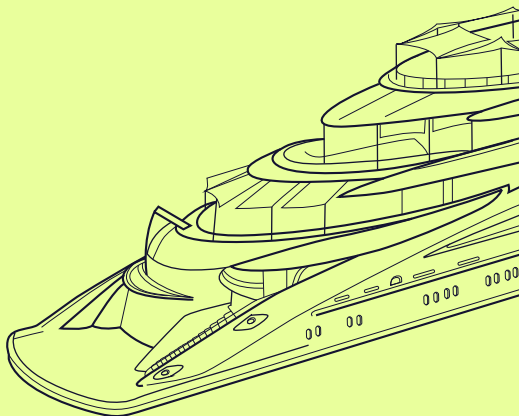


# besecke



smart  
automation

Smart automation and systems  
for maritime applications



Minimum input,  
maximum impact



**Set a course for the future:  
with automation**

Hello! We're besecke, and we're here to guide you through the rough waters and send you sailing into a safe, secure and smart future.

Because with our technology, your vessels use only as much energy as they actually need. And operating them is easier than ever thanks to intelligent, data-driven technologies.

Turn the page to see how our smart solutions can make you even smarter.

Talk to an expert who speaks your language:



Maritime team  
+49 421 63 69 80  
sales@besecke.de



Smart automation and systems  
for maritime applications



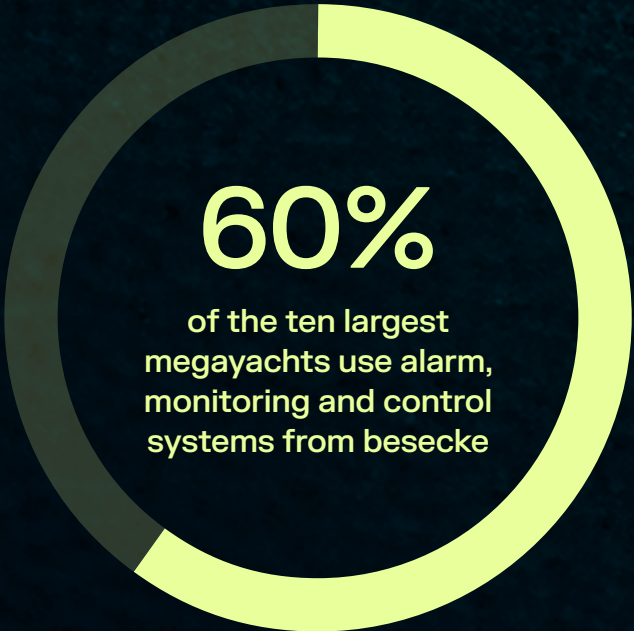


## Navigation

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About us Vision, milestones and philosophy	8
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Turn this brochure over to read about  
our solutions for industry



### Smart solutions for maritime applications

# We're experts in maritime efficiency

Want a partner who has automated 60% of the world's ten biggest megayachts?

We've been developing cutting-edge solutions for maritime vessels for years – from the switchboard cabinet to high-end control systems.

Our software easily monitors up to 20,000 individual measuring points. So you can operate your vessel in a whole new way: with data. It's smarter and more convenient.

We're happy to offer everything you need from a single source. And serve as your general contractor.

Turn the page to explore the possibilities.





## AllViu – Your vessel on a digital dashboard

### be\* VISION

Scalable alarm, monitoring and control system for up to 20,000 individual measuring points. Monitors the status of electrical systems on board – including motors and generators. Alerts you to irregularities.

### be\* SECUR

Security system for megayachts: sophisticated monitoring of the ship's exterior, interior and surroundings. Reports intruders, detects drones and controls access to individual areas by way of a door access and control system.

### be\* SAFE

System for clearly indicating the status of all fire zones, detectors and dampers as well as exterior doors and hatches. Reports irregularities affecting the ship's hull, such as fire, water ingress or open dampers.

