

# Explore the solutions **for airport applications**

A complete and sustainable machine range for all  
your airport sweeping and cleansing operations





# Over a century of **technical excellence** through innovation

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Providing sweeping and cleaning  
solutions to the aviation industry

Bucher Municipal brings together some of the most industry renowned brands from sweeping and cleansing manufacturers. Dating back over 100 years the roots of the Bucher Municipal brand encompasses industry leading expertise from Johnston, BEAM and Schörling resulting in a global team of excellence for airport sweeping and cleaning under one company and brand, Bucher Municipal.

At Bucher Municipal we take our role as market leader and pioneer seriously. Combining the heritage of our brands in combination with our employees' forward vision delivers a winning formula. This enables us to provide innovative products to sustainably support the aviation industry.

The Bucher Municipal core philosophy of innovation delivers products and services which go beyond the conventional to provide added value for our customers.

The foundation of innovation starts with our highly skilled research and development team who constantly evolve our products, integrating the latest technology and utilising state of the art software and simulation tools to deliver customer inspired specifications.

Determination and zero compromise from the entire Bucher Municipal team guarantees longevity of relationships with our customers and partners - Driven by better.





# Take your **performance** to another level

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A quality brand with sweeping and cleansing solutions designed to last



## **Sustainable solutions**

By leading the way on efficiency, electrification and use of alternative energy, we ensure your access to quality equipment designed to reduce CO<sub>2</sub> emissions, noise pollution, energy and water consumption. Enabling us to set new standards – together – and taking us one step closer to providing airport service equipment which has minimal impact on the environment and air quality.



## **Partnerships that are here to stay**

At Bucher Municipal, we are all driven by the same goal: to continuously improve sweeping and clearing solutions. That is why we work right alongside you, adapting to local requirements, learning how you operate and discovering what you need to deliver your best. We have delivered over 900 machines to airport customers in 80 countries during the last five decades, providing you with the peace of mind we are with you for the long haul.



## **Technology leadership**

We understand the importance of your operations and will transform your requirements into technology enabled solutions to create

better, more efficient working practices. It is why we constantly challenge industry standards: to develop groundbreaking, innovative technologies and find more efficient ways to help our communities run smoothly.



