



ROBOTIC SYSTEMS

Your automation professional for any project size:
From the stand-alone solution to the networked
production and up to the ready-for-dispatch product.



Fully-automatic robot cell for the palletization of different ready-to-be-dispatched car batteries

Opt for constant productivity. KÖHL is your competent advisor and executing partner!

Modern production processes call for complex automation solutions that are flexible in their design to allow for the use of other products or functions with the least possible investment and adaptation costs. The variable production output and quality optimization must be taken into consideration here as well. Of central importance is the possibility to link the automated production steps even at a later time, and to network the production

and materials management systems for the order-related planning of purchasing, production and storage/dispatch.

KÖHL meets these requirements thanks to its years of experience and is the right automation partner for the uninterrupted production in many different sectors of industry.



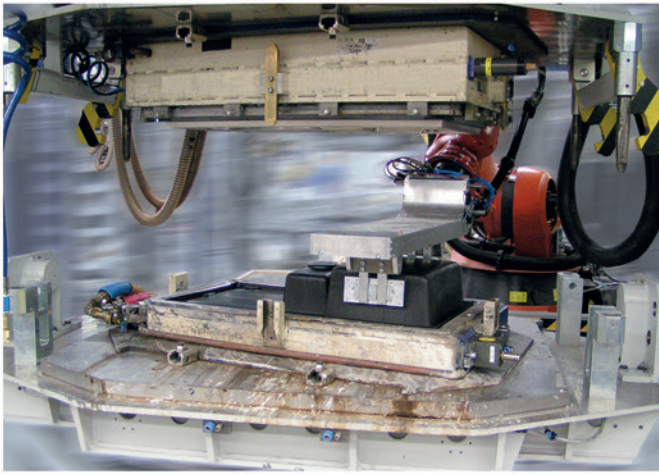
KÖHL Development: Automatic loosening and extracting of raw tobacco

KÖHL AUTOMATION PORTFOLIO

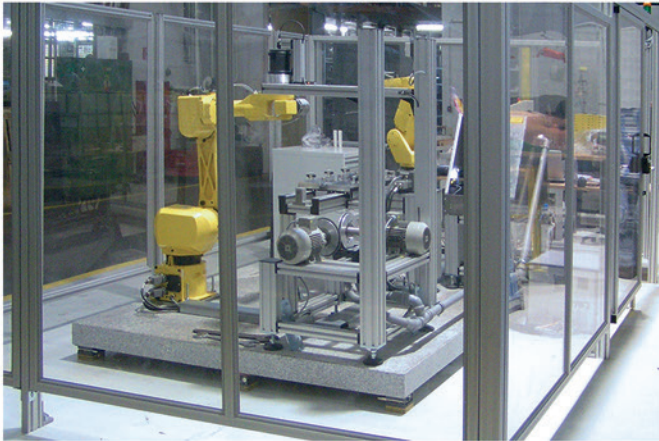
- ▶ Development and realization of custom-designed handling and automation systems
- ▶ Highly developed industrial robots
- ▶ Intelligent gripper systems
- ▶ Custom-designed peripheral equipment
- ▶ Ergonomic Software-tools
- ▶ Innovative controls

Your Benefits:

Reduced production costs, increase in production rates, and optimized product quality.



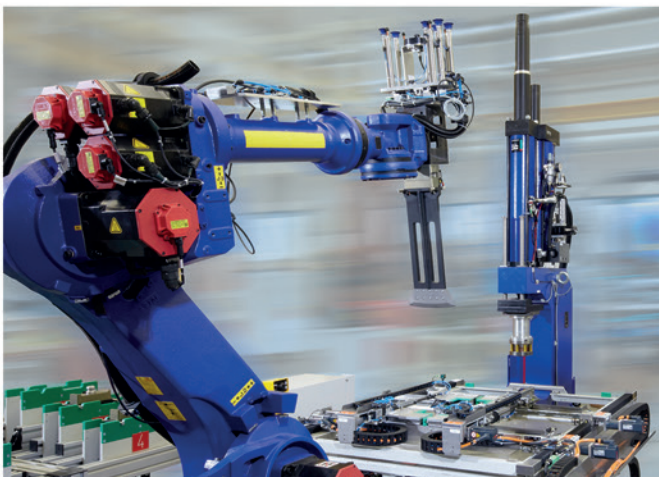
Robot for unloading at a 4-fold press line



Processing cell for cutting tools



Patented unpacking-gripper for raw tobacco



Robot cell to emboss and stamp stainless steel sinks

There are sectors everywhere in the manufacturing industry where automation is beneficial; regardless if for ecological, economical or social reasons. KÖHL analyzes in collaboration with you the production processes up to the operations in shipping and identifies ways to higher efficiency through automation.

