



EUROPA  
SYSTEMS®

**PRODUCER OF  
MATERIAL HANDLING  
EQUIPMENT**

ABOUT US

TRANSPORT SYSTEMS

INTERNAL TRANSPORT  
EQUIPMENT

WAREHOUSE EQUIPMENT  
AND COMPONENTS

CASE STUDIES

SAMPLE CLIENTS



## WHY WE'RE DIFFERENT

- ✓ Highest standards for quality, safety and reliability
- ✓ Client satisfaction
- ✓ Long-term relationships with clients all over Europe
- ✓ Customised solutions
- ✓ Quick and efficient operations, working to tight deadlines
- ✓ 170 engineers and specialists, including a 20-member design team
- ✓ Investment in our systems pays for itself in less than 3 years

## ABOUT US

**We are a leading manufacturer of material-handling systems and devices as well as automatic warehousing systems.** We are a team of **170 engineers, technicians and high quality specialists.** We have one of the most technologically advanced production plants in Europe, and a 20-member team of designers. We have 20 years of experience in **completing hundreds of projects** for clients in **35 countries.** Our qualifications and our way of doing business can be seen in the reliability of our products, and in our ability to meet our clients' most demanding expectations. We are ISO 900: 2008 certified.

## OUR PROJECTS



**Raise business efficiency**



**Reduce costs**



**Zapewniają płynność operacji**



**Improve space management**



**Improve workplace safety**



**Provide a return on your investment after just 3 years**

## WHAT WE DO

We specialise in the automation of internal company logistics processes, including complex projects.

### Our services include:

- ✓ Development of project concept and design,
- ✓ Production of systems and devices,
- ✓ Development of automation,
- ✓ Implementation including trial start-up, assembly and activation, as well as employee training and complex service.

### We design and manufacture:

#### AUTOMATED HANDLING SYSTEMS, INCLUDING:

- "Icebox" insulated container handling systems
- Pallet handling systems
- Light load handling systems
- Heavy load handling systems
- Automatic order-commissioning systems

#### HANDLING DEVICES, INCLUDING:

- conveyors
- urntables
- crossings

#### WAREHOUSING SYSTEMS, INCLUDING:

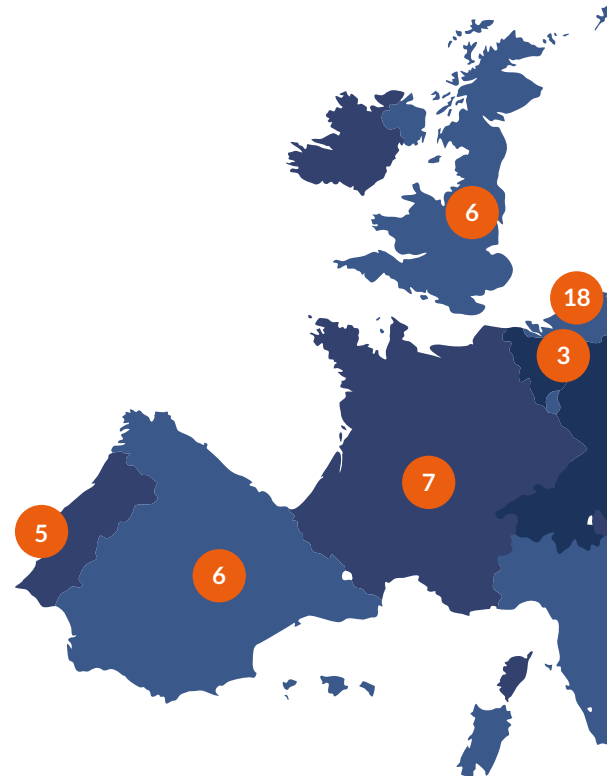
- sheet-metal storage
- pallet storage

#### COMPONENTS



**We take full responsibility for all phases of our projects,** and with every product we commit to delivering complete technical documentation and CE conformity certification.

**As part of our comprehensive client support programme,** we advise customers on the optimisation of handling processes and the design of handling systems and devices.