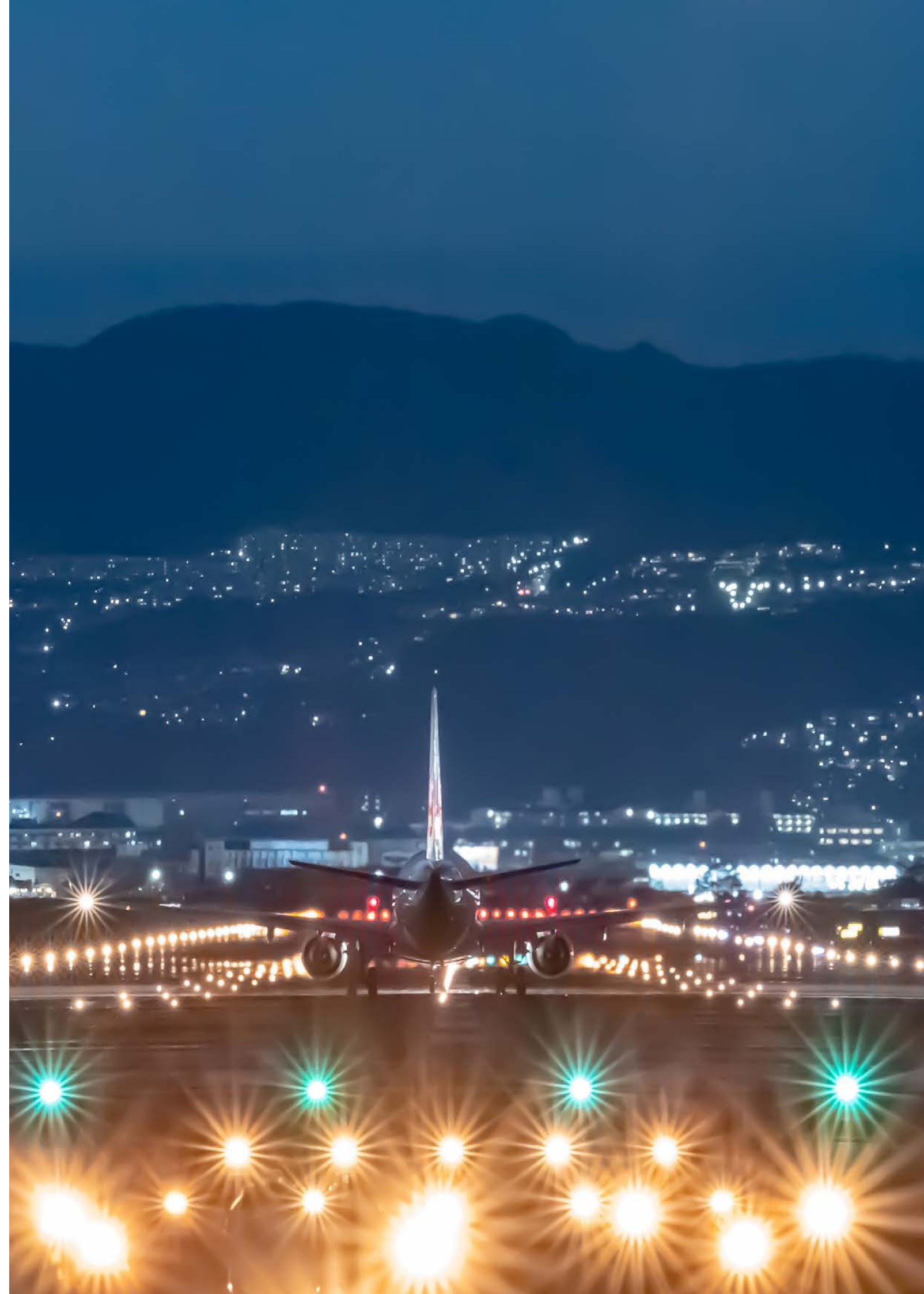
## **Superior product quality**

We understand airport operations require solutions designed with high quality and reliability in mind. Made in-house so that you can rest assured every piece of equipment in your possession has been tried and tested, based on our years' of experience working with airport sweeping and cleaning operations.



## **Reliable service**

With our comprehensive customer service and support network – backed up by the latest technology, intelligent vehicles and digital solutions – you can always rely on Bucher Municipal to help you solve any task. From carrying out regular maintenance, to maximising fleet uptime our skilled factory trained engineers and parts team are available to support your airport operations.





# Driving **sustainable** change through innovation

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## Harnessing the transition to electrification and alternative fuels

As the world becomes more environmentally conscious, the demand for alternative energy increases. For Bucher Municipal that means creating sweeping and cleaning solutions that do not just meet current needs, but which can prepare us for the low-carbon societies of tomorrow.

At Bucher Municipal, we take our role as market leader and pioneer seriously. Introducing new electrified solutions and developing technologies to support our increasing use of alternative fuels. This helps us guarantee constant delivery of high-quality customer focused equipment and reliable, future-proof solutions.

Over the years, we have introduced solutions such as:

- A fully electric truck mounted sweeper
- A fully electric sewer cleaner vehicle
- The second generation, all-electric, range of heavy-duty compact sweepers
- The world's first fully electric heavy-duty spreader

We take pride in driving the industry forward, adopting more sustainable practices and helping put large-scale alternative energies within reach of everyone.





# For every airport **sweeping and cleaning** task

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Take advantage of the widest range of airport sweeping and cleaning solutions on the market. From Europe's first quality and reliable electric truck mounted sweeper, to autonomous and versa-

tile compact sweeper. For every sweeping and cleaning task at the airport, both airside and land-side, we have a safety-conscious solution which will keep you operational whatever the conditions.



