



INTRALOGISTICS 4.0

Tailor-made solutions from one single source

BUNDLED COMPETENCE

KÖHL Intralogistics - Technology at a glance



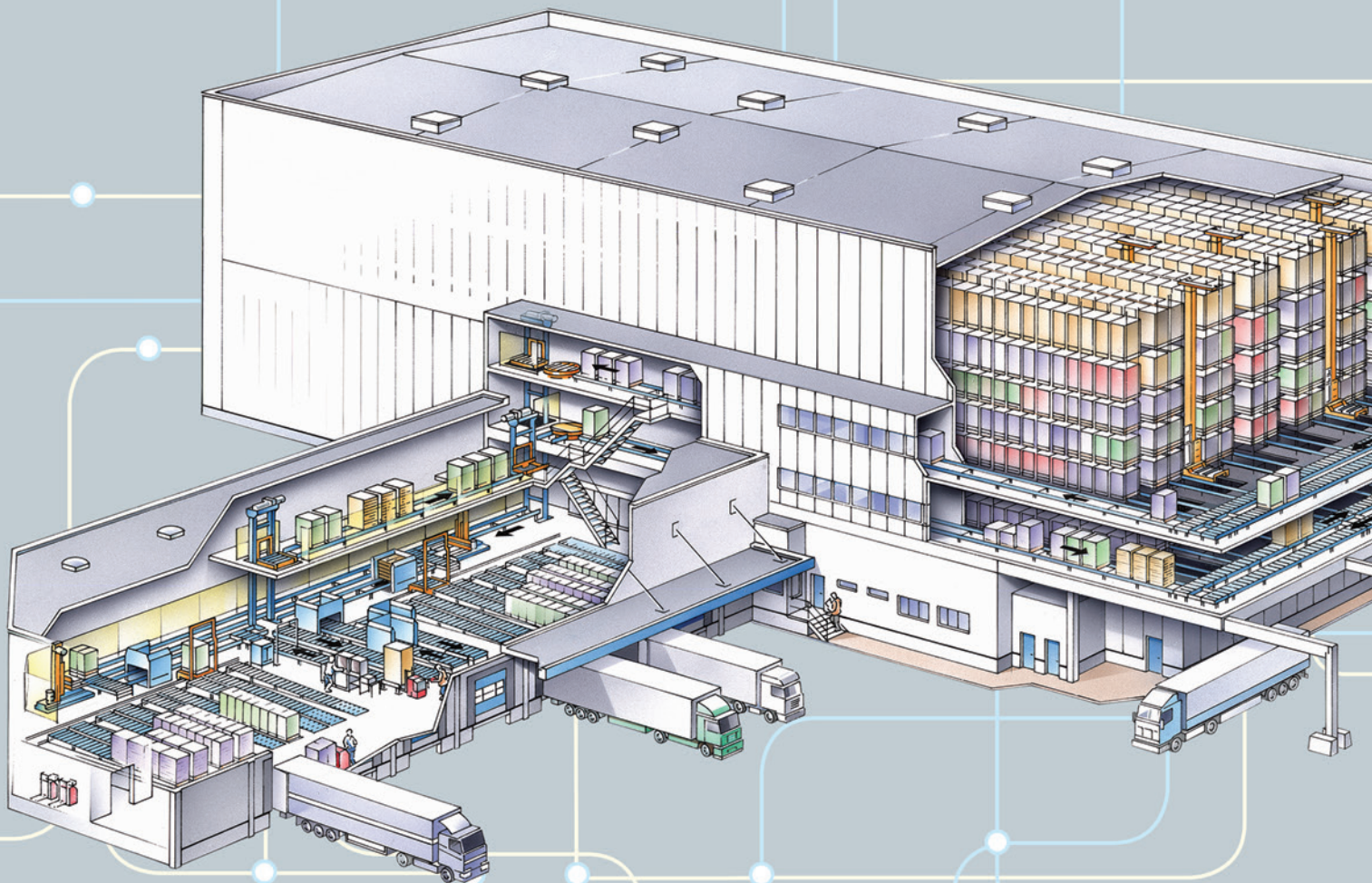
AUTOMATIC STORAGE SYSTEMS



CONVEYOR & TRANSPORT SYSTEM



MANUFACTURING-IT





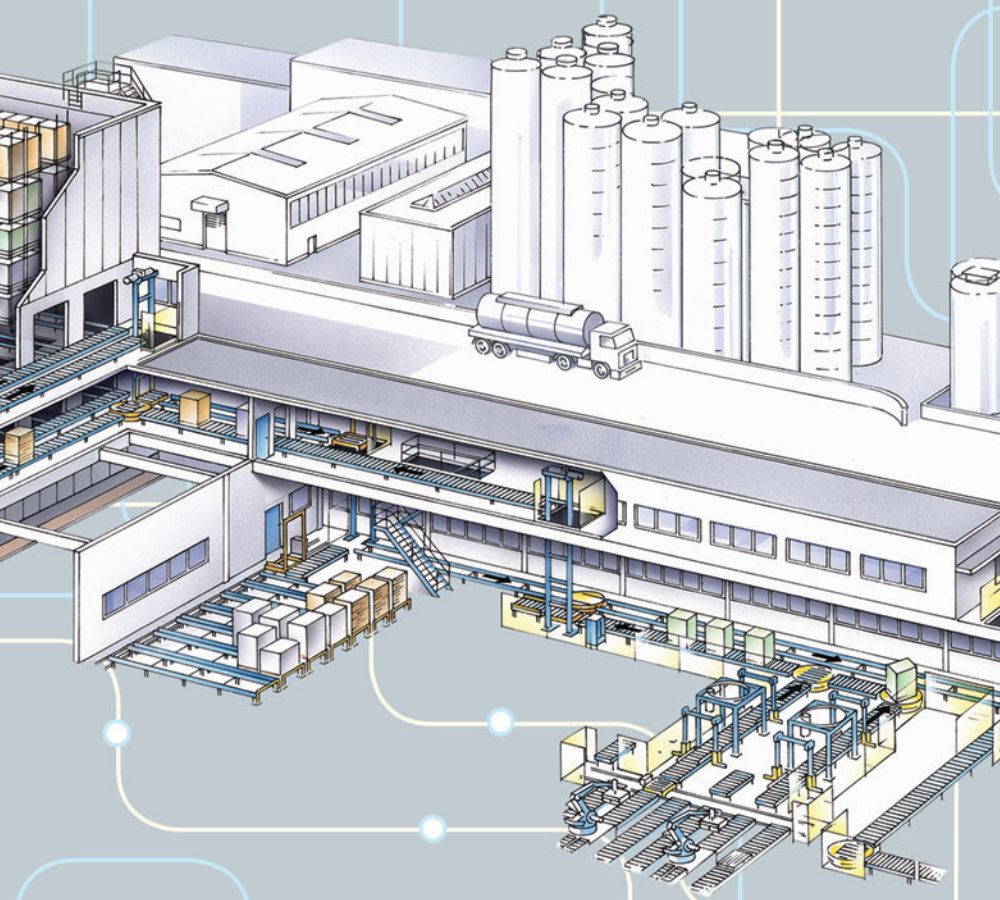
ROBOTIC SYSTEMS



AUTOMATION



AFTER SALES SERVICE



KÖHL Industry know-how

- Food industry
- Consumer goods industry
- Tobacco & cigarette industry
- Building materials industry
- Automotive industry
- Fine & heavy ceramics industry
- Heavy Metal industry
- Trading companies



INTRALOGISTICS WITH IQ

KÖHL - system integrator and trendsetter

KÖHL Maschinenbau is one of the leading suppliers of state-of-the-art intralogistics. We see ourselves as a system integrator who offers integral and tailor-made logistics solutions from a single source.

As an internationally experienced general contractor, we assume overall responsibility for your new logistics center.

Over 200 employees from engineering, production, sales and after sales service ensure that our core competencies of warehouse & conveyor technology, Manufacturing-IT, robotic systems and automation create a highly efficient intralogistics system.

You'll benefit from our over 45 years of experience in the planning of innovative concepts, the project planning and realization to the turnkey handover.

A cooperative partnership is a top priority at KÖHL Maschinenbau. This ensures quick reactions to new requirements and fully exploits optimization potential from planning to implementation.

This aspiration supports our mission to always deliver the best value with reliability, professionalism and innovative thinking.

The KÖHL system integration includes

- Potential analysis
- Planning
- Selection of components
- Simulation & Visualization
- Project management
- System test & emulation
- Installation & Commissioning
- Turnkey handover
- Maintenance & Service



EMPTY PALLET CHECKING



Specialist for customized solutions

The development of special equipment distinguishes our strength as a problem solver. With innovative tailor-made products, we are able to make a significant contribution to efficiency and safety in the logistics center.