Only with a holistic view will you be able to ensure process efficiency!

The approach to automation in the production chain is found and implemented quickly. The first step to automation is often a machine to load and unload.

But only the analysis of the upstream and downstream processes and the custom-designed automatic handling cell makes the production efficient. For example, the robot can carry out other process steps during the wait periods. KÖHL pursues this philosophy in its efforts to boost your production.

Exceeding the standard. We are specialized in your challenges.

KÖHL has always met the challenges that arise in the various industrial sectors where the challenge was to find new methods for a production optimized automation.

Our engineers have developed a special sensitivity for the particular nature of each individual process step, from planning to construction and up to the programming, to arrive at custom-designed solutions for the most complex tasks - for the success of our customers.

For many industrial sectors and specific tasks, KÖHL is the automation specialist with industry skills.

Whether „Standard-Applications“ or new developments - put us to the test!



Intelligently networked production logistics. Automation is more than the total number of robot cells.

The optimization of information and material flow is a core competence of KÖHL. The service spectrum comprises the entire transport logistics for efficient production automation. These include roller conveyors, belt or synchronous belt systems up to special metal slat conveyors. The conveyor systems are equipped, among others, with pallet magazine technology, alignment and fixing stations, test or measuring equipment up to in-line quality assurance or storage systems.

The structure of the KÖHL Group creates synergy effects for the areas automation and robotic systems that can be used to efficiently network and coordinate the most complex production processes and material logistics.

KÖHL PERIPHERY AND SAFETY ENGINEERING

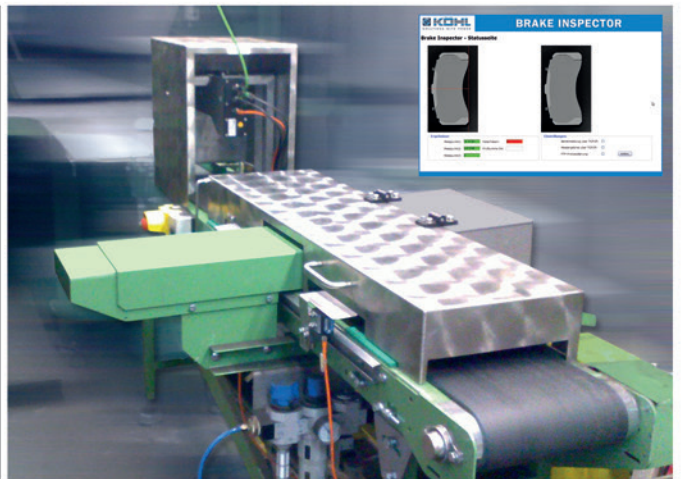
Any and all peripheries necessary for the process will either be developed by KÖHL or partial systems are integrated into the KÖHL systems.