#### Compact sweepers

Manoeuvrable machines for sweeping inaccessible areas around head of stands and terminals

#### Truck mounted sweepers

Powerful truck mounted sweepers designed for high-speed runway sweeping and stand cleaning

#### Special truck mounted sweepers

Dedicated machines for stand cleaning and glycol recovery





## Technical specifications

### MaxPowa V95t aero

Hopper capacity	9.5 m <sup>3</sup>
Chassis GVW	18 - 20 tonne
Drive configuration	4x2 or 4x4
Maximum sweeping width	3400 mm
Maximum water tank capacity	4000 litres
Maximum operational sweeping speed	40 km/h
Auxiliary Engine (EU Stage V / EPA T4f)	210 kW MB OM936
Auxiliary Engine (EU Stage 3a)	205 kW MB OM906



## Bucher MaxPowa V95t aero

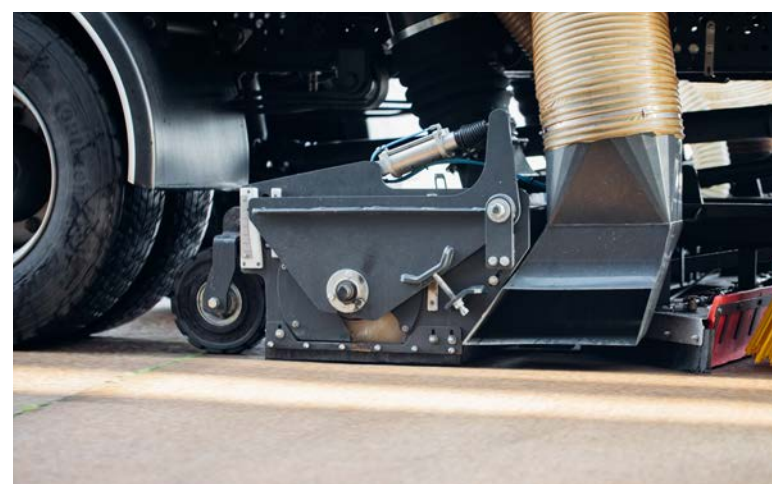
The Bucher MaxPowa V95t aero is renowned as the global leading, high speed runway and multi-purpose airport sweeper capable of sweeping your airport foreign object debris (FOD) free.

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

The Bucher MaxPowa V95t aero airport sweeper has been developed to provide exceptional performance with the lowest environmental impact, com-

bined with ease of use and low operational costs. With an impressive array of standard airport inspired features on the machine including full width multipurpose suction nozzles, side airblast nozzles and an easy to operate in cab mounted colour control panel. It's clear to see why the MaxPowa V95t aero has become the sweeping equipment of choice for numerous airports and military forces across the globe.

Many optional equipment features designed specifically for airport application tasks are offered on the Bucher MaxPowa V95t aero. From permanent magnet bars to high pressure water and detergent dosing cleansing options allow you to tailor the machine specification to your operational requirements.

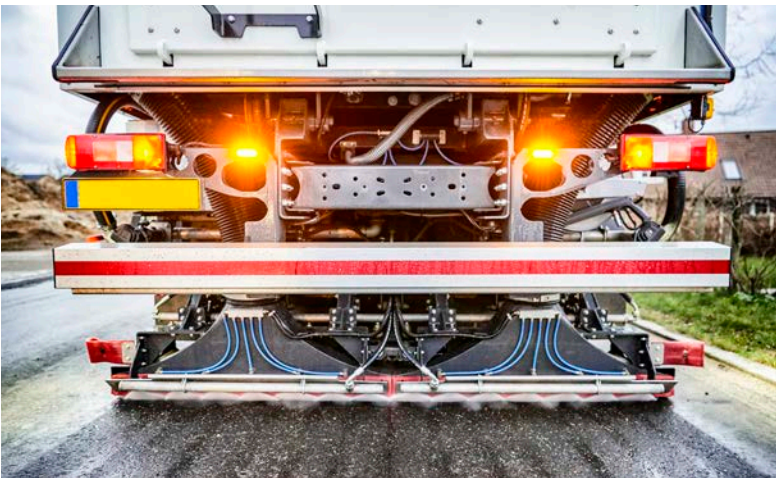






Technical specifications

	XPowa V90 aero	XPowa V120 aero	XPowa V140 aero
Hopper capacity	9 m <sup>3</sup>	12 m <sup>3</sup>	14 m <sup>3</sup>
Chassis GVW	18 tonne	26 tonne	26 tonne
Drive configuration	4x2	6x2*4	6x2*4
Maximum sweeping width	3500 mm	3500 mm	3500 mm
Detergent tank capacity	200 - 400 litres	200 - 400 litres	200 - 400 litres
Water tank capacity	2660 litres	3660 litres	4320 litres
High pressure water systems	100 - 400 bar	100 - 400 bar	100 - 400 bar

