



FIRST-CLASS SANITATION SERVICES

Wastewater disposal,
water supply and cleaning systems
for train depots



YOU CAN RELY ON IT

**Quality, experience and
expertise guarantee trouble-free
passenger train services**

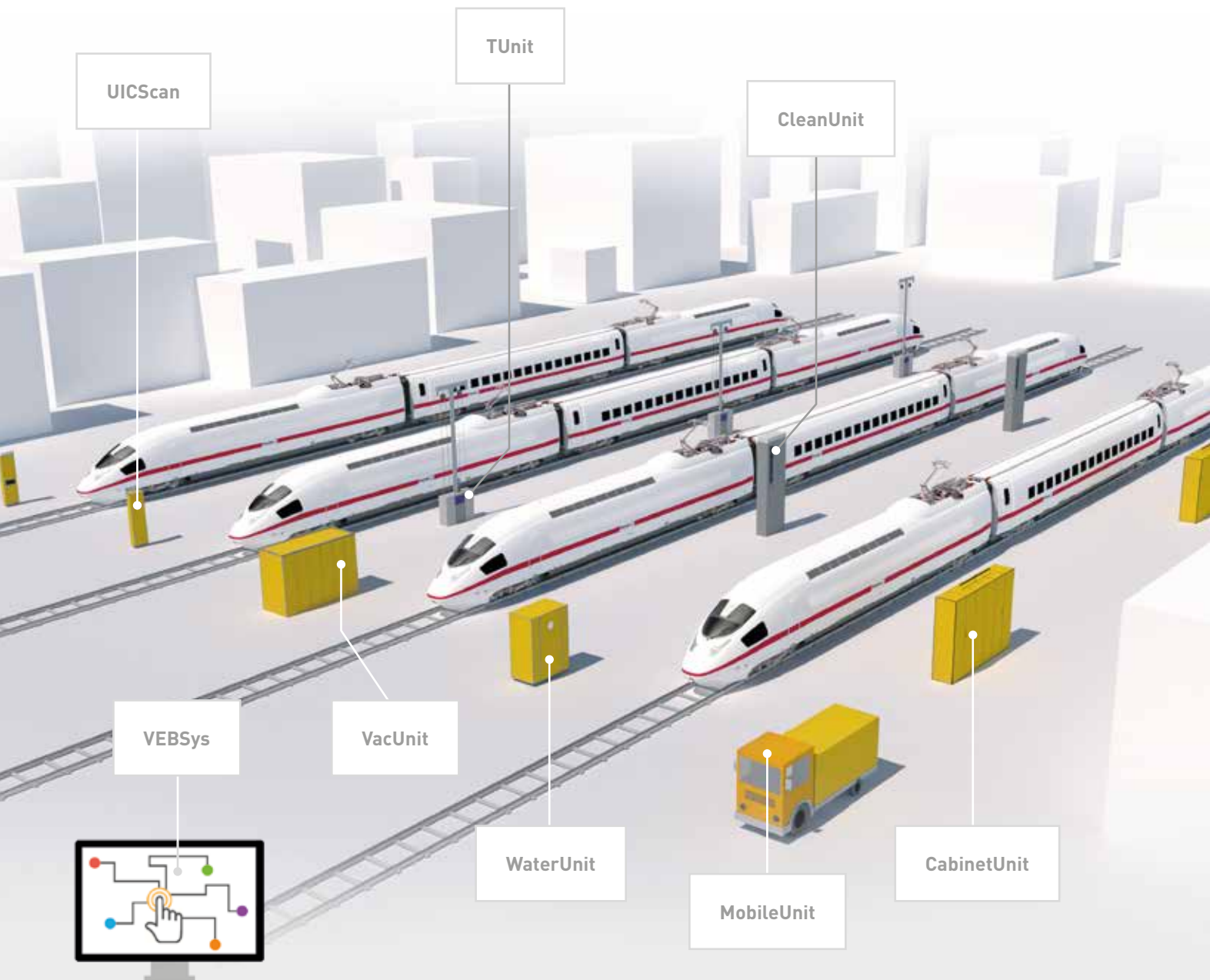
As the inventor of the elastomer-coated rotary lobe pump, Vogelsang has numbered among the world's leading mechanical engineering companies in the area of wastewater management for decades – be it municipal sewer systems or the public transport sector. Which is why renowned national railway companies like Deutsche Bahn and the Austrian ÖBB have learned to trust the outstanding quality and effectiveness of our pumping technology.