### be\* WATCH

BNWAS – Bridge Navigational Watch Alarm System. Wheelmark-approved and DNV-certified. Automatically generates multiple levels of alarms and communicates through the on-duty system. Suitable for all types of vessels.

### be\* MOTION

Helicopter approach system: Displays roll, pitch and heel. Controls landing lights. Flexible and adaptable to all conditions and requirements.

## Training

### AllViu system training course

Know your stuff. Benefits: minimal downtime, fast error detection and troubleshooting plus lower service costs.

# 10.000 m<sup>2</sup> on a single dashboard

AllViu is a monitoring system for all readings and statuses on board.

Through the dashboard, your crew can monitor all critical functions at once – from energy management and fire protection to exhaust damper controls and the pH level of the swimming pool.

•  
Intuitive, level-of-detail interface

•  
Individual display options with widgets

•  
Modular, decentralized system structure / infrastructure

•  
User-specific logins with personalized layout

## Power distribution and energy systems

### MarESiS

For new construction and retrofits: Maritime energy simulation for optimized design of electrical and hybrid ship systems.

### Maritime power distribution solutions

Systems for efficient power management: Construction and in-house production of everything from switchboards to panels, UPS and motor starter systems to hybrid systems.

## Turnkey

We operate as your general contractor to create fully customized solutions for your new build or refit project. We're reliable and we're with you at every turn – from selecting systems to installation to sea trials.



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AllViu – Your vessel on a digital dashboard

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be SAFE

System for clearly indicating the status of all fire zones, detectors and dampers as well as exterior doors and hatches. Reports irregularities affecting the ship's hull, such as fire, water ingress or open dampers.

# The smart way to navigate: with data

With simulation and intelligent analysis, your vessels use only as much energy as they actually need. In combination with our control cabinets, the AllViu automation solution delivers smart, autonomous power distribution management.

Maintenance & retrofit

Premium retrofit

We'll bring your on-board systems up to the latest state of the art. That includes both hardware and software. From the control cabinet to the security technology to the latest version of AllViu. For you, that means lower costs for maintenance and spare parts.

AllViu service and maintenance

Your contract includes a regular system checkup and guarantees fast response. With an attractive pricing model.

Control cabinet cleaning

Professional cleaning with dry ice – no need to shut the system down. Prevents system failure caused by buildup or overheating.

Power distribution and energy systems

MarESiS

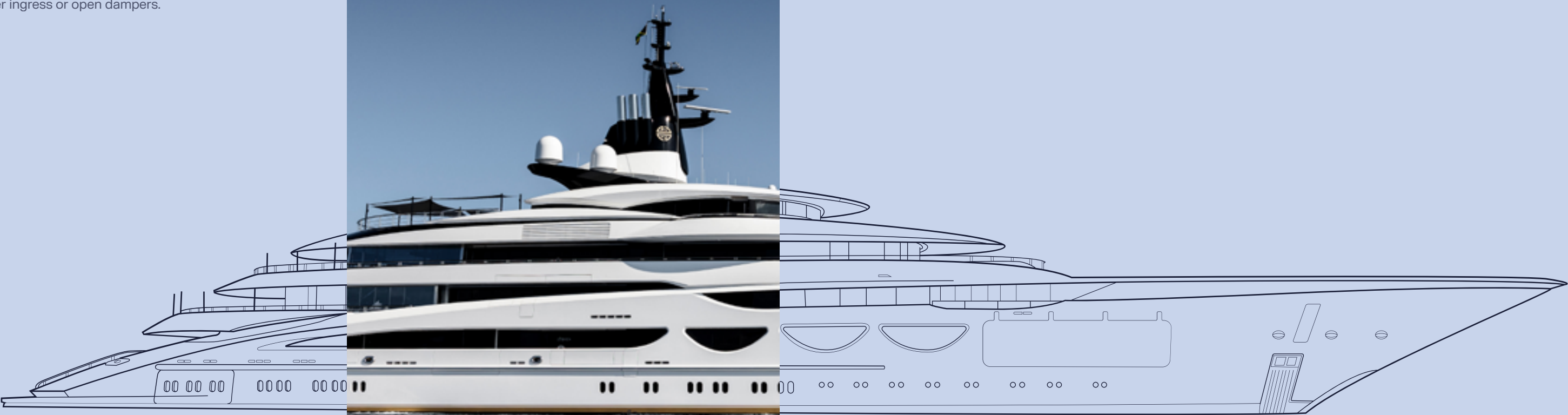
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# Before. After. Smarter.