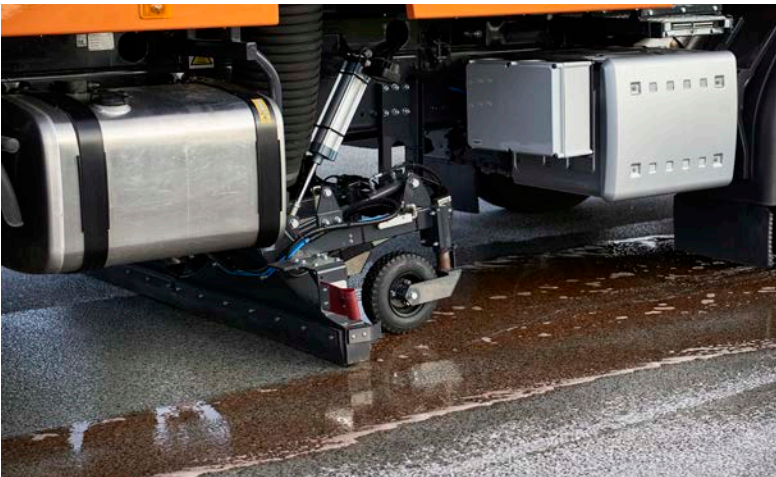


Bucher **XPowa aero series**

When it comes to maximising productivity, performance and capacity the Bucher XPowa series of machines provide a tailored solution for any airport. With various options and machine configurations designed specifically for airport cleaning tasks you will not find a more dedicated machine. Not only used to “simply clean the surface”, but also to remove glycol used in de-icing of aircraft, rubber left by aircraft tyres during landing and metal elements using a magnetic bar. Various hopper capacities mean whatever the scale of your airport, on station time can be maximised.

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 airport application tasks. To ensure you receive optimal performance with minimal environmental impact and a high return on investment.

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

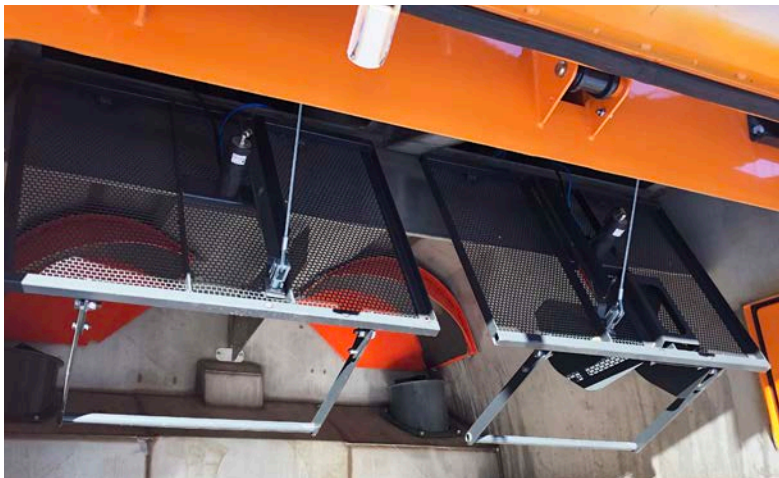






Technical specifications

	MaxPowa V65e	MaxPowa V65	MaxPowa V80
Hopper capacity	6.5 m³	6.5 m³	8 m³
Typical chassis GVW	16 tonne	15 - 16 tonne	18 tonne
Drive configuration	4x2	4x2	4x2
Maximum swept width	3600 mm	3600 mm	3600 mm
Water capacity	1545 - 2000 litres	1545 - 2000 litres	2300 - 4000 litres
Typical chassis layout	4x2	4x2	4x2
Drive	Electric (200 kWh - 600V)	Twin engine (HVO compliant)	Twin engine (HVO compliant)



Bucher **MaxPowa V series**

For routine sweeping and cleaning tasks in both airside and landside operations the Bucher MaxPowa V series is the perfect choice. The all electric Bucher MaxPowa V65e provides a zero tailpipe emission solution to help your operations achieve Net-Zero targets while reducing noise pollution and improving air quality making your airport a safer and more pleasant working environment.

The MaxPowa V series comes with some of the most innovative features found on any sweeper. The smoothflow air technology solution maximises efficiency and reduces energy consumption so operational costs and environmental impact are minimised while

maintaining maximum cleaning performance. Productivity is driven by efficiency, 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.

