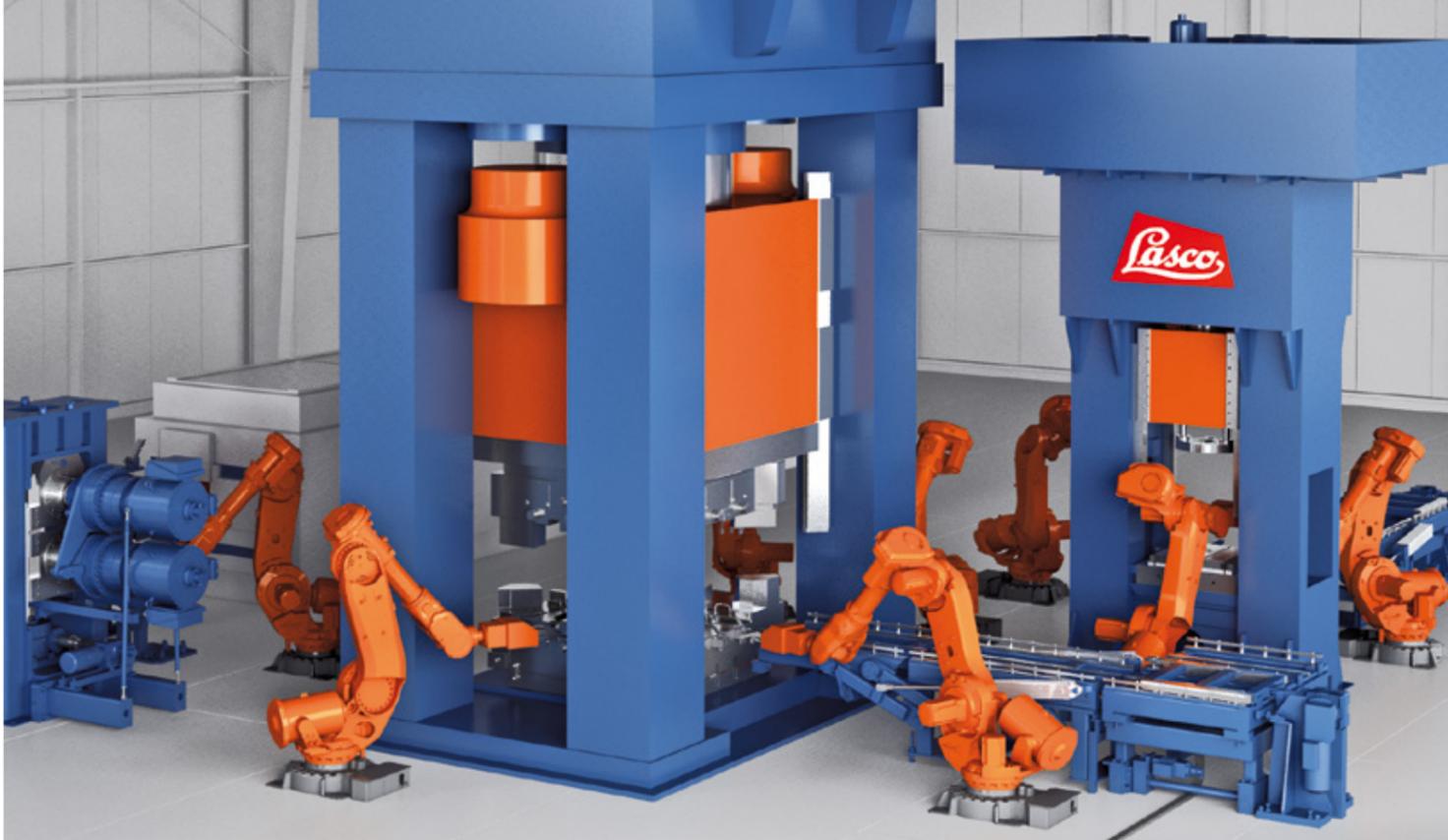


# **AUTOMATION & ROBOTICS**

**More precise / faster / more economical**





## LASCO KNOW-HOW

### Automation systems

**The growing global competition increases the pressure on industrial companies to produce products with higher operational efficiency, in better quality and at lower costs than the competition.**

Automation technology stands for repeatability of exactly definable work steps - fatigue-free, faster and much more exact than would be possible with purely human labor. The industrial robots upgraded by LASCO can also be used in working environments that are dangerous or unacceptable for humans. They accelerate processes, guarantee process reliability and reproduce the desired quality.

