



VISCON
warehouse automation

GENERAL BROCHURE

Warehouse automation & production logistics

Maximize efficiency & scalability in your internal logistics

At Viscon, we believe true efficiency is achieved when production and logistics are fully aligned. With decades of experience in the food sector and beyond, we develop solutions that meet the highest standards for hygiene, speed, scalability, and control.

Our strength is built on three pillars:

HARDWARE

We deliver proven, high-performance machines and integrated solutions for storage and handling of pallets and crates. Built in-house and strengthened by trusted hardware partners, our systems scale flexibly to fit any production logistics need.

SOFTWARE

With our Viscon Factory Intelligence (VFI) platform, we offer next-generation software solutions that form the digital backbone of your internal logistics. Connecting all hardware and processes into one smart, real-time controlled system, providing complete traceability and seamless integration with your existing systems.

END-TO-END SOLUTIONS

We offer turnkey projects and full system integration From goods receipt and storage to packing and data insights. We deliver turnkey solutions that scale with your business and empowers you with real-time control and optimization through data.



FOCUS ON INNOVATION

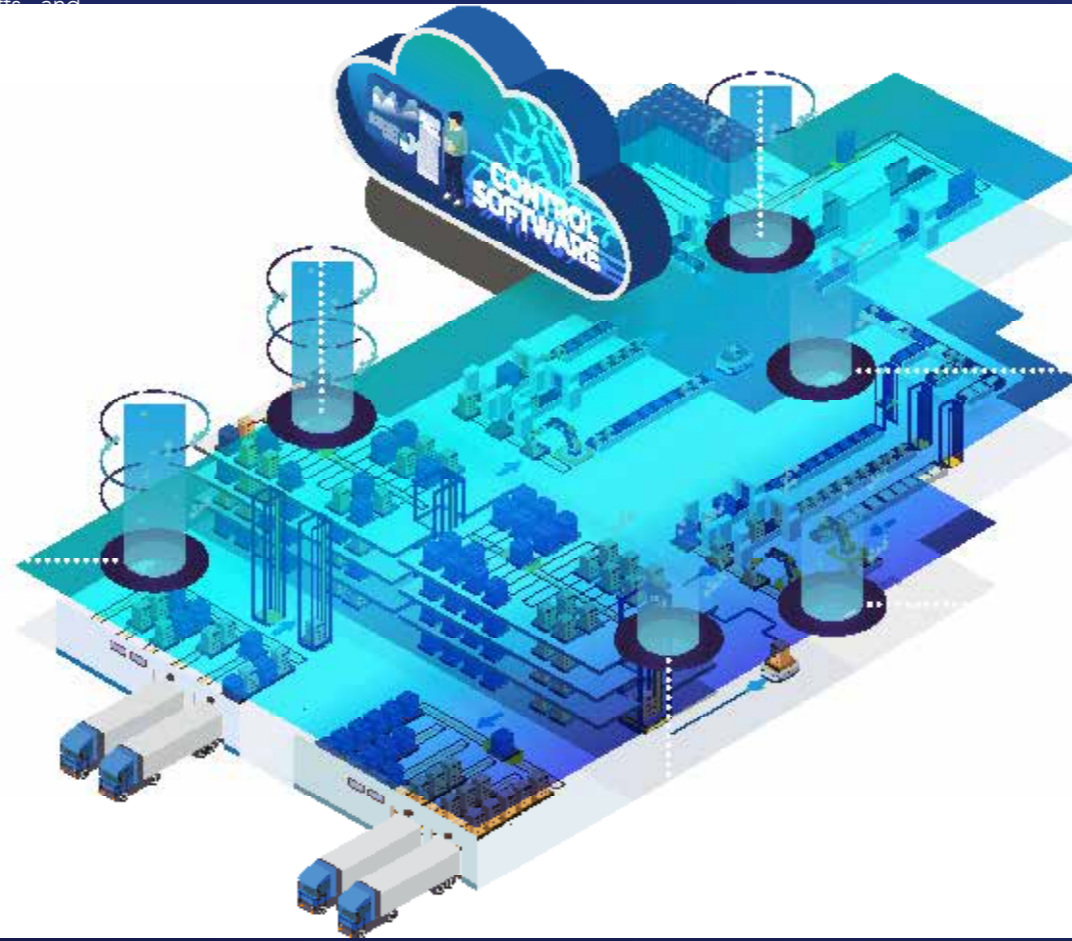
Ready for tomorrow's growth.

