque	210kW @ 1950 rpm
	1200 Nm @ 1200 rpm

* Dependent on chassis and/or option selected

** Not for EU

Features



Magnet

Optional front or rear mounted permanent magnet bar fitted with hinged aluminum protection cover to enable easy cleaning and removal of ferrous material.



HMI Centre console

CAN bus enabled sweeper controls and information display integrated into an easy to navigate console which can be adjusted to suit the operators preferred position.



Rear Mounted Wanderhose

The powerful vacuum performance makes easy work of cleaning catch basins in confined areas that the sweepgear can't reach.

Bucher MaxPowa V95t aero

Controls

Center cab mounted master control panel providing information on a wide range of sweeper functions. This CANbus control unit is designed to be intuitive and simple to use and also provides the operator with key warnings as necessary.

Exhauster fan

Max 3250 rpm

Max 680 yd³/min

The fan is mounted transversely behind the auxiliary engine.

Channel brushes (opt.)

Two slewable side brush units can be selected. Dependent upon the desired working width, they can be activated independently via the in cab master control panel.

Channel brush diameter 35"
 Channel brush speed 90-120 rpm

Side blast nozzles

Side blast nozzles are fitted to both sides of the machine. They remove water, snow or detritus lying on the runway and taxiways. Control is via the in cab master control panel.

Electrical system

24 volt.

Pick-up unit

Located between the chassis axles, the unit picks up debris and liquid across the full width of the sweeper.

V-formation channels direct debris under the primary suction nozzles for collection of larger FOD (foreign object debris). The primary suction nozzles are followed by a set of full width suction nozzles complete with a full width brush behind that picks up the finer debris.

The wide sweep brush operational speed and ground pressure is adjustable. The brush can be lifted altogether for applications such as glycol recovery where it is not required. In order to protect the machines the pickup unit lifts automatically when speed exceeds 25 mph.

Central broom length 91"
 Central broom diameter 16"

Dust suppression system

Dust suppression sprays are located in front of the pickup device, in the suction nozzles, at the channel brushes (where fitted) and across the front of the vehicle. The Pressadrain water purging system is provided as standard to protect the system in cold weather. Dust suppression water pump 8 gpm

Dust suppression water pump 58 psi

Hopper

The hopper is a heavy duty fabrication construction complete with a stainless floor. The body prop is engaged automatically and remotely disengaged hydraulically.

Hopper voided volume 12.5 yd³
 Hopper tilt angle 50 degrees

Water system

Water capacity 396 gal (std)
 Additional rear tanks +132 gal (opt)
 Additional tank behind cab +528 gal (opt)
 Water capacity (Max total) 1,056 gal (opt)

Options

- Channel brushes left and right, mounted and stowed behind the front axle, 35", incl. adjustment of ground pressure
- Stainless steel hopper. 1.4003
- High pressure equipment: 4 gal/min @ 2,175 psi or 28 gal/min @ 2,900 psi c/w
- hand lance and auto retract hose reel. Spray bar and jet options are also available
- Magnet Front or Rear mounted
- Wanderhose, rear mounted with suction hose, 7.88"

Bucher Municipal

Please visit

buchermunicipal.com

**Request a
Sales Team
Member**

Driven by better





Extraordinary results from our highly regarded sweepers

The V Range has established itself as our most reliable and dependable truck mounted sweeper. Our latest sweepers have been developed from over 60 years of evolution and continuous improvement to meet the requirements of our customers.

With tailored machines in your chosen field, Bucher Municipal offer a wide choice of products and options, which ensures maximum performance is always achieved.

The V Range truck mounted road sweeper has been developed to provide longer on-station time with the lowest environmental impact, combined with ease of use and low operational costs.

The V Range excels in each of these areas; high performance, high productivity, lower cost of ownership, environmental impact, safety and operator experience.



V65t/V80t Auxiliary Engine

A twin engine sweeper provides the greatest flexibility. The sweeping operations are totally independent from the chassis and therefore can offer the lowest fuel consumption on low revs or best possible suction performance on maximum revs.



V65h/V80h Hydrostatic Drive

The patented hydrostatic gearbox can work with large chassis engines up to 280 hp. In hydrostatic drive, the sweeper offers infinitely variable speed control and can transit up to 25 mph. It can also be supplied with cruise control.



V65m/V80m PTO Drive

An engine PTO (power take off) can be used to drive all the sweeping functions. Due to the minimum PTO torque required, the Vm is limited to a selection of chassis brands.



Smoothflow

The cowl provides a noise suppressing and weather proof enclosure for the powapack. The unique Smoothflow air system has been designed to maximise airflow providing over 40% better suction performance over previous models.



8.5 or 10.5 yd³

8.5 or 10.5 yd³ hopper options.



40-50 gallon fuel tank

The V65t/V80t auxiliary engine uses only 1 gallon per hour making it an excellent choice.