Benefit from our complex and individual programming and implementation systems with corresponding fine tuning for versatile production processes - and this across all industries.

LASCO realizes individual gripping systems for robots.



Vacuum plate

Function gripper

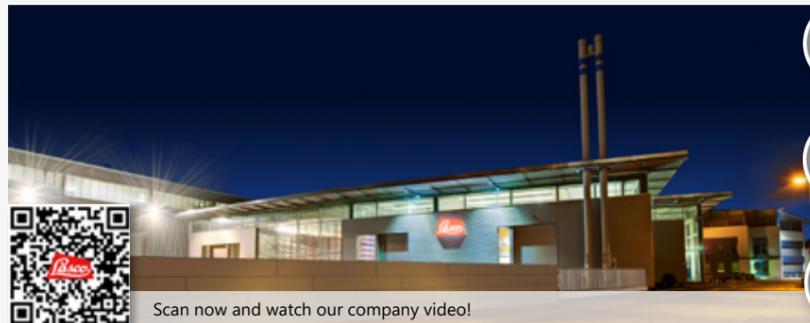
Plier gripper

## LASCO UMFORMTECHNIK

### Automated efficient production

**As a technology leader in the field of solid metal and sheet metal forming and sand-lime block production, we specialize in modern machine tools and efficient production systems.**

We develop and create individual customer and product specific automation solutions that ensure our customers a competitive edge for years to come. We at LASCO design comprehensive solutions and also expand existing production lines – always with a focus on economic efficiency.



Scan now and watch our company video!

4 LOCATIONS ON 3 CONTINENTS

48 SALES AND SERVICE PARTNERS IN 60 COUNTRIES

100 COUNTRIES OF USE ALL OVER THE WORLD



# AUTOMATION & ROBOTICS

## Improved quality - reduced costs

In the industrial world of the future, intelligent and digitally networked systems will be used to interlink production processes with information and communication technology in such a way that largely self-organized production is possible. People, machines, systems, logistics and products communicate and cooperate directly with each other - that is **INDUSTRY 4.0!**

### Your benefits

- ▶ High availability, lower operating costs and significant increase in quality and productivity.
- ▶ Project planning, engineering, production, assembly, commissioning, and after sales service from one source.
- ▶ Gripping technology, control technology, master control, and virtual commissioning by LASCO specialists.
- ▶ Intelligent software solutions for operator guidance and visualization enable fast fault diagnosis and virtually eliminate operator errors.

### PHASES OF AUTOMATION:

#### Project planning

- ▶ Analysis of the customers' requirements
- ▶ Examination of prerequisites and preliminary planning
- ▶ Specification and detailed planning
- ▶ Optimization of central steps of the project planning
- ▶ Cycle time analysis

#### Engineering

- ▶ Mechanical, electrical, hydraulic and pneumatic solutions from a single source
- ▶ Verification of the engineering with simulation tools and FEM
- ▶ Flexible to accommodate latest developments and change requests
- ▶ Preparation for in-house production

#### Production

- ▶ Highly vertically integrated- greater than 70% of manufacturing in our own company
- ▶ Control and monitoring of all production steps
- ▶ Quality control with state-of-the-art technology

#### Assembly

- ▶ Professional pre-installation through in-house production and assembly capacities
- ▶ Test runs can be carried out under almost real production conditions in our own factory

#### Commissioning

- ▶ Expert explanations of technical details on site
- ▶ Instructions for perfect handling
- ▶ Reduced on-site commissioning time due to preceding „virtual commissioning“ at LASCO Umformtechnik GmbH

#### After Sales

- ▶ Service and maintenance contracts
- ▶ Short response times for onsite operations
- ▶ Free service hotline
- ▶ Internet-based maintenance services