Our integrated systems and intelligent software optimize every step of your internal logistics process: from goods receipt and crate handling, through processing, washing, and packaging, to storage and outbound shipping. Expertise in hardware and software strengthens our value as a system integrator and allows for a customer centric design approach

The result? Higher throughput, operational efficiency, compliance, and lower costs. Invest in efficiency and scalability today, so your operations are ready for tomorrow's growth and you maximize your ROI.

The digital backbone of your automated warehouse

In a modern warehouse, everything revolves around speed, control, and scalability. Viscon Warehouse Automation provides the hardware. From shuttles, lifts, and conveyors to advanced ASRS systems like Matrix and Onyx, it enables your internal logistics. But the added value lies in connecting and optimizing all hardware and processes through smart software, for maximum efficiency and control. Viscon Factory Intelligence (VFI) is the software platform that brings all hardware and processes together into one integrated, real-time controlled system.



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Strengthen your production logistics

While Viscon Warehouse Automation ensures the physical movement of pallets, crates, and boxes throughout your warehouse, Viscon Factory Intelligence provides the digital orchestration. Connecting all machines, sensors, systems and offers:

Real-time insight into inventory, production, and bottlenecks via user-friendly dashboards and visualizations.

Traceability of every product and batch, essential for compliance, audits, and quality assurance.

Material flow control: Dynamic management of goods flows, from goods-in to shipping, with optimal route planning and task sequencing.

Seamless Integration with existing systems like MES, WMS, WCS, and ERP. Reducing complexity and bridging the gap between ERP, warehousing and production.

Predictive analytics: Proactive intervention and minimization of downtime.

Warehouse management: Intelligent control of the warehouse, inventory management and integration of all equipment.

AI Vision software: Automated quality control, defect detection, and product grading.

Vendor-independent integration: Connection with shuttles, AGV/AMR, and external hardware.

Get the most out of your automation

With Viscon Factory Intelligence, you get the most out of your warehouse automation:

Peak performance and maximum uptime: Intelligent automation ensures smooth, uninterrupted processes and maximum efficiency.

Maximum storage density: Through smart algorithms.

Scalable, modular software that grows with your operation, from a single line to fully automated facilities.

Real-time dashboards & visualizations: Real-time, intuitive dashboards give you full control over your operations, enabling immediate decisions and adjustments when it matters most.