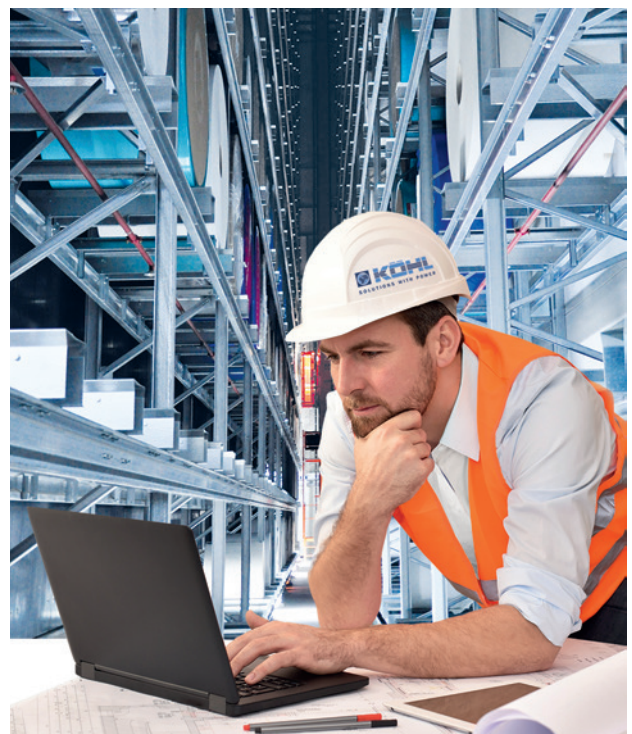
KÖHL After Sales Service

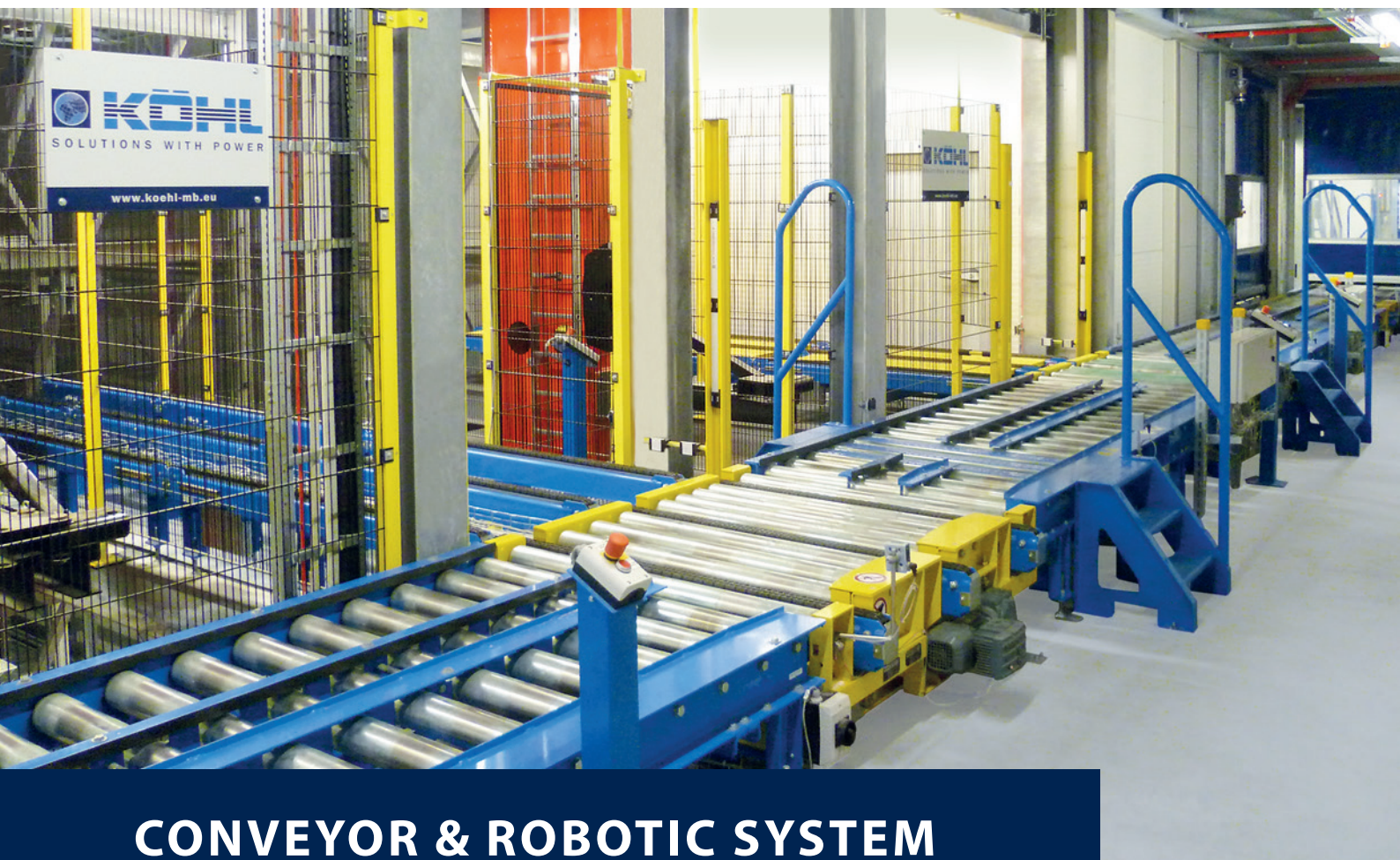
KÖHL Maschinenbau systems are designed for high availability. If problems should still arise, we offer a quick help desk support. Our experts can limit the error on the automation system and in most cases fix it quickly.

