



VISCON
warehouse automation

GENERAL BROCHURE

Warehouse automation & intralogistics

MAXIMIZE PERFORMANCE

Solutions fit to your operations

Viscon Warehouse Automation specializes in finding practical and innovative solutions for high density storage systems and the handling of product carriers in processes like sorting-, orderpick-, palletizing- and industrial washing lines, both in food and non-food environments. This enables us to design, produce and realize turnkey projects of any size. Multiple uniquely designed projects and references in many different sectors, prove the unique position of Viscon Warehouse Automation in the market.

Dare to innovate and let our automation boost your competitiveness. Upgrade your production process with us and capture the benefits of scale, speed and control at lower operational costs.

Businesses we serve:

CHEESE & DAIRY | MEAT & POULTRY
FRUIT & VEGETABLES | FOODSERVICE



FOCUS ON INNOVATION

Why choose Viscon?

Innovation & expertise

With more than 60 years of experience and a strong focus on innovation, we provide customized solutions that perfectly match your specific needs.

Efficiency & cost savings

Streamline your logistics processes and reduce operational costs without compromising on quality.

Customer-centric solutions

We understand that every business is unique. That's why we offer flexible solutions tailored to your requirements and goals.



layout design
& consultancy



in-house build
hard- & software



seamless third-party
integration

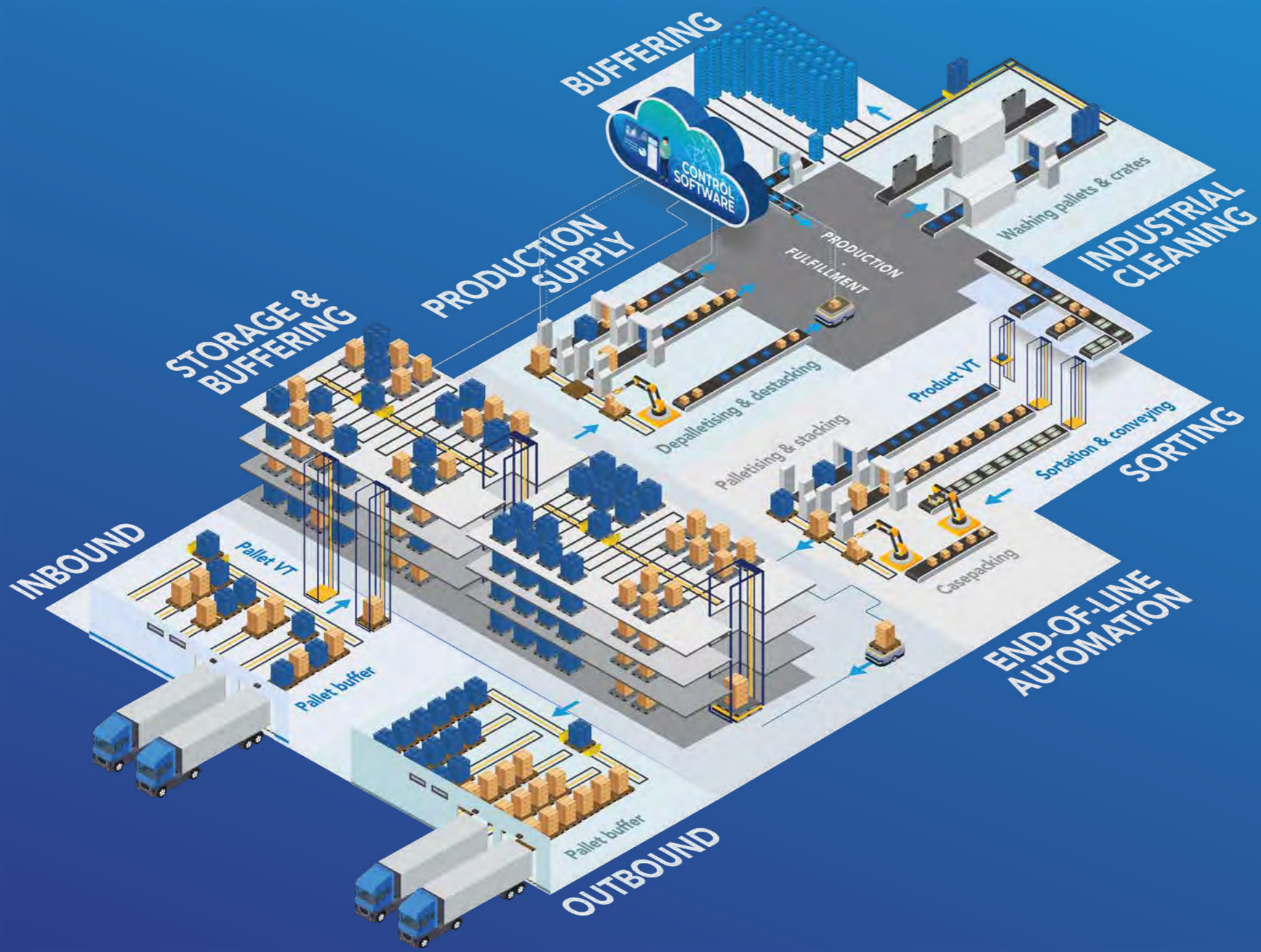
Optimize your production with automated intralogistics