## Process



### Consultation

We identify which solutions your vessel needs and whether additional items make sense.



### Engineering

We produce all documents – from the schematic diagram through to final documentation. We develop algorithms, programs and the visualization of your boat's systems.



### Production

We build complex power distribution systems – from the smallest panel to the main switchboard. We make bridge racks, consoles and automation cabinets, too.



### Installation

Our colleagues in the shipyards build our systems into the vessels.



### Commissioning

Parameter-setting and testing ensure that our systems will operate efficiently when your ship is underway.



### smart!

## Focus



### Yachts

Our modular AllViu systems are designed to fit any size yacht from 20 to 180 meters. They increase convenience, security and efficiency on board. The integrated energy management system uses hybrid solutions to reduce energy consumption and environmental impact.



### Authority and special-purpose vessels

Our software products allow you to automate highly complex operational sequences on board. We implement all systems customized to your needs. Our solutions are extremely robust and reliable – even for LNG-powered vessels.



### Maritime vessels

Our products meet the highest quality standards and norms, even stringent military standards. We deliver lightning-fast remote support and on-site service worldwide to maximize system performance.







» We've been building maritime systems to meet the needs of the most exacting customers for more than 20 years. Our experienced technicians design, manufacture and install bespoke solutions. We never stop growing our knowledge and expertise and we deploy smart technologies to ensure the highest levels of reliability and longevity. «



besecke  
Maritime team

LÜRSSEN

AIDA

MEYER WERFT

N·V·L

Blohm + Voss AG

VIKING  
FLUSSKREUZFÄHRTEN



NEPTUN WERFT



BURGESS

ABEKING & RASMUSSEN

Y.CO

N·V·L  
PEENE-WERFT

730

control cabinets built and  
installed each year

47

AllViu systems installed  
on megayachts

250

PLC systems  
installed each year

65,000

meters of cable laid per vessel







## About besecke

# 75 years of innovation towards smarter thinking

Founded in 1948 as an armature winding company, we are now Northern Germany's leading provider of automation and electrical engineering.

More than 170 employees at our manufacturing plant in Bremen and our research facility in Rostock deliver to customers around the world.

### 2003

New Maritime Systems business unit is established, specializing in power distribution, alarm and monitoring systems for yachts and special-purpose vessels.

### 2004

besecke enters the maritime industry, building switchgear and control gear for the electrical equipment and implementing the alarm and monitoring system (AMS) on three megayachts.

### 2006

besecke delivers the electrical technology and the AMS of the private sailing yacht EOS, the largest of its kind at the time.

### 2013

The Rostock site is established as an engineering and project management office and research facility.

### 2021

besecke takes over the Hamburg-based startup dintegra. This strengthens besecke's IoT and SaaS operations and expands its software portfolio.

### 2024

We implement a large-scale project as general contractor for all electrical equipment on three LNG-powered authority vessels.





besecke

# On our own, we're smart...

Rotate this brochure 180° to find out about  
our solutions for maritime applications



## Our mission

We aim to be a top employer and to become the leader in energy efficient automation for production plants and maritime vessels by 2027.

To achieve our ambitious goals, we'll need a strong team. So, we want to be the best employer there is.

## What drives us

The most efficient energy is the energy you don't use. That's why we automate production plants and maritime vessels. So they use only the energy they actually need.

For that to work, everything we make has to be built to last. Because that saves resources. And when systems are driven by data, they use resources wisely.