Standard features on the Bucher MaxPowa V series deliver great productivity. A wide range of options specific to airport operational sweeping and cleaning tasks are available to ensure your airport remains clean and safe. From permanent magnet bars to high pressure water jets and full width nozzles allow you to tailor the machine specification to your operational requirement.







Technical specifications

	CityCat V20	CityCat V20e
Type	R754EU6D, Euro 6d, 62 kW	electric, Li-ion
Battery/Fuel capacity	80 litres	63 kWh
Operating time	-	10 hours
GVW	4800 kg	4800 kg
Hopper capacity	2 m <sup>3</sup>	2 m <sup>3</sup>
Swept width	2700 mm	2700 mm
Turning circle (wall to wall)	7550 mm	7550 mm



Bucher **CityCat V20 series**

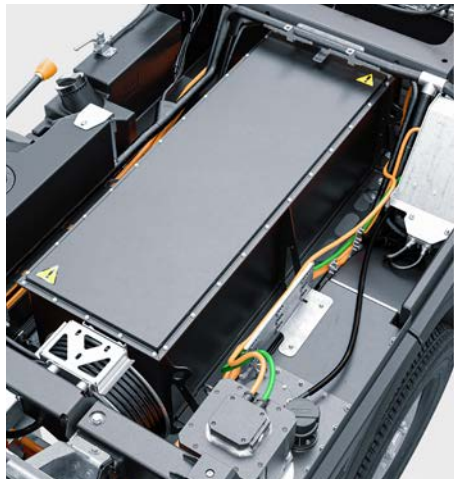
Not all airport sweeping is runways and large expanses of apron so where manoeuvrability and access into the tightest spaces are required the Bucher CityCat V20 offers the perfect cleaning solution. The CityCat V20 provides an unmatched combination of articulated steering and high visibility cab to allow access around the tightest areas. A state-of-the-art Euro 6 diesel engine, three brushes, maximum suction power and an energy-saving fan for outstanding efficiency. With its low fuel consumption, reduced exhaust emissions and low noise levels, it's obvious why this sweeper should be part of any fleet for airport cleaning operations.

The CityCat V20 with optional four-wheel drive

offers an even more robust solution for tough winter use. Combined with the Bucher Husky range of salt spreaders / liquid sprayers and optional front attachments such as a snow plough or snow roller brush, the vehicle masters every challenge from heavy snowfall to clearing slush.

In the CityCat V20e, we utilise a custom-designed battery pack with the capacity to last a full 10-hour shift. Powerful but respectful to its surroundings, the CityCat V20e can be used round the clock due to the impressive low noise emissions.

The CityCat V20e provides you completely emission-free operations with high vehicle utilisation and low cost of ownership.







Technical specifications

	CityCat 5006	CityCat VR50e
Powerpack	FPT, Iveco Euro 6, 118 kW	Li-Ion Battery, 137 kWh
Charging system	-	AC: 22 kW, 5-6 h / DC: 70 kW, 1.5-2 h
Working speed	0-20 km/h	0-20 km/h
Travelling speed	0-80 km/h*	0-50 km/h*
Climbing ability	up to 30 %	up to 30 %
GVW	10 500 kg / 10 400 kg (80 km/h)	10 500 kg
Empty weight	5500 kg / 5600 kg (80 km/h)	5800 kg
Payload	5000 kg / 4900 kg (80 km/h)	4700 kg

