AUTOMATION

Automated storage systems
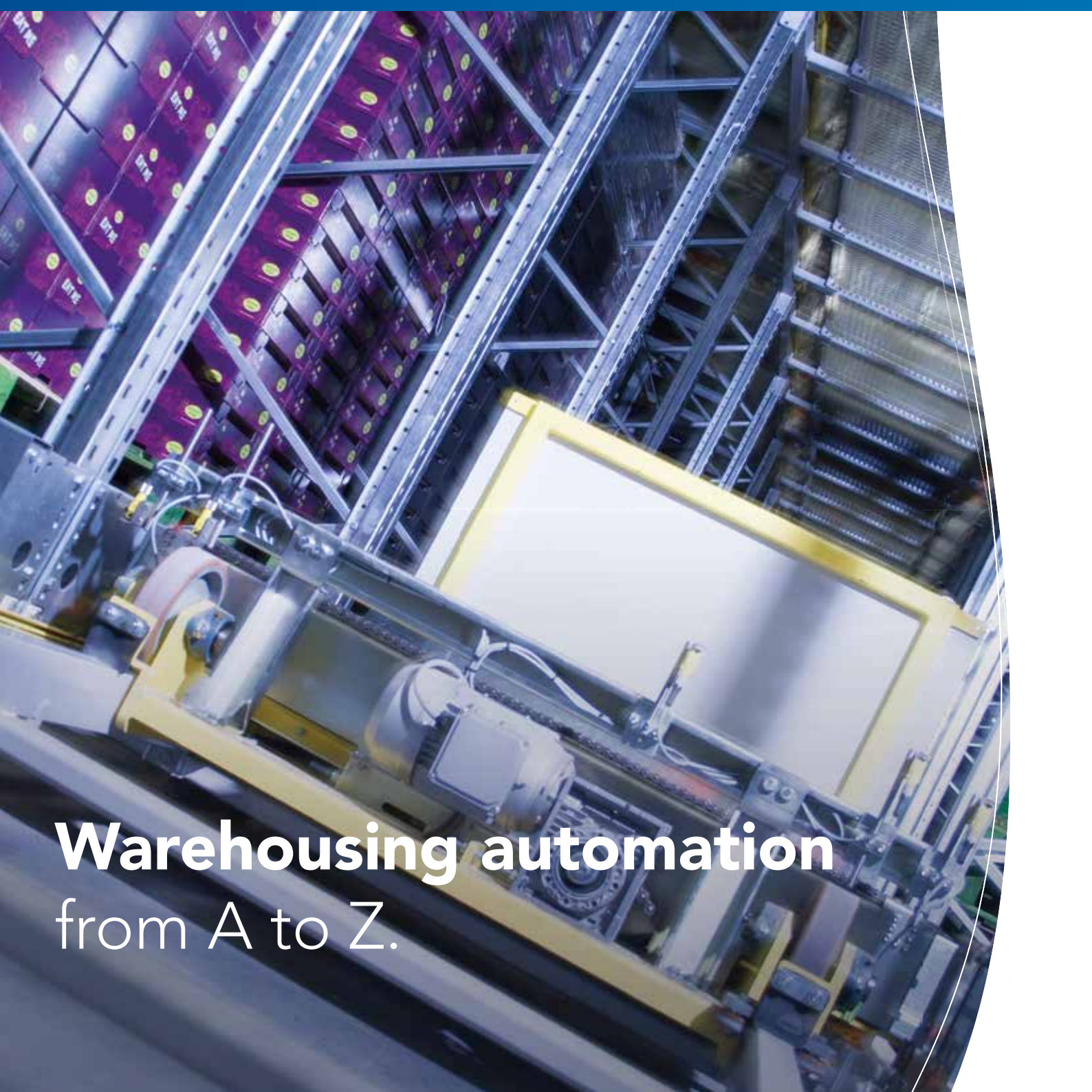
VISCON logistics

Warehousing automation
from A to Z.