## Our values



smart



fair



open



# ...together, we're brilliant



Rotate this brochure 180° to find out  
about our solutions for industry





On our own,  
we're smart...

Rotate this brochure 180° to find out about  
our solutions for maritime applications



# Our



## smart service

We are not necessarily  
smarter than others. We  
simply have greater tenacity  
to understand the problem.



## smart operations

Automate what can be  
automated. So we have more  
time for the work that really  
matters.



## smart people

We employ people who make  
us smarter.



## smart mindset

We believe there is always an  
even smarter way to do things.



## smart relationships

We believe in the power of  
partnership. On our own, we're  
smart. Together, we're brilliant.

For us, smart means always  
developing the most efficient way  
of doing things. But that doesn't  
mean we make it easy for our-  
selves - we make it easy for you.

# Philosophy



Rotate this brochure 180° to find out  
about our solutions for industry



...together,  
we're brilliant





On our own,  
we're smart...

Rotate this brochure 180° to find out about  
our solutions for maritime applications



## Work at besecke

### Vocational training with a bright future

We see it as our duty to pass our knowledge and expertise on to the next generation. This is why we train our own electronics technicians for automation, power engineering and building systems in-house. Additional vocational training opportunities are listed on our website.

### Family-friendly

We encourage a good work-life balance. And we can be flexible when you need us to be. Whether it's working from home, using flexible working hours or planning your parental leave. Our family-friendly policies were even recognized by the Bremen city council.



Discover how we work. Visit our blog at  
[besecke.de/en/blog-posts/](https://besecke.de/en/blog-posts/)



Join our team:



**Human resources**  
+49 421 63 69 80  
[karriere@besecke.de](mailto:karriere@besecke.de)



...together,  
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about our solutions for industry





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Founded in 1948 as an armature winding company, we are now Northern Germany's leading provider of automation and electrical engineering.

More than 170 employees at our manufacturing plant in Bremen deliver to customers around the world.

### 1970

We relocate to today's headquarters in Bremen and add industrial automation to our portfolio.

### 1983

We implement PLC systems and process visualization systems from Siemens for the first time.

### 1989

Now a wholly owned subsidiary of the Lürssen Group, besecke remains an independent electrical engineering company with a focus on the manufacturing industry.

### 1995

besecke earns ISO 9001 certification. We've passed all recertification and customer audits since then.

### 2017

New manufacturing and testing facilities at headquarters. besecke sets new standards of quality and output.

### 2023

besecke completes comprehensive retrofits – on fuselage production systems at Airbus and other projects for customers in the food and beverage industry.





» One third of our employees work in the Industry business area. Having our own design and software divisions as well as our own installation team makes us *the* system integrator in northern Germany for industrial automation and systems engineering. From new plants to retrofits, besecke will take your systems into the future. «



besecke  
Industry team



780      560      290      50,000

control cabinets built and installed each year      customer projects per year      PLC systems programmed each year      installation hours at our customers' locations each year





# Before. After. Smarter.

## Process



### Consultation

We tell you what is possible and what makes sense for you. For example, which data we display so you can spot potential errors before they happen.



### Engineering

*Hardware:* We design the circuit diagrams for your plant. *Software:* We program the PLC system and create the user interface.



### Production

We build your new control cabinets based on those circuit diagrams. You may also supply your own circuit diagrams.



### Installation

We assemble all of the electrical systems on site: That means connecting the control cabinets with each component of your plant.



### Commissioning

First, we check all sensors and actuators. Then we test each area to make sure it is functioning. In the end, the whole thing works.



smart!

## Focus



### Food industry

We've got you covered – from coffee to frozen foods, for people and pets. We can accommodate individual requests and virtual pre-tests. We visualize all processes for maximum efficiency.



### Special-purpose machine engineering

In Germany and internationally, we solve tomorrow's exciting challenges. Optimize. Simplify. Accelerate. Or upgrade when time is tight.



### Production plants

We know our way around manufacturing facilities. We design, program and commission. Our ultimate goal is to ensure your production operations run smoothly.





