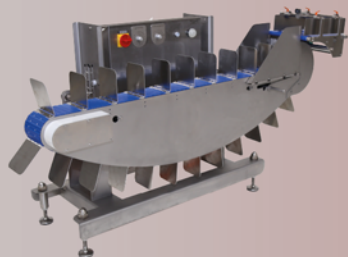


END-OF-LINE AUTOMATION



Convergers
Inspection
Packaging
Complete systems
Special solutions
Conveyors



p-u-l-s-o-t-r-o-n-i-c

ANLAGENTECHNIK



Pulsotronic-Anlagentechnik GmbH has its registered offices in the Chemnitz-Zwickau business area of Niederdorf/Stollberg. Because of the permanent, positive development of the business, a new complex of buildings was erected in 2007 directly on the A72. The structural facts, latest production equipment and a motivated work force permit a top-flight degree of innovation and flexibility.

Pulsotronic develops, produces and sells metal detectors, separators and custom equipment based on many years of experience in the plastics and recycling industry. Further innovative products were successfully introduced in the food industry and in other branches of industry.

Our products distinguish themselves through their high reliability, sensitivity and user-friendliness. A team of engineers permanently works on improvements and customer-specific solutions. The development and production of all the products and custom systems occurs completely at the site in Niederdorf. Thus, it is possible for us to try out new processes and principles and to put them into practice as quickly as possible. In addition, we utilize the synergies of our Group of Companies. We are able to access all the areas quickly, thereby ensuring our flexibility, regardless of whether this involves our high efficient toolmaker's shop, plastic transfer molding, electronic fabrication or EMC laboratory.

Quality assurance and environmental protection are central components of Management. Pulsotronic-Anlagentechnik has been ISO 9001-2015 -Quality Management System- and ISO 14001-2015 -Environmental Management System- certified. The company has been certified according to DIN ISO 50001:2011 energy management system in 2016. Pulsotronic-Anlagentechnik to supported all aspects of the „ZVEI-Code of Conduct for social responsibility“.

Are you unable to find the product you require in the brochure?
Do you require a custom solution?
Do you have any questions or suggestions?

Our sales engineers are happy to advise you on site.



Performance Overview

Extensive technical knowledge and outstanding on-site service belong to the basic prerequisites for a successful machinery and systems business. We would be pleased to tackle your tasks, while remaining loyal to our motto:

„Pulsotronic - complex solution from one source“

PRODUCT INSPECTION



- Metaldetectors
- Optical Inspection system
- Checkweighers
- Software

END-OF-LINE-AUTOMATION



- Converger
- Inspection
- Packaging
- Complete lines
- Special solutions
- Conveyors

PV4

■ High-performance

■ Universal

■ Compact

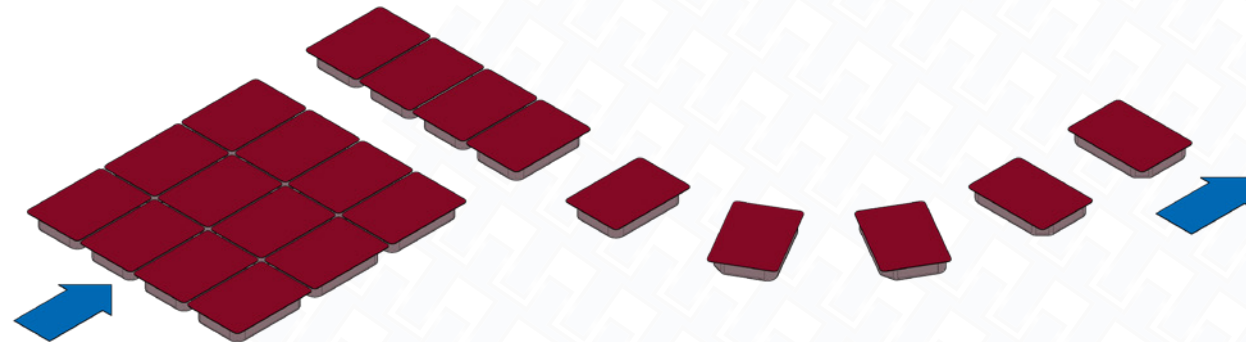
■ Low-maintenance

■ Reliable

The converger PV4 is able to serialize a variety of different products safely and quickly. The operating principle also allows the serialization of products with irregular top film (e.g. vacuum packed). The products are treated very gently, which means that even the most sensitive top film and imprints aren't affected.

