



SIEMENS

Ingenuity for life

Profit from the long-term
benefits of digitalization

Innovation in machine building

[siemens.com/machine-building](https://www.siemens.com/machine-building)

Getting a grip on cyber security

Solutions for more industrial security

The growing danger of cyber attacks on industrial plants has created a need for new industrial safety solutions. Many companies incorporate their suppliers into production and products to ensure optimal safety – this also applies to machine builders. Cyber security is a top priority, especially for machines linked to other parts of the production lines and to the core IT structure or cloud.

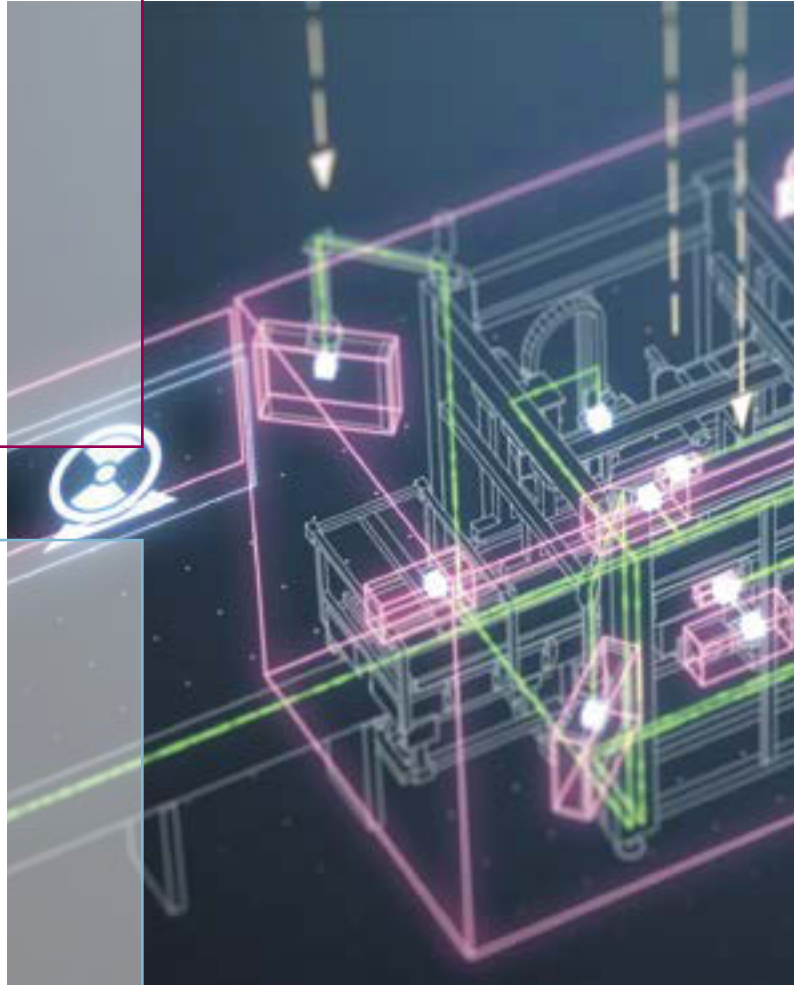
Siemens supports machine builders with Industrial Security while always keeping their machines up to date with state-of-the-art cyber security. The components from Siemens such as controllers, drives, and HMIs are certified according to international security standards and enable machine builders to provide their customers machines with the highest protection.