We specialize in moving pallets and crates from docks to production lines and back. Our solutions match with the fast-paced demands of food processing and manufacturing. Whether products are being cut, packed or assembled: let us take care of the rest

We take care of the total project management from concept to commissioning. It's about the integration of equipment into a complete system. Powered by software that creates higher efficiency and performance of your facility.

OUR EXPERTISE

- ⊙ Pallet storage
- ⊙ Pallet handling
- ⊙ Crate & box handling
- ⊙ Traceability & control software
- ⊙ Pallet lifts
- ⊙ (De)Palletising
- ⊙ Conveyors
- ⊙ Robotics
- ⊙ AGVs / AMRs
- ⊙ Crate cleaning



FULLY AUTOMATED

Pallet storage systems

Viscon provides automated storage and retrieval systems (ASRS) for warehousing, distribution centres and production facilities. Using sophisticated modules, we are able to create solutions that are easy to adapt in every building, or can be integrated into every logistical challenge. For automated pallet storage, Viscon offers two solutions; a solution that operates with shuttle-satelites or a multi directional and multi level omnishuttles.

Advantages of our Automated Storage and Retrieval System

- ⊗ Based on (3D) pallet shuttles
- ⊗ Single to multi-level storage
- ⊗ Grid-based (multi-level) design
- ⊗ High density storage leads to minimal fixed cost
- ⊗ High throughput (compared to stacker crane systems)
- ⊗ Efficient space utilization (-30% compared to conventional systems)
- ⊗ Scalable
- ⊗ Safe operation since no humans need to be around
- ⊗ Easy integration in new and existing buildings
- ⊗ FIFO and LIFO operations are supported.
- ⊗ 24/7 operation

omnishuttle

- 📦 **Small to big** batches
- ⋯ Medium-high #SKU's
- ⌚ **Medium-low throughput** speed
- 📏 Short storage lanes
- 📦 High storage density
- 🔧 Flexible layouts, working **independently**
- 📊 **Barcode** positioning in main aisle
- 📶 **Wi-Fi** communication
- 🔋 48V **battery**
- 🌡️ **Temperature** range -25°C to 40°C

shuttlesatellite

- 📦 **Big** batches
- ⋯ Low #SKU's
- ⌚ **High throughput** speed
- 📏 Deep storage lanes
- 📦 Highest storage density
- 🔧 Working **in pairs**
- 📊 **Laser** positioning in main aisle
- 📶 **Wi-Fi + r-coax** communication
- 🔋 48V **Ultra Capacitor** (no charging required)
- 🌡️ **Temperature** range -25°C to 40°C

MULTI-LEVEL STORAGE SYSTEM

shuttlesatellite

Viscon's proven reliable shuttle-satellite system allows to (un)load pallets for the automated warehouse at high speeds.

Pallets are brought to the appropriate storage lane by the shuttle and and driven into the lane by the satellite. In the meantime a next pallet is brought up by an elevator and buffered at the main aisle. This parallel operation ensures the highest throughput speeds.