Special features

- High speed (12 cycles/min)
- Homogenous product flow (160 products/min)
- Format length up to 800 mm
- Tool-free changeover for combinations of patterns
- Integrated transfer belt
- Empty packaging control and removal of complete product lines
- Integrated bin for empty packs
- Integrated electronic cabinet
- Compact design
- Open frame design
- Optimal accessibility for cleaning and maintenance
- Standardized machine interface OPCUA



Conveyors & kinematic

- Optimized for maximum performance
- Very smooth running
- Few moving parts
- Long service life
- Energy efficient

Drive & control technology

- Servo drives
- Energy efficient
- Intuitive operating
- Remote maintenance
- Data interface OPCUA for Industry 4.0

Empty packaging control and removal

- Sensor based
- Discharge of affected product lines
- Integrated bin for empty packs

PV7

■ High-performance

■ Reliable

■ Flexible

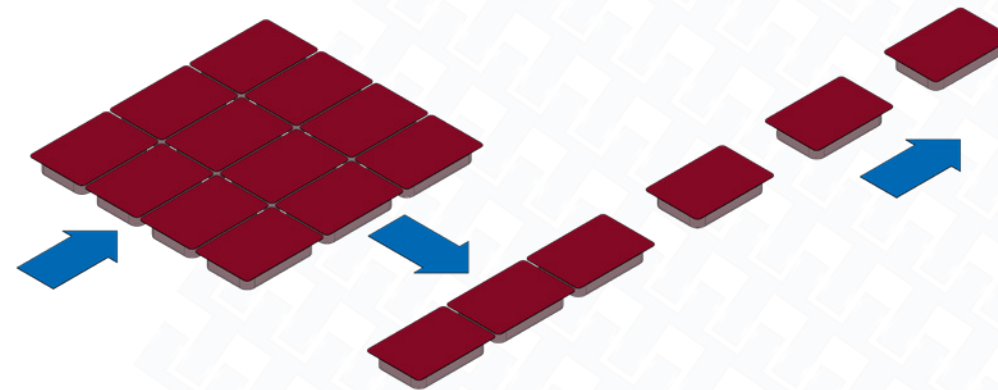
■ Compact

■ Low-maintenance

The converger PV7 is setting new standards in the field of serialization technology. It combines maximum performance with maximum flexibility and process reliability. A special feature is the very homogenous flow of product as a basis for the automatization of inspection and secondary packaging. A huge number of versions and accessory enable flexible and universal usage. The PV7 is compatible with all thermoforming machines. High quality components and good workmanship ensure best reliability and minimal costs for maintenance.

Special features

- High speed (17 cycles/min)
- Homogenous product flow (300 products/min)
- Format length up to 1,400 mm
- Tool-free changeover for combinations of patterns
- Integrated transfer belt
- Mono-, combination- and changeover tools
- Empty packaging control and removal
- Integrated bin for empty packs
- Integrated electronic cabinet
- Product rotation
- Compact design
- Open frame design
- Optimal accessibility for cleaning and maintenance
- Standardized machine interface OPCUA



Vacuum gripper & kinematics

- Optimized for maximum performance
- Very smooth running
- Few moving parts
- Long service life
- Gripper individually controlled

Drive & control technology

- Servo drives
- Energy efficient
- Intuitive operating
- Remote maintenance
- Data interface OPCUA for Industry 4.0

Empty packaging control and removal

- Sensor based
- Single pack ejection
- Integrated bin for empty packs
- Data interface to all packaging machines available