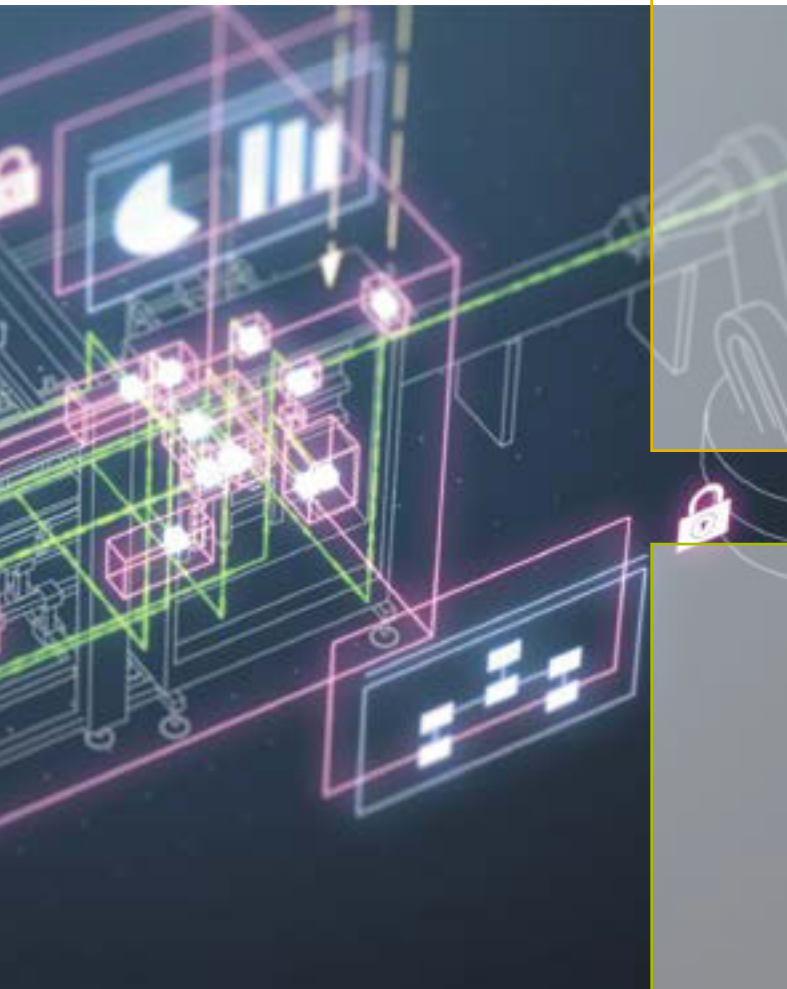
Automation and software in one

Digital Enterprise Software Suite

Digitalization allows machine builders to work with a virtual image of the new machine – known as the digital twin – as early as the planning phase. This data model can be used along the entire value chain and, ultimately, by the customer.

This results in numerous advantages: the machine can be optimized in every project phase via virtual simulations and tests, using realistic conditions. A virtual commissioning reduces the time required for actual commissioning and the risk involved during the actual first use. Once it is up and running, the customer can use the data model for further optimizations or for new products. And, with Digital Enterprise Software Suite, Siemens offers both software and an automation portfolio designed to meet the needs of companies of every size.





Machine building meets MindSphere

Competitive advantages through industrial services

Service contracts already prolong cooperation between machine builders and customers – that’s an industry standard. However, capitalizing on the new opportunities presented by digitalization can result in some solid benefits. The machine-generated data allows predictive maintenance approaches to be adopted and energy consumption to be optimized, even remotely. By safely transmitting data into the cloud, machine builders can provide new services to customers anywhere in the world, both quickly and easily.

In offering the open, flexible MindSphere cloud solution, Siemens does more than ensure the safe transmission of data. MindSphere also serves as an ecosystem in which machine builders can develop their own apps, which are ultimately used by end-customers. And lastly it serves as a platform for apps from Siemens or other providers, allowing an all-new approach to services.

A connection like none other

Industrial communication and identification

Digitalization is full of potential. It makes it possible to manufacture faster, more efficiently, and with higher flexibility and quality. Only the uninterrupted, continuous communication of automation components with connected IT systems can unlock the full scope of possibilities. Additional support can be provided by identification systems with RFID and optical sensors.

With its Industrial Communication solution portfolio, Siemens offers numerous opportunities for machine builders to precisely configure their machines to customer requirements and existing interfaces. Industrial Ethernet with SCALANCE network components is supported, as are PROFINET and OPC UA.

**Published by
Siemens AG**

Digital Factory
P.O. Box 48 48
90026 Nuremberg
Germany

Article No.: DFFA-B10296-00-7600

Printed in Germany

Dispo 21507

WS 11161.

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