High performance

The V Range is supplied with a choice of hopper capacities and a range of power packs to tailor the sweeper to the operation. A wide range of options extends the functionality further to provide a truly versatile machine.

Maximizing on-station time requires a balance of having enough water capacity to minimize refills, having enough hopper capacity to cope with large volumes of leaves or debris, having a payload great enough to meet the demands of a workday and being able to carry enough fuel to reduce non-productive travel.

Over years of development, Bucher Municipal feel we have achieved a near perfect balance of the requirements to provide possibly the best performance road sweeper.



Up to 15,432 lbs payload
With an 20 ton GVM.

Up to 141"
Up to 141" swept brush width on simultaneous sweep (with an optional side slide brush increasing swept brush width to 165").

Up to 1083 gallons
Standard water capacities from 1083 gallons on the V65 to 634 gallons on the V80 Rear Suction (V65 – 410 gallons, V80 -530 gallons), with additional options varying from 184 to 449 gallons (depending on option compatibility).

High productivity

Productivity is driven by reliability and dependability through fewer breakdowns or service interventions. Combine this with great suction performance, quick engage options and an ease of onsite adjustments or consumable replacements and your time working increases.

The V Range delivers great productivity with standard features and a wide range of options to match your operational needs.

25" or 20" channel brushes with an optional side slide brush arm for weed ripping or extended swept width.

The V Range dual sweep can sweep both near side and offside curbs and change from one to the other simply via a single button.

* Optional equipment

The Vt Range has a JCB industrial engine, designed for operating in dusty environments. Providing 295 ft/lb of Torque @1250 rpm, the Tier 4 Final engine is ideally suited for road sweeping operations while offering low fuel consumption.

Data-capture is standard via the JVM providing data on service information and the sweeper. Data can be downloaded via a USB stick and uploaded onto a spreadsheet showing engine revs, fuel consumption, sweeping time and if fitted with a tachograph, distance travelled and distance swept.

Variabrush allows the operator to maintain a safe and consistent distance from the pavement, by adjusting the channel brush position to follow the curb line; enhancing the functionality of the sweeper.



500 hours between routine services on JCB engines.

Shortest wheelbases designed with major chassis manufacturers to improve turning circles.



Top mounted wanderhose*

The top mounted wanderhose with 280 degree rotation, available in a 5.9" or 7.87" diameter with water injection, can be used to empty catch basins down to 61.81" safely from the curb side.



Simultaneous sweep*

Simultaneous sweep allows both brushes and vacuum nozzles to operate at the same time.



Rotatilt*

Rotatilt option adjusts the angle of the channel brush from the cab to clean crevasses and cambered roads.



Rear Suction nozzles*

Full width suction nozzles to the rear of the machine, in addition to mid-mounted nozzles for exceptional pick-up performance.



Supawash*

Provides an option for high pressure water, 7 gal/min @ 1450 PSI to clean roads and kerb lines. The hand lance and 49 ft hose reel can be used to clean street furniture and the machine itself.



Rear Mounted Wanderhose*

Heavy duty, rear mounted wanderhose is also available to allow catch basin emptying. The single piece rear hose provides fast deployment with a max cleaning depth of 58". *

Lower **Cost** of Ownership

Capital cost is only part of the operational expenditure of the sweeper. Fuel consumption, maintenance costs and resale values can outweigh the initial purchase price offering better value in the longer term.

The V Range has been designed to last, perform at lower revs and have more durable wearing parts.

The V Range features a 0.16" thick 1.4003 stainless steel hopper and integrated water tank. A 0.08" thick mild steel cowl is standard with optional 1.4003 stainless steel upgrade. Stainless steel mesh screens are also available if required.

The powder painted process starts with shot blasting components prior to the application of zirconium based pre-treatment to create a clean and adhesive surface for a satin primer. The resulting powder coat layer creates a highly effective barrier against corrosion increasing durability of the sweepgear.

The rear door features heavy duty stiffeners and the rear chute is made from stainless steel for extended durability.