PM1 / PM2

■ Simple

■ Flexible

■ Compact

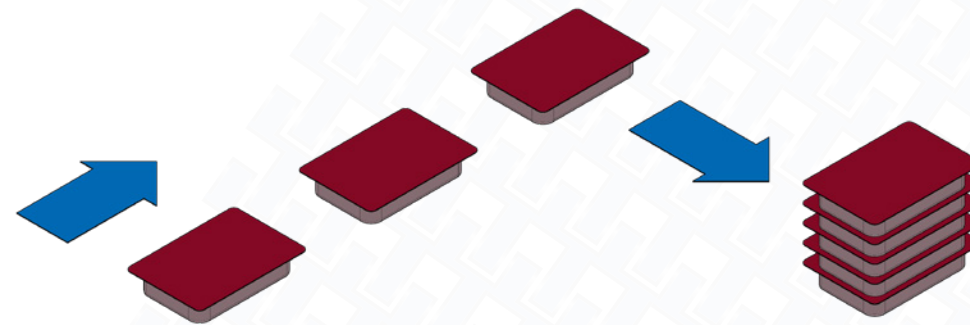
■ Low-maintenance

The new PM1 provides an proper, clean and effective final packaging. Completely revised the 3rd generation of this universal machine is now available. The ease of use and the good ergonomics were further improved. Because of the simple, tool-free change of the belt, a wide range of products can be stacked on one machine. The stacking height is free adjustable and can be adjusted to the number of product per carton or crate. There are two version available with 90 or 180 degree arranged stacking belt.

The completely revised PM2 provides a higher performance with the same flexibility and handling. Both machines are in contrast to comparable machines also suited for products with bad stackability. This makes the machine an optimal solution for lines with permanently changing products and cartons/crates.

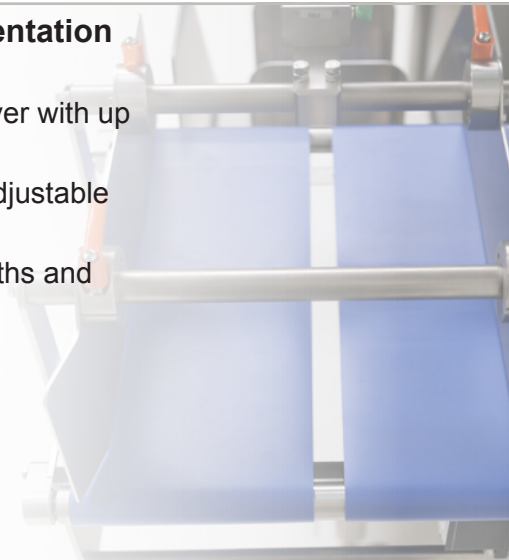
Special features

- For low and medium performance
 - PM1 up to 90 products/min
 - PM2 up to 140 products/min
- Suitable for all product dimension
- Removal conveyor suitable for 1 or 2 operators
- Tool-free belt change (Removal conveyor)
- Integrated transfer belt
- Integrated electronic cabinet
- Compact design
- Open frame design
- Optimal accessibility for cleaning and maintenance



Product transfer & orientation

- Products are taken over with up to 140 pieces/min
- Fine adjustment on adjustable lateral guidance
- Variable products widths and lengths



Stacking & removal conveyor

- Sensor-based counting
- Adjustable stacking height
- Tool-free belt change
- Suitable for different product dimensions
- Up to 30 stacks/min
- Ergonomic removal height
- Storage for empty containers



