

-ARCO

SOLUTIONS FOR

AGRI & FOOD

*Weighing equipment
Fruit & Vegetable processing*



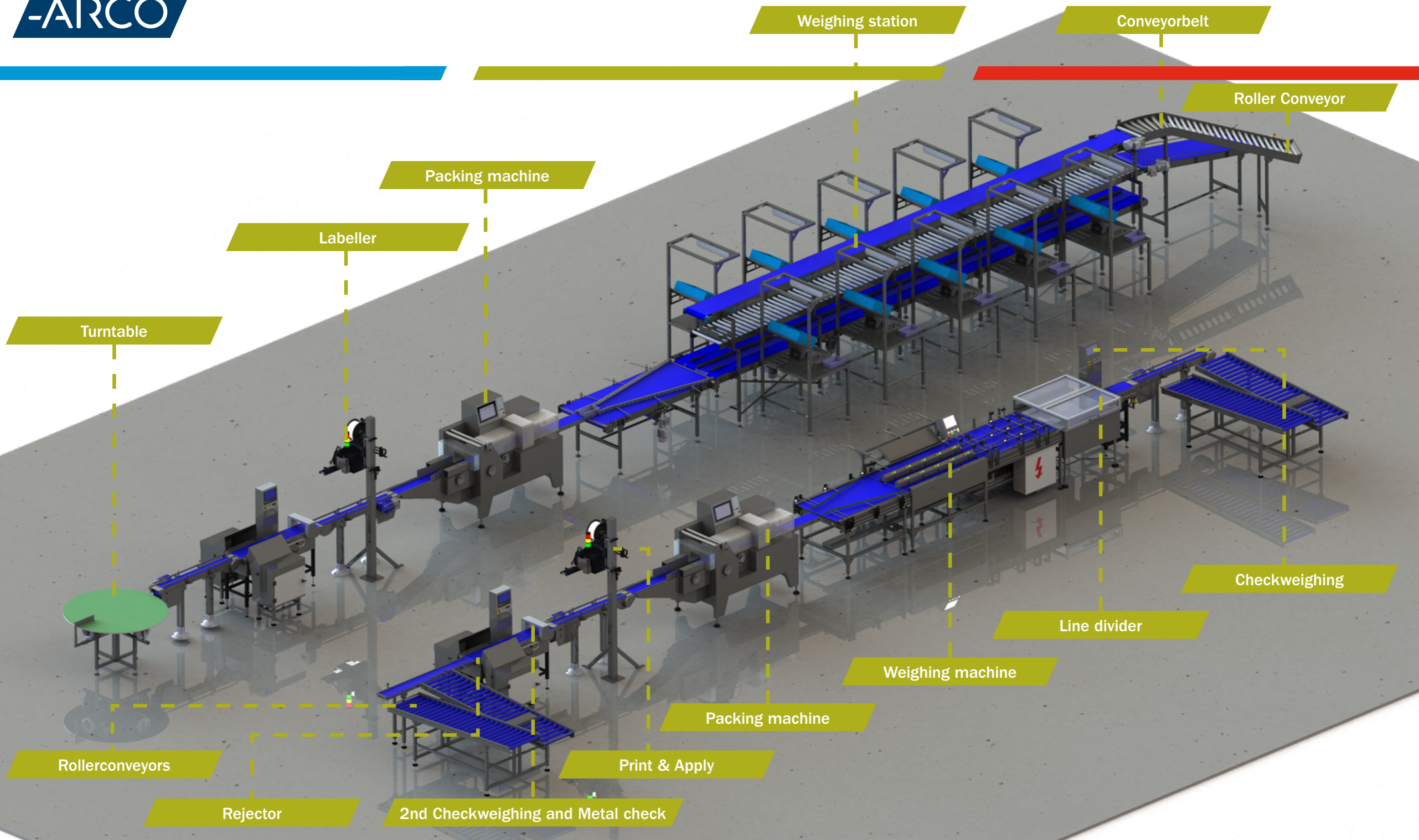
ARCO is a specialist in turnkey solutions that boost productivity and cost-efficiency. We are able to deliver high-quality, customer-specific solutions. When our customers face a challenge, we seek collaboration and work to achieve reliable, cost-efficient solutions.

