

Lenze
Automation
Cyber Security
integrated



**Secure
Automation
solutions**
protect your data
and applications
from attacks



When using our automation products Cyber Security functions are always on board so that your machines, systems and plants run securely, your know-how is protected and you fulfill all legal requirements.



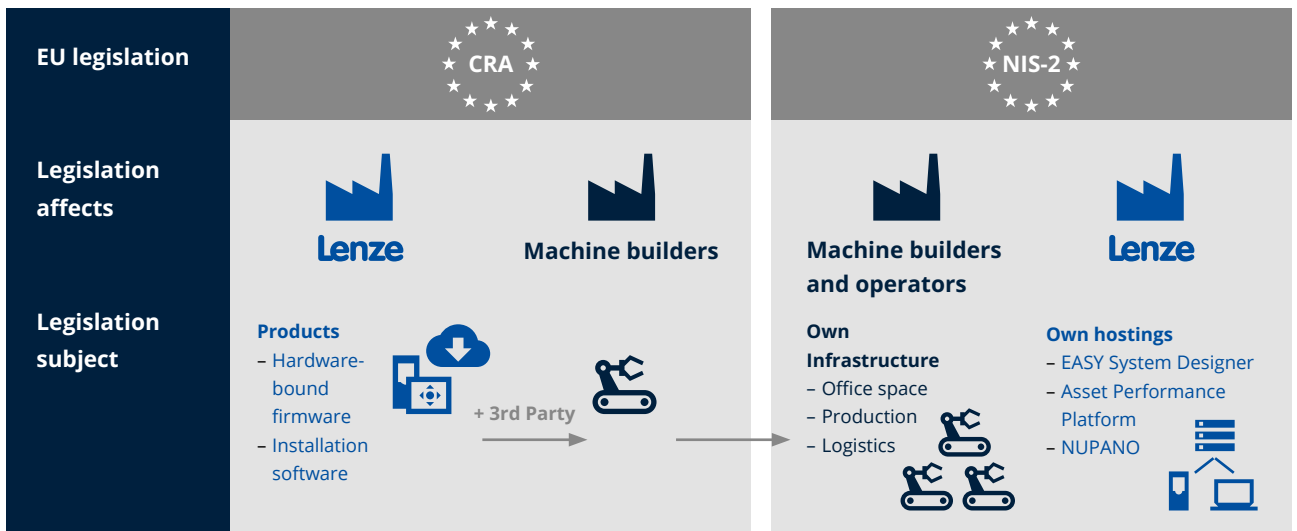
Our solutions for your maximum Cyber Security

<p>With more than 1,000 automations per year we are an experienced partner for Automation systems, Digitalization and Cyber Security.</p>	<p>We support you with advice and action and are a reliable sparring partner in the creation of your security concept.</p>	<p>By using our products, we increase the cyber resilience of the overall application and work with you to minimize the risk of machine downtime.</p>	<p>We live security by design –our development processes are oriented on known standards and norms (e.g. IEC 2443).</p>	<p>In our portfolio we consider the Cyber Resilience Act and work on the fulfillment of the criteria of security level 2 according IEC 62443-4-2.</p>
--	---	--	--	---

Legal framework conditions. What can you expect?

For machine operators in the EU the contents of the **NIS-2 directive** and the associated far-reaching cyber security obligations will apply from fall 2024. The operation of all machines must be ensured through backup management, disaster recovery and established crisis management.

For mechanical engineering companies and suppliers the **Cyber Resilience Act (CRA)** from fall 2027 will apply: only components and machines with digital elements that meet the Cyber Security requirements of the CRA could be sold. Of course, Lenze is also committed to this.



