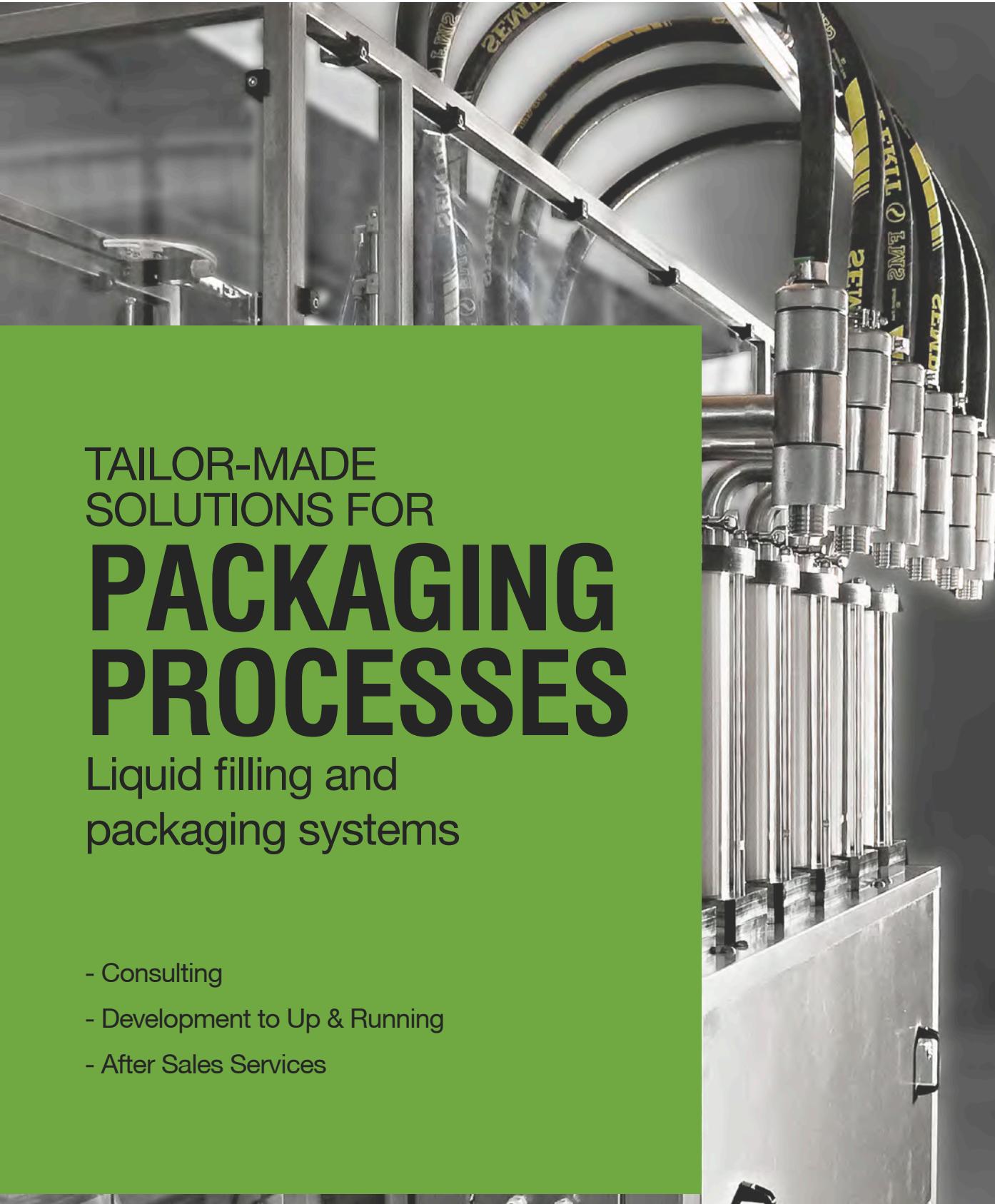


TAILOR-MADE  
SOLUTIONS FOR  
**PACKAGING  
PROCESSES**

Liquid filling and  
packaging systems

- Consulting
- Development to Up & Running
- After Sales Services



## ABOUT TECHNOSYSTEM

**With decades of experience in the development and execution of industrial projects we support you in developing projects in the area of Packaging and Process Technology.**

As a system integrator with worldwide operations, we are technology-independent and develop the best solutions for the requirements of our customers. Our offers to institutions and industrial companies provide impressive results, an optimal combination of advanced technologies together with our full range of services along the entire process chain.