\* According to national legislation



Bucher CityCat 5006 & VR50e

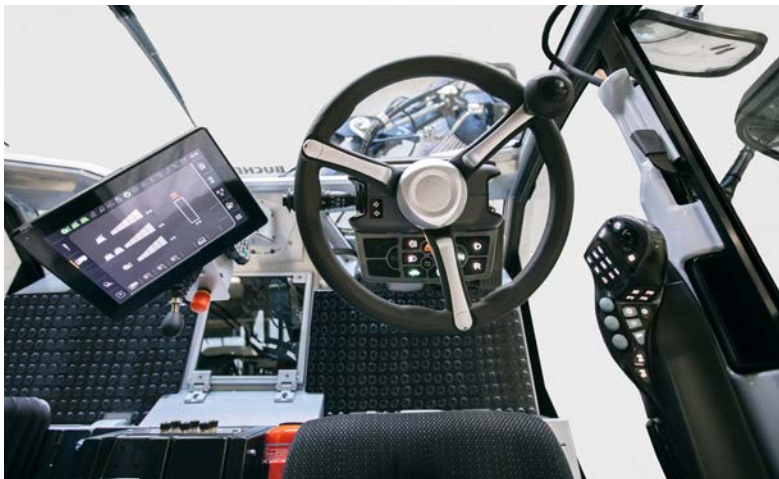
The well-proven Bucher CityCat 5006 finds its capable fully electrified successor in the Bucher CityCat VR50e setting a new standard for compact sweepers with its unique design and pioneering technology. These mid-sized road sweepers provide the best of both worlds; manoeuvrable and agile combined with heavy-duty suction and cleaning performance and four-wheel steering system. This provides a versatile machine for sweeping service access roads, heads of stands where large hopper capacity and compact agility are equally important.

The Bucher CityCat 5006 and CityCat VR50e deliver on performance. They have the appetite of a large truck mounted sweeper, the functionality of a multi-season vehicle and the manoeuvrability and unrivalled operator visibility of a compact sweeper.

The completely redesigned cab including the Smart-Con operating system offers the operator maximum comfort and safety while providing a modern workplace.

On the Bucher CityCat 5006 power is supplied by a high performance and economical HVO compliant 118 kW Euro 6 diesel engine. The all-electric Bucher CityCat VR50e is powered by a 137 kWh Bucher Battery Pack which provides the capacity to complete a full 10-hour shift.

With the 5.6 m³ hopper, 880 litres of fresh water and an optional water recirculation feature, both sweepers achieve increased on-station time, enhancing productivity and reducing running costs.







### Manufacturing efficiency

Bucher Municipal's investment in manufacturing facilities and up-skilling the workforce ensures efficiency, guaranteed quality and a sustainable process. Whether its laser cutting, folding, welding or painting all of our manufacturing processes are focused on low environmental impact and high quality. This is endorsed by our independently assessed ISO 14001 and ISO 50001 accreditations.

### Assembly process

Each and every one of our machines is manufactured with care and precision to ensure quality. From production planning, to pre-despatch inspection every process is focused on quality and efficiency, ensuring the end product is perfect for the customer. Our accreditation to ISO 9001 and ISO 45001 are testament to the detail and control of our production systems.



## Innovation and Engineering

Providing products which push the boundaries to deliver more productivity with lower cost of operation and superior reliability is no easy task. So how do we achieve our goals?

### People

Bucher Municipal invest in the best engineering people to create a team who go the extra mile. Training and development of engineers provide the team with key skills to deliver simply great products to you.

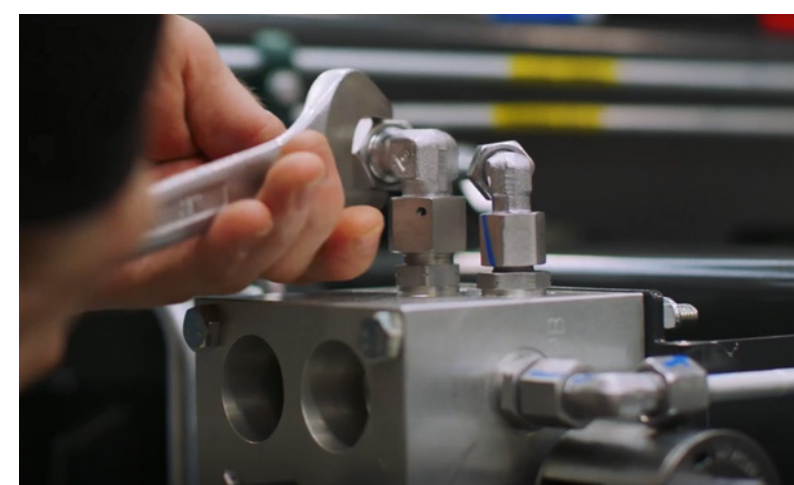
### Engineering simulation

Our R&D engineers utilise state-of-the-art simulation tools and aerospace technology to test ideas repeatedly, perfecting designs for efficiency and durability. Using processes such as computational

fluid dynamics (CFD), finite element analysis (FEA), and 1D simulations, today's engineering processes ensure Bucher Municipal's products exceed your expectations. The advantage to our airport clients is our equipment will perform consistently and efficiently.