About

Large sized products
Like pallets, palletboxes or racks

Vitrix storage system
The Vitrix storage system is a fully automated storage system based on chain-driven storage lanes. This makes the system particularly well-suited to handle extremely high loading capacities. In addition, this system has the highest possible product storage density, and can work under temperatures as low as -30°C.

Matrix storage system
This smart system combines the unique characteristics of our Vitrix storage system with an innovative, wireless storage device. As a result of a lower number of driven components, this system requires a lower investment, and very limited and simple maintenance.

Small sized products
Like boxes/crates

Multiload storage system
This compact system is designed to provide a cost effective solution to store and retrieve crates, boxes and other small items. This high performance system can be used for order picking & replenishment, end of line buffering and intermediate storage.

Viscon Logistics designs and realizes automated storage systems for your warehouse or distribution centre. Using sophisticated module based systems, we are able to create customized solutions that are easy to adapt to every building.

All additional logistic handling necessary can be designed and produced by Viscon as well. We focus on your entire product flow from arrival until the sorted outfeed at the logistics department. VCL warehouse control software ensures efficient routing, either standardized, or custom made at your request. Viscon's storage systems have applications in a wide range of industries such as agro, food, non-food and retail.

Warehousing Automation

- ✔ Focus on your entire production flow.
- ✔ Modular control software.
- ✔ Applications in a wide range of industies.
- ✔ Proven technology.

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NEWS

Matrix storage system

The revolutionary Matrix storage system is a fully automated system to store, sort, and further handle various products like pallets, and similar sized articles. These different loads can even be handled at random, within the same system.

This innovative storage system has many advantages compared to the well-known systems in the market, like stacker cranes (AS/RS systems). It combines the highest possible product storage density with high 24/7 capacity, maximum flexibility, and is functional in temperatures as low as -30 °C. The Matrix is the next generation of storage systems!

Advantages

- Improved storage density; 70% increase compared to other systems.
- High performance; by simultaneous orders on each individual layer.
- The most optimal use of your building area; through a compact design.
- Lower investment; a low price per pallet position.
- Low maintenance; by using a minimal amount of driven components.
- Optimal and safe access; by easily arranging all moving components to one side.
- Integrated control software; which can be integrated seamlessly.

The Matrix concept

The Matrix system operates with innovative wireless satellites instead of traditional chain-driven storage lanes or telescope movements. Our vertical conveyors distribute the load to the required levels. Every level contains at least one horizontally moving shuttle which transports the load to the required storage lane. The shuttle carries a self powered satellite device that runs on rails in the storage lanes for loading and unloading pallets. Our fully integrated in house software ensures efficient routing and comes standardized or custom made.

Optional

A truckload sorting area can be created by using chain-driven lanes on the ground level. Allowing the operator to retrieve complete truck loads within minutes, without losing the capacity of the storage system.

Self-powered Satellite

The specialized components within the satellite ensures a 24/7 operation. Features:

- ✔ State-of-the-art wireless Siemens components.
- ✔ Powered by capacitors, charged every cycle during operation.
- ✔ Can be charged limitless without battery capacity loss.
- ✔ Energy regeneration up to 80%, when lowering products on shuttles.
- ✔ Working in extreme conditions as low as -30°C.
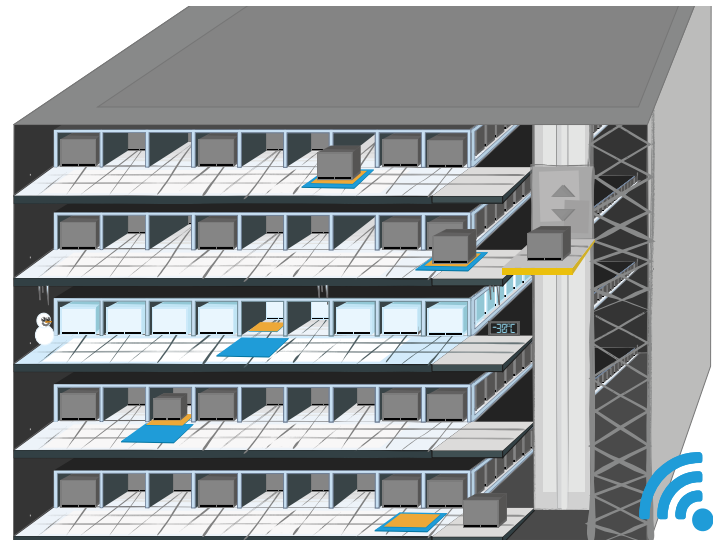
Highest loading capacity of all systems available on the market.

