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Vision becomes reality

Numerous customer projects, not forgetting our own plant facilities, are proof that we have brought our vision of Industry 4.0 to life. Innovative concepts for a range of different logistics, assembly and manufacturing tasks are continuously tested and developed at SEW-EURODRIVE sites in line with the principles of value creation – and this takes place under real-life conditions.



We're with you all the way to the Smart Factory

Benefit from our wealth of experience. As well as product and system solutions, we offer advice on factory design and production automation. Our experts work with you to plan, configure and implement your process solutions. Take part in our seminars and training courses and turn your vision of Industry 4.0 into reality.



Additional information

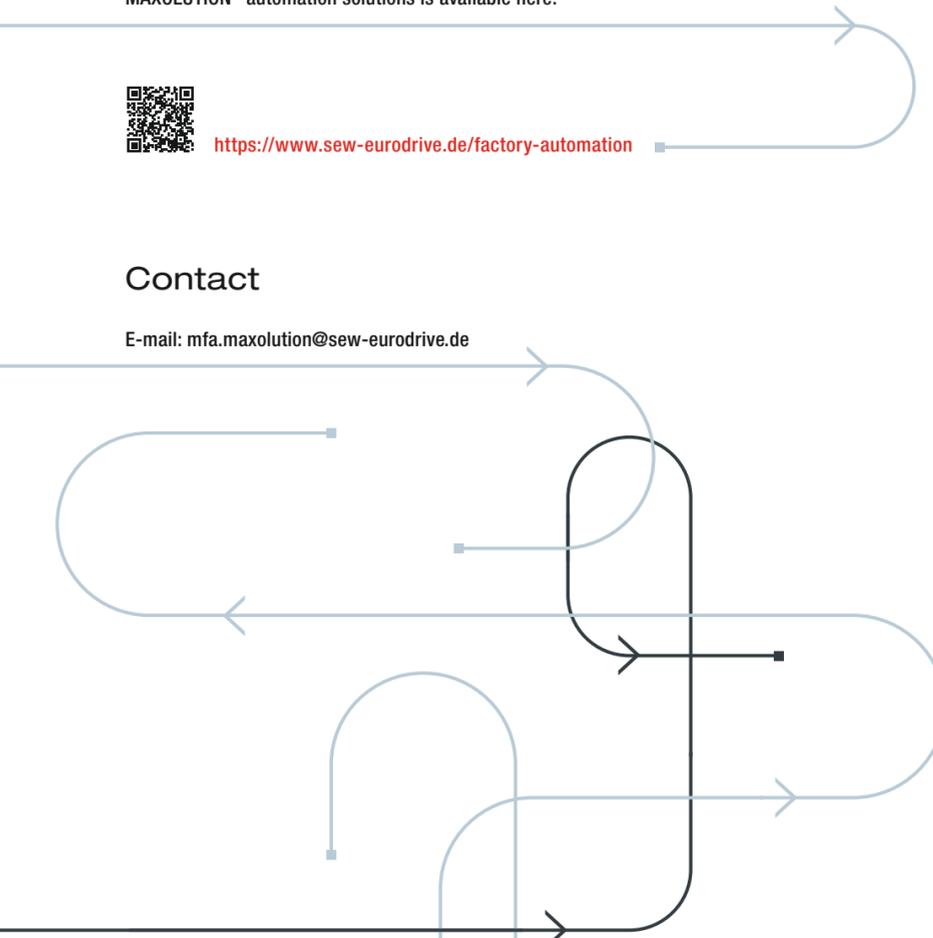
Further information about our extensive product and service portfolio and MAXOLUTION® automation solutions is available here:



<https://www.sew-eurodrive.de/factory-automation>

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MAXOLUTION®

Let's transform: Networked components for pioneering automation solutions



INDUSTRY 4.0



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Potential that speaks for itself

- Increase cost-effectiveness in production and assembly processes:
Lean principles and Industry 4.0 technologies boost value creation.
- Reduce physical strain on employees:
Mobile systems relieve staff of ergonomically awkward tasks.
- Reduce the potential for errors in the production process:
Reliable processes and integrated assistance functions are effective in minimizing sources of error.
- Respond quickly to changing market and customer requirements:
Modular, scalable MAXOLUTION® automation solutions support flexible adaptations.
- Reliable, efficient material management processes:
Autonomous assistance systems, cellular shuttle systems and dynamic storage/retrieval units ensure smooth logistics processes.
- A factory with maximum design freedom and flexibility:
Mobile systems use innovative navigation methods and intelligent energy infrastructure concepts to move freely around the available space.
- Safe and smooth-running production processes:
Intelligent safety concepts improve process, system and staff safety.
- Risk-free production:
Seamlessly networking predetermined and planned process modules paves the way for the adaptable factory of the future.
- Reliable planning and implementation of machinery, systems and plant facilities from a single source:
From the vision to initial and plant layout planning, including comprehensive project management, we're at your side.

INDUSTRY 4.0

Experience the future today with smart automation solutions

Intelligently networking MAXOLUTION® process modules based on mobile transportation and assistance systems lays the foundation for the adaptable production of the future. Optimize output with the aid of intelligent cooperation between humans and technology, supporting automation systems and future-proof material flow and logistics concepts. This example shows the production of linear motors and prefabricated cables using products and solutions from SEW-EURODRIVE.

1 Smart Factory meets Smart Logistics

MAXOLUTION® process modules are networked using cellular transportation systems for transportation and warehouse logistics. Augmented by adaptable, scalable operating equipment, this creates the perfect symbiosis of humans and technology.

2 As **directors of value creation**, employees take charge of controlling, monitoring and optimizing processes. In the future, they won't just be assistants to the system but the architects who interconnect the individual steps to suit specific requirements.

3 **Mobile assembly assistants** can be deployed flexibly as intelligent workbenches. The ability to adjust the working/handover height improves ergonomics.

4 **Mobile logistics assistants** carry out logistics tasks autonomously and cooperatively. This example shows a customized solution for interlinking stationary conveyor lines.

5 **Mobile logistics assistants** use swarm technology to move freely around the available space, taking care of delivery logistics and loosely interlinking process modules.

6 **Mobile handling assistants** can be used in all kinds of ways in the production environment thanks to a variety of grippers – for automated machine loading/unloading or for assembly and joining processes.

7 **Mobile transportation vehicles** are standardized and are suitable for transportation tasks in production and distribution logistics with defined software interfaces. They are extremely versatile thanks to application-specific load handling devices.

8 **Drive technology for conveyor applications:** This example shows the ECDriveS® drive system for light-load conveyor technology, which is both simple and efficient.

9 **Pioneering solutions for storage/retrieval systems from the MOVI-C® modular automation system** combine drive, control and safety technology with software and visualization – all from a single source and perfectly geared to the application.

10 Planned, fully automated **process modules implemented using the modular product and software system** from SEW-EURODRIVE are illustrated in this example in the shape of a gantry for gluing and filling applications.

11 + 12 An adaptable product portfolio comprising motors, gear units, inverters, controllers and software solutions that is open to interfaces within the application architecture meets the **machine automation** requirements of specific industries and applications. It is shown here based on the example of a handling gantry and a cable cutting/winding machine.

13 **Augmented reality:** The needs-based provision of useful information via smart devices such as Microsoft HoloLens helps with induction training and reduces the potential for errors, particularly where a high level of variation is involved.

14 Being a specialist in drive technology means we never stop moving. That's why, besides continuously optimizing our own processes, we also offer you a comprehensive **range of services that span the entire value chain.**

