

Efficient Engineering

GETTING THINGS JUST RIGHT

Twinson Industrial Automation, based in Barendrecht in the Netherlands, develops customer-specific automation solutions for the maritime and offshore industries.

Efficiency, reliability, and scalability are the company's top priorities. To achieve them, Twinson relies on the Bachmann M1 automation system combined with atvise® scada.

The goals of the engineers at Twinson are as simple as they are logical: the right hardware and software for projects of every size and complexity level. To fulfill this demand, Twinson relies on close partnerships with their system suppliers. "Automation with current technologies presents so many possibilities, which are often not used to their full extent. We believe that a combination of knowledge and experience is the only way to utilize the latest technologies efficiently every time, and thus to work efficiently," says Erik van Os, founder of Twinson Industrial Automation, summarizing a principle he considers vital.

Simply put, "why should we focus on problems that fall under someone else's core competence, especially if they are already solved?" asks van Os. "We feel that our role is to bring these abilities together in our projects. This gives us more freedom and we can concentrate on our core service, which is the actual control architecture."

Integrated From the Start

Conception, development, implementation, and testing are mapped in

a continuous workflow for Twinson. Object-oriented functional and technical designs build upon one another, but are then separated.

In the engineering platform, all technical documents, such as schematics, PLC and SCADA software, or test reports are stored along with the construction and function principles. They can be generated from the database at any time. "This guarantees reliable project documentation from the start and throughout a plant's lifetime," emphasizes Erik van Os.

Essential Virtualization

In order to adhere to specifications and ensure that the final product meets applicable standards and regulations, van Os argues that hardware and software engineering must run in parallel. He considers simulation and validation of hardware and software through virtualization to be an indispensable part of modern automation. For this reason, Twinson also relies on Bachmann's M1 automation hardware. "The hardware platform is robust, modular, and open for software tools – like the 20-sim simulation

package from Controllab, which we also use," van Os explains this decision. "Thanks to hardware-in-the-loop simulation (HIL), we can practically test our control systems in advance. Most importantly, this significantly reduces commissioning time."

Erik van Os was also impressed by the modularity and openness of the M1 controller because this allows him to use it for both large and small projects. "This gives us a single platform pm which we can solve everything. Engineering becomes much more efficient, which is also cost effective, and ultimately produces higher quality."

Simple Connection, Strong Design

The company uses atvise® scada from Bachmann for the user experience, visualization, and data storage. In addition to the availability of the OPC UA communication protocol, flexibility and scalability were also at the top of the criteria list in selecting a modern operating solution. "We really appreciate the rendering and intuitive operability of atvise®," confirms the managing director. It was also important to use standards such as HTML5 or JavaScript

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Erik van Os

Founder and Managing Director
Twinson Industrial Automation BV

as the basis for implementation, as this provides access to a large pool of developers. "Thanks to its pure web technology and responsive designs, atvise® also delivers a flawless display on any computer, tablet, or smartphone," adds van Os.

Achieving Goals Together with Passion

Passion for automation, dedication, and an open culture are what distinguishes Twinson. Together with their customers, they search for the answers to questions and consider which solution is best suited to achieve a specific goal. "At Twinson, we believe first and foremost in the power of partnership," says Erik van Os. "After all, when we inspire and energize each other, everyone wins. In Bachmann we have a great partner, one that is close by and always available."

TWINSON INDUSTRIAL AUTOMATION BV

- Headquarters in Barendrecht (NL)
- Develops and supplies complete automation solutions for maritime applications

www.twinsonindustries.com

