INTELLIGENT MOVERS

effective | powerful | reliable
Smart solutions to your intralogistics challenges.

A future-ready skillset ...

1984
First electrified monorail system for the food industry at Storck, Halle

1990
First inverted electrified monorail system for Volkswagen’s spare parts center in Kassel

1991
First warehouse management system for Mann + Hummel, Ludwigsburg

1994
First electrified monorail system for the beverage industry at Hassia & Luisen, Niederlichtenau

1999
First automated high-bay warehouse for Geberit, with Eisenmann warehouse management system

2001
First construction phase for a monorail, now 18 km long with more than 1,000 trolleys, for Floraholland, Amsterdam
The intralogistics industry continues to grow and global demand is on the rise for smart material-flow systems. We are committed to developing advanced technologies in this space, and to implementing them hand-in-hand with our customers. We have the skills and resources to address your specific needs, and to deliver a tailored solution to your challenges. We would appreciate getting a chance to convince you as well.

With a proven track record spanning more than 65 years, Eisenmann has become a recognized leader in plant engineering across diverse industries. We have built made-to-measure conveyor solutions for customers since the 1970s. Our first products were monorail and Power & Free conveyors. Today, we offer a broad portfolio of high-performance systems for a range of industries. Our electrified monorails and inverted monorails enjoy an excellent reputation in the intralogistics sector and beyond. They are known for their durability and reliability — imperative for equipment that needs to operate non-stop around the clock.

Our solutions are not just about moving goods from A to B, however. Automating today’s logistics processes requires a much more comprehensive approach. Our customers need to streamline processes throughout the value chain. They are looking for the right automation strategy, ways to reduce capital and operating expenditure, and production systems with close to 100 percent availability. At the same time, they want greater efficiency and flexibility — to respond better to seasonal workload fluctuations. Other issues attracting growing attention include smart human-machine interfaces and their efficient integration into customer-specific manufacturing and logistics environments.

To enable us to develop best-fit, end-to-end answers to our customers’ needs, we have evolved into far more than just an equipment manufacturer. Today, Eisenmann is a systems integrator with outstanding skills in IT and control engineering. This means we offer unique abilities, including mechatronics expertise over the entire lifecycle: at the planning stage, during project execution, and in the after-sales period.

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END-TO-END LOGISTICS FROM A SINGLE SOURCE

Simon Schmelzle, Sales Manager

At first glance, many businesses see logistics simply as a cost factor. After all, material-flow systems do not add value to the product. At the same time, however, fast, reliable and efficient intralogistics is an important competitive differentiator for our customers.

No two companies are alike. So every logistics solution from Eisenmann is one of a kind – tailored to customer-specific needs and preferences. Our sales and planning specialists have very broad skillsets. A large number of organizations worldwide employ our systems, which often operate reliably for many decades. We know what the key imperatives are: low capital expenditure, efficiency, maximum uptime, significant flexibility, and scalability.

Eisenmann finds answers to complex challenges in high-performance material flow control – at the limits of feasibility. Planning and design are performed by interdisciplinary teams with access to experts at all Eisenmann departments worldwide. We are engineers, not just sales people. We always consider your system as a whole, and develop imaginative solutions. Last but not least, we stand out through the quality of our advice and the comprehensive support
we provide as your partner – from solution design and simulation, to commissioning and beyond. We offer a range of after-sales services that address real-world needs. This is what we mean by “end-to-end logistics from a single source”.

As a financially strong, family-owned business, Eisenmann stands for continuity and reliability. Our teams – comprising both experienced professionals and young engineers with fresh, new ideas – successfully handle projects of all sizes. They find the right technical solution to every problem. Our innovations raise your logistics to a new level.

CUSTOMER BENEFITS OF SIMULATION

- Confidence regarding reliability and throughput
- Correct sizing
- Faster commissioning
- Early insight into processes
Eisenmann is a highly skilled partner for plant engineering. We routinely manage large-scale projects and take responsibility for delivering complete logistics solutions. We serve a wide range of industries, and thanks to our worldwide presence and approximately 3,600-strong workforce, we have the resources to keep customer systems working smoothly and sustainably. Our specialist engineers design and implement turnkey plants. We work hand-in-glove with you to develop tailor-made solutions. We ensure your new equipment is installed on schedule, and continue to provide support and services long after commissioning. Build-operate-transfer models are available on request.

