



Rail Wash Systems case study brochure

Train washing for the world's first three storey depot

Siemens are one of the world's largest industrial and automation manufacturers. As a key partner in the construction of Singapore Land Transit Authority's (LTA) new East Coast Integrated Depot (ECID) project, Siemens employed Wilcomatic to design and install specialist train wash machines.

The world's first combined, three storey depot

The ECID in Singapore will be the world's first multi-storey train and bus depot, combining three existing depots into one complex. As land is expensive and sought after on the small island, the LTA initiated the project to save approximately 44 hectares of land which would then be used for other purposes. Construction began on the almost \$2bn build in 2016, with an expected completion date of 2024.

Siemens were awarded the tender to provide electrical and industrial equipment for the project. Having just completed a project with Wilcomatic in Malaysia, and having received thirteen successful wash systems around the world, Siemens approached Wilcomatic to work with them on the ECID. Wilcomatic provided a quote and were awarded the project over worldwide competition.





Detailed configuration and sophisticated design

The ECID was a unique project for Wilcomatic, requiring three separate, fully automated wash systems that would meet the specific requirements for the LTA's different train models and lengths. Two machines will be installed in tunnels, making the design even more challenging.

Wilcomatic compiled a detailed, technical specification and design of the machine which was put forward to the Land Transit Authority as part of Siemens' tender. The LTA found Wilcomatic's proposal matched their requirements, which helped cement their preference for Siemens as their equipment provider.

Meeting unique requirements

Able to handle a continuous 24/7 processing of trains, the machines wash with sprays and brushes to provide a unique solution, and fully dry each train before it exits the wash programme, both of which were key requirements from the LTA. An extensive water recycling system also needed to be specially designed for handling the substantial number of trains.

The project is ongoing and installation is scheduled for 2022-23. Once complete, the depot will be home to around 200 trains and 550 buses. If you are looking for more information about rail wash systems and want to discuss options, please get in touch sales@wilcomatic.co.uk.



Wilcomatic Rail specialises in the design and maintenance of wash systems for trains, trams and monorails. We're globally accredited by Bombardier and supply wash systems and other associated depot equipment to some of the biggest organisations in some of the busiest locations around the world.

abellio

BOMBARDIER

HITACHI

SIEMENS



VolkerRail

1 Proven worldwide

We've deployed more than 40 wash systems in national rail depots around the world. We have train washes day-in-day-out everywhere from New Zealand and Australia to the Far East, Middle East and Brazil.



2 Cutting-edge train wash technology

The highest standards, guaranteed

Our train wash systems consistently outperform those from other manufacturers. They clean better, they're quicker and use resources more efficiently. They are uniquely adaptable for all types of rail transport;

- High speed systems
- Light / heavy metro
- Trams
- APMs
- Mono-rail System

3 Remote diagnostics

We use sophisticated cameras and sensors to detect issues before they become a problem. We can identify faults, record wash counts, log service calls, generate performance reports and test various functions remotely and in real time through either ADSL or a 4g connection.



4

Not just wash systems

We supply and maintain other train technology, including;

- Controlled emission toilets (CET)
- Lubrication systems
- T-system satellites
- Pump stations

5

Chemicals and brushes

Maintaining stock levels of consumables such as wash chemicals and brushes can be difficult to manage. We'll deliver everything you need to keep train washes running everyday without fail.



6

Worldwide management and safety accreditations

We're an ISO accredited company that actively supports and works to the quality, safety and environmental systems of ISO 9001, 14001 and 18001. In addition we also hold RISQS accreditation.

7

Huge worldwide support network

In addition to our 65 strong UK-based maintenance team we work closely with an extensive network of engineers and maintenance partners across the world to deliver the levels of support you'd expect from a local team. We are able to provide remote monitoring for our train wash systems across the world from both our UK and Indian maintenance centres and are able to provide a full range of spare parts and technical support to anywhere across the globe.

Need a hand? Ask the experts.

Wash systems are complicated.
Get in touch with us to find out
what we can do for your business.

[Contact us](#)