### Consulting

Our customers profit from our know-how from the very beginning. As a strong supplier and independent partner, we stand by our clients every step of the way, from the idea to the feasibility study and technical consulting all the way to ultimate implementation. In the project development phase, we set criteria and develop strategies, finding a cost-effective system solution complying with your needs. In the engineering phase, together with our partners, we provide full access to our technical expertise when planning each process or plant for your packaging needs. As a technology independent service partner, we implement flexible and innovative equipment and system solutions.



**Developing tailor made solutions for packaging processes. We turn your business ideas into reality.**



## **Development to Up & Running**

Offering everything from one single source is one of our key assets. Besides technical offers, we also provide tailor made financing solutions for your entire project. We support the purchasing of machines and process lines, managing all the interfaces.



## **After Sales Services**

The contact with our clients goes far beyond putting the recycling plant into operation. We are on the spot when you would like to enhance the machines with additional components or do a technical upgrade, giving you technical assistance and further services from a one-stop shop. Besides the supply of spare parts, our After Sales Services also include regular maintenance of the installed equipment.



We provide our customers with a variety of flexible and creative packaging solutions for the food and nonfood manufacturing industries.

## LINEAR FILLING SYSTEM

### Feeding – Rinsing – Filling – Capping – Labeling – Packaging

Our filling lines are suitable for filling of a variety of applications, such as Food Products, Lubricants, Detergents, Chemical, Cosmetics and Pharmaceuticals.

The filling systems are suitable for capacity from 500 (semi-automatic machines) to 12,000 filled packages per hour (automatic lines).

The machine can be equipped with a various number of pumps (from 1 to 12 according to the required capacity).



## FILLING MACHINE

### with Flowmeters

The system is very easy to clean; this makes it suitable even for the most demanding manufacturing premises, such as pharmaceutical and food processing industries.

#### APOLLO FM MAG

the magnetic flowmeters suitable for homogenous conductive liquids without content of particles.

#### APOLLO FM MASS

the mass flowmeters suitable for non-conductive liquids, paste-like products and products containing particles.

#### APOLLO FM MECA

manufactured from plastic materials with plastic mechanical rotary flowmeters suitable for very aggressive liquids (acids, hypochlorites, alkaline solutions, etc.).



### with Lobe Pumps

One of the main advantages of filling by means of Lobe pumps is the possibility of filling products containing particles of material (spices, fruit in pieces, vegetables, etc.).

This type of machine can be supplied with the installation and operational qualifications, IQ and OQ.

## FILLING MACHINE

### with Piston

A dose is centrally and continuously adjustable and according to the selected dose, the machine can be equipped with cylinders of various volumes. For filling of larger volumes, a multiple dose can be preset. The filling machine can be supplied with adjustments enabling its operation in an environment with explosion hazard (SNV). The machine is equipped with pneumatic nozzle termination for prevention of drips and with bottom-filling system for prevention of the filled product foaming. The above-standard equipment includes automatic volume adjustment on a LCD display by means of servomotors and nozzle stroke control unit.



### with Gear Pump

Automatic filling of paste-like products (creams, shampoos, gels, mayonnaise, ketchup, sauces, and other non-carbonated products for the food-processing, cosmetics and chemical industry) into various containers, especially those of smaller volumes from 50 to 1000 ml. The dosed liquid is measured by volume through the use of gear pumps.

## CAPPING MACHINE



### Automatic Rotary

The automatic capping machine Capline Rot is designed for closing various types of containers (made of plastic, glass and metal) with screw, press-on and pilfer proof caps.