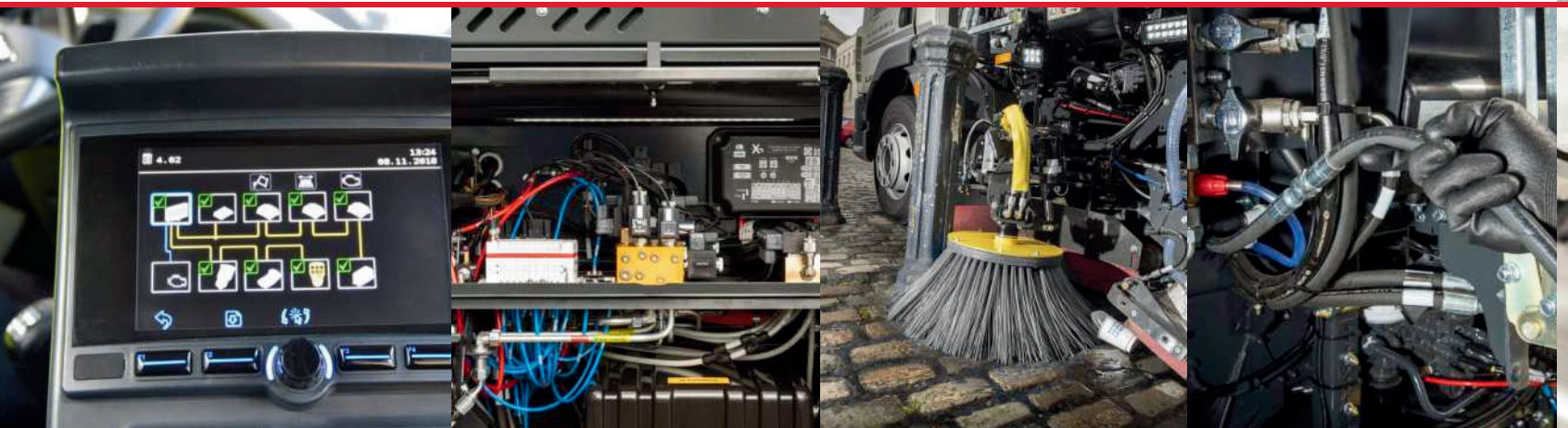
Corten inlet tubes and seats reduce wear even in the harshest of environments.

Bolted replaceable rubber seals and quick change brushes reduce downtime for consumable replacements.

As standard, the V Range sweeper features a Pressadrain water purging system so that when freezing weather conditions are anticipated, water is easily and conveniently drained from the sweeper.

Water jets in the nozzle boxes are self-cleaning which extends the life of the components.

* Optional equipment



JVM screen

JVM system with 7" color screen provides fault diagnosis and operational feedback for the sweeper including engine codes.

Systems locker

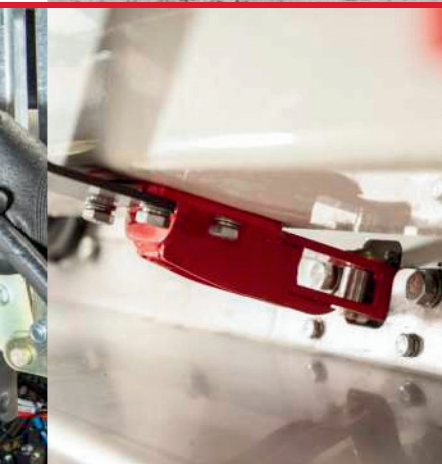
The electronic nodes, hydraulic adjustments and pneumatic systems are centralised in the systems locker complete with convenient LED strip light, making repairs and fault finding easier and faster.

Kick back feature

Trailing brush arms have a kickback function as standard protecting both the sweeper and street furniture.

Supawash Hose*

The Supawash hose has a short lead with a connector attached to the 15 metre hose. This allows the full length hose to be replaced quickly in the event of damage.



Door locking mechanism
Heavy duty twin locking mechanism with minimal proximity switches, to ensure a tight seal and prevention of leakage.

Combi cooler radiator
Single triple stack cooling pack for improved cooling performance and ease of cleaning.

Heavy duty nozzle*
Optional heavy duty nozzle box wheels and bumpers reduce damage and extend wheel life.

Easyclean*
Easyclean option can connect to a hydrant to flush the inside of the hopper, cleaning the roof duct and behind the inlet tubes.



BUCHER

BUCHER

BUCHER



V80

Low Environmental Impact

Road sweepers are the only vehicles on the road that reduce harmful emissions by trapping particulate matter collected from the road surface in the hopper. The V Range does this with the lowest environmental impact Bucher Municipal can design.

Low noise

The V Range sweepers are equipped with noise suppression hoods, encapsulating the auxiliary engine and fan casing and noise attenuation vanes are installed as standard in the air exhaust system. Noise at the driver's ear is less than 68 dB(A) at maximum revs (chassis dependant), creating a safer operating environment for both the driver and pedestrians. The engine can be set to lower revs for night sweeping which reduces the noise levels by 50%.

High dust suppression

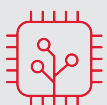
Debris is sucked in a direct route from the vacuum nozzle into the hopper, reducing wear and tear as well as maintenance. Once debris is in the hopper, the cyclonic airflow helps separate debris, and the clean air is released into the atmosphere.

Low fuel consumption

The twin engine sweeper uses less fuel at lower revs than the single engine sweepers in the majority of applications. The twin engine has three power pack options to allow the best balance of fuel consumption, cost and power to match the application.

Low water usage

The V Range uses as standard yellow mist atomising jets to reduce water usage by 20% or red nozzle jets, with higher flow are available for heavier applications. The optional Water Recirculation System can save up to 237 gallons of water per day extending the on-station time and reducing the risk of dust going through the fan.