PM4

High-performance

Reliable

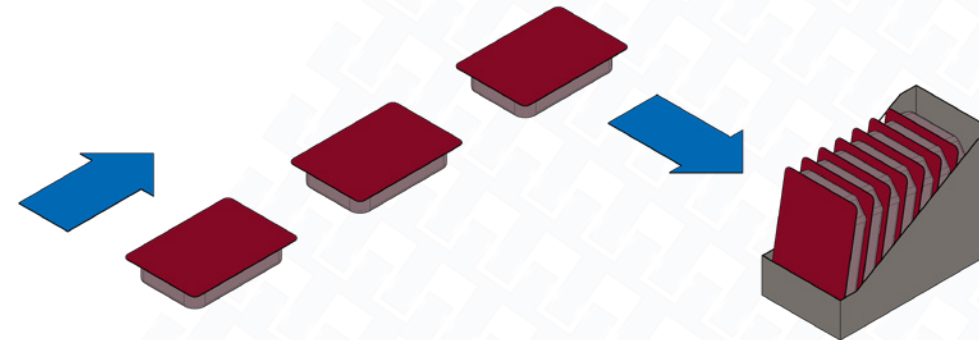
Low-maintenance

Compact

The PM4 offers the optimal solutions for the creation of product stacks and their transfer into cartons. The machine can be adjusted to different product dimensions (optional). The cartons are fed in erected – this means that both manually and automatically erected cartons can be processed. All machines are customized ex factory to the respective products and cartons. This ensures an optimal solution for a wide range of requirements.

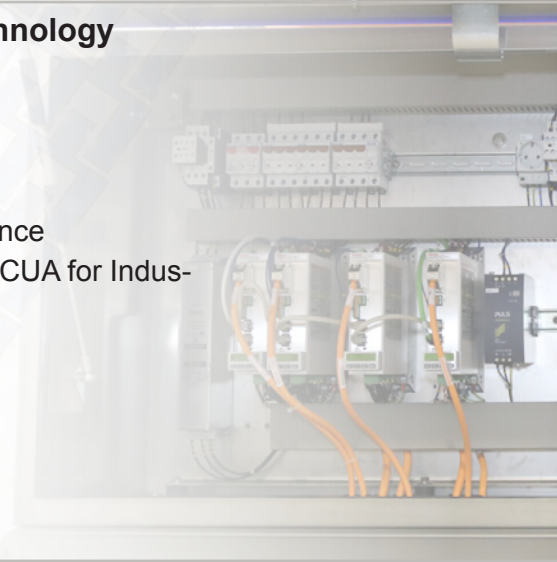
Special features

- Capacity up to 200 products/min
- Up to 25 cartons/min
- Integrated transfer belt
- Continuously adjustable for different product sizes
- Open frame design
- Standardized machine interface OPCUA



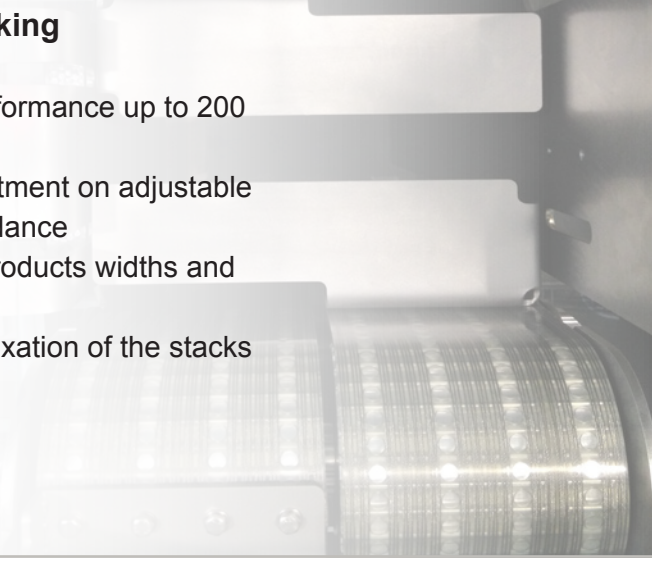
Drive & control technology

- Servo drives
- Energy efficient
- Intuitive operating
- Remote maintenance
- Data interface OPCUA for Industry 4.0