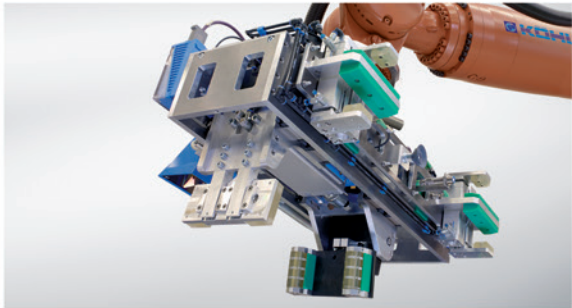
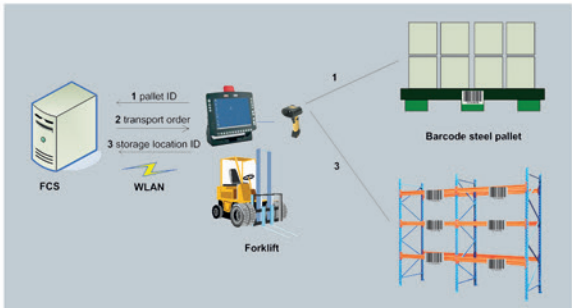
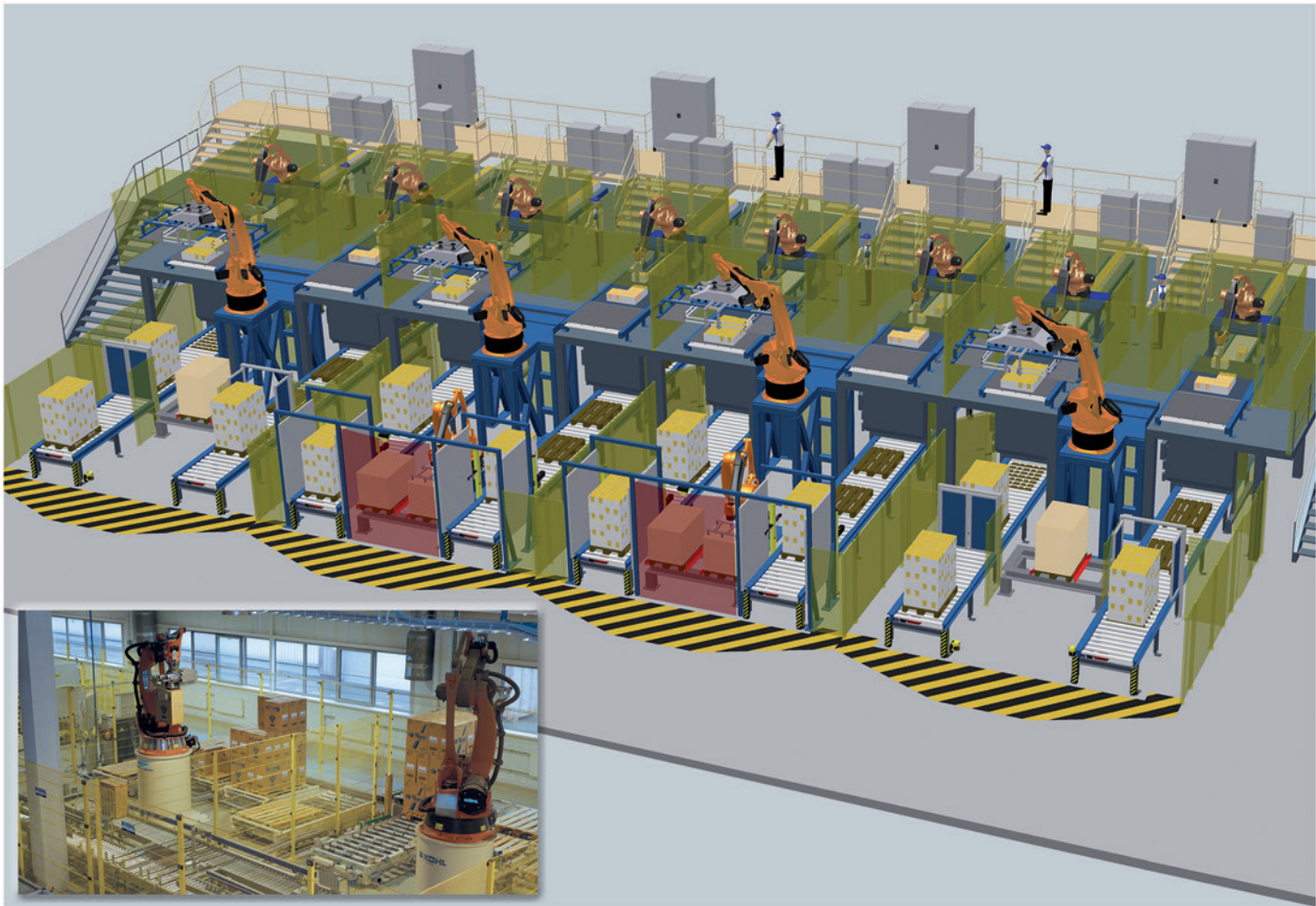
Area entrances in the KÖHL protective fence system for persons, products, product carriers, etc. are secured in accordance with valid machinery directives, and safety-critical interfaces to other equipment on the site are defined in consultation with the customer.

KÖHL PERIPHERY SYSTEMS

- ▶ Adapted gripper technology
- ▶ Periphery & robot protection systems
- ▶ Fixture construction & special conveyor elements
- ▶ Measuring systems, systems for quality inspection
- ▶ Protective fence systems & safety installations
- ▶ Controls with visualization

- ▶ BDE-connection
- ▶ Packaging systems





Easy to control productivity!

KÖHL attaches particular importance to project planning using simulation tools, the development of new, task-related gripper systems, and innovative automation controls for their handling and automation systems.

PROCESS-SAFETY THROUGH SIMULATION

The development of automation is carried out with more exact detail and reliability by using the most modern simulation programs. All possible influencing factors will be taken into consideration and tested before the hardware components are installed. Even complete logistics processes are simulated in order to optimally design the production and the flow of goods.

SPECIFIC GRIPPER SYSTEMS

KÖHL uses industrial robots with freely programmable controls and flexible gripper systems. The design of the grippers that are adapted specifically to the task is the focal point of the KÖHL automation concepts.

CONTROLS

The control technology from KÖHL is based on a modular hardware system and an open software architecture which allows for tailor-made programming of the individual requirements. Expansion options allow for controls to be easily adapted to changing or completely new production tasks. Modular software solutions specifically developed by KÖHL regulate the entire material flow up to the management of large warehouses and shipping.

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Additional information