

***System  
integrators  
for the  
modern,  
global  
railway  
industry***

[www.trainvac.com](http://www.trainvac.com)



By 2030 the global train market is expected to **double**





# ***The challenge***

To meet the increased demand, train operators and builders need to guarantee the availability of on-board vacuum toilets for more trains and passengers than ever before.

**Problem:** Insufficient know-how and capacity can hold up production, cramp passenger satisfaction and impact your bottom line.

**Solution:** Trainvac is a team of experienced specialists providing turnkey, integrated sanitary solutions for trains in any required quantity.

Availability guaranteed.

# Passenger comfort first

If you've been in the rail transport business for as long as the Trainvac team members, you will realise that the market has taken on a new dynamic. In the past, safe transportation and on-time arrivals were the focal points of the rail industry.

Today, safety and punctuality are just the expected minimum. Passengers expect more than transportation. They demand outstanding customer experience. At a time where even a train toilet can be rated online and affect the image of the biggest railway brands, train builders and fleet owners need to act – or miss the pot.





***Trainvac Compact***

***“This product delivers the highest level of train availability”***

# *A full product range eco-system*



**Vacuum toilet  
Compact**



**Vacuum toilet  
Central System**



**Toilet module  
structures**



**Cabin door  
systems**



**Control and  
communication  
systems**



**Water and waste  
systems**

# Rock solid



## **Vacuum toilet - Compact**

Readily available, quickly fitted. Minimal downtime. The most compatible toilet system for trains.



## **Vacuum toilet – Central System**

Allows you to connect a number of toilets to a single vacuum tank. It offers an extremely reliable and robust system. It is also very cost-effective, using only one tank.



## **Toilet module structures**

Trainvac's practical and adaptable cabin modules comply with the latest standards. We only use fully validated components and sub-systems from partners that are market leaders.



## **Cabin door systems**

We offer a wide range of different cabin door solutions in collaboration with our partner.



## **Control and communication systems**

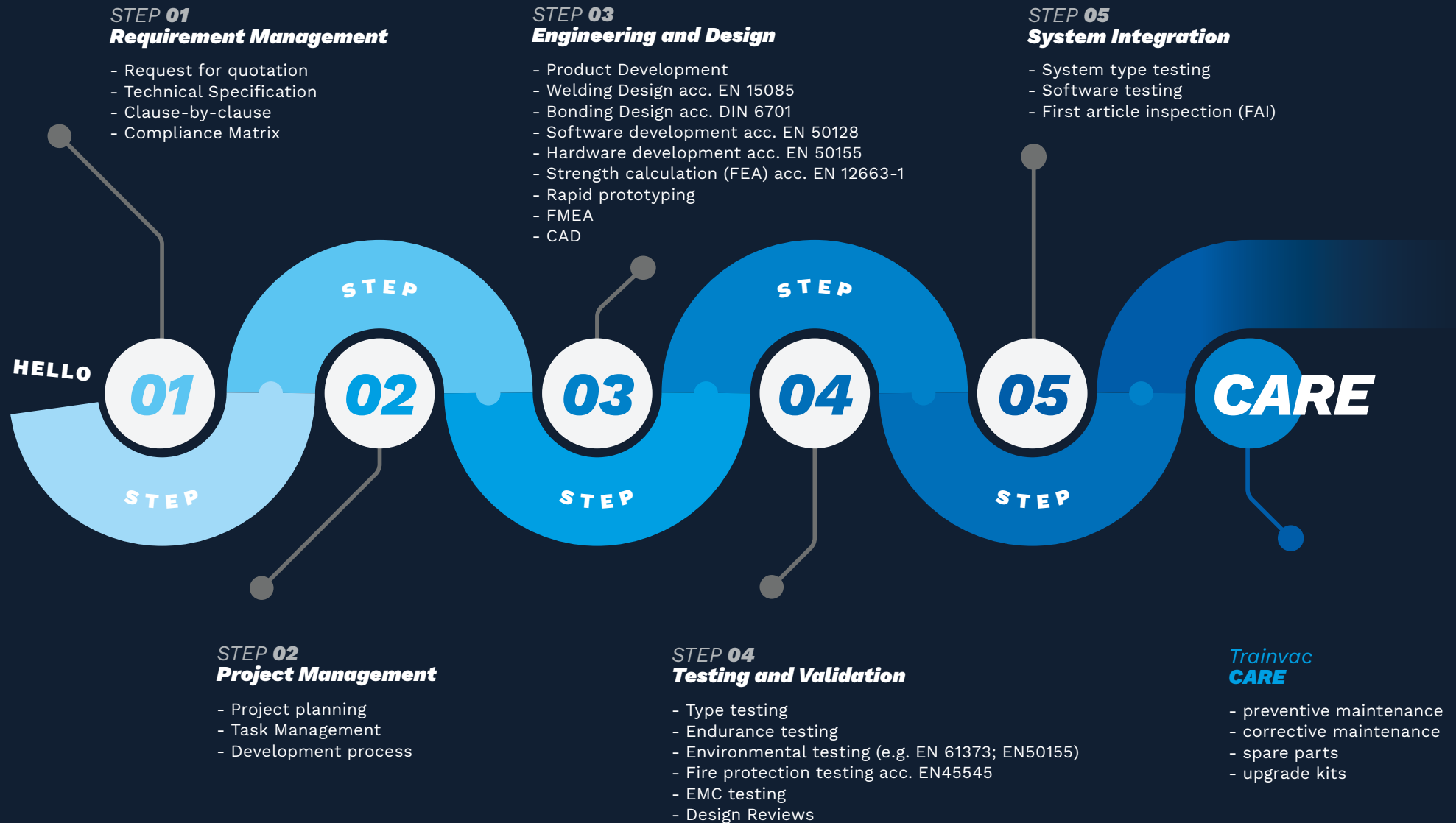
Our integrated toilet cabin system controllers have all the module functionalities you could need. Our future-proof system controller, developed in 2020, features the latest high-performance processor.