Vitrix storage system

Viscon's "Vitrix" is a proven storage concept in the industry. The Vitrix storage system also facilitates the efficient storage of pallet products and other similar sized products. This system can reach the highest loading capacities of all available systems on the market.

The Vitrix concept

The Vitrix storage system is based on chain-driven storage lanes. Each individual storage lane is able to transport its full load simultaneously. Once the shuttle arrives, the pallet will be loaded immediately. This makes the system particularly well-suited to ensure extremely high loading capacities. The system can also be used perfectly in single layer buffer systems in a very compact way.

Multiload storage system

Viscon developed a unique storage system for crates/stacks, boxes and other small items. Based on the well known miniload (AS/RS) systems, we realized a system that can make the difference in end of line buffering, as well as intermediate storage between sub processes.

The Multiload concept

Using the Multiload concept, Viscon supplies an efficient solution to current problems with traditional mini-load systems (AS/RS). When price or limited space are roadblocks in using a traditional mini-load system, Viscon offers the unique solution. The Multiload system is provided with a handling device, which can treat six locations simultaneously within one cycle. By using well designed and high end components, we are able to provide a compact system, with high capacity, a lower investment and usable in areas with limited heights. The system can be used in both food and non-food environments, and is limited to a maximum height of six meters.

## Custom made product carriers

With our supplies department, where we design custom made product carriers, we are able to offer standardized product carriers. Combined with our storage system you can reach even higher capacities and more reliability. We can also custom design a product carrier for your unique needs to create an even more efficient system, which could be further cost saving.

This system can be beneficial in several phases:
- ✔ Order picking and replenishment
- ✔ End of line buffering storage and sorting
- ✔ Intermediate storage between sub processes