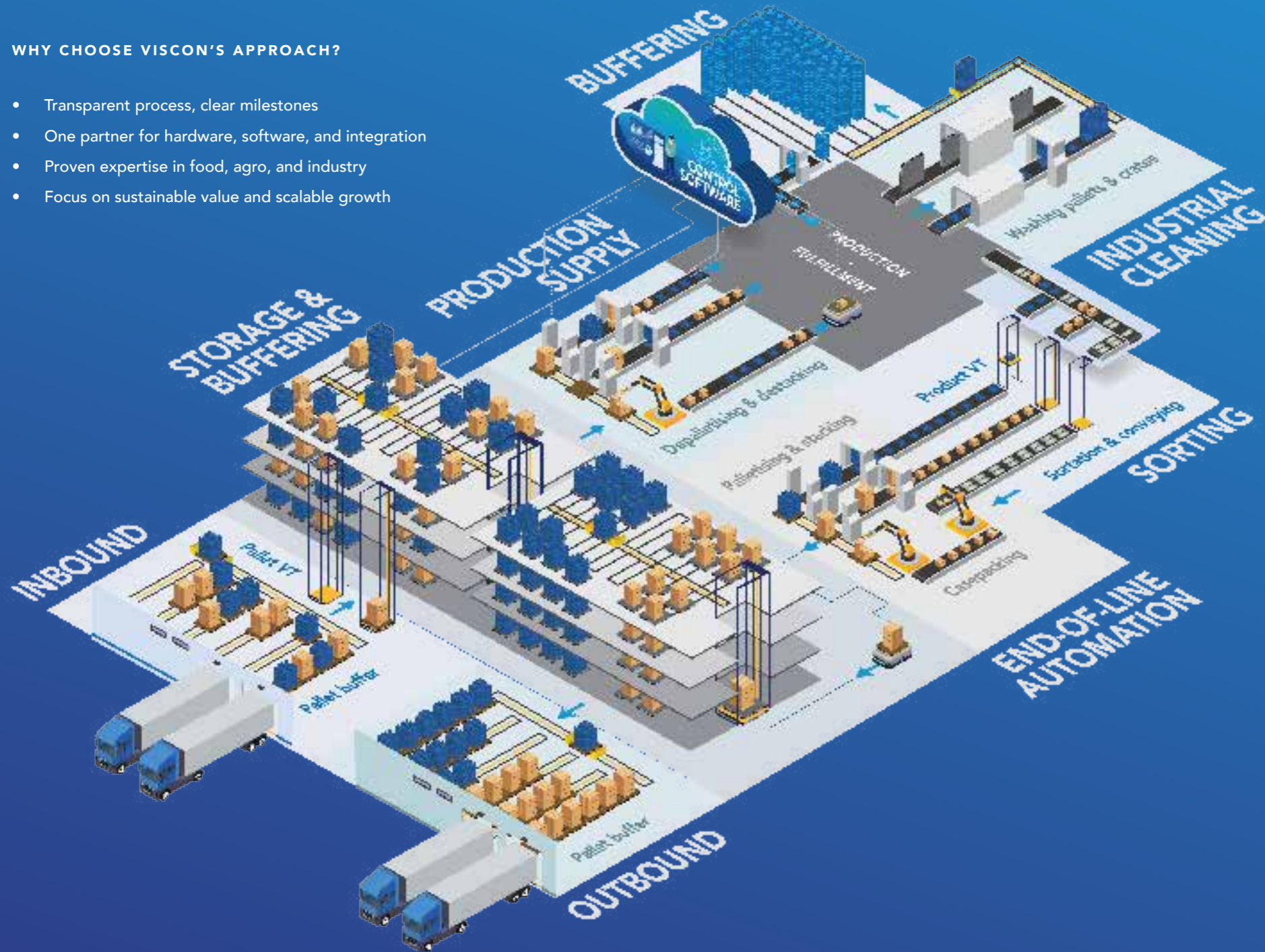
Customer Benefits

- ⊙ Efficiency and cost savings through optimal alignment of hardware and software.
- ⊙ Flexibility and future-proofing thanks to modular design and integration with existing systems.
- ⊙ Complete control over your internal logistics, from goods receipt to shipping.
- ⊙ Data-driven growth: VFI turns data into valuable insights and concrete optimizations.

With Viscon Factory Intelligence as the digital backbone of your warehouse, you are ready for the future. Optimize your production, increase your ROI, and make your logistics smarter, faster, and more scalable than ever.

WHY CHOOSE VISCON'S APPROACH?

- Transparent process, clear milestones
- One partner for hardware, software, and integration
- Proven expertise in food, agro, and industry
- Focus on sustainable value and scalable growth



VISCON'S APPROACH TO AUTOMATION

From process insight to **operational excellence**

At Viscon, we believe that every automation project begins with a deep understanding of your business. Combined with deep sector knowledge and innovative engineering, we turn complex challenges into integrated solutions that deliver results.

Step-by-step to success:

CONSULTATION & ANALYSIS

We start with a thorough analysis of your processes, ambitions, and bottlenecks. Together, we define the scope and desired outcomes.

CONCEPT & DESIGN

Our engineers design a tailor-made solution, integrating hardware, software, and layout for optimal performance and scalability.

PROJECT MANAGEMENT

From planning to delivery, our experienced project managers ensure a smooth process, clear communication, and timely completion.

INTEGRATION & TRAINING

We integrate all systems, hardware and software, seamlessly into your operation. Training and support ensure your team gets the most out of the new solution.

SERVICE & GROWTH

After go-live, we remain your partner for service, optimization, and future expansion. Our modular solutions grow with your business.

Solutions & technologies

We provide machine automation, software, and integrated solutions that make your processes more scalable, user-friendly, and sustainably profitable.

As a system integrator, we don't just build machines—we build seamless integrations. Our software platform plays a central role in this, enabling our customers to get the most out of their automated warehouse, logistics center, or production facility.

Our combined expertise in hardware and software strengthens our role as a system integrator and allows us to design customer-centric solutions that truly fit your operation.