ARCO develops customized innovative, high-quality machines and installations for processing fruits and vegetables. ARCO maintains high standards for quality, hygiene and efficiency. Continuity, flexibility, and productivity are factors that are improved by ARCO solutions. Installations are made more reliable, more efficient, and more effective.

ARCO is a system integrator. Because we are not tied to a specific brand or supplier, we are free to choose from the best brands in terms of technology. This freedom puts us in a position to respond quickly to anticipated technical developments. This ensures the best solution for your application.

Using ARCO products, our customers are able to sort, weigh and convey fruits and vegetables faultlessly and undamaged. ARCO develops, designs, and installs different machines for inbound, outbound logistics, weighing systems, packing systems, palletizing, crate handling and vegetable processing. We optimize your processes and make sure your installation is cost reductive, efficient, and effective. In addition, we minimize waste and develop fully-automatic waste streams. We offer smaller, standard solutions and also handle large turnkey projects that are entirely custom-made to meet the customer's needs.

ARCO also provides service and maintenance on all installations. For breakdown services, our mechanics are at your disposal 24 hours a day, seven days a week.



turn-key solution

Conveyor belts

ARCO has its own production department where conveyor belts are made to customer specifications. If required, conveyor belts can be fitted with a guide strip, cleats, and sidewalls. With a large stock of conveyor belts, in-house production machines, and 24-hours-a-day, seven-days-a-week service, ARCO is able to perform repairs quickly. For the customer this means less downtime and reduced in-house inventory.

Roller conveyors

Roller conveyors can form part of the complete process for handling incoming and outgoing goods. Engineers at ARCO develop the most efficient and effective solution for your internal transport needs. Our specialists focus on building systems that are reliable and flexible and also boost productivity. ARCO uses modular systems, which means that elements can be added to the process at any time. Roller conveyor systems can be developed for any

type of crate, box, or pallet. Installations can be produced in all RAL colours and are available for quick delivery. ARCO has an extensive roller conveyor product range:

- Gravity roller conveyors
- Powered roller conveyors
- Accumulation roller conveyors
- Flexible roller conveyors (for lorry loading and unloading)

Chain conveyors

Chain conveyors are used in various industries and feature the best technology for precise product placement and heavy loads. ARCO delivers chain conveyors characterized by durability and high levels of flexibility.



Mushroom & Soft fruit weighing

The weighing of fruits and vegetables is one of the most important links in the entire processing chain. Accurate weighing can result in immediate, significant cost reduction. ARCO engineers have developed various intelligent weighing solutions for a wide range of fruits and vegetables.

Using the ARCO inline weighing machine, fruits and vegetables can be weighed quickly and efficiently

after harvesting. A single operator can weigh up to 100 units per minute. The ARCO weighing machine performs perfectly in the mushroom and soft fruit industry. The machine is suitable for processing any desired recipe, from 50 to 1000 grams.

On each weighing belt the machine shows how much each basket is under or over the desired weight via a LED indicator. The operator can see at

a glance whether a large or a small product needs to be removed from or added to a basket to achieve the desired weight.

The weighing line performs fabulously in the mushroom industry. Moreover, the machine is ideal for weighing soft fruit such as strawberries, grapes, raspberries, and other berries.

Machine characteristics

- Capacity of up to 100 packages/min.
- Run by a single operator
- Each recipe adjustable between 50 and 1000 grams
- Less human error
- Reduced losses due to overweight
- Packaged fresher due to faster processing
- Lower cost per product



light to perform weighing machine

Vegetable weighing

The Triple Deck System was developed for packaging fruits and vegetables, such as tomatoes, grapes, and strawberries, in small packages. The Triple Deck System performs perfectly in the fresh produce industry and helps growers efficiently package their fruits and vegetables. The Triple Deck System can handle a wide variety of packaging, including baskets, flat trays, and boxes. Full crates of freshly harvested products flow automatically to

the work tables via a roller conveyor. The units are then weighed manually on the work tables by an operator. After the package is weighed, it is placed on a conveyor belt. The conveyor belt is divided into 2, 3, or 4 lanes that can move independently of each other. Then the packages automatically pass through the Triple Deck System to an in liner, after which the product is ready to be covered (sealed or covered with a lid).