Based on our extensive and varied experience, as well as our ongoing research, we develop water supply and disposal concepts that ensure smooth and economical operations. Both the production process and quality of our machines testify to how seriously we take our commitment to providing our customers with the very best. Vogelsang pumping systems and cleaning facilities for railway companies embrace all matters of hygiene as well as customer-specific issues such as the respective toilet technology, typical weather conditions or automation requirements. And to meet the demands of the service personnel, our stand-alone, network and mobile pumping solutions, as well as our interior cleaning supply units, are safe and easy to handle.



TRAIN CARE DEPOTS & STABLING SIDINGS

Typical applications for a multi-point installation capable of handling high vehicle throughput with simultaneous operation of multiple disposals and water supply systems including interior cleaning facilities for long train formations



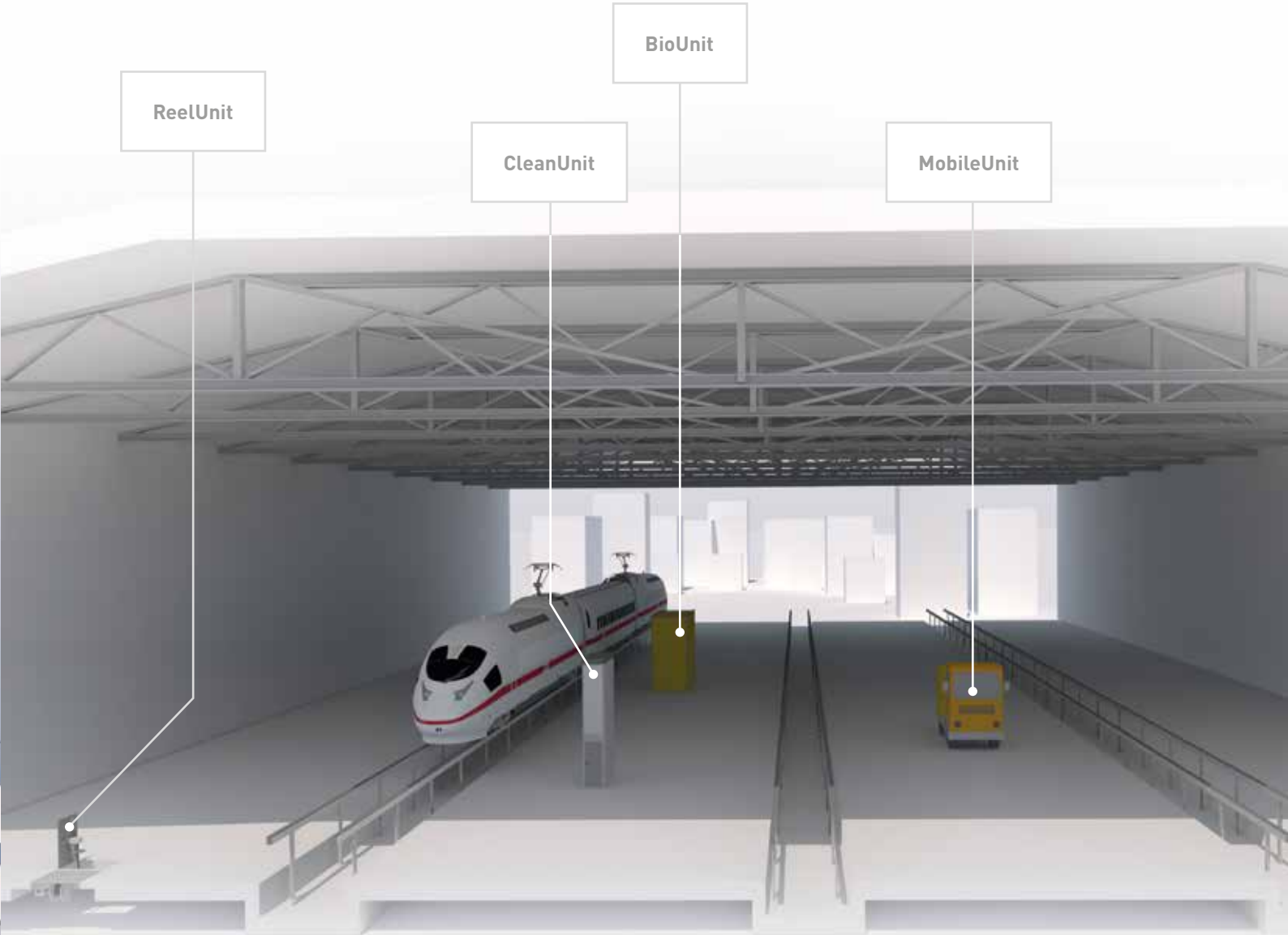
WORKSHOPS & FUELING STATIONS

Typical applications for a single-point installation providing toilet disposal and water supply services as well as interior cleaning facilities for short train formations



HEAVY MAINTENANCE & REPAIR CENTERS

Typical applications for indoor installations providing wastewater disposal and water supply systems complementary to existing heavy maintenance and repair facilities



Vogelsang technology for railway applications



VacUnit

Vacuum pump station formed by one or two Vogelsang rotary lobe pumps including a fully automatic control. Its compact design and high availability offers maximum performance. It works as a central pump station in vacuum wastewater collection systems. The totally closed multiphase pumping concept requires no bulky vacuum tanks or extra wastewater pumps.



TUnit

Vacuum wastewater disposal and water supply station in the most compact design. It can be used in a multipoint network connected to a VacUnit or as a stand-alone system with an integrated rotary lobe pump. All units include easy and comfortable high-level hose management with an automatic hose retraction system.



CabinetUnit

Vacuum wastewater disposal and water supply station in a cabinet design. It can be used in a multipoint network connected to a VacUnit or as a stand-alone system with an integrated rotary lobe pump. Interior cleaning facilities can be combined with the modular CabinetUnit as well as compact on-site storage.



ReelUnit

