



BUCHER
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Innovating safety and sustainability for airports



Mike Moore

Bucher Municipal leads the way in innovative, high-performance airport sweepers, delivering reliability, safety, and sustainability to keep airside operations running smoothly, now and into the future.

Working alongside customers and the Bucher Airport Team, I see firsthand the dedication and challenges of keeping airport operations running smoothly, safely, and sustainably.

As we move through 2025, airport operations continue to evolve, and so do the technologies that support them. From advanced collision prevention systems to fully electric, high-performance sweepers, innovation is at the heart of everything we do at Bucher Municipal. We take pride in developing solutions that truly make a difference.

Whether it's deploying the largest MaxPowa V95t aero airport fleet in Europe, supporting Riga Airport in upgrading their fleet with the MaxPowa V95t aero with our partner Alwark, or introducing new technology like SafeSweep on the CityCat V20e, our focus remains on delivering equipment that enhances efficiency while meeting evolving environmental targets.

Reliability is critical in airport operations, and I want to assure you that we're not just here to provide industry-leading vehicles, we're here to support you every step of the way. From expert training to dedicated after-sales service, our team is committed to keeping your fleet performing at its best.

Looking ahead, I'm excited about the innovations on the horizon and the opportunities to work even more closely with you. Let's continue driving progress together!

A handwritten signature in black ink, appearing to read 'Mike Moore', with a horizontal line drawn through it.

Mike Moore
Global Key Account Manager – Airports

Bucher Airport Team – on tour!

Connecting with our customers and sharing our latest innovations is key for us. The past couple of months have seen the Bucher Airport Team actively engaging through events, providing on-the-ground training overseas, and hosting valuable training sessions for visitors.

Training in Dorking

The beautiful island of Barbados has expanded its airport sweeper fleet with another Bucher MaxPowa V95t aero. This latest addition was facilitated by our partner, GC Brasil Varredeiras, who operate throughout Central and South America, bringing innovation and efficiency to airport operations. In March, John welcomed team members from Barbados Airport and GC Brasil Varredeiras to our Dorking site for comprehensive operator and maintenance training.



Partner training

We were thrilled to host our partners from Terberg Natec NL and ITM Belgium for 2 days at Dunsfold airfield. The visit included a vehicle walk-through and in-depth product training. This hands-on training is invaluable for partners and operators providing expert insights and a closer look at the latest MaxPowa V series models.



AirportsUK annual dinner

Both Mike Moore and Dan Taylor attended the most anticipated event in the aviation calendar, the AirportsUK annual dinner on 18th March. The event provided a great opportunity to connect with visitors, share insights and discuss how we support the industry with efficient, innovative and sustainable solutions.

Oman what a trip!

John Alvey, the Bucher Airport Team's technical support and training specialist recently travelled to Muscat to deliver extensive training on the MaxPowa V95t aero for both the airport team and the local partner.



SWIFT

Find Bucher at Swift 20-21 May,
London Heathrow Marriott Hotel
Tickets available [swifteurope.org](https://www.swifteurope.org)

Largest V95t airport fleet enlisted to the BwFuhrparkService GmbH

BwFuhrparkService GmbH, the fleet service provider of the German Armed Forces, awarded the contract for 62 Bucher MaxPowa v95t aero special sweepers to Bucher Municipal in April 2022 after a lengthy and competitive three-year tendering process.



The German Armed Forces has the largest fleet of runway sweepers in Europe and has opted for the latest innovation in the field of airport sweepers for the fourth time. The last machines were delivered at the end of 2024 and put into operation for airfield operations.

The Bucher Municipal MaxPowa V95t aero sweepers are known for their high-speed runway performance and multi-purpose airport cleaning and clearing, critical for keeping military bases FOD (foreign object debris) free. The Bundeswehr's leading airport sweeper fleet will also double as snow-clearing machines. The

specialised options included on the machines for this prestigious project were developed as a collaboration between the customer, Bucher Municipal's project team in Hannover, Bucher Municipal's Dorking-based engineering team and Mercedes Benz. The output was a suite of distinct interfaces for the fleet, enabling the mounting of existing snow-clearing equipment to the front and rear of the machines to maximise performance, together with a heated water tank.