Smoothflow Air System

Re-designed airflow system to maximise air delivery and minimise losses, improving suction performance whilst reducing fuel consumption and noise.



Safety

Safety is everyone's responsibility and Bucher Municipal has considered all areas of human interaction when designing the V Range sweepers.

Automatic body prop

A highly visible, self-engaging body prop provides the operator and service personnel with a safe working environment. As it is disengaged from the radio controlled remote pendant, there is no need for anyone to work under an unsecured body.

Radio Controlled Pendant

The radio controlled remote pendant allows the operator to walk completely around the sweeper without having wires to contend with. The operator can adjust the wide sweep brush easily and can check the surroundings before opening the hopper or tipping.

Lighting

The V Range can be supplied with a wide range of optional LED work + hazard lights to make sweeping safer and easier.

Improved direct vision

The V Range now comes with an adjustable JVM screen. This allows the operator to adjust the JVM screen and control box to suit their driving position.

An updated door controller keypad with improved information and LED lights indicate which sweeping functions are on so the operator reduces the number of times they have to look away from the road.

The V Range's JVM screen provides information on the sweeper's performance and doubles up as the camera screen, reducing the requirement for additional screens in the cab.

Engine bay access

The engine bay access is via a wide folding ladder with three points of contact. Hand rails provide safer access and regress in the engine bay area. The hydraulic tank provides a wider platform for the operator to stand on whilst carrying out minor inspections and checks.



Offside camera

Offside road view, providing additional vision for potential blind spot.



Handwash*

An electric hand wash option with removable bowl can be fitted to provide heated water for washing.



Hi-vis brush plates

High visibility brush plates and hose sleeves makes it easier for the operator to see the brush position and alerts pedestrians, cyclists and other vehicles to the position of the brushes.



Radio controlled pendant

Wireless pendant for hopper opening and tipping and wide sweep brush adjustments.

Operator Experience

The V Range sweeper has been cleverly thought through with the operator in mind. Ease of use, great suction performance, minimal effort required to set-up, clean and operate, often makes the V Range the operators' first choice sweeper.

JVM display

Daily checks are carried out via the JVM and auto-updates for the life of the sweeper. The center console can be adjusted to suit the operator's preferred position.

The JVM has a wide range of settings that can be tailored to suit the operational needs including optional Preference Plus for a range of additional settings to customise your sweepers functionality. Features available include a boost setting for Ecomode or pausing of the sweepgear when overloaded or on low fluid levels.

Door Controller

A heavy duty pause button allows the operator to lift all the sweep gear and put the engine in idle over until depressed again. This allows the operator to change from sweeping to transit in a quick and easy way, and easily back again to sweeping. The V Range remembers the last sweeping settings used each time.

Side Door Lockers

The V Range has two lockable large side lockers for storing equipment including wanderhose extensions and standpipes.

Cleaning

The V Range features a sloping hopper floor; this allows leaves and debris to slide out of the hopper easily, reducing the amount of cleaning required. The V Range also offers an optional Easiclean system which flushes the air duct and behind the inlet tubes.



Easiadjust Nozzle

Simple adjustment of the nozzle for reduced set up time.

Mesh retention hooks

The mesh screens are released and locked from the retaining clips via the door opening mechanism reducing the effort required to open and clean.

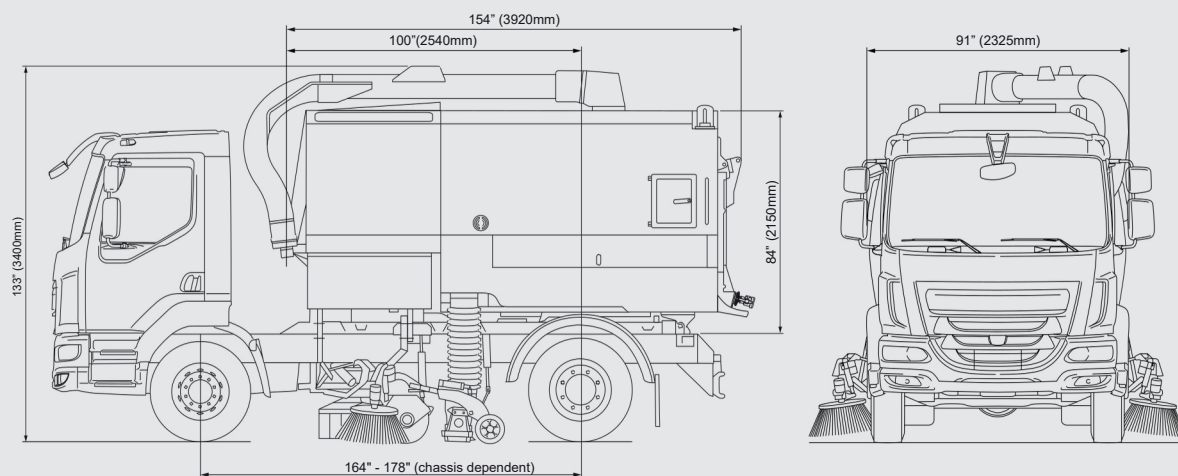
Door controller

The ergonomic door controller can be used for all the sweeping operations, brush position, pressure, speed, nozzle aperture, engine revs and water jets.

