

L-force Controls

Industrial PCs



Tailor-made solutions – robust, flexible, powerful

L-force | your future is our drive

Demands are increasing all the time. In future, key challenges will lie in the areas of cost efficiency, time-saving and quality improvements. Faster project planning and commissioning, improved performance and increased flexibility in production are expected. New ideas are therefore needed for the machines of the future.

Lenze has risen to this challenge and, with L-force, we can now not only offer you an innovative family of drive and automation products, but also a new, comprehensive portfolio of solutions.

Driven by innovation – New ideas for new possibilities

Always on the lookout: Our idea of innovation is working on even better solutions for our customers, every day.

Driven by flexibility – High degree of scalability for individual solutions

Scalability is an important aspect of the L-force philosophy. Performance, scope of functions, software, service provisions and aftersales care – Lenze will provide you with exactly the combination you require.

Driven by usability – Simple solutions, even for complex applications

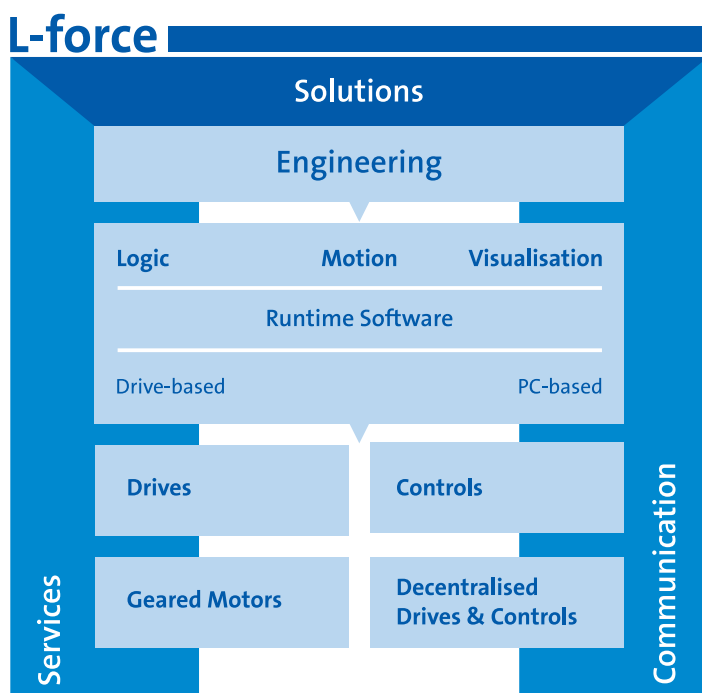
We always focus on the user. Therefore, when we developed L-force, we made sure that people with plenty of practical experience were involved, right from the start.

Driven by compatibility – Universal products and solutions

Don't waste any more time searching for suitable components and the right interfaces. With L-force, everything is compatible.

Industrial PCs

Discover a multitude of configuration options and design your tailor-made IPC solution.



www.L-force.de

Industrial PC | for every application

Lenze develops and produces industrial PCs for a vast range of different applications in industrial environments – whether these involve operation, visualisation, control or automation.

We design and implement cost-effective solutions tailored to the individual specifications of our customers.

Here are some examples where you can find out how we were able to translate our customers' requirements into precisely tailored solutions.

Customer requirements

► Example 1

Textile machine

- Customised housing design
- Automation solution
- Long-term availability of panels
- Cost-effective



Photo: Monforts, textile machine



Photo: Markem, labelling machine

► Example 2

Labelling machine

- Distributed IPC layout
- Visualisation solution
- Alarm function
- Robust
- Can be replaced quickly



Photo: Vaillant, test station

► Example 3

Test station

- Customised front panel
- Emergency stop
- Stainless steel keyboard
- Distributed IPC layout
- Can be replaced quickly

What are your requirements?

Portfolio | individual solutions “off the peg”

A number of factors need to be considered when selecting and configuring an IPC platform - such as the intended purpose, ambient conditions, performance requirements, expansion options and, of course, costs. Lenze's industrial PCs take some of the strain out of this process by offering extensive standardisation and modularisation options, thus ensuring clarity during configuration, shortening delivery times, and providing a high level of flexibility.

IPC platform

Scalable system platform

- ▶ 3 designs:
 - Panel PC for installation
 - Stand-alone terminal
 - Control cabinet PC
- ▶ Processor modules
- ▶ Operating systems
- ▶ Front modules: Operating units
- ▶ Centralised or distributed solutions
- ▶ Individually configurable
- ▶ Cost-effective

Industrial PC in 3 designs

▶ Embedded Line

Panel PC

Panel PCs are designed for external mounting into control cabinets, machine enclosures or other installation cutouts.

▶ Command Station

Stand-alone terminal (IP65)

The industrial computers in the “Command Station” series are stand-alone operator terminals fastened to a support arm.