### Testing and validation

In addition to simulations, product testing is an important element of the development process. Whether it's a test rig to accelerate real-life working conditions or putting a machine through its paces on aggressive machine proving ground surfaces, all our products go through rigorous testing to ensure the performance and reliability meet our client's high requirements.





Customer service -  
ensuring **uptime for**  
**your airport** operations  
with on-site support

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## Parts & Logistics

We only supply quality genuine parts in order to maintain peak performance and guarantee 'right fit, first time'. Our industry-leading parts supply system is designed for easy online ordering and rapid delivery, and is supported with a no-hassle returns policy.

### E-Shop

Our internet based order management system enables easy online ordering, 24/7. Check spare parts availability, prices and place orders for a fast delivery to significantly minimise downtime.

### Expert Parts Advisors

Our experts are on hand to assist and ensure that the correct part is ordered.

### One-Stop-Shop

All of your parts needs in one convenient location.

### Fast Despatch

With over EUR 20 million of stock holding in our strategically located global warehouses, with fully barcoded inventory management system, enables all orders to be despatched fast.

### 12-Month Warranty

All genuine parts supplied by Bucher Municipal include 12-months warranty.



# Get Connected

Bucher Connect is a holistic after sales solution. A leading fleet management system, with comprehensive care and a digital platform for your repair and service planning – all in one simple package.

Using Bucher Connect makes the daily workload much easier for owners and managers of any fleet size. Our all-inclusive service offers targeted support and services for street cleaning and clearing operations, to minimise downtime and costs through the optimal efficiency of vehicles and equipment.

## One connection **Many benefits**

Combining a digital platform with the complete after sales service, Bucher Connect has everything you need to operate your fleet at its best. It can be perfectly tailored to your needs through five different packages, as well as additional services and products.

### Digital platform

Featuring two components, our «Fleet» module displays current machine positions, error messages with repair suggestions and important vehicle parameters, while «Service» takes care of all your repair and service needs.

This is supplemented by the two role-specific modules: «Jobs» and «Analytics». On a road map, route planning and road sweeps are marked in different colours for easy handling, with individual tracks via the address search.

### «Fleet» for a detailed overview

- Current vehicle status and GPS position to give an overview of the fleet and detect potential breakdowns early
- Automatic fault alerts and digital support to enable quick resolution
- Service reminders for efficient workshop planning

### «Jobs» for route planning and monitoring

- Digital cleaning report instead of manual operating logs and «On the route» KPIs for track

### «Analytics» for fleet optimisation

- Optimise uptime for improved fleet productivity
- Optimise energy demand for improved sustainability and lower costs
- Easy reporting of vehicle data

### «Service» for repair and service planning

- Access to the e-shop, workshop manuals and maintenance plans for optimal service
- One touch point for all your repair and service needs

### Maintenance and repair

The maintenance and repair service enables you to focus on core business. Your maintenance partner carries out maintenance in accordance with factory specifications and uses trained service technicians, supporting you in procuring spare parts and providing remote support to reduce downtime.

### Digital spare parts procurement

- Proactive service announcement
- Automatic service parts delivery to end-customers
- Time savings and prompt delivery for efficient workshop operation

### Certified service

- Certified service and repair work for optimal fleet availability
- Comprehensive service and repair contract for predictable financial planning

### Technical training

- Technical vehicle training
- Efficient vehicle use and higher first-time fix rate

### Remote support and diagnostics

- Reduced downtime for optimal fleet use



## Bucher Municipal



For local contact and support, please scan the QR code or visit

[buchermunicipal.com](https://buchermunicipal.com)

At Bucher Municipal, we innovate and engineer better cleaning and clearing solutions, helping our customers grow and maintain efficient and profitable businesses. Leveraging the over 200-year-old heritage of Bucher, we are committed to helping you achieve more using less. Taking pride in being seen as a reliable partner, we work locally with you in realising the possibilities for a smarter, cleaner and more efficient tomorrow. Today.



Your Bucher Municipal contract partner:

**Driven by better**



Bucher  
Municipal  
E-Shop