USB charging points

A center console, featuring cup holders and USB charging points, can be adjusted to suit the operator's preferred position.

V65



Dimensions

Length (cowl and hopper)	154" (3920 mm)
Width*	91.5" (2325 mm)
Height*	133" (3400 mm)
Wheelbase*	164" - 178" (chassis dependent)
Sweeping path of suction nozzle and channel brush	51" (1300 mm)
Sweeping path with roller brush	94" (2400 mm)
Sweeping path for double-sided pick up	141" (3600 mm)

* Dependent on chassis and/or option selected
** Not for EU. 24v only

Noise level cab

<68 dB(A) generally (dependent on chassis)

Alternative drives

Semi-hydrostatic	V65m
Hydrostatic	V65h

Chassis

GVM	GVM 14 - 19 tons
-----	------------------

Diesel fuel tank

Capacity	50 gallons (190 l)
----------	--------------------

Auxiliary engine

	V65t
Standard:	JCB Dieselmex 430 NRMM Stage 5
Gross power	74 HP
Max torque	295 ft/lb @1250 rpm
Option:	JCB Ecomax 448 NRMM Stage 5
Gross power	130HP
Max torque	450 ft/lb @1500 rpm
Option:	JCB Dieselmex 444 NRMM Stage 3a**
Gross power	114 HP
Max torque	29 ft/lb @ 1300 rpm

V65



Easiclean

for efficient cleaning of built up dirt in hard to reach areas.



HMI Centre console

with JVM screen which can be adjusted to suit the operators preferred position, featuring cup holders and USB charging points.



Top Mounted Wanderhose

with 280° rotation, available in a 5.9" (150 mm) or 7.87" (200 mm) diameter can be used to empty gullies safely from the curbside.

V65

Controls

Center cab mounted master control panel with JVM providing information on a wide range of sweeper functions plus data capture download. Up to four optional cameras can also be viewed on the JVM screen. Separate palm rest controller housing controls for the main sweeping functions is mounted on the door side.

Exhauster fan

Operational speed variable between 1800 rpm - 3500 rpm to suit operation.
V65t: Step-up gearbox ratio: 1.79:1

Channel brush

Quick release brush system with infinitely variable speed up to 160 rpm (cab controlled).
Hi-visibility yellow brush plate and hose guide

Nozzle

Cast aluminum nozzle with 9.94" (250 mm) diameter inlet and tool free adjustment

Dust suppression system

Dust suppression sprays located at suction nozzle(s), channel brush(es) and across front of vehicle.
Pressadrain water purging system.
EUnited PM10 4* Certified.

Electrical system

24 volt.
All external loom connections are full automotive IP67 rated.

Exterior noise / Sound power level

LWA 108 dB(A) for standard power engines measured in accordance with EC directive 2000/14/EC.
LWA 112 dB(A) for high power engines measured in accordance with EC directive 2000/14/EC.

Hopper

Body comprises of hopper & integral water tank. Fabricated from heavy duty stainless steel plate.
Water tight twin lock rear door latching system with de-watering function. Two body side access doors and side storage lockers.
Plug in hopper floor as transfer port for use as Streetwasher.
Rear discharge chute, automatic multi position body prop, twin caged rear beacons and LED worklights are standard features.

Hopper voided volume *** 8.5 yd³ (6.5 m³)

Discharge angle 54° nominal

Door opening angle 125° nominal

Water tank

Water tank incorporates anti-surge baffles and filled via a type 'A' water hydrant fill. A twin diaphragm pump runs continuously and is able to run dry.

Water capacity (Option 2000 l)
410 gallons (1554 l)

Cowl

Smoothflow cowl lined with frequency matched soundproofing material

Brushes

Wide sweep brush 16" (406 mm)

Width of wide sweep brush 50" (1275 mm)

Width of suction nozzle 30" (750 mm)

Channel brush
(opt. Ø 25" 650 mm) 20" (500 mm)

Options

- Camera monitoring systems.
- Littasnatch.
- Microtrap dust suppression system.
- Powathrust/Powasave.
- Pneumatic mesh shakers.
- Powascrub - wide sweep brush ground pressure device.
- Supawash - high pressure washing system, 8 gallons/min @ 1450 PSI, c/w hand lance & 49 foot hose reel.
- 6" or 8" boom mounted Wanderhose with power assist option.

A range of options are available – contact us for more information.

Subject to change without notice.