# NUMBERS WE ARE PROUD OF



NUMBER OF COMPLETED COMMISSIONS BY COUNTRY, 2013

2,5 - 3

YEARS - RETURN ON INVESTMENT

350

PROJECTS COMPLETED EVERY YEAR

20

YEARS OF EXPERIENCE

1000+

CLIENTS THROUGHOUT EUROPE

35

COUNTRIES ALL OVER THE WORLD USE OUR SYSTEMS

1700

COMMISSIONS EVERY YEAR

90

SYSTEMS IMPLEMENTED FOR A SINGLE CLIENT OVER THE PAST 13 YEARS

170

ENGINEERS AND SPECIALISTS

15.000m<sup>2</sup>

SQUARE METRES OF PRODUCTION FACILITIES



# AUTOMATED HANDLING SYSTEMS

Europa Systems supplies automated material-handling systems.

**Our systems guarantee safe, efficient transport of loads in all dimensions.** Our solutions help optimise logistics processes – in production halls, sorting facilities and warehouses. All of our systems are customised to meet the requirements of each project. All of our systems are customised to meet the requirements of each project.

## BY CHOOSING OUR AUTOMATION SYSTEMS, YOU'LL GAIN:

- ✓ A boost in business effectiveness
- ✓ Maximum space management
- ✓ Optimisation of internal logistics processes
- ✓ Improved safety of production and logistics processes
- ✓ Minimisation of process completion times
- ✓ Energy efficiency
- ✓ Short period of return on investment expenditure
- ✓ The ability to integrate the system with your IT solutions (e.g. WMS)



# “ICEBOX” INSULATED CONTAINER HANDLING AND BUFFERING SYSTEM

Insulated container handling system streamlines processes related to intralogistics of fresh and frozen products.

**The system ensures uninterrupted transport of products, short loading and unloading times and maximisation of the buffer zone.** Our solutions can be integrated with devices that support handling processes, such as washing equipment.

## TECHNICAL DATA:

- **Load-bearing capacity: up to 250 kg/ insulated container**
- **Efficiency: up to 300 insulated containers / hour**
- **Buffer zone capacity: may exceed 800 insulated containers, depending on conditions**

## SUITABLE FOR:

All centres distributing fresh and frozen products in insulated containers. Europa Systems has produced and implemented or modernised insulated container handling systems for 90 distribution centres owned by world-leading retail chains.



# PALLET HANDLING SYSTEMS

Pallet handling systems optimise the processes of movement, accumulation and distribution of goods.

Handling systems may be equipped with wrappers or labelling devices to guarantee full automation.

## TECHNICAL DATA:

- **Load-bearing capacity: up to 2,000 kg/pallet**
- **Transport speed: up to ca. 30 m/min**
- **Throughput: up to 200 pallets/hour**

## SUITABLE FOR:

The system is designed for all companies that use pallet storage, and has been widely applied in industries including chemicals, bakery, dairy, grocery and automotive.





# LIGHT LOAD HANDLING SYSTEMS

Light load handling systems allow for the free and safe flow of goods in all dimensions.

Multi-level structures allow for optimal space management while ensuring the continuity of individual processes. Europa Systems' light load handling systems guarantee a high level of functionality thanks to their adaptation to specific conditions and needs, and through integration with other systems used in production and logistics processes.

## TECHNICAL DATA:

- **Load-bearing capacity: up to 50 kg / m**
- **Transport speed: up to 60 m / min**
- **Efficiency: 30,000 units / 24 hours**

## USES:

Our systems are used for handling raw materials, intermediate products and finished goods, in production, warehousing and sorting processes, e.g. :

- as links connecting particular stages of production
- in final inspection stations
- in sorting, packing and commissioning areas
- in warehouses



## HEAVY LOAD HANDLING SYSTEMS

When handling heavy and bulky loads, safety is the utmost priority. Our systems guarantee secure and efficient transport for loads of 2,000 kg and more.

### TECHNICAL DATA:

- **Load-bearing capacity: 2,000 kg / m and more**
- **Transport speed adapted to technological requirements**
- **Type of cargo handled: e.g. rolled sheet metal, steel profiles**

### USES:

Our systems are used in various industries, including transport of metallurgical raw materials, and products in the wood industry.