Scan now and experience  
Automation & Robotics





# VIRTUAL COMMISSIONING

## Simulation of complex systems

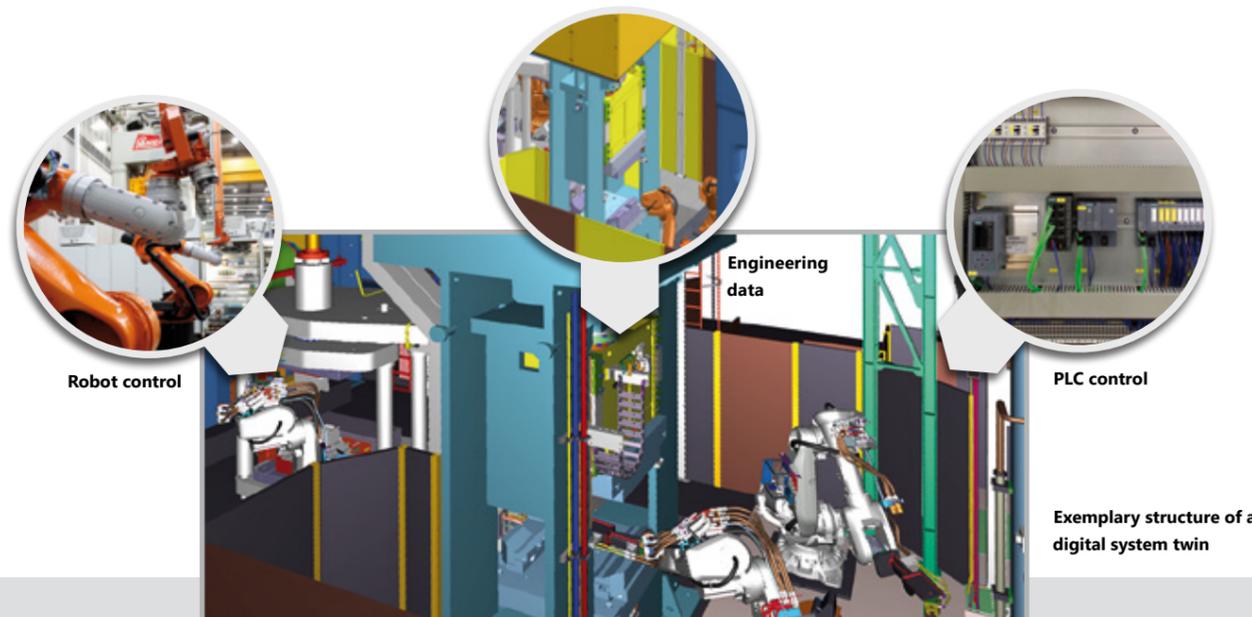
Already in the engineering phase, automation systems are optimized virtually for commissioning. „Virtual commissioning“ is based on the digital system twin. By combining real PLC and robot control with the engineering data of the production systems used, the entire production line is digitally mapped and all machine processes and operating modes are simulated on the computer.

The use of this method in the development process of machines/plants reveals errors and weak points at an early stage.

The method of „virtual commissioning“ can also be used for planned changes to the setup of the production line. Product changes and changes in the production process can already be tested and adapted virtually parallel to ongoing production.

### Your benefits

- ▶ Shorter project times
- ▶ Validated system concept in hardware and software
- ▶ Early employee training on the digital system twin
- ▶ Reduced commissioning time due to digital pre-acceptance
- ▶ Improved remote maintenance with the help of the digital system twin
- ▶ Changes to the overall process of the system on the digital system twin are possible without standstill of the real system



# REMOTE ASSISTANCE SYSTEM

## Real-time collaboration

LASCO machines and lines are characterized by high availability and operational safety. In order to guarantee this in the long term, it is particularly important to us to offer our customers the fastest possible assistance and to be able to provide them with competent support. Remote diagnosis provides the service technician with valuable information on the actual condition of the system.

The system represents the technically superior alternative to conventional means of communication. Video stream and SmartGlasses enable bidirectional image and sound transmission from the first-person perspective as well as fast and direct troubleshooting by the technician on site. This reduces downtime and ideally avoids production interruptions. The virtual support by a LASCO expert during the execution of the individual work steps significantly increases the quality of the measure. Furthermore, upcoming repair work can be prepared in a targeted manner.

### Our Service

- ▶ Demand-oriented and optimized LASCO Remote Assistance System
- ▶ Quick and direct contact to LASCO experts
- ▶ Integration, training and workshop

### Your benefits

- ▶ Support in maintaining optimum system availability
- ▶ Efficient fault analysis in real time
- ▶ Bidirectional video and audio communication
- ▶ Free hands and unrestricted movements thanks to SmartGlasses

### Remote Assistance

Since 1998, LASCO has offered remote maintenance solutions that allow our service technicians to access the control systems of LASCO lines worldwide from Coburg. We offer a combined system for maximum safety and efficiency.



Take a look at the benefits of LASCO Remote Assistance. Simply scan the QR-Code.

# CONTACT

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