*** All Bucher Municipal Hopper Capacities are measured in accordance with European Standard EN 15429.

Scan for your free report



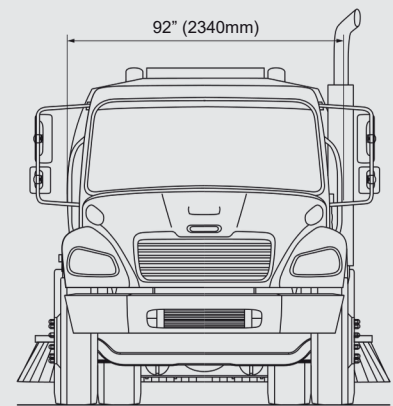
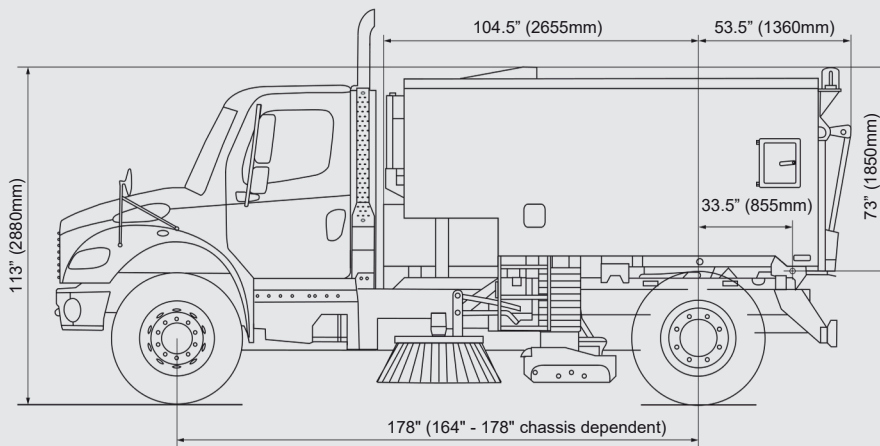
The 5 Things
You Must Know
Before Buying a
Street Sweeper

Bucher Municipal North America Inc.
105 Motorsports Road
 Mooresville, NC 28115
Tel. +1 704 658 1333
Fax +1 704 658 1377
info.bmna@buchermunicipal.com

www.buchermunicipal.com

Driven by better

R65m



Dimensions

Length (cowl and hopper)	158" (4015 mm)
Width	92" (2340 mm)
Height*	113" (2880 mm)
Wheelbase*	164" - 178" (chassisdependent)

Noise level cab

<75 dB(A) generally (dependent on chassis selection).

Chassis

GVM	Up to 33000 lbs
Gearbox	Allison 3500 RDS
Rear Axle	6.50/8.87
Tires	11R22.

* Dependent on chassis and/or option selected

R65m



Gutterbroom Extension Override
allowing variable positioning of the gutterbrooms from in the cab by overriding the extended position.



Rear Mounted Wanderhose
for catch basin suction and drain clearance with pendant control to aid the operator.



Wireless pendant
allowing the operator to walk around the sweeper and check surroundings before opening the hopper or tipping.

R65m

Controls

Center cab mounted master control panel with JVM providing information on a wide range of sweeper functions plus data capture download. Up to four optional cameras can also be viewed on the JVM screen. Separate palm rest controller housing controls for the main sweeping functions.

Exhauster fan

Heavy duty, dynamically balanced impeller with multivane corrosion resistant blades. Operational speed between 2400 and 3000 rpm drive via a Hydraulic Motor.

Gutter brooms

Large 43" (1100mm), hydraulic driven, leading arm, digger type, free floating gutter brooms with in-cab adjustable speed and down pressure insure aggressive cleaning of curbs and gutters.

The Gutter brooms feature a heavy duty steel disc, drilled for either four or five segment broom sections. The broom material is tempered steel tines, 25" (650mm) long. At the operator's discretion, from in-the cab, the dual brooms can extend out to achieve a 3550mm total reach to facilitate cul-de-sac and curve sweeping.

Pick up hood

Low noise suction system with 14" (350mm) diameter suction and blast hoses.

Dust suppression system

Dust suppression sprays located at the pick up hood, channel brush(es) and across the front of the pick up hood. Pressadrain water purging system.

Electrical system

12 volt only. All external loom connections are full automotive IP67 rated.

Exterior noise / Sound power level

L_{wa} 110 dB(A) for standard power engines measured in accordance with EC directive 2000/14/EC.

Hopper

Body comprises of hopper & integral water tank. Fabricated from heavy duty stainless steel plate. Single lock rear door latching system with de-watering function.

Rear discharge chute, twin rear caged beacons. Automatic body propping mechanism.