During the winter season, the Bucher MaxPowa V95t aero multi-function sweepers with their 4-wheel drive chassis and rear-mounted designed distinct future-

Bucher's Municipal's Dorking-based engineering team designed distinct interfaces for the fleet, mounting snow-clearing equipment to the front and rear of the machines to maximise performance...

ready interface facilitate the connection of an Øveraasen RS 200 MK III towed runway sweeper. This enables the Bucher high-speed aero sweeper to transform into a highly effective and efficient snow-clearing machine.

The 62 units were assembled in a recently built, sustainable production facility on Bucher Municipal's Dorking site. A dedicated team of highly skilled production staff have been responsible for the assembly of the specialist machines with support from the onsite engineering team. In addition to being a record order of MaxPowa V95t's, it's the first time this sweeper has been mounted on a 4-wheel-drive chassis since the production move from Denmark to the UK, further showcasing the flexible manufacturing capability of Bucher Municipal. Following the completion of the main machine build in the UK, bespoke elements such as camera systems, radio preparation,



central lubrication system and livery were installed at Bucher Municipal's Hannover facility before the V95t's were delivered to BwFuhrparkService GmbH.

Jens Beiße, Bucher Municipal Sales, comments: "We are pleased to have completed the full delivery of the V95t airport sweepers. Throughout the delivery process, we conducted comprehensive functionality checks and implemented machine optimisations. Our team then provided training to vehicle operators and workshop teams, ensuring they are fully equipped to operate, maintain, and care for these advanced airport sweepers."



Airports are dynamic environments. The constant flow of aircraft, vehicles, passengers, and ground crew creates complex challenges for maintaining safety and cleanliness. Bucher's CityCat V20e offers a smart solution, combining cutting-edge collision prevention technology with a fully electric, zero-emission design to improve both safety and efficiency in airport cleaning.

Beyond the runway:

Innovating safety standards with SafeSweep

Facing the unique cleaning challenges of airports

Airports are some of the busiest and safety critical environments in the world, with thousands of vehicles, passengers, and ground crew moving through them every day. Maintaining cleanliness and safety around that constant activity creates complex challenges:

Heavy traffic With high volumes of vehicles and footfall, cleaning must be efficient and frequent.

Diverse environments From multi-story car parks to tight service roads and busy pedestrian walkways, each area requires a different approach.

Safety concerns Operating cleaning equipment in close proximity to people and vehicles demands next-level safety measures.

Sustainability pressures Airports are committed to reducing emissions, making zero-emission solutions a must.

Balancing these demands while keeping operations smooth and efficient provides the perfect opportunity to employ smart technology. Bucher Municipal has been working on harnessing the latest technology to provide significant benefits to many cleaning applications, particularly relevant to airports:

Smarter cleaning, safer airports with SafeSweep

The SafeSweep collision prevention system, exclusive to the CityCat V20e, is a game-changer for improving safety within airport cleaning operations. Designed specifically for complex environments, it gives operators real-time awareness of their surroundings, helping to prevent accidents and improve efficiency.

How it works:

360° awareness SafeSweep utilises multiple lidar sensors to create a comprehensive 360° view of the sweeper's environment. This allows operators to see everything around the vehicle, including pedestrians, vehicles, and obstacles, even in challenging conditions with poor visibility.

Real-time alerts The system provides both visual and audible warnings to the operator if a potential collision is detected. This gives the operator crucial time to react and take corrective action.

Automated safety intervention In critical situations, SafeSweep can automatically slow down or even stop the sweeper to prevent a collision, adding an extra layer of safety.

Reduced operator stress With continuous awareness and automatic assistance, operators can focus on cleaning without worrying about potential hazards.



The collision prevention system redefining safety standards

The benefits of SafeSweep go further:

Improved safety Reduces the risk of incidents, keeping both personnel and equipment safe.

Greater efficiency Minimise downtime and disruptions, ensuring cleaning operations run smoothly.

Boosts operator confidence The system's comprehensive awareness capabilities give operators greater confidence in navigating complex and busy environments.

Supports sustainability goals With reduced downtime due to increased safety whilst contributing to the airport's sustainability objectives.

The Bucher CityCat V20e is an all-electric powerhouse designed specifically for high-demand environments like airports.

Zero emissions, full performance Powered by the 80kW Bucher Battery Pack, the V20e delivers a full

10-hour shift on a single charge, with fast recharging in just 2-3 hours.