The machine can be equipped with different types of cap unscrambler (vibrating, rotary, belt type) depending on the type and size of the cap.

For placing difficult caps onto the container neck, a Pick and Place system can be used.

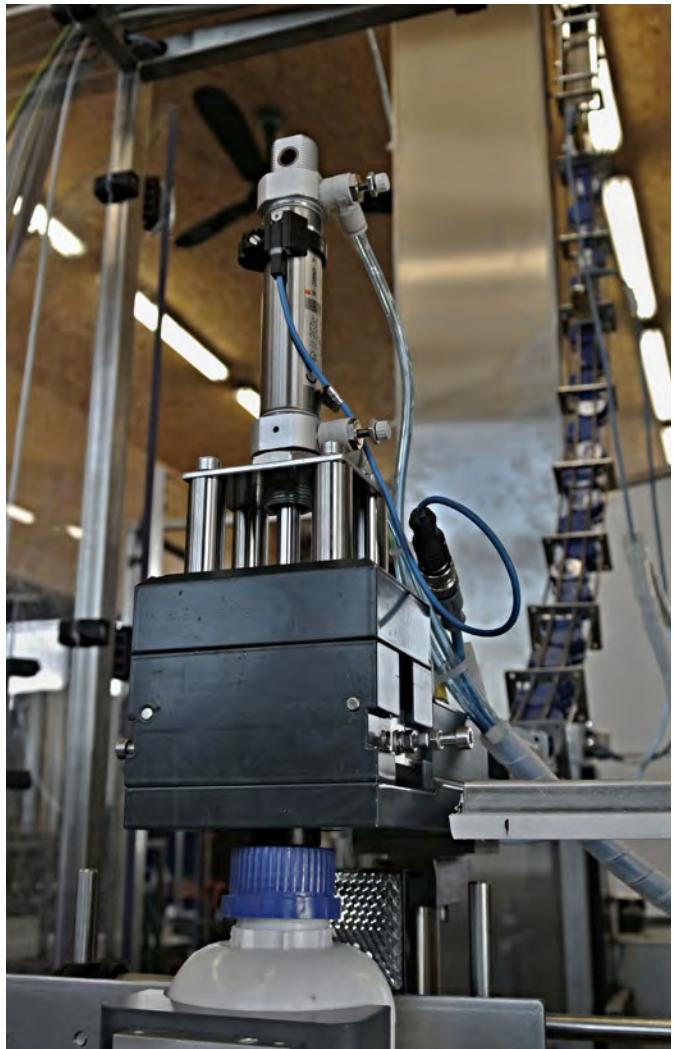


## CAPPING MACHINE

### Automatic Linear

This is our linear capping machine for screw-on or press-on caps.

The cap is oriented in the cap positioning machine and delivered to the chute. The conveyor type chute transfers the caps to the capping head, and this capping head takes the head and screws it or presses it on the neck of the canister. The canisters are stopped below the capping head by stopping the conveyor belt.



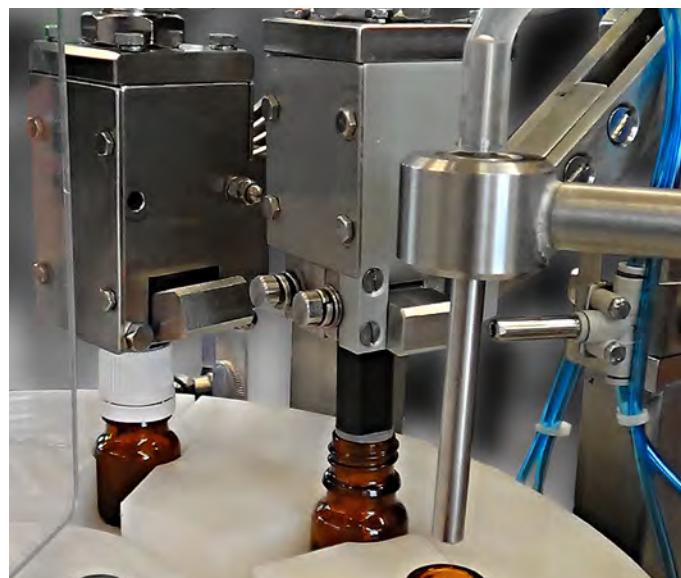
The linear capping machine PMP is designed for application of trigger caps, plastic screw caps, snap hinge caps and flex band caps on flat, oval and square-shaped containers.