The Triple Deck System has a very extensive range of applications. The system performs perfectly in the fresh produce sector for processing various fruits and vegetables.

Machine characteristics

- Capacity of more than 100 pieces per minute
- Less movement of operators
- Automatic supply of full harvest crates
- Automatic discharge of empty harvest crates
- Suitable for packaging widths of up to 210 mm
- Requires less floor space
- Packaged fresher through faster processing
- Works efficiently due to four-lane system



triple deck system



Stretch wrappers

Stretch Wrappers are commonly used in the food sector. The Stretch Wrapper packages a wide range of food products at high speed. ARCO integrates vibration-free stretch film wrapping machines for high-speed packaging and sealing products in trays. Stretch Wrappers can pack products in continuous and on-demand modus. The machine is fitted with a unique film flap folding system for an attractive packaging result.

Flowpackers

Flowpack machines are used to pack products in trays at high speed. The high quality flowpackers ARCO delivers are particularly reliable and durable. A modular

machine design allows easy adjustments. Years of optimization are expressed in the ease of use. The highest priority in selecting flowpackers is the trouble-free operation of this packaging machine.

Lidding machines

In the food sector, a great amount of resealable packages are created with the application of a lid. ARCO integrates lidding machines for automatic application of lids to packages. Lid handling is often seen as a critical factor in the complete packing line. Lidding machines are durable, efficient and have small maintenance intervals.

Tray sealers

ARCO integrates fully automatic tray sealing systems for application of a seal on top of packs with throughputs from 6 to 240 packs per minute. Tray sealers are designed for high-speed production and efficiently cutting labour costs. In addition, all tray sealing machines ARCO integrates are capable of modified atmosphere packaging.



packing machines

Turn-Overs

Turn-Overs are used for optimizing the packing process of different types of vegetables like bell peppers. This semi-automatic proportion system regulates the output volume automatically and is very accurate. The system is characterized by its cost-saving aspects, can be integrated in any packaging process and is very easy to use. Turn-Overs can handle different kinds of products, from hard fruits to very fragile products.

Technical information:

- Maximum capacity: up to 450 kg
- Material: Stainless steel
- Maximum box dimensions (L x W x H) : 1200 x 1000 x 800mm
- Operation: Hydraulic, electrical
- Heavier designs on request

Lettuce dryer

The Lettuce dryer is a cold air dryer, often used for automatic lettuce drying after the washing process. Lettuce passes several conveyor belts on which lettuce is dried by means of cold air. The machine is made of stainless steel and easy to clean. The Lettuce dryer is available for various capacity requirements.

Cooling conveyor belts

Cooling conveyor belts designed to convey fruits and vegetables from A to B under conditioned air. Often temperature affects the quality of the product. By use of cooling conveyor belts, the influence is reduced to a minimum.



Punnet inserter

ARCO developed a stacking and unstacking line for dispensing punnets into crates. The solution increases capacity and efficiency. The punnet inserter system performs very good in the vegetable and fruit industries. The line is capable of singulating a stack of empty crates automatically. After that, stacks of punnets are separated and placed into the empty crates. Then, the crates filled with empty punnets are stacked again.

Machine features

- Capacity of 1600 euro crates (40 x 3=0 x 11 cm) per hour
- Suitable for 250 400 and 500 grams (mushroom) punnets
- Controlled by a single operator
- Automatic stacking and unstacking of crates
- Automatic separation of punnets in crates
- Compact design
- Easy to operate and control

Tray dispenser

For the food industry, ARCO developed a separation unit for punnets. The machine is capable of separating punnets with great ease and an enormous speed. Based on customers' requirements, punnets in various dimensions are applicable. The punnet dispenser unit should be installed above an existing conveyor system, permanently or on a mobile trolley. The dispenser is applicable to nearly all conveyor systems.