Integrated automation for **every step in your warehouse and production process**

At Viscon, we believe intralogistics can be more than just transport and storage. It can be a strategic advantage. That's why we develop innovative hardware solutions that are not only efficient but also evolve with your growth and ambitions.

Whether you're building a new warehouse or optimizing an existing production line, our automated machines and complete lines are designed for maximum storage density, speed, and reliability. With modular design and flexible integration, our systems seamlessly connect to your processes.

MACHINES & AUTOMATED LINES

Automated Storage & Retrieval Systems (ASRS)

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;

Matrix Shuttle-Satellite System:

Delivers the highest storage efficiency, suitable for both FIFO and LIFO, with up to 80% space utilization. Ideal for high capacities, deep-freeze environments and 24/7 operation thanks to intelligent shuttle and satellite technology.

OmniShuttle:

The innovation for high-density storage. Multi-level, multi-directional, and flexibly scalable. Suitable for a wide range of SKUs, batch sizes, and order volumes. Perfect for companies seeking maximum flexibility and growth potential.

omni^{shuttle}

- 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 -20°C to 40°C

shuttlesatellite

- Big** batches
- Low #SKU's
- High throughput** speed
- Deep storage lanes
- Highest storage density
- Working **in pairs**
- Laser** or barcode positioning in main aisle
- Wi-Fi + r-coax** communication
- 48V **Ultra Capacitor** (no charging required)
- Temperature** range -20°C to 40°C

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, gutter boxes and tray systems.