Hose reel-type water supply or vacuum wastewater disposal unit. When used as disposal unit the ReelUnit is combined with a stand-alone or multipoint VacUnit. It is a very compact solution and can be installed in an outdoor or indoor environment, and either on or under the floor. A special model of the ReelUnit can be provided for very narrow installation requirements.



MobileUnit

Versatile wastewater disposal solutions for mobile train care services: disposal trailers, handcarts or self-propelled vehicles. All of them combine high capacity with a compact design and can be offered with a lightweight transport tank. As no vacuum tank is needed, the MobileUnit can be ready to use instantly.



BioUnit

The BioUnit is a special cleaning facility for the automatic disposal and cleaning of bioreactor-type toilet collection tanks. The BioUnit can be provided as a mobile or stationary solution; all stations include high-pressure cleaning and vacuum extraction as well as chemical descaling facilities.



CleanUnit

The CleanUnit offers all interior cleaning service facilities for railway coaches, buses or other public transport vehicles in a compact cabinet. There are different options available, for example an integrated storage, hot and cold water as well as cleaning agent dispensing units. The cabinet can be provided with heating systems for cold weather conditions.



WaterUnit

Water storage and treatment solutions to allow for a safe and reliable water supply. The WaterUnit can be used for process water, drinking water and non-potable clean water supply at train care depots. Options such as water storage and break tanks with automatic boost pumps, backflow prevention units, water softening and disinfection facilities are available upon request. WaterUnits are available as complete containerized plant rooms or in a compact cabinet design.



Online monitoring

The VEBSys controls in real time all the elements of the train depot and transfers the operating data live to an online control center. Information can be displayed on a web-based Internet portal or can be transferred to a local control center. Another option is the UICScan, an automatic vehicle identification system in railway infrastructure applications.

What we offer

We provide solutions in the following sectors:
AGRICULTURE, BIOGAS, INDUSTRY,
TRANSPORTATION, WASTEWATER



Our broad range of products and services

- Consulting and service
- Data management and control technology
- Disintegration technology
- Individually tailored solutions for special applications
- Pumps and pump systems
- Solid matter feeders
- Solids reduction, separators and mixers
- Spreading technology
- Supply, disposal and cleaning

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