The shuttle is powered by a rail along the main aisle, while the satellite is charged by a capacitor when it is positioned on the shuttle. The system is therefore able to operate 24/7 without interruption.

Multiple load carriers



Stores and handles pallets and similar sized products, such as pallet boxes, bins, racks, gitter boxes and tray systems.

Single or multi-level



The single or multi-level system keeps up with your most demanding peaks and offers the highest storage density.

Ambient to freezing



Operates in -25° to +40°C. Thanks to its charging technology Matrix can be operated in cooling and freezing conditions.



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TO SEE VIDEO
LIVE IN ACTION

Optimal storage density

You may choose the Shuttle-satellite as the best solution when continuous (24/7) operation is required, since the shuttle is powered by a power rail and the satellite is recharged by a capacitor when it is positioned on the shuttle.

Matrix shuttle-satellite system benefits

- ⊙ Highest possible storage density.
- ⊙ Mixed FIFO/LIFO operation possible in one warehouse
- ⊙ Improved storage density; 70% increase compared to traditional systems.
- ⊙ Very suitable for use in the deep-freeze environment.
- ⊙ High throughput thanks to intelligent storage strategies.

MULTI-LEVEL STORAGE SYSTEM

omnishuttle

The OmniShuttle is specifically designed for high-density storage systems by offering unmatched flexibility and operational efficiency. Unlike traditional systems, the OmniShuttle combines the capabilities of both a shuttle and a satellite into a single, integrated solution.

Hybrid functionality

This hybrid functionality allows the OmniShuttle to move effortlessly across multiple levels, as well as in multiple directions, both horizontally and vertically. Whether you're dealing with diverse product flows, limited space, or varying order volumes, the OmniShuttle ensures seamless and efficient material handling, optimizing every inch of available storage.

The OmniShuttle supports both LIFO (Last In, First Out) and FIFO (First In, First Out) putaway strategies, giving you the flexibility to manage your inventory in the way that best suits your business. Whether dealing with a high number of SKUs or handling small batch sizes, the OmniShuttle is built to accommodate various operational needs efficiently.

Flexible upscaling for elevated efficiency & growth



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& LEARN MORE!



Enhance storage efficiency and boost productivity

With its versatility, the OmniShuttle delivers optimized performance, tailored specifically to the unique needs of your warehouse. You may choose the Omnishuttle as the best solution when:

- Ⓞ High throughput is required. Multiple shuttles can drive at each level, and they can move from one aisle to another very easily.
- Ⓞ Low throughput is required. The Omnishuttle can be moved from one level to another by the elevator so less shuttles can be used compared to using shuttles-satellites.
- Ⓞ Scalability and flexibility is required. Seamlessly add shuttles as your business grows to maintain efficiency, while adapting to changing product flows, orders, and evolving business needs
- Ⓞ Maximized storage density is required. Flexible design utilizes every inch of space, regardless of building shape.

PALLET HANDLING

Fast & predictable pallet flows

Viscon provides solutions for automated pallet handling in production, packaging and distribution processes. From incoming goods to storage and production supply, and dispatch of finished goods towards expedition.

Our portfolio consists of configurable pallet conveyors, shuttles, lifts, palletisers and stackers. Third-party solutions for robotics or AGVs can be integrated to create the best handling system. Our experience in material handling covers practically every part of the process connected with the handling of crates, boxes and other types of similar sized product carriers.

System integration

We design the pallet handling system, integrate all equipment and software and hand over a seamlessly working process. A flexible approach is possible thanks to our in-house engineering, production and software capabilities.



CRATE & BOX HANDLING

Covering every part of the process

The experience of Viscon in material handling covers practically every part of the process connected with the handling of crates, boxes and other types of similar sized product carriers.

Viscon provides a diverse range of handling and transportation systems in processes like conveying, (de)stacking, (un)loading, crate (un)folding, sorting, order picking, buffering and palletizing.



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& LEARN MORE!

SOFTWARE INTELLIGENCE

Traceability: Track every product's journey in real time. Our software suite provides full transparency and traceability, ensuring compliance, issue resolution, and continuous improvement.