PMP is equipped with double-sided belt for stabilization and holding of bottles during all capping processes. The stabilizing belt stops the bottle between the wheels, which guarantees the repeatability and preciseness of the capping process.

## MONOBLOCK FILLING & CAPPING SYSTEMS

### FOODLINE

Automatic filling and closing monoblock FOODline is designed to carry out filling of liquids and dense products within the food industry (as mustard, ketchup, mayonnaise, honey, baby food). The machine can fill small containers of various shapes and close them with screw, pressing and twist-off caps. The pumped liquid can be measured by lobe pumps or flowmeters.



### POUCH

This special monoblock for filling and capping stand-up pouches is capable of filling pouches with capacities of 100 ml up to 5 litre pouches. The maximum monoblock output reaches 50 pieces per minute for smaller volumes of up to 250 ml and 33 pieces per minute for a volume of 500 ml.

### PHARMLINE

The automatic filling and capping monoblock PHARMLine is designed for filling of liquids and creams in the pharmaceutical and cosmetic industries. Bottles of different sizes and shapes can be processed on the machine. Screw caps, press-on caps and pilfer-proof caps can also be applied on it.



## MONOBLOCK FILLING & CAPPING SYSTEMS

### TUBELINE

#### Machine for filling and closing of Plastic and Aluminum Tubes

This automatic tube filling and closing machine is designed for filling of liquids and pasting into plastic, laminated, and metal tubes. Plastic and laminated tubes are sealed by a hot air system (Leister), while metal tubes are closed mechanically.



### BUCKET FILLING & CLOSING SYSTEMS



The lines are intended for filling buckets in the food industry (ketchup and mayonnaise), the chemical industry (paint and adhesive), or in the building material industry (cement, adhesive, and the like). The lines are available for a wide range of containers from 1kg small buckets to 40kg large-capacity buckets.

**The lines consist of the following parts:**

- Bucket Destacker
- Filling Unit
- Foil Applicator with Cutting
- Lid Manipulator and Applicator
- Lid Pressing Station

**The following is available as optimization:**

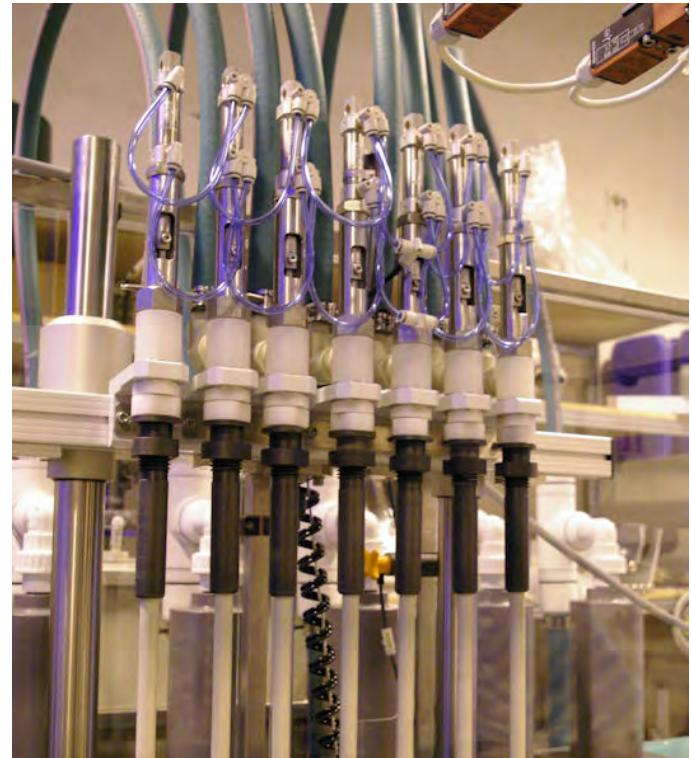
- Bucket Peroxide and Steam Rinsing Station
- Rinsed Bucket Turning Station.