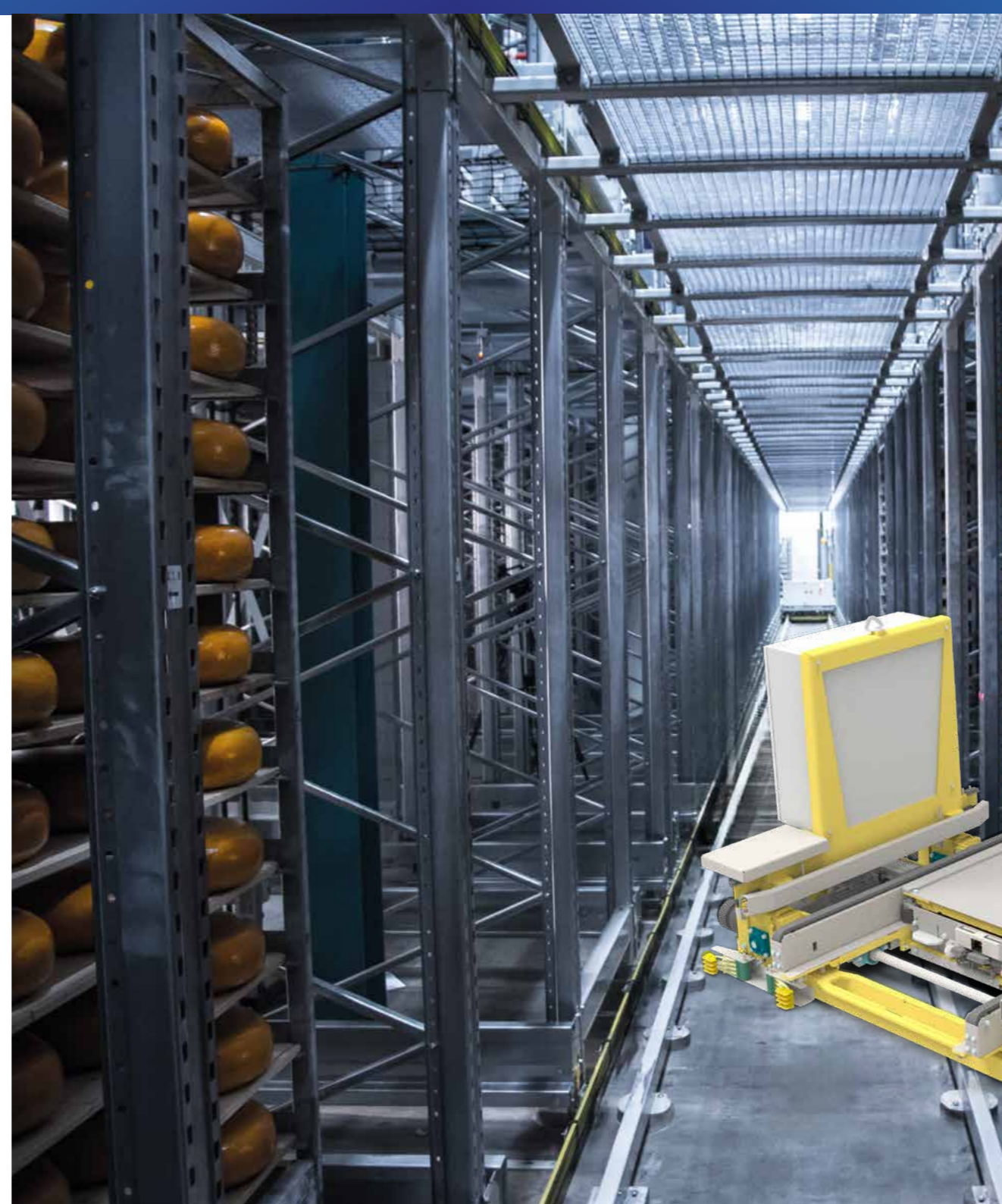
Single or multi-level

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



Ambient to freezing

Operates in -20° to +40°C. Thanks to its charging technology Matrix can be operated in cooling and freezing conditions.



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.



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



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.



MACHINES & AUTOMATED LINES

Pallet Handling & Vertical transport solutions

Pallet lifts:

Compact, powerful lifts for vertical pallet movement up to 30 meters high and 1,500 kg. Seamlessly integrable into any warehouse, with high capacity up to 90 pallets/hour.

Palletisers & Depalletisers:

From semi-automatic to fully automated, suitable for boxes, crates, and trays. Can be combined with strapping and stretch wrapping for maximum load stability and protection.



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MACHINES & AUTOMATED LINES

Conveyors, AGVs & Material Flow

Pallet & Crate Handling Lines:

Fully integrated conveyors, shuttles, AGVs, and lifters for smooth internal logistics and supply to production.

Production & Conveyor Lines:

Connects every step in the production process into one integrated flow. From raw material to packaging.

Washing Lines:

Automatic cleaning of crates, pallets, and containers for optimal hygiene, essential in food logistics and return packaging.

Why choose Viscon hardware?

- ⊙ Maximum use of space and capacity
- ⊙ Speed, reliability, and flexibility
- ⊙ Full integration with software and other systems
- ⊙ Solutions for both individual machines and complete lines

WORLDWIDE NETWORK

About Viscon

Viscon has been a family business with a passion for technology and innovation since 1927. We specialize in automating internal logistics and production processes, offering smart hardware, intelligent software, and fully integrated turnkey solutions. Whether it's advanced warehouse automation, pallet handling, robotics, or traceability: we design, build, and integrate systems that perfectly match the needs and growth ambitions of our customers.

Our strength lies in truly understanding your logistical challenges. Thanks to our broad experience in the agro, food, and industrial sectors, we know exactly what's happening in your market. Together, we create the optimal solution for your warehouse or production environment. From consultancy and design to implementation and service.

But Viscon is more than just intralogistics. With specialized business units, we provide automation solutions worldwide for food production, plant propagation, hatcheries, packaging lines, and industrial processes. This way, we help companies in various sectors work smarter, more efficiently, and future-proof.

Curious what Viscon can do for your organization? Discover our solutions or contact us for an inspiring conversation!



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WORLDWIDE NETWORK

Customer Stories



Growers United

Challenge: Buffering large volumes of incoming fresh produce
Solution: A fully automated Matrix storage system with over 3,000 pallet positions
Technology: Integrated lifts, shuttles, and wireless satellites
Result: Flexible handling of diverse product flows and seamless supply to packing and distribution zones



Vergeer Holland

Challenge: Scaling storage and logistics for cheese production
Solution: Three fully automated storage systems with dozens of shuttles operating simultaneously
Technology: Unified software infrastructure for real-time control
Result: Future-proof logistics with high throughput and full traceability across production and warehouse



SPC Group

Challenge: Automating raw material buffering within the factory
Solution: Implementation of the Matrix storage system to feed production lines directly
Technology: End-to-end integration from receiving to production
Result: Efficient supply of raw materials to the production floor, reducing manual handling and improving flow continuity frozen products.



Optimize your production with automated intralogistics



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