▶ Control cabinet PC

CPC – Cabinet PC

Lenze control cabinet PCs are intended for installation in a control cabinet.



Installation types

Depending on your requirements in terms of installing the industrial PC, both centralised and distributed IPC solutions (thin client and monitor panel) are available to choose from.

Panel PC | Embedded Line series

The panel PCs for installation that are available in the Embedded Line (EL) series are compact, mechanically robust and, in the majority of cases, without fans. Their modern, appealing design and use of electronics with low power losses give rise to a wide range of potential application areas.

A standard feature of the systems are high-contrast, industry colour TFT displays, available in sizes from 8" to 19". The touch-sensitive screen forms the basis for straightforward, interactive communication between people and machines. Thanks to the high IP65 degree of protection at the front, dust, dirt and humidity simply aren't an issue.



Advantages

- ▶ Compact design
- ▶ Shallow installation depth
- ▶ Scalable platform
- ▶ Modular type of construction
- ▶ Without fans
- ▶ Hardware suited to industrial applications
- ▶ Long-term availability
- ▶ Customisable expansion options
- ▶ No special tools required for installation

Equipment

All Embedded Line IPCs are equipped with

- ▶ Ethernet
- ▶ USB
- ▶ RS232
- ▶ PS/2
- ▶ Slot for Compact Flash
- ▶ UPS or capacitor storage (option)

Application

- ▶ Can be used in standard control cabinets, desks and control panels
- ▶ Visualisation and control solutions
- ▶ Process evaluation and monitoring



Command Station | Control panel

The Command Station (CS) is a stand-alone station with IP65 protection against dust and water jets and an attractive designer housing. The flat housing is made from solid aluminium and features a rear adaptor frame made from stainless steel that is designed for support arm mounting or direct wall mounting.

To facilitate flexible implementation of individual operating concepts, the system offers a number of options and extension consoles in different designs. The operator terminals are equipped with high-quality 15" or 19" TFT displays as standard.



Command Station with control element/operator keyboard

Advantages

- ▶ Flat designer housing
- ▶ Straightforward structure and mounting
- ▶ Modular type of construction
- ▶ Flexible mounting system
- ▶ Standard interfaces
- ▶ Hardware suited to industrial applications
- ▶ Customisable expansion options
- ▶ Option of a distributed layout
- ▶ Robust

Equipment

The terminals feature the following interfaces:

- ▶ 24 V current supply
- ▶ USB at front
- ▶ USB at rear
- ▶ RS232
- ▶ Empty slot

Applications

- ▶ Open-loop and closed-loop control for industrial processes
- ▶ Visualisation for manufacturing processes
- ▶ Distributed operating concepts



Flexible mounting system

Control cabinet PCs | also for 19" installation

The control cabinet industrial PCs in the CPC series have been designed with a universal application range and straightforward installation in all recognised control cabinets in mind. They aim to satisfy the strict requirements of industrial applications.

Depending on the series type, their metal or sheet steel housings provide excellent shielding against electrical interference.

Regardless of whether you opt for horizontal or vertical installation in the control cabinet, it will always be possible for the user to access all the connections from the front.

Advantages

- ▶ Compact design housing
- ▶ Scalable platform
- ▶ Operation without fans, depending on type
- ▶ User-friendly
- ▶ Long-term availability
- ▶ Individually configurable

Equipment

The CPCs feature

- ▶ Powerful processors
- ▶ Up to 4 GB main memory
- ▶ Ethernet
- ▶ USB
- ▶ RS232
- ▶ DVI or VGA/DVI
- ▶ Slot for Compact Flash
- ▶ UPS (option)
- ▶ DVD drive (option)

Applications

- ▶ Measuring
- ▶ Open-loop and closed-loop control for industrial processes
- ▶ Visualisation for manufacturing processes

CPC for horizontal or vertical installation



It's good to know | why we are there for you



"Our customers come first. Customer satisfaction is what motivates us. By thinking in terms of how we can add value for our customers we can increase productivity through reliability."



Vitamin L:
Ideas and added value for your drive and automation solutions.



"We will provide you with exactly what you need – perfectly co-ordinated products and solutions with the right functions for your machines and installations. That is what we mean by 'quality'."



"Take advantage of our wealth of expertise. For more than 60 years now we have been gathering experience in various fields and implementing it consistently and rigorously in our products, motion functions and pre-configured solutions for industry."



"We identify with your targets and strive towards a long-term partnership which benefits both sides. Our competent support and consultation process means that we can provide you with tailor-made solutions. We are there for you and can offer assistance in all of the key processes."

You can rely on our service. Expert advice is available 24 hours a day, 365 days a year, in more than 30 countries via our international helpline: 008000 24 Hours (008000 2446877).

www.Lenze.com

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