## SPECIAL FILLING SYSTEM

### Lines for Filling of Corrosive Substances

The filling lines suitable for filling of corrosive liquids - mainly acids, chlorine-based substances and alkaline solutions. These lines are used for filling of concentrated acids such as chlorhydric acid, hydrochloric acid, phosphoric acid, bleaching agents, toilet cleaning agents, etc.

Construction of the lines ensures their long-term resistance to corrosive substances. Frames of the devices are treated with chemically resistant powder coating and covered with plastic boards, which prevent penetration of corrosive liquids into the device.



### Lines for Explosive Atmospheres

Filling lines for explosive atmospheres. These lines are used for filling of fluids, pastes and gels with an alcohol base (anti-freeze mixtures, for example), acetone, kerosene, diluents, paints, and the like.

All components such as motors, pumps, sensors and pneumatic elements are certified.

## SEMI-AUTOMATIC FILLING SYSTEM

### Mobile weight filling machine - SATURN GPW

The mobile weight lifting machine, Saturn GPW, is designed to fill liquid products in different containers of larger volumes (5-30 ltr).



### Filling of barrels and IBC containers-SATURN GPW PALLET

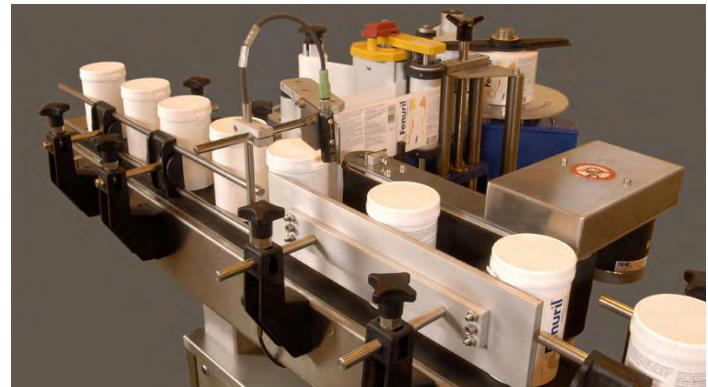
Saturn GPW PALLET is a weight filling machine designed for filling of canisters, barrels and of IBC containers standing on pallets.

# SELF-ADHESIVE LABELING MACHINES

## Applications



One or more self-adhesive label flat containers.



With adding wrap around device (DRP), the system can also apply labels also on cylindrical containers.



Special labelling system with three labelling heads is designed for application of front, back and security label on cylindrical, rectangular and hexagonal bottles and jars.



One or two self-adhesive labels on top and bottom of different containers.



(horizontal roller) applies labels on containers of cylindrical shape. The “Pharma” version is for labelling of ampoules or vials. The “Industry” version is for labelling batteries or cylindrical cartridges.

### Automatic RINSER (Air & Water Automatic Cleaning System)

The body of the machine is completely made in stainless steel AISI 304 and is mounted on adjustable height feet in order to get an easy assembling to the rest of the bottling plant.

### Bottle Unscrambler

An adjusting device designed for directing and positioning of bottles on an input conveyor of the filling machine. Constructed according to GMP standards.



### Seaming Machine

Handling Metal Cans with Different Sizes

Standard : up to 40 can per min

High Speed: 80 to 120 Can per min



### Induction Cap Sealer:

The induction sealing process involves an induction current being applied to a metal liner in a plastic cap. The bottle is first filled, then the cap is applied. The cap already has the liner inside.



### Rotary tables: (Rotary in-feed table & Rotary out-feed table)

The tables are supplied with own drive and the possibility of drive from the conveyor . sizes from 600 mm diameter to 1,500 mm diameter.



