

THE AUTONOMOUS STREET SWEEPING MACHINE S1



BUCHER
municipal

BASED ON WORLD-CLASS SWEEPING TECHNOLOGY FROM BUCHER MUNICIPAL



The Autonomous Environmental Service Vehicle (AESV) 'S1' from ENWAY is based on the CityCat 2020 EV by Bucher Municipal and makes street sweeping more sustainable, safer and efficient.

Technical Specifications

- 8 hours sweeping range and 2.5 hour charge time
- Equipped with 3D LiDAR sensors and cameras for localisation, curb following and traffic navigation
- Sweeping speed of up to 12 km/hr
- Vacuum-based debris collection system
- Autonomous docking and hopper emptying
- Remote monitoring and route planning
- Cyber security functions

Performance

- **Zero Carbon emission and less noise:** Fully electric and lower ambient noise output compared to conventional sweepers
- **Improves productivity:** Operations can be shifted to late nights/early mornings, avoiding rush hours and optimises road usage
- **Efficient and flexible:** System allows for dynamic route planning and remote operation to ensure S1 can handle all situations it encounters
- **Precise cleaning:** Ability to autonomously sweep along the kerb that allows for highly effective cleaning of heavy debris areas
- **Safe and secure:** S1 is cybersecure to guard against malicious attacks on its sensors and actuation systems

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