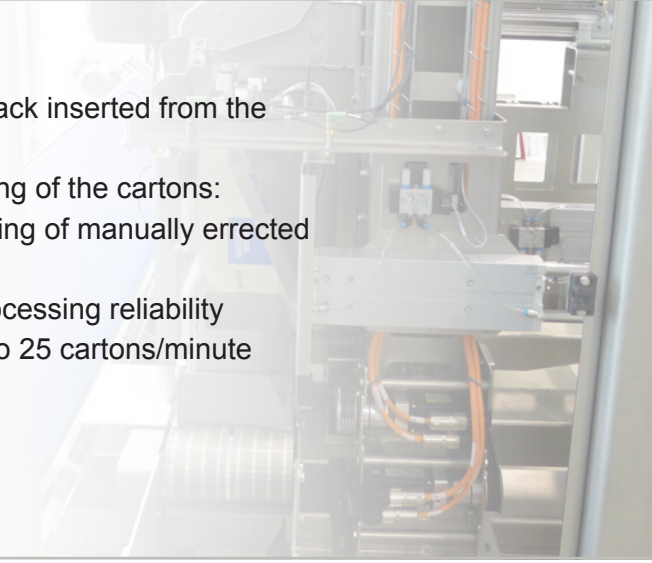
Product stacking

- Infeed performance up to 200 pieces/min
- Fine adjustment on adjustable lateral guidance
- Variable products widths and lengths
- All-round fixation of the stacks



Carton filling

- Product stack inserted from the side
- 4-point fixing of the cartons:
 - Processing of manually erected cartons
 - High processing reliability
- Filling up to 25 cartons/minute



PM6

■ High-performance

■ Reliable

■ Flexible

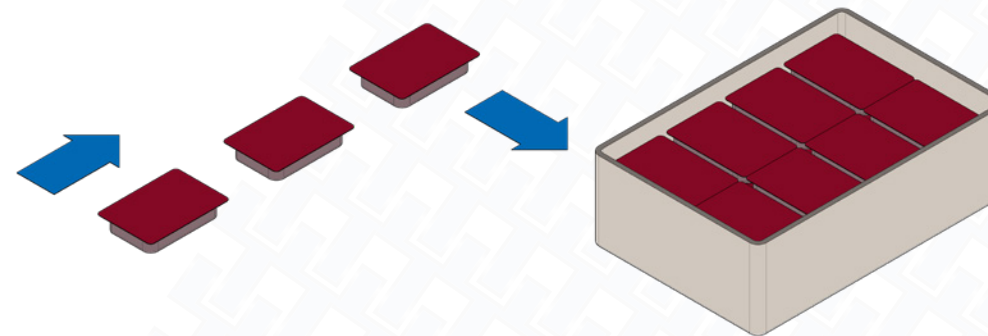
■ Compact

■ Low-maintenance

The PM6 provides an optimal solution for creating horizontal product patterns and placing them in cartons or crates. The machine is able to process a serial product flow with up to 160 pieces/minute. Product pattern will be adjusted according to the application and carton/crate. In contrast to flex pickers or other robot-based solutions, the PM6 is based on a powerful portal kinematic. This is able to pick up multiple products simultaneously. This protects the products and the service life of the machine is clearly superior to other solutions.

Special features

- Capacity up to 160 products/min
- Filling of cartons and crates
- Tool-free changeover for other cartons/crates or products
- Energy efficient
- Customized product pattern
- Long service life
- Standardized machine interface OPCUA



Product infeed & pattern forming

- Active side guidance for exact product orientation
- Pattern forming with dual-form-technology for maximum performance
- Decoupling of all process steps for more stability
- Up to 160 products/min

Drive & control technology

- Servo drives
- Energy efficient
- Intuitive operating
- Remote maintenance
- Data interface OPCUA for Industry 4.0

Kinematic & filling

- Topping mechanism of customized patterns
- Gentle product handling
- Portal system for maximum service life and smooth running
- Integrated conveyors for boxes and cartons
- Integration of printer (etc.)