# AUTOMATIC ORDER COMMISSIONING SYSTEM

Fully robotic system compiles all types of shipment.

The system guarantees the highest accuracy of commissioning products, thanks to which the pallets do not require further re-packing and may be directly forwarded to the recipients. The automatic order commissioning system consists of gantries, conveyors and a dedicated, programmed pallet compilation system.

## TECHNICAL DATA:

- **Very fast completion of orders, up to 1,000 containers / hour**
- **Up to 6 times higher efficiency compared to manual processes**

## APPLICATION:

The system may be used in any facility where shipments are compiled from smaller units such as cardboard boxes, and is an ideal solution for consumer goods industries such as food products, including fresh fruit, vegetables, instant meals, dairy products and baked goods, as well as order completion in retail and e-commerce distribution centres.

Europa Systems develops and implements automatic order commissioning systems on the basis of solutions from our long-term partners Cimcorp Oy and Güdel AG.



## HANDLING DEVICES

As a leading manufacturer of handling systems, we supply a range of devices dedicated to transporting materials in state-of-the-art warehouses and other facilities.

Our handling devices allow for the connection and segmentation of production lines, optimising handling procedures through buffering, blocking, positioning and compiling products.



## CONVEYORS

Conveyors ensure free transport of various loads, both horizontally and vertically.

Conveyors are used in production and warehouse halls, and in product compilation stations, where fast and efficient transport of goods is required. The ability to connect our conveyors to other cargo handling devices allows the design of transport lines that enable the transfer of loads over any distance and in any form. All of our conveyors are based on steel structures.

### OUR PRODUCTS INCLUDE:

- Motorised roller conveyors
- Non-motorised roller conveyors and ball transfer units
- Conveyor belts
- Drag-chain conveyors
- Narrow-strip conveyors
- Lift conveyors



## CROSSINGS AND **TURNTABLES**

Crossings and turntables are horizontal transport units that change the direction of load handling.

They may also change the working height of the transport line. Housings guarantee the units' functionality, safety and customisation to meet client needs.



## TURNTABLES FOR **STRUCTURAL PROFILES**

A structural profile turntable lifts elements weighing up to 3,500 kg, and can rotate through 360 degrees.

The turntable provides easy access when working with large, bulky and heavy elements. Its simple operation and high efficiency facilitate production work.





## VERTICAL TRANSPORT DEVICES

These devices include lifts, gravitational spiral conveyors and hydraulic tables.

All of these units transport loads between various levels on a transport line.



## TRANSPORT CARTS

Transport carts allow carriage of loads between two or more transport lines.



# WAREHOUSE EQUIPMENT

Warehouse equipment offers universal solutions that help maximise use of space.

Our equipment can be customised for all branches of industry, and for all stages of production or warehousing. Europa Systems products guarantee considerable savings in storage space and reduce loading and unloading times to a minimum. Our equipment is manufactured using cutting-edge technology to meet exacting safety standards.



## SHEET METAL STORAGE

Standard project:

Version: one or two racks

Typical sheet dimensions: 3,000 x 1,500 mm

Typical load-bearing capacity: 3,000 kg



## PALLET WAREHOUSE

Standard project:

Capacity: 15 pallets

Pallet size: Euro pallets, industrial pallets

# COMPONENTS

All load handling systems require high-quality spare parts. As a leading intralogistics solutions supplier, Europa Systems offers a range of components and handling systems. Highest-quality finishing guarantees long component life, reducing maintenance costs. Our components are praised by clients from all industries.



## OUR PRODUCTS INCLUDE:

- ✓ Conveyor rollers
- ✓ Ball elements
- ✓ Roller boards

# CASE STUDY 1

## Automatic pallet handling line and integration with the client's WMS system

### HIGHLIGHTS



Period of return on the investment: **12 months**



Raising the efficiency of transport from the bottling line to the warehouse to 200 pallets per hour **a gain of 100%**



Possibility of increasing annual sales by **PLN 100 million**



### THE CHALLENGE

As one of Poland's leading mineral-water producers developed over the years, it launched additional production lines. The increase in capacity resulted in bottlenecks in the system of collecting pallets and transporting them to the warehouse. The company outgrew its old handling system, based on forklifts, and this hampered the use of new production capacity.