Material flow control: Dynamically orchestrates material movement, optimizing workflows and ensuring smooth transitions between production stages.



Vertical pallet transfer solutions

Vertical pallet transfer solutions are often used for vertical storage of goods on multi-level warehouses or mezzanines. Due to its compact size, the Viscon elevator can be perfectly integrated into almost any position in a warehouse.

Design specifications:

- ⊙ High capacity, up to 90 pallets/hour.
- ⊙ Wide weight range up to 1500 kg.
- ⊙ Suitable for multiple pallet sizes.
- ⊙ Precise positioning of the carriage.
- ⊙ Transport height up to 30 meters
- ⊙ Compatible with other types of warehouse equipment (hand pallet wagons, forklifts, AGV/AMR, conveyors, etc.);
- ⊙ Long service life

The Viscon elevator can be supplied complete with:

- ⊙ In and outfeed conveyors; roller, chain or slat
- ⊙ Side guides
- ⊙ Single or double mast lift.
- ⊙ Safety fences and light barriers
- ⊙ Control system and scanners



Palletizing solutions

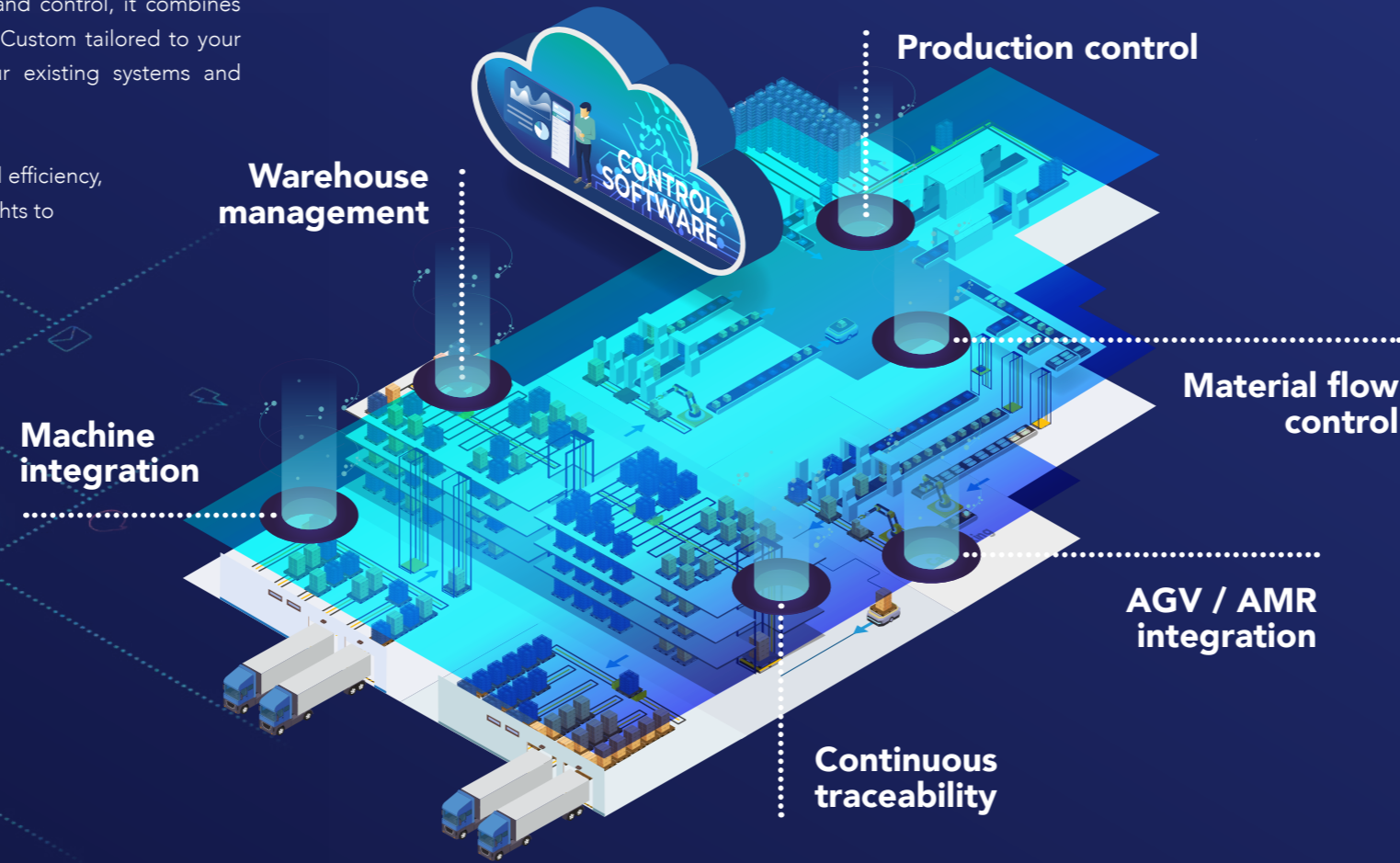
Viscon offers a wide range of palletizing solutions, from 'semi' automatic up to most sophisticated multi-load palletizing machines. Our palletizing systems are applicable for a wide variety of products, like boxes, crates, trays or any product of a rectangular design. The type of machine depends on your specific needs, like desired capacity, stacking pattern, pallet formats, but also stability of the product.