In close collaboration with our IT specialists, we take a holistic approach to the intelligent automation technology behind your solutions. Cutting-edge warehouse management functionality and optimized material flow control mean our customers are equipped today to meet the challenges of tomorrow. Furthermore, enterprises worldwide deploy stacker control systems, yard management and manual picking equipment made by Eisenmann.
“Project success depends critically on the right choice of partner. Mutual respect and trust are essential foundations for building a good working relationship, and are always our top priority. This is the basis for executing your projects, creating made-to-measure solutions, and ensuring complete transparency.”
EISENMANN AUTOMATES LOGISTICS FOR DRUGSTORE CHAIN ROSSMANN

It takes experience and technological skills to successfully complete large-scale projects. For this reason, the Rossmann Group asked plant engineering specialist Eisenmann to help expand its distribution center in Lodz, Poland. Eisenmann was tasked with execution and management of the entire logistics automation project. This included equipment for the high-bay warehouse. The Lodz facility supplies products to Rossmann’s 1,200 stores in Poland.

“We chose Eisenmann for its outstanding technical knowledge of material flow control, and its ability to manage projects from end to end,” reports Piotr Cieslak, Director of Logistics at Rossmann Poland. Precise coordination of construction-site logistics allowed expansion work to be carried out without disrupting normal operations. The 40-meter-tall high-bay warehouse is equipped with eight storage and retrieval systems, plus pallet conveyors. Monorail floor conveyors with a total length of 400 meters link the new warehouse to existing buildings. 25 shuttles transfer items between the receiving area, the shipping department, and more than 36,000 pallet positions. In addition, the floor conveyor system is highly scalable, and designed to move up to 8,000 pallets per day in the future.

**To stand still is to go backwards**

All the material flow solutions implemented at Rossmann have been operating reliably in logistics centers worldwide for many years. Standing still is to go backwards, so Eisenmann’s engineers are constantly making improvements. For example, the space-saving floor-mounted monorail now features a more compact design and even higher throughput. The monorail’s extremely high torsional rigidity enables very tight cornering, with a radius of just 1,000 millimeter, allowing flexible and compact track layouts. This makes it ideal for existing factory environments. Furthermore, minimal spacing is needed between the new, smaller trolleys. This leads to faster transfers and correspondingly higher throughput.
Overhead and floor-mounted.

**ELECTRIFIED RAIL SYSTEMS**

Electrified rail systems deliver efficient, automated, and reliable material flow control. They are the right choice for highly dynamic receiving areas, and for moving goods over longer distances, for example between buildings.

In our overhead and floor-mounted systems, the trolleys are individually driven and controlled, and transfer pallets, mesh boxes and other load carriers rapidly and reliably. The equipment can also be used to support assembly and manufacturing tasks. Furthermore, it can easily be modified in line with customer-specific parameters, such as space constraints, pay-loads and throughput.

**TAILORED SOLUTIONS FOR**

WAREHOUSE LOGISTICS
TRANSFER OF GOODS AND MATERIALS
SEQUENCING AND DISTRIBUTION
PICKING
ASSEMBLY LINES

**OUR PORTFOLIO**

END-TO-END INTRALOGISTICS SOLUTIONS
ELECTRIFIED MONORAIL SYSTEMS
INVERTED ELECTRIFIED MONORAIL SYSTEMS
PALLET CONVEYORS
IT AND CONTROL SYSTEMS
AFTER-SALES SERVICES
BUILD-OPERATE-TRANSFER MODELS
When it comes to moving very large quantities of goods and products, reliability is a must. Take Hassia Mineral Springs, for example – its business is bottling and distributing mineral water and other beverages. Hassia installed Eisenmann electrified monorail systems more than two decades ago. And they have performed their heavy duties reliably and without disruption ever since. The figures are compelling.

18,500,000 km
Total distance transferred to date
15,705,000 t
Total load moved to date

34,900,000
Pallets transferred to date

120,000 h
Hours in operation to date

11 | Intelligent movers
AUTOMATIC ROUTING OVER A CONVEYOR BRIDGE

Emmi, Switzerland’s leading manufacturer of dairy products, sells an extensive range of cheeses, yogurts, and other goods. Caffè Latte is its star product, with annual sales exceeding 120 million units. The drink, which has a cult following in Europe, is made around the clock, seven days a week at Emmi’s Ostermundingen plant near Bern. An Eisenmann electrified monorail system transfers pallet after pallet from the factory floor to the warehouse 350 meters away via a conveyor bridge.