## IIoT and visualization

### System and process visualization

We give you X-ray vision. Finally, a single dashboard that lays out the latest consumption figures and all fault and error messages. And an overview of all maintenance and cleaning intervals.

### Power distribution and energy systems

### Electrical control panel and circuit diagram design

With the latest EPLAN software, you get a custom design as well as construction documents that meet the safety requirements under the EU Machinery Directive.

### Control cabinet construction and assembly

### Switchboard construction

We build your new control cabinets in our own facility. Based on your plans or ours. Either way, we'll build to the highest standards of quality.

### Charging infrastructure for electric vehicles

### besecke fleet charging system

The full-service solution for your charging infrastructure. Precisely adapted for corporate fleets, employee parking lots or homeowners' associations.

## Automation technology

### Process control system

We visualize your process technology systems. So you can better control, operate and monitor them.

### PLC system

It's finally easier to change, expand and control your processes. Because you can see it all. You can also now connect to recipe and fault report databases.

# Behind every efficient plant is a smart control system

With automation, your plant uses only as much energy as it actually needs. And operating the plant is easier than ever before.

## From PDA to MES

### Manufacturing execution system (MES) integration

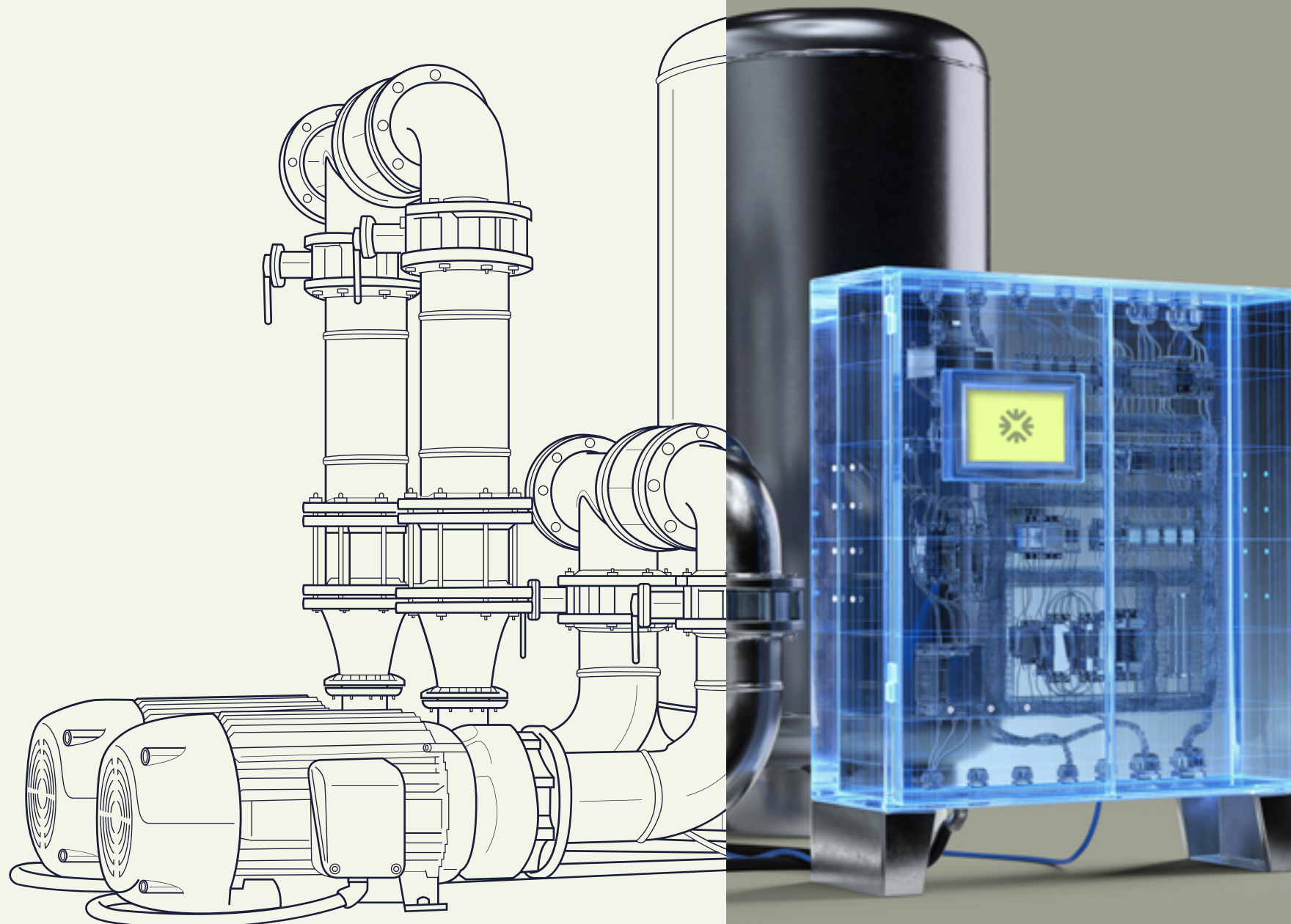
Finally, you can see the whole thing: Process automation makes it possible to get an overview of the process control system and production. And you can control it transparently and efficiently.