In order to avoid costly downtimes, the KÖHL service team takes over the preventive maintenance and also offers the maintenance, industrial inspection and a professional spare parts management.

Development and modernization

With KÖHL Maschinenbau your system is always up-to-date. If the requirements change we adapt the structure of the new process situation. Even for fundamental modernization/retrofit we are the right partner.





CONVEYOR & ROBOTIC SYSTEM

Efficient goods handling for your supply chain

KÖHL Maschinenbau has a long tradition in providing innovative conveyor systems. With coordinated components and tailor-made products from our own development, we design customized systems for pallets, cardboard, containers, and much more.

To represent future potentials on the customer's side process analysis, simulation studies and profitability calculations are used.

The choice of components such as chain, roller and belt and vertical conveyors or driverless vehicle systems is manufacturer-independent.

KÖHL conveyor features

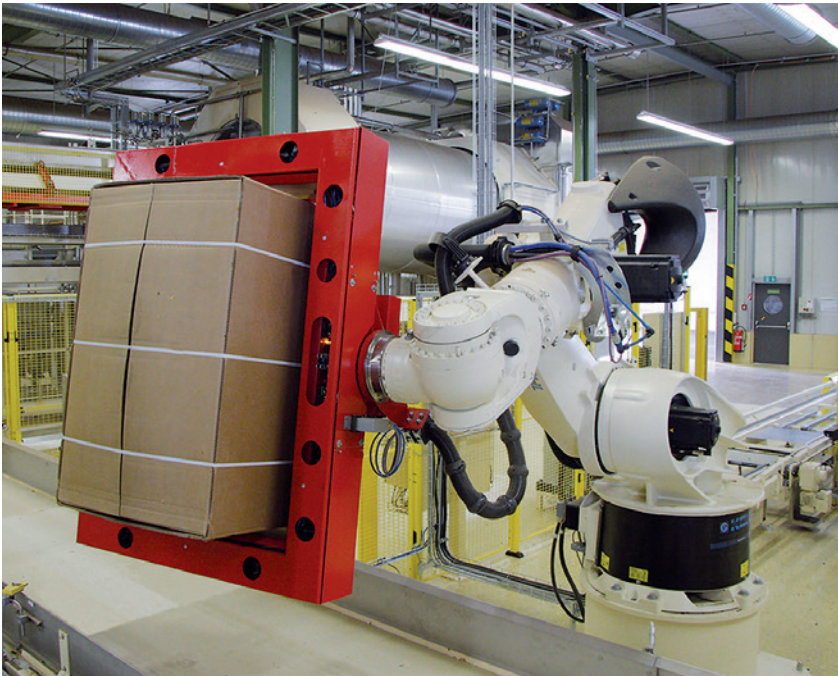
- Conveyor technology for pallets, containers & roll boxes
- Travel cart systems
- Vertical conveyor systems
- Flow storage & delivery systems
- Driverless vehicle systems

KÖHL Maschinenbau offers task-specific robot applications for the entire supply chain: from the front-of-line to processing, pick & place and end-of-line.