PM7

■ High-performance

■ Reliable

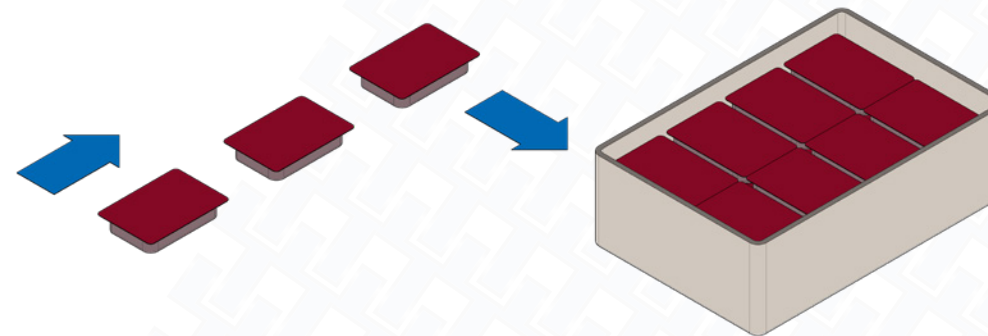
■ Flexible

■ Low-maintenance

The PM7 is well suited for the quick and flexible automated secondary packaging of trays. Up to 90 trays per minute can be packed into crates with a free configurable product pattern. The forming of the pattern is done in multiple steps which is fast and flexible. The downstreamed kinematic gripper the pattern and puts it gently from the top into crates. Several mechanical and vacuum grippers are available for each kind of trays. With the semi-automatic tool-changeover system the adaption of the machine to varying products can be done fast and easily.

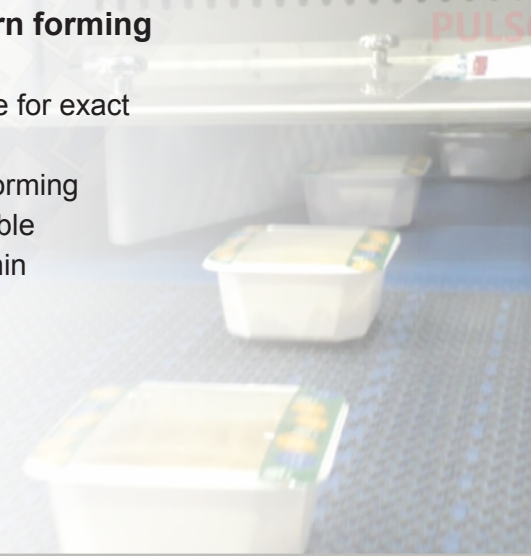
Special features

- Capacity up to 90 products/min
- Filling of crates
- Tool-free changeover for other cartons/crates
- Suitable for all tray-sizes
- Energy efficient
- Customized product pattern
- Long service life
- Standardized machine interface OPCUA



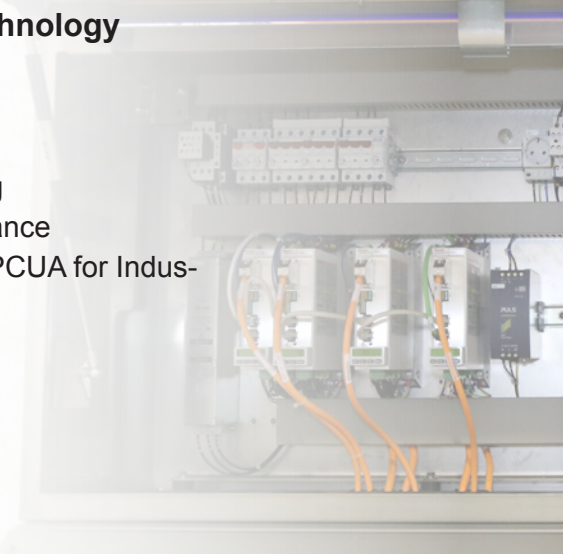
Product inlet & pattern forming

- Active side guidance for exact product orientation
- Multi-level-pattern forming
- Pattern free adjustable
- Up to 90 products/min



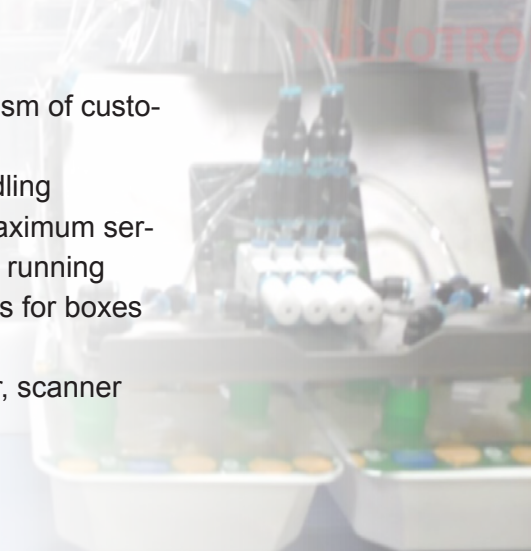
Drive & control technology

- Servo drives
- Energy efficient
- Intuitive operating
- Remote maintenance
- Data interface OPCUA for Industry 4.0



Cinematic & filling

- Toploading mechanism of customized pattern
- Gentle product handling
- Portal system for maximum service life and smooth running
- Integrated conveyors for boxes and cartons
- Integration of printer, scanner (etc.)