### PDA

With our production data acquisition systems, you can keep an eye on your plant and quickly respond to changes. All production data is recorded and visualized in real time – so you can recognize potential for optimization and make your production processes more efficient.

### Energy and production data management

Our system records and analyzes energy data, transparently visualizes consumption and enables comprehensive production data management. So you have an overview and can take targeted steps to streamline.



Talk to an expert who speaks your language:

[sales@besecke.de](mailto:sales@besecke.de)





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The full-service solution for your charging infrastructure. Precisely adapted for corporate fleets, employee parking lots or homeowners' associations.

# Your dashboard gives you X-ray vision

With automation, you can precisely monitor your system and control it proactively.

## Installation, maintenance and retrofitting

### Retrofitting

We increase your plant uptime with smart solutions for reducing unscheduled downtime. That increases OEE and improves the serviceability of your systems.

### Installation

We assemble all of the electrical systems on site. That means connecting the control cabinets with each component of your system.

### Fiber-optic cables

Copper wiring, fiber optics and all the splicing work that entails – we do it all. Laying wiring or cables over long distances comes easy to us – and you can rest assured that we'll do it right.

## From PDA to MES

### Manufacturing execution system (MES) integration

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10%

higher plant uptime with a smart  
reduction in unplanned downtimes

## Navigation

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Services and systems for industry 4

Our approach  
Process and focus 6

About us  
Vision, milestones and philosophy 8

Work at besecke  
Training and careers 12



Turn this brochure over to read about  
our solutions for maritime applications

### Smart solutions for industry

# We make your plant smarter

We've demonstrated that time and again as a partner  
to manufacturers in a variety of sectors.

Our expertise is the result of decades of experience  
looking after our customers' systems. Whether it's for  
the food and beverage industry – from production  
through to filling and packaging – or conveyor  
technology and even HVAC systems.

We optimize, simplify and accelerate. We also upgrade,  
even when time is tight. And you finally have a control  
system with total process visualization. Which is  
smart, efficient and convenient.

Turn the page and explore the possibilities.



Bremen  
N 53° 09' 50" E 8° 42' 24"  
Steindamm 24 · 28719 Bremen



Rostock  
N 54° 04' 29" E 12° 03' 56"  
Tannenweg 22K · 18059 Rostock

+49 421 63 69 80  
kontakt@besecke.de  
www.besecke.de/en



Minimum input,  
maximum impact

besecke 

### It's time to automate

Hello! We're besecke, and we're here to offer you intelligent solutions for industry's biggest challenges and convey your facility into a safe, secure and smart future.