The flexible and intelligent solutions contribute to greater efficiency in palletizing, packaging or transfer. The automation advantage consists of uninterrupted speed and accuracy, which reduces cycle times and increases system efficiency.

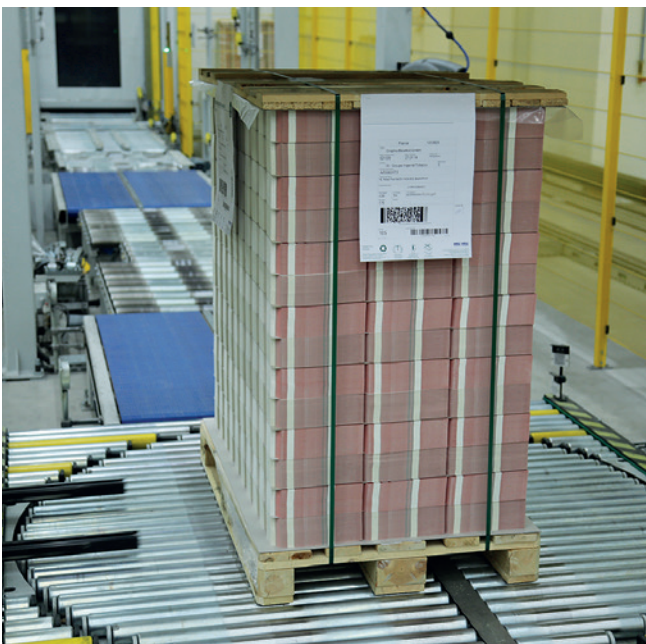
KÖHL robotic system features

- Complete automation systems
- User-friendly system applications
- Industrial robots & specific gripper systems
- Visualization of the robot application
- Software configuration & programming
- Implementation & Maintenance



Robot handling

- Palletizing & Depalletizing
- Packaging and loading
- Pick & Place
- Commissioning



AUTOMATIC STORAGE SYSTEMS

For every requirement & industry

KÖHL storage system features

Storage types

- Silo high bay systems
- In-house storage systems
- Single and multi-position systems