The palletizing systems can be integrated with pallet strapping and stretch foil wrapping systems. Our pallet strapping machines can provide the pallet with one or more straps and comes with the option of a corner board dispenser. Viscon also offers a wide range of stretch wrapping systems to protect and secure loads for transportation, making processes faster and more productive.

Your entire operation run by one software suite.

Unlock the full potential of your automated warehouse with Viscon Factory Intelligence software. Designed for maximum efficiency and control, it combines every aspect of your operation into one single platform. Custom tailored to your unique requirements, it integrates effortlessly with your existing systems and equipment, ensuring optimal control and efficiency.

Enriched by powerful visualizations it enhances operational efficiency, minimizes downtime and provides real-time workable insights to ensure your business stays ahead of the curve. Whether in manufacturing, agro-food, or logistics, it delivers precision, productivity, and future-proof technology.



SCAN QR CODE & LEARN MORE!

Production performance

Peak Performance

Smooth, uninterrupted operations with intelligent automation, minimizing downtime & maximizing efficiency.

Maximum Storage Capacity:

Utilize every inch of your warehouse with smart storage algorithms and dynamic material flow management.

Scalable & Customizable:

Adapt to changing business needs with a modular, flexible platform designed for future growth.

Real-time Insights:

Gain complete visibility into your operations with live data & predictive analytics, enabling proactive decision-making.

Seamless Integration:

Connect with existing systems and equipment, ensuring a unified, hassle-free transition to smart automation.



WORLDWIDE NETWORK

About Viscon

We are passionate about Agro and Food processes and the limitless possibilities technology has to offer. Our software, machinery, and solutions enable the world to produce, distribute and enjoy healthy fresh food, flowers and plants. Since its establishment in 1927, the family-owned company has grown into an international organization, active in various Agro & Food sectors.

Our extensive experience in each market we operate in enables us to understand the operations, opportunities and challenges of our customers. This enables us to make the best production layouts for your company.

We design and build the entire process, combining Viscon automation with specific equipment sourced from carefully selected partners. This means you will always find the best solution. With Viscon you have access to a one-stop-shop. We design, we build and we fully integrate. We even add intelligent software to give you optimal control and management of your business.



WORLDWIDE NETWORK

Customer Stories



Growers United

An automated pallet storage system to buffer and store incoming fresh produce. A combination of lifts, shuttles and wireless satellites allow for flexibility when considering the vast quantity of products.



Vergeer Holland

Three fully automated storage systems, dozens of shuttles which operate simultaneously, and one professional software infrastructure ensure Vergeer Holland is ready for the future.



SPC Group

The SPC Group wanted a fully automated storage solution in their factory to bring the buffer of raw materials to the production floor. Viscon was asked to implement an automated storage system for cooled and frozen products.



Optimize your production with automated intralogistics



Viscon Group

Mijlweg 18
3295 KH 's-Gravendeel
The Netherlands

+31 (0) 78 673 98 98
www.viscon.eu