## **Water and waste systems**

Rolling stock designs differ, depending on the make and model. That's why Trainvac offers a range of water supply systems as well as fresh and waste water tanks to suit different installation conditions and requirements.

# Integration sets us apart





# We wipe your sanitary problems with a smile

***Trainvac has your back.*** From defining sustainable requirements all the way to project management, rapid prototyping and stress testing, you can count on us.

With a future-oriented mindset, the experienced Trainvac team delivers powerful solutions that scale at the speed of your need.



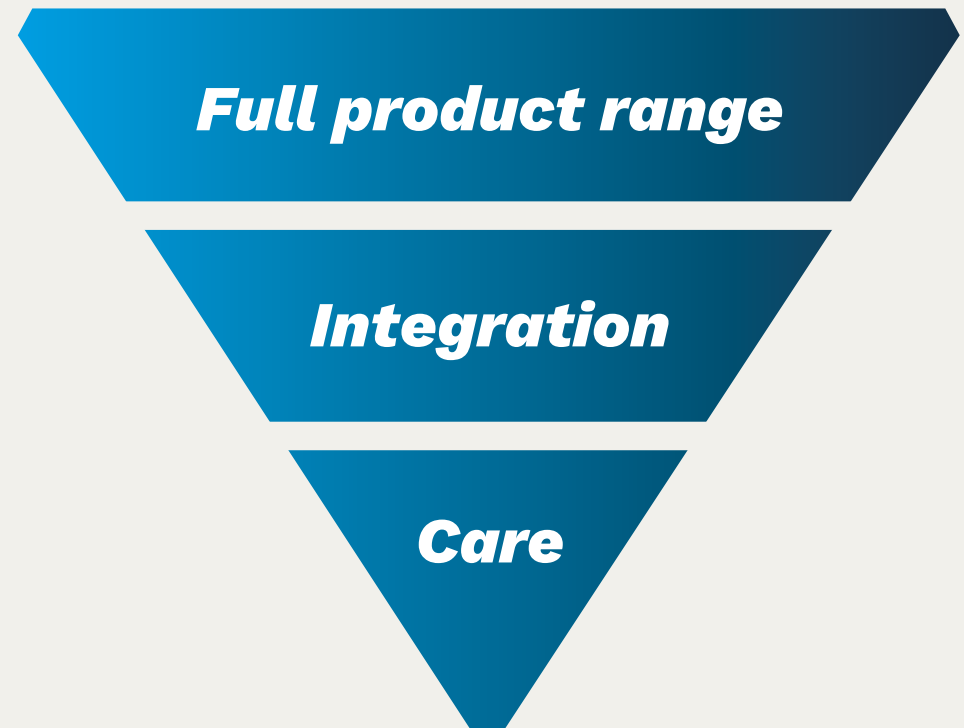
# ***Turnkey sanitary solutions***

Think of Trainvac as your international partner in providing integrated solutions for onboard toilet systems.

We're a one-stop shop, supplying everything you require in vacuum toilet systems.

From new train builds to servicing your sanitation system for the lifespan of your train.

Besides developing and providing our own core products, we have partnerships with key system suppliers, each a market leader in their field.



***Integration that scales***



***Think sh\*t!***

Maximize comfort on board every train worldwide.

“Our small module, **UNIC large**,  
is the result of systems thinking.  
It’s universal, and easy to use,  
scale and connect.”

**Michael Nych**, Research and Design



# Small, and **UNIC large**



- State-of-the-art touch display
- Digital I/O 32/32
- Analog I/O
- Webserver enabled
- Ethernet interfaces
- CAN interfaces
- Datalogging / Realtime clock
- Full compliance to intl. railway standards

**Every train fleet is different.** So the integration flexibility of the sanitary control system is key.

Trainvac's brand new system controller with unprecedented performance and versatility. Plus, the touch display keeps all functionality entirely transparent - and ready-at-hand.

# *Why Trainvac*

If you prefer

- ***to outsource specialist engineering services***
- ***scalable integration***
- ***systems thinking***
- ***reliable, sustainable technology***
- ***and agility...***

we should be working together.



# You may value our way of working



## ***We maximize.***

The Trainvac CARE program is our initiative to maximize product life and increase the reliability and long-term operation of your fleet and reduce your total cost of ownership.



## ***We encourage.***

Benefit from a collaborative exchange of know-how and ideas to build reliable and sustainable technology.



## ***We team.***

When we founded Trainvac we were motivated by freedom and the fun of creating great work in a cool team. Our staff and clients enjoy our work culture.

***Great work, cool team.***

# *Integration that scales*



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We foster the economy



Regional Economic Programme: Funded by the European Union – European Regional Development Fund (ERDF), the Federal Government and Land Schleswig-Holstein

**Schleswig-Holstein**  
Der echte Norden