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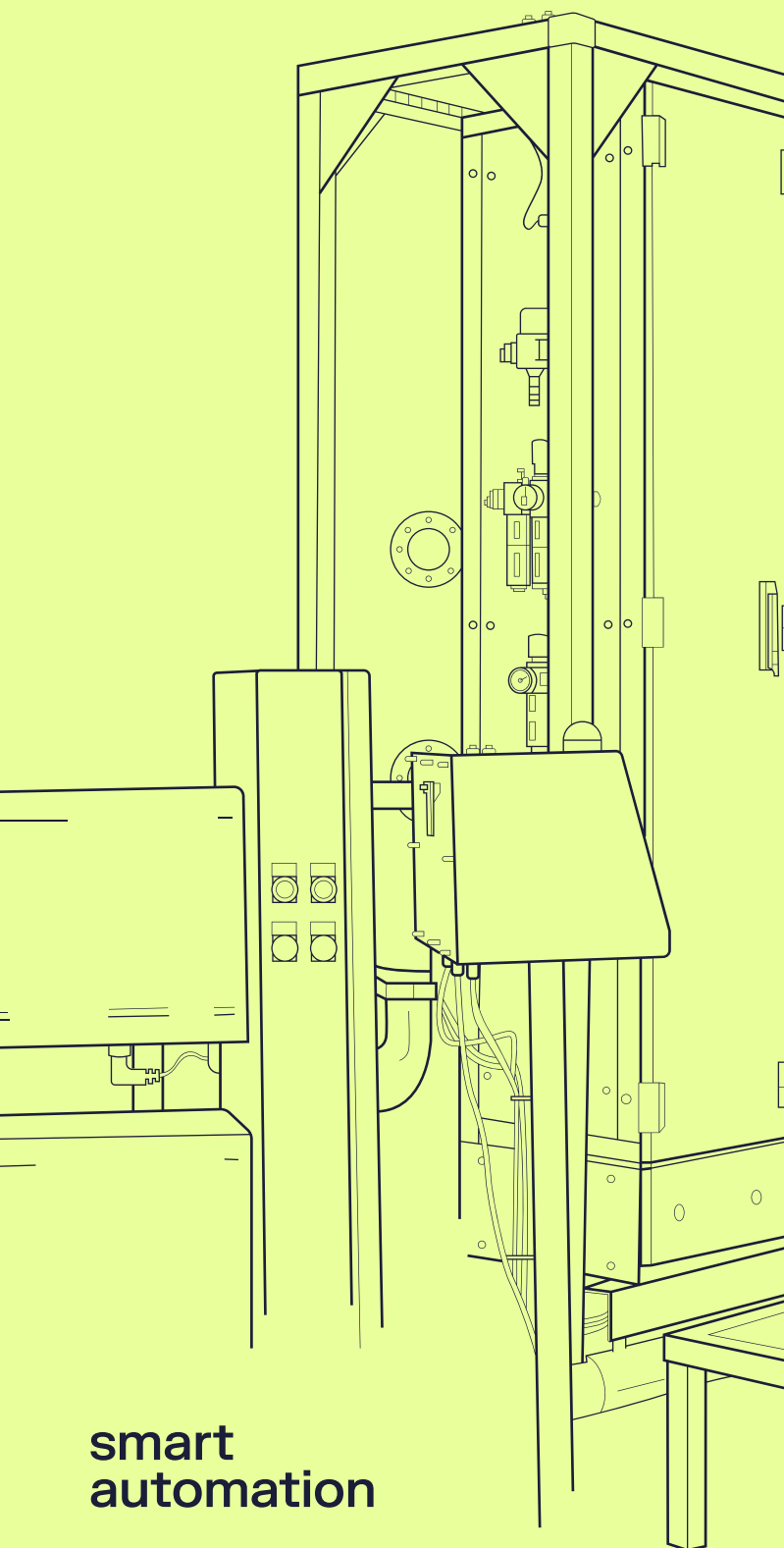


Smart automation and  
systems for industry





# besecke



**smart  
automation**



**Smart automation and  
systems for industry**