Machine features

- Manufactured according to the HACCP and EHEDG regulations
- Only food-grade plastics are used
- Easy to clean
- Only 6 bar air pressure and 230v power supply are required
- Minimized wear and tear and maintenance
- Safe and easy to operate



automatic dispensers and inserters

Print and apply units

Applying labels on packages is a fully automated process. ARCO delivers different solutions for labelling and print & apply, based on the product and customer requirements. In most cases, print & apply systems are part of the packing line.

ARCO is specialized in crate, box, and pallet handling. ARCO's engineers develop elements such as crate, box, and pallet lifts, stackers, palletizers, turntables, and pallet splitters. We also develop solutions for fully-automatic feeding, stacking, unstacking, loading, and disposal of crates, boxes, and pallets.

Stacker/destacker

A stacker is used for the automatic stacking of crates and/or cases, for example before or after a production process or during the washing of the crates. ARCO builds crate equipment that complies with the most stringent regulations and that are made of steel or stainless steel. Crate stackers are available for a whole range of crate sizes, from large to small. In most cases, a stacker is installed in combination with a destacker for the destacking of crates.

Pallet stacker/destacker

A pallet stacker is used for the automatic stacking of wooden and/or plastic pallets, for example before or after a production process or during the washing and storage of pallets. The system easily copes with various sizes. ARCO's systems are able to process Europallets and block pallets in both plastic and wooden versions.



print & apply units

Turntables

Turntables are used to negotiate curves or to guide pallets/boxes from one processing line to another. When a pallet/box reaches the turntable, the turntable rotates 90 degrees. The pallet is then transported by means of power-driven rollers to the relevant route. Pallet turntables are available in steel and stainless steel. ARCO produces decks for both wooden and plastic pallets in various sizes. Turntables are available for use with both belt and roller conveyors.

Crate erectors

Crate erectors are used for fully automated crate folding. Depending on the number of crates to be processed, the crate erector can save labour amounting to a number of FTEs.

Crate washer

ARCO integrates automatic crate washers for optimal cleaning of crates. Based on the type of crate, the required capacity and the required level of hygiene, ARCO develops a crate washing solution. In addition, ARCO takes care of the transport from dirty crates to the washer and the transport clean crates from the washer, too.

Strappers

Strappers, often called 'stretch wrappers' are used for the tertiary packaging (transport packing) and help to prevent loads from sliding off the pallets during transportation. ARCO integrates fully-automated stretch wrappers at the end of a production line.



crate, box, and pallet handling

AGR Software

AGR Software is optional on the Light to perform weighing machine PM2015. The AGR-software has the main goal to reduce give-away, without the loss of production rate. Therefore, the software collects data. This data is available online at a platform. To reduce give-away, the value "overweight" will be lowered in the settings. This causes that the average product weight will be reduced. However,

this reduction will result in an increased amount of packages of which the weight should be corrected. This leads to a reduction of line speed (capacity). Intelligent software only activates this feature if the capacity permits.

PWM Line Control software

The Triple Deck System can be equipped with special Line Control software. The software allows very quick change of product and scales can quickly and simultaneously change set up for different recipes. Performance indicators like weighing results, operator performance, time registration and downtime registration are visible. Line Control works with a LED bar and saves up to 25% of time, compared to regular scales. An additional benefit is the reduction of 'giveaway'. Due to automated software adjustment, no capacity is wasted.

Service Level Agreements

ARCO offers the option of establishing a service level agreement (SLA), fully relieving the client of responsibility for maintenance of the installation. A maintenance plan and semi-annual inspection by a specialist technician ensure that faults as well as wear and tear are detected at an early stage. ARCO guarantees an up-time of 96% of the operational hours and is available for troubleshooting and repair 24 hours a day, seven days a week. If a problem cannot be corrected remotely, a technician will be sent to resolve the problem on-site.



software and service



Venrayseweg 141 5961 NS Horst T +31 (0)88-006 5300 info@arco-solutions.nl

www.arco-solutions.nl