Up to 170 pallets per hour are transferred reliably and precisely at a speed of two meters per second. The process has to be fully automated, and the entire production and transfer cycle kept constantly chilled – in conjunction with zero downtime. To achieve these goals, the manufacturing processes had to be completely reengineered, and the upstream and downstream conveyor systems upgraded. Eisenmann installed the new logistics equipment while production was ongoing. Despite the complexities of integration, the transition from the old to the new system was accomplished smoothly, and on schedule.

“In close consultation with Emmi, we chose to work with Eisenmann. Their comprehensive skillset, first-class references and proven ability to deliver on schedule convinced us that we had the right partner.”

Beat Hagen, project leader, W+P Weber und Partner
Sinebrychoff Supply Company, a Finnish business belonging to Carlsberg Group, sought an enterprise able to plan and build a one-stop logistics solution, and streamline associated processes. “In Eisenmann, we found a partner who understood our needs and challenges from the get-go,” reports Kimmo Sormunen, Automation Manager at Sinebrychoff. In 2006, the oldest brewerly and bottling company in Skandinavia upgraded its filling and warehouse facilities to meet new challenges. Building regulations meant that the parts of the new high-bay warehouse had to be constructed up to 22 meters below ground.

In addition to supplying the equipment, Eisenmann developed the solution, rapidly implemented the smart intralogistics solutions, and modified the plant layout. In a matter of days, the Eisenmann team succeeded in connecting the existing infrastructure to the new state-of-the-art warehouse, which has 35,000 pallet positions.

The equipment has operated smoothly ever since. It includes 13 storage and retrieval systems, a 1,300 meter-long electrified monorail with 78 trolleys, a pallet conveyor, a warehouse management solution, and visualization tools. “In all its years of operation, it has delivered exceptional availability of 99 percent,” says Somunen. Sinebrychoff benefits from stable production processes, significant flexibility, and cost-efficiency – not least because the underground high-bay warehouse cuts the brewery’s heating costs during Finland’s harsh winter.

“Eisenmann understands our needs and comes up with exactly the right solutions. Our conveyors have been operating reliably for many years.”

Kimmo Sormunen, Automation Manager at Sinebrychoff
Expansion of its Karlsruhe logistics center is a substantial undertaking for the Bosch Automotive Aftermarket division – and the largest contract to date for Eisenmann’s Conveyor Systems business unit. The four-stage project commenced in 2014 and is slated for completion by 2018. A key task is the construction of a new 40-meter tall high-bay warehouse, with 50,000 pallet positions. Eisenmann Conveyor Systems is also
supplying an electrified monorail system and two inverted monorail systems, six double-deep storage and retrieval systems, ten picking stations, a solution for fully automatic final inspection, and about 1.3 kilometers of pallet conveyors.

Modification work had to be performed at key locations without disrupting ongoing operations. In light of the large quantities of goods received and shipped every day, this was a significant challenge. The Karlsruhe logistics center maintains 160,000 automotive components that are distributed to 132 countries. The expansion project will increase the center’s pallet storage capacity by 50 percent.

A particular highlight is the high-performance picking stations developed by Eisenmann in close collaboration with the customer. Their ergonomic features address future challenges – such as longer working lives, and an expected tightening of statutory workplace regulations. The innovative design, with picking on two levels, not only safeguards employees’ health and motivation, but also raises efficiency. Eisenmann provided conveyors for the fully automatic supply of diverse spare parts on various types of carrier – in the most convenient position for the picker.

Bosch hopes to reap long-lasting benefits from its investment in the Karlsruhe logistics center. For this reason, it is implementing equipment that is reliable and future-proof. Eisenmann provided comprehensive assistance even before construction work began – through detailed planning, by finding solutions to diverse challenges, and by developing a coherent plan for performing the modifications.

“Working closely with us, Eisenmann installed components during ongoing operations, and integrated them into existing processes. Eisenmann proved to be a partner we can rely on.”

Kai Albus, project leader, Bosch, Karlsruhe