Exceptional manoeuvrability Articulated steering and a compact design make it ideal for tight spaces like pedestrian zones and service roads.

High-performance cleaning A floating suction intake and wide suction pipe deliver powerful debris removal, while adjustable water jets provide effective dust suppression.

Reduced maintenance With durable components and a stainless steel hopper, downtime is kept to a minimum.

Smart-con operating system Intuitive controls and a spacious, comfortable cabin make long shifts easier for operators.

Safety built-in Equipped with disc brakes on both axles, hill-hold assist, and outstanding visibility, keeping the operator in full control.

Cleaner, safer, and more sustainable airports start here Airports never stop moving, and neither should their cleaning operations. The CityCat V20e with SafeSweep system, means fleet managers can raise safety standards, improve efficiency, and cut emissions, without compromising on performance.

Ready for action? With the right equipment, maintaining a clean, safe, and sustainable airport environment has never been easier. Contact your key account manager to discover how the CityCat V20e can help your airport achieve more and ask about taking up the offer of a one week demo.



Keeping airports running with expert support



John Alvey Assists Airport Operators and Technicians with expert training and technical support



At Bucher Municipal, we understand that keeping airport operations running smoothly requires efficient, high-performing equipment and reliable support. That's where our dedicated technical support team comes in. AeroFocus spoke with John Alvey, one of our Technical Support and Training Specialists, to give us an insight into his role at Bucher.

"Based at our Dorking factory and working within the technical support team, I specialise in providing technical support to operators and technicians for our airport-specific truck-mounted sweeper, the MaxPowa V95t aero. I'm on hand to help fleet managers and their teams of operators and technicians maximise the performance, reliability, and longevity of their Bucher vehicles and equipment.

Ensuring seamless support from day one

From the moment an airport orders a MaxPowa V95t aero sweeper, I get involved. Working closely with our Product Manager and Key Account Manager, I establish direct contact with the customer to plan their support and training journey. Being based at the factory gives me a unique advantage to oversee the entire build process.

Once the unit is complete and dispatched, I arrange for on-site support at the customer's location. This involves travelling to airports worldwide to provide hands-on training for operators and technicians. Recent trips have taken me to Luxembourg, Qatar, Latvia, and Oman, where I've worked closely with airport teams to ensure they have the skills and knowledge to operate and maintain their new sweepers effectively.

Delivering hands-on training for maximum efficiency

When I arrive at an airport, training sessions begin with in-depth technical and operational briefings. I support both our distributors and customers providing training to operators and workshop/maintenance staff to ensure they understand how to get the best performance from their sweepers. Training includes:

- **Operator training** – Ensuring operators get to know the ins and outs of how to use the sweeper effectively.
- **Daily checks and routine maintenance** – Helping operators spot potential issues early to prevent downtime.
- **Hydraulics, pneumatics, water, electrical and vacuum systems** – Providing technicians with the knowledge they need to carry out routine repairs and keep the machine in top condition.
- **Consumables management** – Advising on essential parts like lubricating oils and filters, brushes, water jets, pick up unit rubbers and tyres to ensure ongoing performance.

This hands-on approach helps fleet managers avoid unexpected operational disruptions and empowers their teams to handle routine maintenance confidently.

Ongoing support beyond the initial training

Our commitment to customers doesn't stop after the initial training session. I stay in close contact, offering continued support and troubleshooting as needed.

The moment an airport orders a MaxPowa V95t aero sweeper, I get involved.

Customers and our local distributor partners appreciate that we're not just selling a product, we're providing a complete support package.

Thanks to communication tools like WhatsApp video calls and Teams, I can provide real-time guidance, helping teams resolve issues quickly by visually assessing the situation and walking them through solutions step by step. This ongoing support ensures that operators and technicians have a trusted point of contact whenever challenges arise, providing peace of mind and reducing potential delays in their operations.

Building strong customer relationships

One of the most rewarding aspects of my role is the strong relationships I build with our customers. When I travel to provide training, I'm always welcomed warmly, and customers are eager to share their culture and experiences. This mutual respect strengthens our partnerships and reinforces the value of face-to-face interactions.

Customers and our local distributor partners appreciate that we're not just selling a product, we're providing a complete support package. Whether working directly with airport teams or liaising with local distributors, we ensure that

everyone involved has the knowledge, skills, and confidence to maintain Bucher machines in peak performance.