### THE MISSION

Doubling the efficiency of the system for collecting and transporting pallets from the bottling lines to the warehouse.

### THE SOLUTION

This project required a fully automated pallet handling line, integrated with the current WMS system. Europa Systems designed, manufactured and implemented a system for collecting and transporting the loaded pallets to the warehouse. The system supports all bottling lines, and consists of 100 devices of over 320 metres in total transport length. Carts are used where the system intersects with other transport routes. Europa Systems also created a detailed concept for the control system, developing the software and the control panel to ensure simple and user-friendly operation.

### BENEFITS

#### Increase in prospective sales rates

By implementing our system, the client removed bottlenecks, doubling capacity to 200 pallets per hour, and increasing potential annual sales by 100 million zlotys. Since the implementation, the Client has increased sales revenue by 65%.

### Cost reduction

Thanks to the solution delivered by Europa Systems, all forklifts and related costs were eliminated at this stage of production.

### Safety





The system is fully automated, and thus extremely safe. The cart traffic routes are controlled by laser safety scanners that analyse the entire

environment and perform distance measurements using *time of light* technology. A simple and user-friendly system guarantees the safety and comfort of all workers in the plant.

## CASE STUDY 2

### A system for transporting and buffering TKT thermo-insulation containers in a distribution centre

#### BENEFITS

-  Improved space management - **up to four times**
-  Creation of buffer zone for **600 insulated containers**
-  **Reduction** of cooling costs
-  Improved **safety**

As a result of growing sales and plans to expand its product range, a leading European retailer was forced to improve the internal logistics processes in its distribution centres.

#### THE CHALLENGE

Inefficiencies in internal warehouse logistics processes and in TKT insulated container washing processes.



#### THE MISSION

Increasing the capacity of the buffer zone to 600 insulated containers, reducing the time of washing, loading and transporting containers.

## THE SOLUTION

Europa Systems designed, manufactured and implemented an automatic handling system consisting of electrically-operated drag-chain conveyors and transport lifts. The system comprises two independent lines and two high-speed gantries, ensuring workplace safety. The line was integrated with container washing devices.

The system is used for transporting insulated containers with the following dimensions:

**Height: 2,150 mm / Length: 1,200 mm / Width: 900 mm / Load: 250 kg/sq m.**

Containers are transported from the temporary storage station to washing-drying devices, and thence to the buffer zone. The work of forklift operators is limited to placing the insulated containers in the temporary storage station and collecting them from the collection point.

## BENEFITS:

**Improved space management** - a multi-level system allows for maximum use of all available space. The client can now store up to four times more insulated containers in the same space.

**Reduction of energy costs** - increasing the number of containers stored generates considerable reductions in the use of energy to cool the containers.

**Improved control of products** - the entire system operates according to the FIFO model, guaranteeing full control of the products stored in the warehouse.

**Safety** - the system was designed to ensure the highest possible level of safety. Thanks to the application of our solution, forklift transport of insulated containers was limited to line loading and unloading only.

From 2001-2014, this Europa Systems solution has been implemented in more than **70 European distribution centre** for this client.



## THEY'VE TRUSTED US - WE WORK WITH THE BEST



Leading **discount chains** with more than 10,000 stores each – 90 projects completed for 70 distribution centres in 23 countries



International **paper and wood industry concerns**



**Tire manufacturers** from among the world's top five producers – more than 90 projects completed in 14 countries



International **chemical concerns**



Leading **automotive manufacturers** - 7 projects completed in 3 countries



European leaders in **production of construction materials**



A world leader in **packing and labelling** - 11 projects completed in 6 countries



A leading Polish **soft drink manufacturer**



A world leader in **furniture production and distribution**



International **FMCG manufacturers**



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