

INVERTED ELECTRIFIED MONORAIL SYSTEM A FLEXIBLE SOLUTION FOR FLOOR-BASED PALLET TRANSFER

EISENMANN'S INVERTED ELECTRIFIED MONORAIL SYSTEM CAN TRANSPORT PALLETS WITH THE SAME SPEED, FLEXIBILITY AND PRODUCT-FRIENDLINESS AS OVERHEAD-TYPE MATERIAL FLOW SOLUTIONS.

State-of-the-art track-and-trolley concept

Thanks to its innovative track-and-trolley concept, the inverted monorail can handle very high throughputs. The track system features extreme torsional rigidity and supports tight cornering for flexible, space-saving layouts. The tracks are designed for loads of up to 1,250 kilograms and speeds of over 120 meters per minute.

Either a roller or a chain conveyor can be employed to feed and transport the loads. These modules are fully incorporated into the trolley design and mounted directly above the track, providing a low center of gravity during transport.

As is standard with Eisenmann, each trolley is equipped with its own freely programmable controller. Variable-frequency drives enable acceleration and deceleration speeds to be tailored to the imperatives of the product and the facility.

An intelligent spacing sensor allows multiple trolleys to collect in groups on the track, but without direct contact, even in tight bends. As a result, an inverted monorail circuit can convey over 400 pallets per hour into and out of a high-bay warehouse staging area.

Compact and maintenance-friendly

Flexible, space-saving layout options and high throughputs make the inverted electrified monorail system ideal for material-flow automation in existing buildings. Until now, low ceilings often prevented the installation of electrified monorail systems, and roller or chain conveyors had to be employed instead.

Furthermore, the inverted electrified monorail system is easy to install as the bolted connectors are easily accessible. This also simplifies maintenance and repairs, and reduces associated costs.

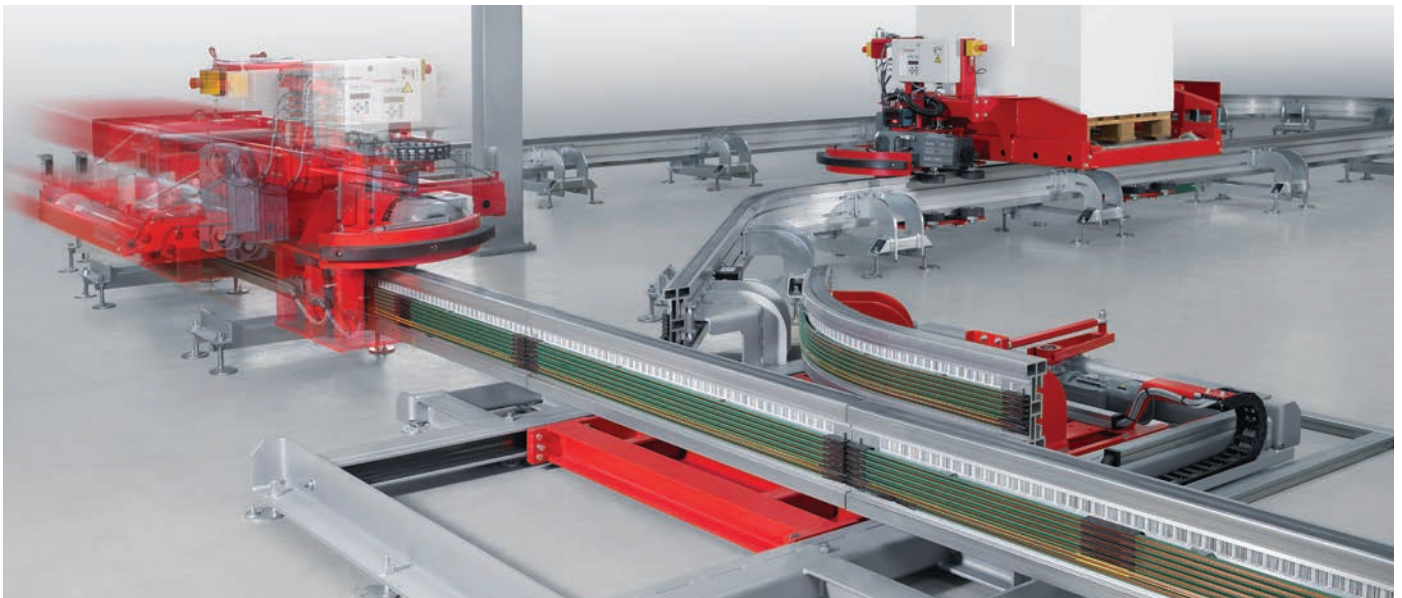


Inverted electrified monorail system with integrated roller conveyor.

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Advantages at a glance

- Low transfer height
- Small footprint thanks to tight cornering
- Floor-mounted
- Specially-designed rail with outstanding torsional rigidity for loads up to 1,250 kg and speeds of 120 m/min.
- High throughputs of more than 400 pallets/h when operated in a high-bay warehouse staging area
- High uptime and maintenance-friendliness thanks to easy access to all components
- Integrated roller or drag chain conveyor
- Enables material flow automation in existing buildings with low ceilings, formerly requiring roller or drag chain conveyors
- Easy expansion of capacity through the use of additional trolleys
- Simple integration of monitoring stations and maintenance zones



Inverted electrified monorail system with integrated chain conveyor.

EISENMANN

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