Six product locations can be **treated simultaneously.**
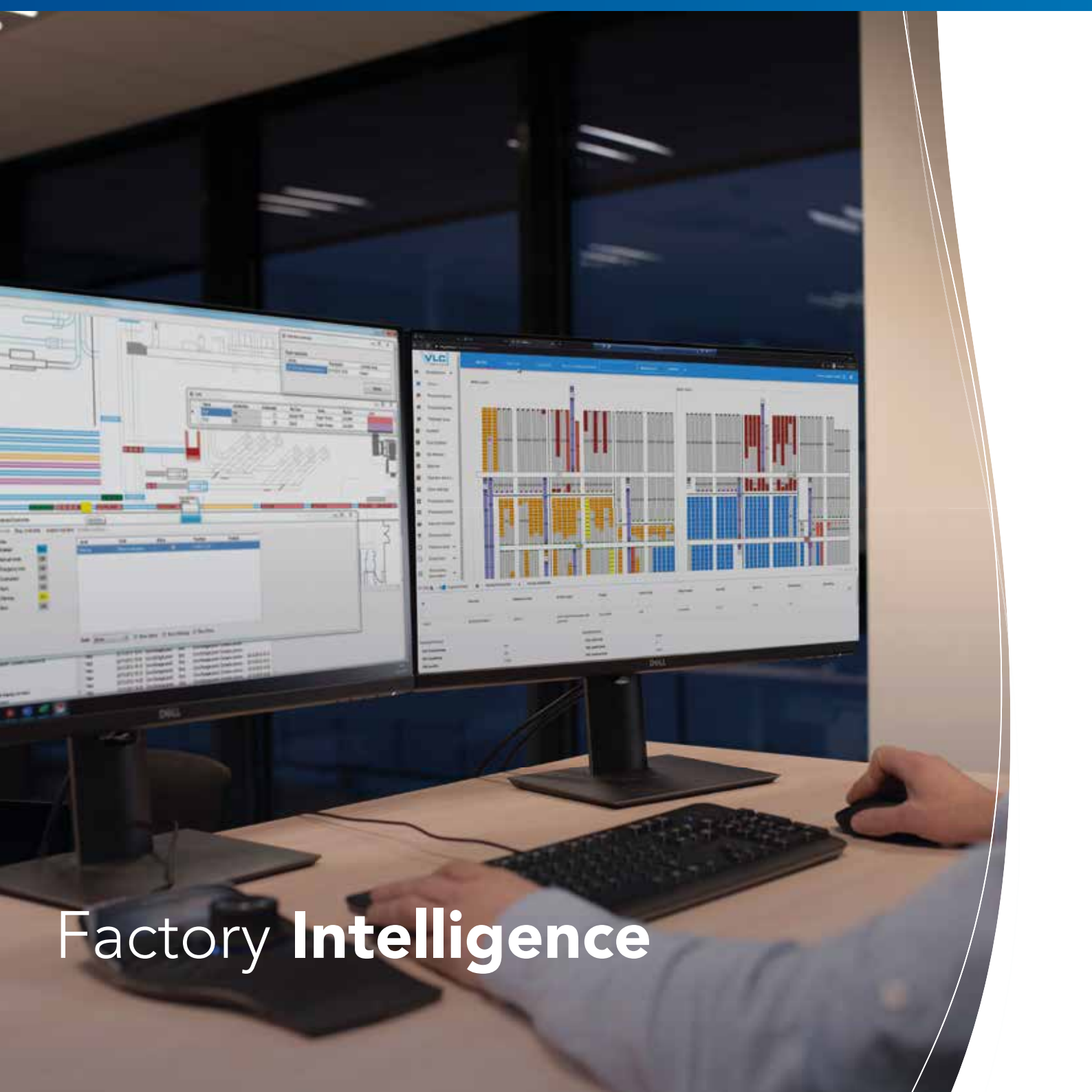
Factory **Intelligence**

Warehouse Control Software
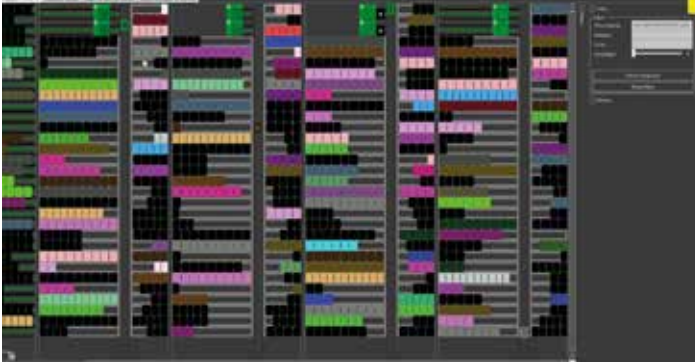
Viscon Logistics Control

Our warehouse control software is an integral part of our turnkey solutions. VCL provides all the required functionality to manage your warehouse processes in our compact storage systems. By using this software you are able to add more intelligence to the routing, leading to higher efficiency.

Functionalities

Standard functionalities of our system are visualisation, tracking & tracing, automated time alarms (for expire dates etc.), HMI manual in- and outfeed, various storage status applications, automated error handling, maintenance settings, pre-sorting truck loads, optimizing total storage in slow moments, priorities in routing, and many more.

Fully integrated

Viscon can support your logistics from A to Z as a standalone package, but can also seamlessly integrate your logistics into your ERP system. It satisfies our customers that both mechanics and software can be designed and integrated by one supplier. This combined ownership, decreases matching risks and ensures you a seamless working system according to your needs. Moreover, it shortens the total implementation time and costs of the project.