A selection of our Cyber Security features

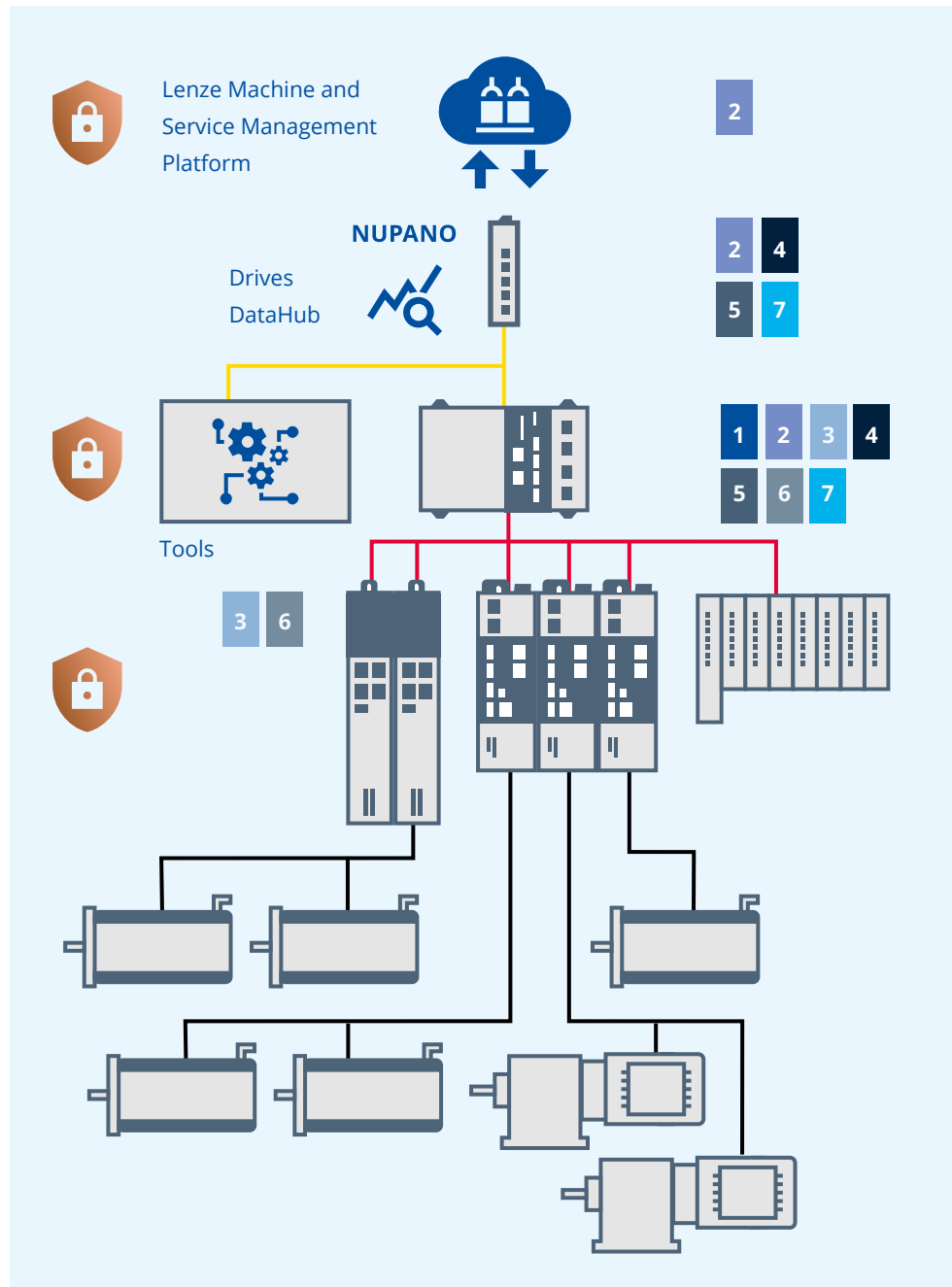
1 Web-based Lenze engineering tools run on secure infrastructures. We are certified according to **ISO 27001**.

2 Our products offer convenient options for the **update management as well as backup & restore concepts** for your machines. **The NUPANO Open Automation Platform** takes over the systematic management and restore of all apps of a machine. Tools such as the **EASY Application Loader** and the **EASY Firmware loader** enable updates for the software of the field devices.

3 To protect sensitive information of our customers, we offer comprehensive possibilities for **data encryption**. Example: The PLC program is stored in encrypted form both in the **PLC Designer** as well as on the **controllers**.

4 Only the right people, services and apps are allowed to access device resources with the appropriate authorizations. The **authentication process** comprises three main steps:
1. identification
2. authentication
3. authorization

5 With our **IoT Gateway x500** we enable secure **VPN access** to the machine. It is certified according to **IEC 62443**. All customer data is stored securely, the infrastructure is certified according **ISO 27001, ISO 27017 and ISO 27701**.



6 With **OPC UA**, we use **encrypted communication** at field level. Secure protocols such as https, ssh and sftp are used at other levels. This prevents unwanted interception of communication and protects your sensitive know-how.

7 **Firewalls in our components** restrict access to the system and subordinate systems. They are already integrated in the **IoT Gateway x500** and in all **Lenze controllers** of the latest generation. This technology will further be implemented in the portfolio, as in the **i950 servo inverter**.

Roles and responsibilities

<p>Machine builders</p> <ul style="list-style-type: none"> - Development of security concepts for its machines - Protection of data and know-how of end users - Preventing downtime for end users - Compliance with laws 	 <p>Lenze</p> <ul style="list-style-type: none"> - Securing machines with automation products and functions - Protecting machine data and know-how - Acting as an expert and sparring partner - Compliance with laws <p>NUPANO </p>
---	---

Dialog at eye level leads to optimal security concepts

Read more

 <p>Open Automation Platform Digitalize machines and open up horizons for new business areas</p>			<p>Controllers Simple controlling in every situation</p>	
 <p>Software Engineering The best solution for every machine task</p>			<p>Inverters Configurable for all requirements</p>	
 <p>IoT Gateways LAN, WLAN and 4G cloud connection</p>				

Lenze

engineered to win

This document is the intellectual property of Lenze SE, Hamelin (Germany). All details and information included in this brochure are correct based on the information available at the time of publishing and serve only to provide preliminary information. Potential colour deviations from the original product are due to the printing process. Lenze is the sole and exclusive owner of the copyright and the intellectual property rights. Any use of this document, in particular dissemination, reprinting or adapting, it is only permitted following express written approval by Lenze.