LINES

Effective

Efficient

Individual

Compact

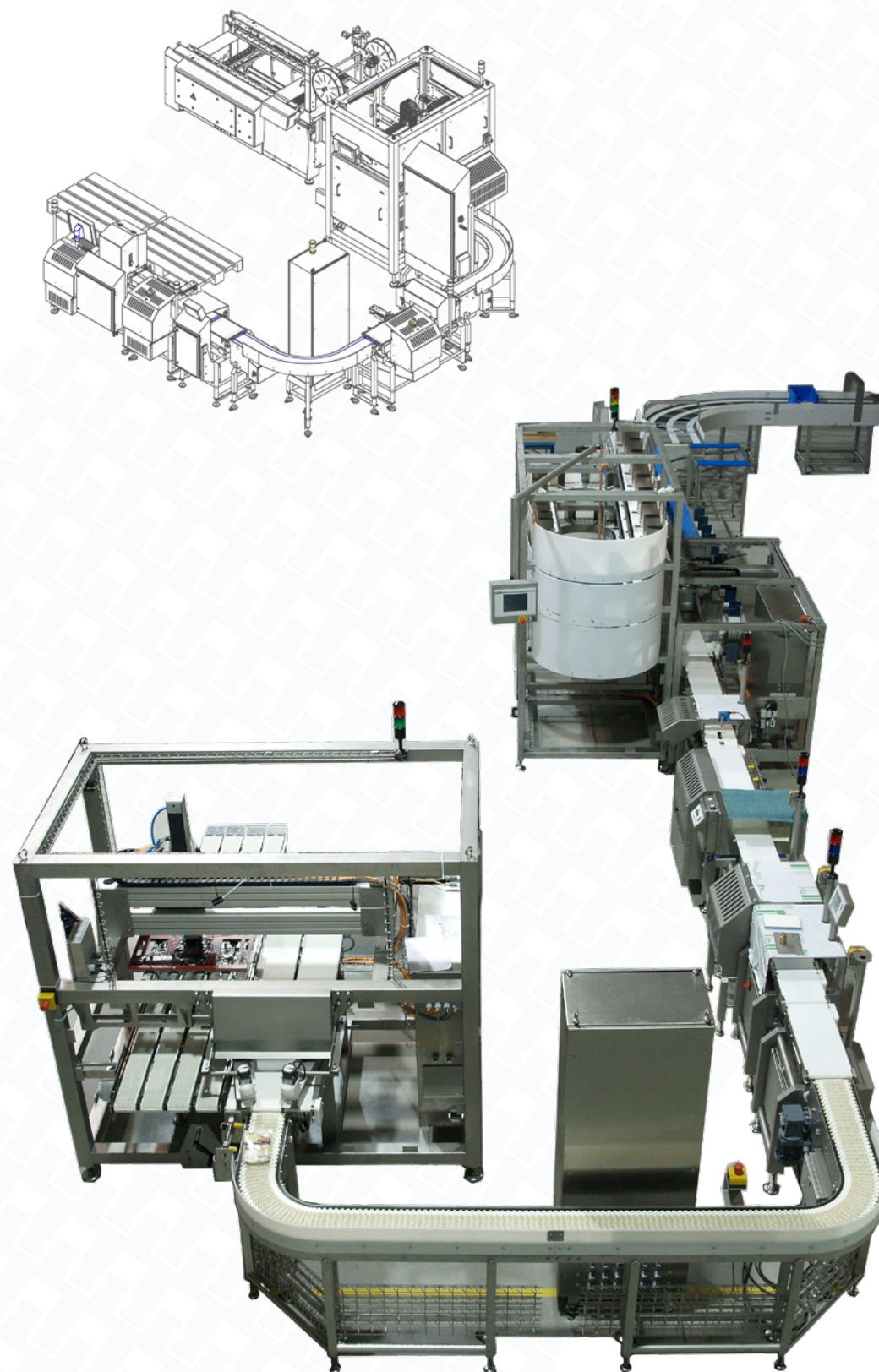
From one source

Based on our wide range of machines, Pulsotronic provides solutions for complete end-of-line-automation with integrated inspection technology from a single source. With our systems, we cover the entire spectrum up to fully automated line solutions. During the realization, the experience comes from the installation of more than 200 special machines.