Hopper voided volume** 8.5 yd³ (6.55 m³)

Discharge angle 55° nominal

Door opening angle 125° nominal

Filter mesh area 1.60 yds² (1.21 m²)

Water system

Water tank incorporates anti-surge baffles and filled via a type 'A' water hydrant fill. A twin diaphragm pump runs continuously and is able to run dry.

Water capacity 300 US GAL (1100 liters)

Dust spray pump output Up to 9.2 gal (35 l/min)

Dust spray water pressure 51 psi (3.5 bar)

Water tank Capacity 300 gal (1100 liters)

Options

- Camera monitoring system.
- Hydrant layflat hose.
- Pneumatic mesh shakers.
- Rear mounted Wanderhose, 8 inch, hydraulically powered.
- Rear mudflaps.
- Rotatilt (with auto flatten).
- Supawash - high pressure washing system.
- Handlance, slim hose reel, and front spraybar
- Rear LED Work lights.
- Bonded Intake Duct.
- Additional 185 gal (700 liters) water tank.
- Mesh shakers, air operated cleaning system.

A range of options are available – contact us for more information.

** All Bucher Municipal Hopper Capacities are measured in accordance with European Standard EN 15429.

Subject to change without notice.

Scan for your free report



The 5 Things
You Must Know
Before Buying a
Street Sweeper

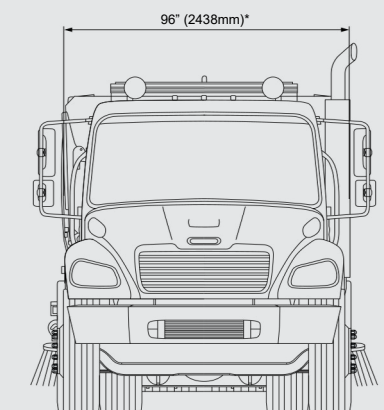
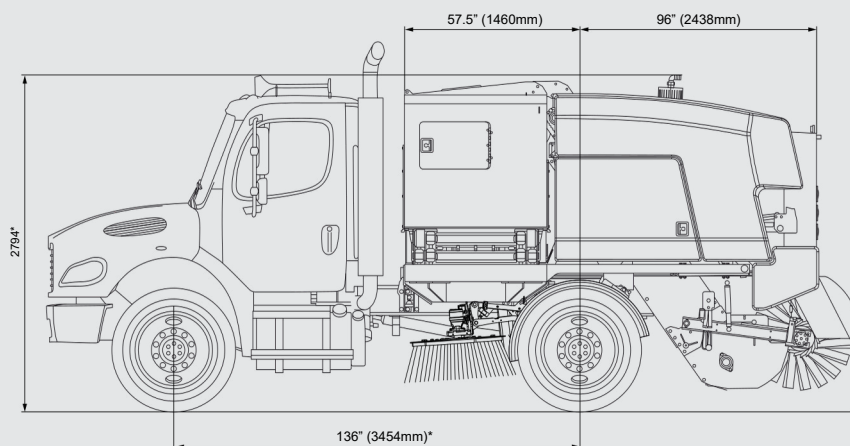
Bucher Municipal North America Inc.

105 Motorsports Road
 Mooresville, NC 28115
 Tel. +1 704 658 1333
 Fax +1 704 658 1377
 info.bmna@buchermunicipal.com

www.buchermunicipal.com

Driven by better

E35m



Dimensions

Length* (hopper and cowl)	272" (6908 mm)
Width*	96" (2438 mm)
Height*	110" (2794 mm)
Wheelbase*	136" (3454 mm) nominal
Sweep Path, Main Broom	58" (1470 mm)
Sweep Path MB & (1) SB	90" (2280 mm)
Sweep Path MB & (2) SB	120" (3050 mm)
Extended Reach	144" (3650 mm)

Noise level cab

<75 dB(A) generally (dependent on chassis selection).

Chassis

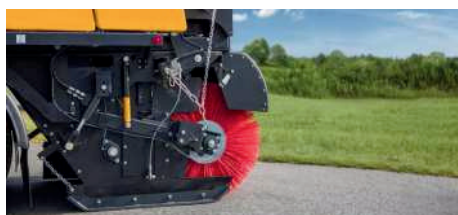
GVM 33,000 lb, class 7

Chassis engine

Cummins ISB 6.7	250 H.P.
Cubic capacity	408 cu in
No. of cylinders	6
Gross rated power	250HP @ 2200 rpm
Maximum torque	660 lb ft @ 1600 rpm
Aspiration	Turbo Charged
Transmission	Allison 3500 RDS
Diesel fuel tank*	50 gal (190 l)

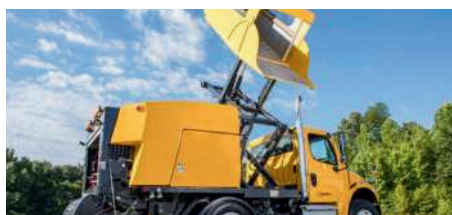
* Dependent on chassis and/or option selected

E35m



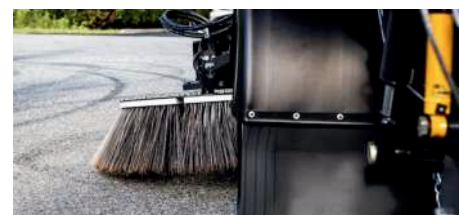
Main Broom

hydraulically driven polypropylene main broom with floating trailing arms.