Stacker cranes

- Single and twin-mast construction

Lifting

- Telescopic forks
- Shuttle vehicles

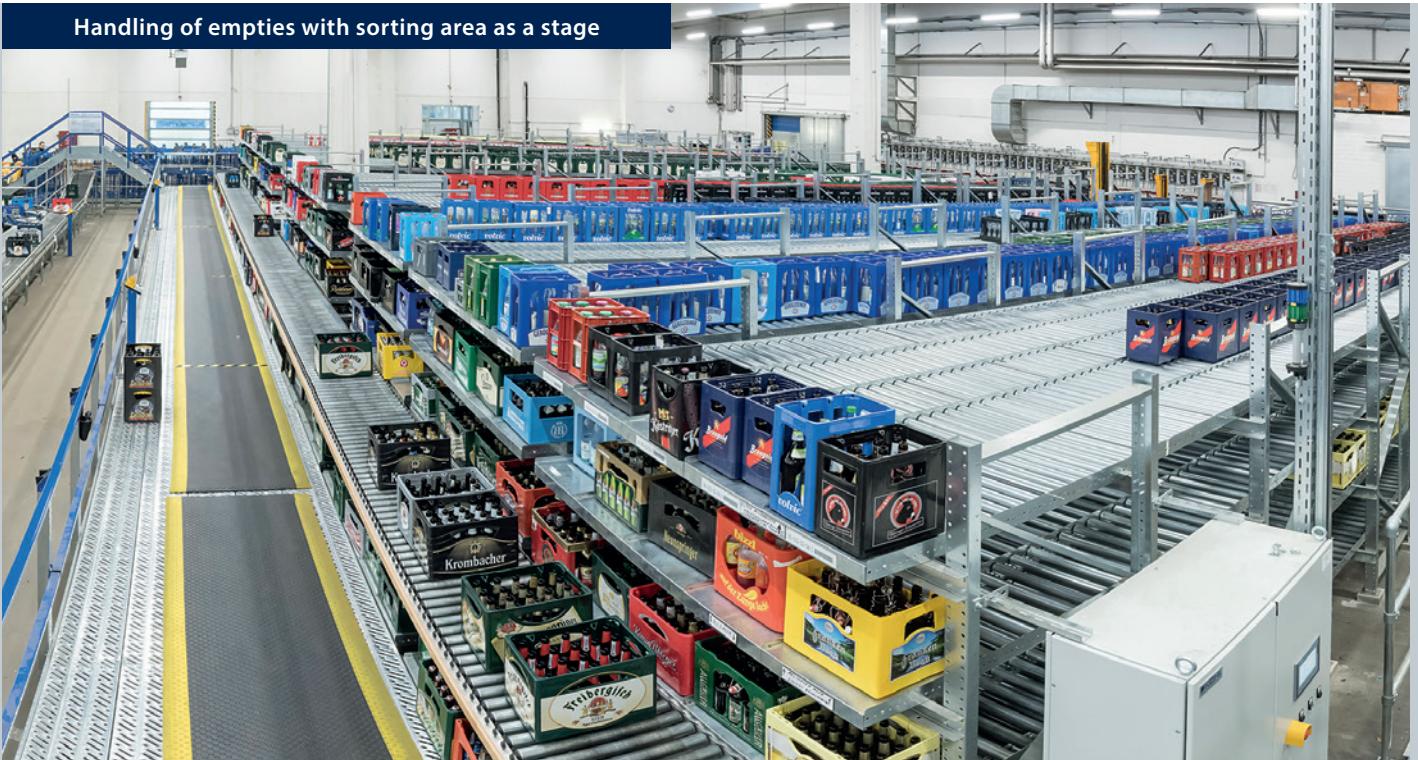
Technical solutions

- Curve walker
- Energy feedback systems
- Laser/camera positioning systems

Construction

- Steel construction/statics
- Roof and wall covering

Handling of empties with sorting area as a stage



Optimize efficiency - exploit potentials

KÖHL Maschinenbau warehouse concepts with a high degree of automation contribute to the profitability and productivity of your in-house logistics.

As a general contractor for modern warehouse logistics, we guarantee a professional complete solution from statics / steel construction to all automation components (stacker Cranes, laser / camera positioning systems, etc.) through to turnkey handover.

Trucks with driver assistance system support the effectiveness of warehouse automation additionally.

Depending on the product and requirement profile, we offer a wide range of storage types

- Pallet racks & Pallet shuttle racks
- Entry and drive-through racks
- Pushback and slide racks
- Movable racks
- Stage systems

Warehouse solutions for special goods





WAREHOUSE MANAGEMENT SYSTEM

KÖHL WMS ensures maximum transparency

The KÖHL warehouse management system (WMS) is an integrated logistics software that combines warehouse management, material flow, visualization and control, and ensures maximum transparency in the logistics center.

The KÖHL WMS has interfaces to all common ERP systems, is easy to use and can be used across industries thanks to its intuitive user interface.

Optimize warehouse stock & resources

The KÖHL Warehouse Management System (WMS) records and controls all goods movements: from goods receipt via storage & commissioning to route preparation and loading. All relevant logistics data can be easily and clearly visualized with WMS.

The information system is essential to provide the goods just-in-time in the material flow and to make the best possible use of the storage capacity.

