



VARIOSTORE RETHINKING YOUR PRODUCTION PROCESS

VARIOSTORE REVOLUTIONIZES THE BUFFER ZONES IN AUTOMOTIVE PRODUCTION – A SYSTEM FOR FACTORY 4.0: FLEXIBLE, INTELLIGENT AND ADAPTABLE.

The factory of the future will be free of rigid operations and processes – the goal is nothing short of serial production with a batch size of 1. This is going to take intelligent, flexibly adjustable conveyor systems that make it possible to produce a wide variety of car bodies and vehicle models on a single plant. With the VarioStore, Eisenmann has created a concept for a flexible, versatile car body warehousing system that makes large, expensive high-bay storage a thing of the past.

VarioStore is an area storage system that features maximum flexibility with storage relocations and capacity changes by breaking away from the concept of conventional, rigid conveyor systems. This makes it possible to warehouse materials in any free storage areas or parts of areas, for instance on the roofs of buildings. This is done using the VarioMover unmanned transport system. Eisenmann VarioMovers make the system not just flexible but truly adaptable. Because you can use as many VarioMovers as necessary, based on how much capacity is required at any given time, adding or taking away vehicles as needed.

The VarioMover is an unmanned vehicle with integrated lift table. It drives up under the car bodies, lifts them up and transports them to a specified destination. Since its length is variably adjustable, the VarioMover can transport the car bodies either with or without a skid. It can lift loads of up to 1,500 kilograms. Equipped with a camera and controlled via master computer, the VarioMover makes its way to its destination along an optical track system, moving at a speed of up to one meter per second. The system uses barcode labels as position markers. Existing aisles can be used by the VarioMover and by people at the same time. The vehicle is surrounded by a 360 degree protective field and slows down automatically as obstacles approach. This protects people from being hit by the trolley.

If the customer decides to implement VarioStore in an already existing area, they stand to save up to 61 percent on their investment costs. The reason for this is that, unlike a high-bay storage system, it does away with the entire storage block, the storage and retrieval units and the conveyor system in the front zone.

In addition, the system guarantees that the enclosed car bodies remain accessible at all times. Between the rows are transport lanes, which are wide enough to allow multiple VarioMovers to move around in them at the same time. This ensures fast transport times and makes it possible to transport multiple car bodies simultaneously for use or storage.



VarioMover: Variable for use with or without a skid.



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To Eisenmann, Industry 4.0 means the optimal integration of flexible hardware, intelligent software and digital services – a combination that gives our customers a maximum of advantages and brings the factory of the future to life. That's why at Eisenmann, we use all the synergies at our disposal and focus on finding solutions in hardware, software and service, most of which are already market-ready. VarioStore is a perfect example of the type of flexible hardware that makes intelligent, flexible, interconnected and individual production a reality.

Advantages at a glance

- Save up to 61% on your investment costs by doing away with the entire storage block, the storage and retrieval units and the conveyor system in the front zone
- Flexibility with storage relocations and capacity changes:
 - warehouse materials in any free storage areas or parts of areas
 - additional VarioMovers can be added if necessary or taken back out
- Access the required car body at any time, since multiple VarioMovers can move around at the same time within a single lane

* if using existing areas

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