Ultra High Dump

providing an additional 18 inch tip height ideally suited to transferring debris into a tipper truck.



Rotatilt

allows in-cab adjustment of the gutter brooms to suit the changing profile of the road.

E35m

Instrumentation/Controls

The Bucher E35m Mechanical Sweeper features a central cab mounted control panel with warning and information LEDs for;

- Low Hydraulic Oil
- Conveyor Stall Alarm
- Hydraulic Oil Temperature
- Hydraulic Oil Filter Restriction Indicator
- Low Water Alarm
- Hopper Up Alarm

All wiring is colour coded and numbered. All internal and external wiring conforms to IP65 and IP67 standards - waterproof and dustproof.

Powertrain

Utilising an Allison 3500RDS automatic transmission, a 10,000lb front axle and a 23,000 lb two speed rear axle the E35m sweeper and chassis are matched for optimal travel speed, sweep speed and payload performance.

Brushes

Gutter broom

44" (1100 mm)

Main broom

34.5" x 58" (870 x 1470 mm)

Drives

Direct coupled hydraulic motor

Sweep path MB & (2) SB

120" (3050 mm)

Conveyor Type

Squeegee, 12 Flights

Sweeping speeds

2-15 mph

Gutter Broom

Large 44 inch, hydraulic driven, leading arm, digger type, free floating Gutter Broom with in-cab adjustable speed and down pressure insure aggressive cleaning of curbs and gutters

Option for the dual brooms to extend out to achieve a 144 inch total reach to facilitate cul-de-sac and curve sweeping.

Main Broom

Aggressive 34.5 x 58 inch polypropylene tube main broom is direct hydraulically driven and attached to two fully floating trailing arms to allow for changing road surfaces.

Dirt Shoes

The sweeper can be fitted with standard T-Plate steel skid dirt shoes with carbide inserts or new maintenance free stripbrush type dirt shoes.

Conveyor/Elevator

Chain driven, 12 flight- squeegee type conveyor over polyurethane sprockets. The conveyor height can be adjusted from in-cab to accommodate different sweeping requirements. The conveyor bearings are sealed and self-aligning.

Hopper

Variable Dump Height Hopper is raised and lowered via a heavy duty; two stage scissors lift with hydraulic cylinders.

Hopper voided volume ** 4.6 yd³ (3.4 m³)

Discharge angle 50° nominal

Door opening angle 90° nominal

Fabricated from heavy duty stainless steel plate.

Inspection hatch accessible from outside.

All lift and dump controls are hydraulic and located in-cab. Lift capacity is rated at 12,000lb and hopper dump angle is 50 degrees for efficient off-loading of debris.

Hydraulic System

20 gallon hydraulic reservoir supplying oil to a variable displacement hydraulic pump in a load sensing hydraulic system.

All hydraulic valves are equipped with light emitting diodes to signal function and feature manual overrides. All hydraulics are centrally located in their own system locker for ease of access and maintenance.

Water System

A 360 gallon baffled, polyethylene water tank provides the necessary water to supply a run-dry centrifugal pump delivering water to multiple water spray nozzles, strategically located at each gutter broom and over the main broom.

Water capacity 360 gallons (1400 l)

A range of options are available – contact us for more information.

Subject to change without notice.

** All Bucher Municipal Hopper Capacities are measured in accordance with European Standard EN 15429.

FORTBRAND

NORTH AMERICA
50 Fairchild Court
Plainview, New York 11803
Telephone: 516-576-3200
Fax: 516-576-3221

E-mail: info@fortbrand.com

Bucher Municipal

For local contact
and support visit

www.buchermunicipal.com



FORTBRAND



Fortbrand Services is your complete source for airfield equipment.

Since 1983 Fortbrand Services has been providing rentals, leases, and sales of new and used airport equipment to Airlines, Airports, Ground Handlers, De-icing Companies, FBO's, MRO's, Into-Plane Fuelers, and Catering Companies.

Specializing in two subtypes of airport equipment, **Ground Support Equipment** and **Airfield Maintenance Equipment**, Fortbrand Services is your turnkey solutions provider to obtaining and paying for the equipment you need to run your operation today.

FORTBRAND

NORTH AMERICA
50 Fairchild Court
Plainview, New York 11803
Telephone: 516-576-3200
Fax: 516-576-3221

E-mail: info@fortbrand.com

Sourcewell 

Awarded Contract

Contract #093021-BUC