All components are perfectly fitted to each other – any coordination or incompatible interfaces between different machine manufactures are a thing of the past. The lines are flexible expandable and can be conveniently operated via a central line control. The operation of the system is intuitive and largely identical on the different devices. This reduces the effort for the training of the employees.

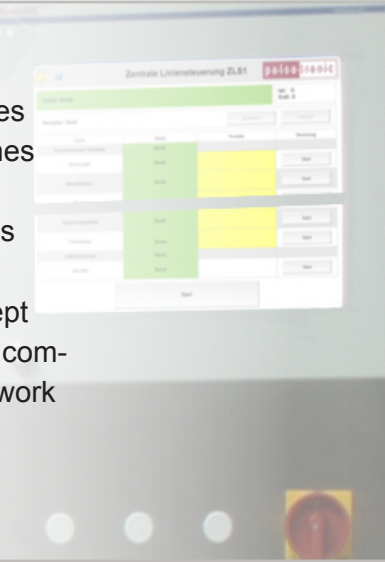
Special features

- Complete solution incl. inspection technology
- Suitable for all performance categories
- Different degrees of automation
- Customized solutions
- Customized line layouts
- Standardized and harmonized interfaces
- Integration of third-party devices
- Expandable
- Central operation and recipe management



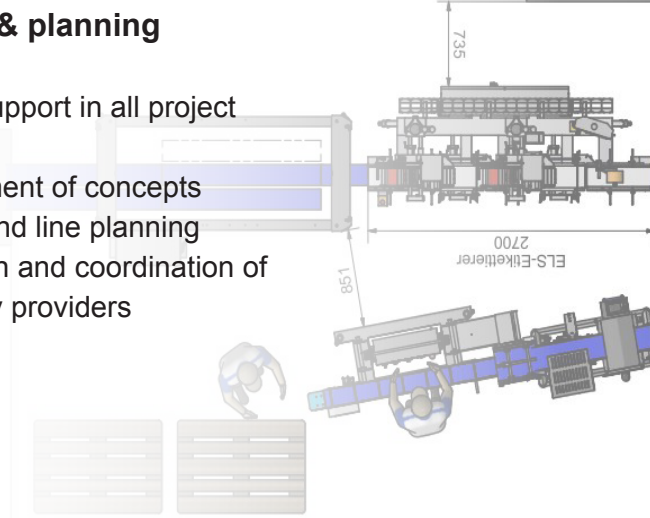
Line controller

- Integration of up to 12 machines
- Central operation of all machines
- Automatic line start and stop
- Total and single machine status display
- Central emergency stop concept
- Supply of all components with compressed air, electricity and network



Conception & planning

- Holistic support in all project stages
- Development of concepts
- Spatial- and line planning
- Integration and coordination of third-party providers



Commissioning and service

- Commissioning by own trained personnel
- Production support and plant optimisation
- Remote maintenance service
- Software updates
- On-site service



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Conveyors

Packing tables

Rotary tables

Special solutions

Inspection systems

You haven't found the right product? Our product range is supplemented by numerous components. We manufacture the right system for every application. All components are made of stainless steel and equipped only with high quality and durable parts. All conveyor systems use only energy-efficient drives. The speeds can be regulated steplessly – this saves energy and protects system.

In addition, there is our product range of metal detectors, checkweigher and optical inspection system.

Special features

- Protection class up to IP69k
- Hygienic design
- High quality
- Individual customized
- Many variants
- Energy efficient





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ISO 14001:2015 / ISO 9001:2015

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