The value of expert support in airport operations

For airport fleet managers, having reliable, efficient equipment is just one piece of the puzzle. Having expert support to ensure smooth operations is equally crucial. Through comprehensive training, ongoing support, and strong customer relationships, we help airports worldwide keep their airside environments clean and operational without disruption."

With Bucher Municipal, you're not just investing in high-quality equipment, you're gaining a dedicated partner committed to your success.

For all your training needs please contact your local sales manager or should you have any technical queries, John and the technical team are on hand to support you.

Contact: technicalplus@buchermunicipal.com



Riga Airport's sustainable sweep:

A case study in fleet modernisation

Riga Airport (RIX), poised to become an emerging hub of Northern Europe, has recently made an upgrade to its operational equipment fleet, demonstrating its commitment to both operational efficiency and environmental sustainability.

With ambitious expansion plans, including a new passenger terminal and the RIX Airport City development, RIX sought to modernise its ground operations with a high-performance sweeper, selecting the Bucher MaxPowa V95t aero through an open tender awarded to our partner, Alwark, a leading provider of industrial equipment solutions in the Baltic States.

The need for a new sweeper arose from the airport's Sustainability strategy, which aims to achieve Net Zero by 2035 through a series of measures. This includes replacing the airport's existing fleet to more sustainable and efficient alternatives. "The requirements were very simple," explained Tomas Samulionis at Alwark, "their ageing machine was no longer meeting the sustainability targets or operating efficiently. The decision was that they needed a more advanced machine that adhered to Euro 6 requirements and CO₂ regulations." Beyond mere replacement, RIX required a versatile machine capable of handling diverse tasks, including sweeping runway and apron areas, glycol collection after de-icing, and ferrous FoD collection, all while adhering to stringent environmental regulations.

The Bucher MaxPowa V95t aero, with its substantial 9.5 cubic metre hopper, powerful suction, and efficient water consumption, emerged as the ideal solution. The open tender process highlighted the V95t's competitive pricing and technical compliance, solidifying Alwark's position as a trusted partner, backed by their extensive experience in providing municipal and airport equipment.





By choosing a partner who can provide rapid, effective service, airports can ensure their equipment remains operational, minimising downtime and maximising efficiency.

Alwark worked closely with the UK-based Bucher Airport team, providing swift technical support and necessary adjustments as part of the implementation and set up process. Their proactive approach and strong technical expertise played a crucial role in delivering an efficient transition for RIX's ground operations.

Training was a crucial component of the project. As mandated by the tender, operators underwent a two-day training program conducted by Bucher's John Alvey, covering both operation and daily maintenance. Alwark's service team also received comprehensive maintenance training, ensuring long-term operational support. "The equipment build is operator-friendly," Tomas noted, making for a smooth transition for the airport's team.

Enhancing efficiency and looking ahead

The Bucher MaxPowa V95t aero has significantly improved RIX's operational efficiency. The advanced control unit and improved suction performance have streamlined cleaning tasks, contributing to the airport's overall productivity. While direct comparisons with the previous equipment are challenging due to its age, the technological advancements are evident.

Alwark's advice to other organisations considering similar upgrades emphasises the importance of thorough market analysis and investing in advanced, environmentally friendly solutions. "These sweepers operate for a minimum of 10 years, so it's critical to invest in the most advanced solutions available for longevity," Tomas advised.

The key to long-term success: reliability and support

Beyond technical specifications, reliability and robust after-sales support are paramount. "A trusted, knowledgeable partner to provide post-sales technical support is the most important factor," Tomas stressed. By choosing a partner who can provide rapid, effective service, airports can ensure their equipment remains operational, minimising downtime and maximising efficiency.

Riga Airport's experience highlights the importance of strategic fleet modernisation in achieving operational and environmental goals. By selecting the MaxPowa V95t aero and partnering with Alwark, RIX has taken a significant step toward realising its vision of becoming a leading, sustainable aviation hub.

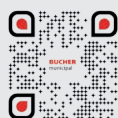
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Focusing on functional
engineering, environmental
integrity, people's needs and
continuous innovation.



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

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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.



Driven by better



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Technical data is subject to change without prior notice.
The illustrations may deviate from standard equipment.