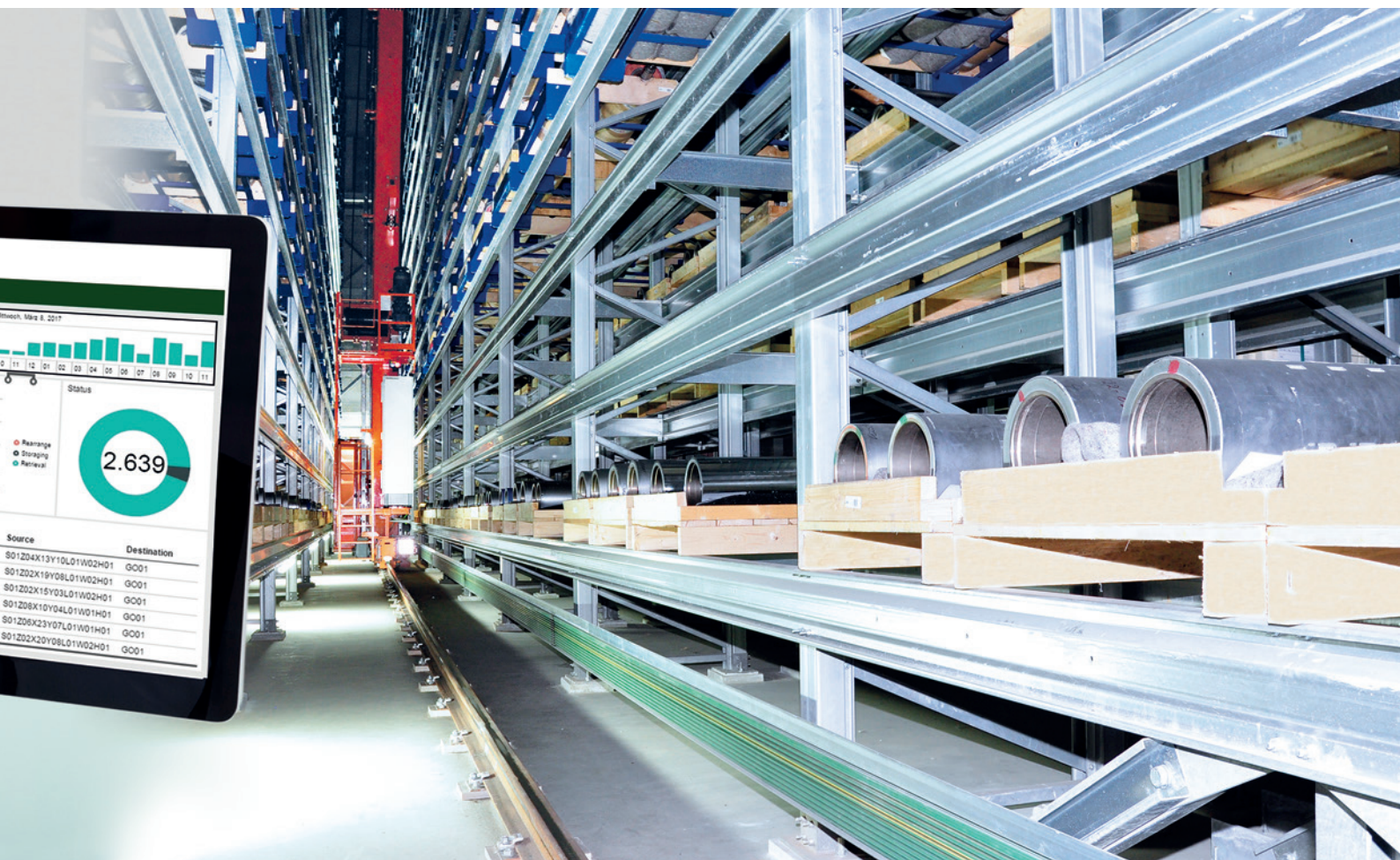
Integrated material flow management system

The modular, individually scalable material flow management system (MFS) analyzes and maps all goods and information flows along the entire intralogistics chain. All stocks and material movements can be visualized with MFS at any time on all devices.

We also achieve the efficiency of our warehouse and material flow technology through forklift control systems, Track & Trace, APS, MES, Pick & Pack and many more.

KÖHL WMS features

- Warehouse management system with MFS
- Can be applied across industries
- PLC interface to the ERP systems
- Integrated plant visualization
- Intuitive user interface - easy to use
- Application on mobile & stationary devices



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ENERGY MANAGEMENT SYSTEM

KÖHL Automation

For the smart factory of tomorrow

KÖHL Maschinenbau is specialized in the automation of production processes and offers innovative complete solutions for every application.

During the entire projecting phase right through to commissioning, we use modern, modular offline programming and simulation tools. Collision and cycle time studies can already be carried out in the first phase of the project in order to realize the system in a time-saving manner.

KÖHL Automation features

- Prozess-Management-Systeme
- Industrial Automation (PLC, Sensors)
- Plant visualization (SCADA) & networking
- Safety concepts based on bus (Profisafe / ASI)
- MSR & power distribution systems
- Eco.On energy management system
- Part-Trace system for casting industry

INFO · CONTACT

KÖHL Maschinenbau AG

17, Am Scheerleck
6868 Wecker
Luxembourg

Tel.: +352 27 68 27 - 0

Fax: +352 27 68 27 - 99

info@koehl-mb.eu

www.koehl-mb.eu



Additional information