## Carton Sealer:

- Semi- Auto
- Top Folding with Carton Sealing
- Case Erector + Top Folding with Carton Sealing.



## Strapping Machine :

- Semi- Automatic .
- Automatic Strapping Machine .
- Fully Automatic Heavy Duty Strapping Machine .



## PALLET STRETCH Wrapping Machine :

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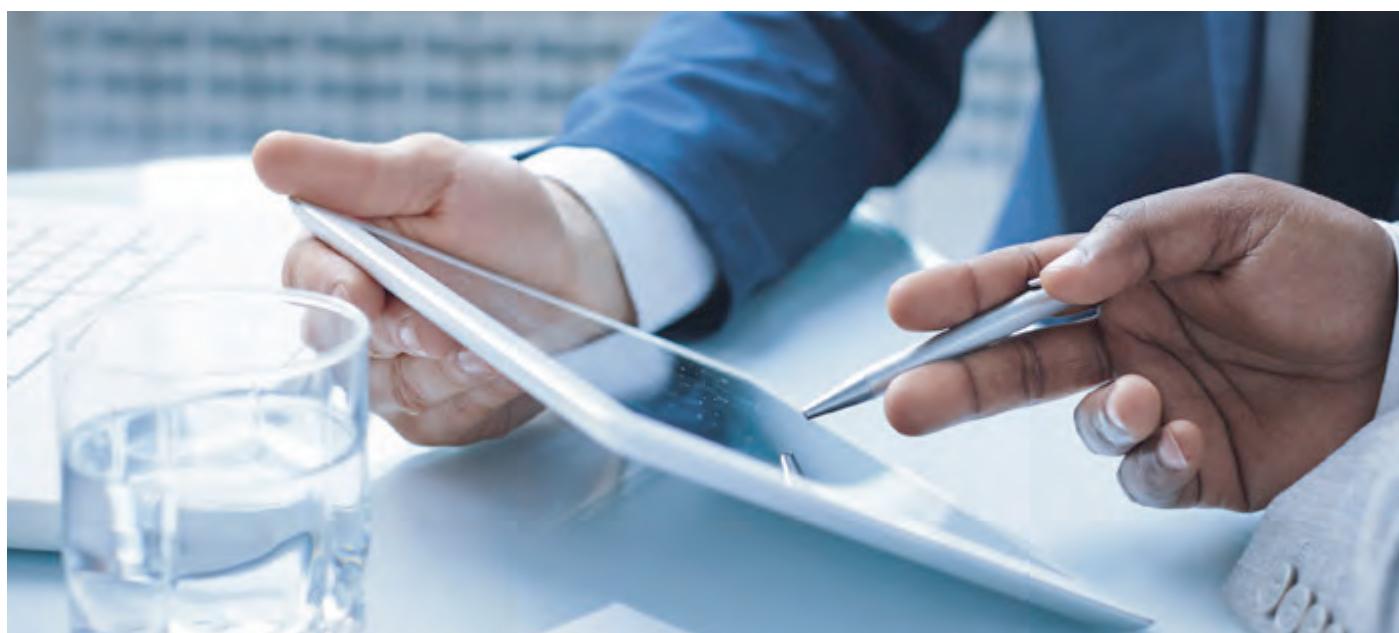
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# ELECTRONIC HORIZONTAL PILLOW PACK WRAPPER



Versatile and reliable, flexible in format change, suitable for food and non-food products, both for single-dose and for multiple packages.

Since it has been constructed for easy maintenance and safety purposes, its cantilever frame and easy accessibility, together with sanitation principles allow it to distinguish itself.

## Options

- Roller conveyor through the up-jaw
- Printing unit for expiry date
- Photo electric cell for print register
- Casters under the machine
- Gear shift for short/long pitch
- Double reel holder
- Polythene version
- Infeed extension
- Zigzag knives
- Euro slot punch
- No product, no bag
- Gusseting device



**SLAT CHAIN CONVEYOR**



**ADJUSTABLE PUSHER**



**PNEUMATIC HEATED WHEELS**



**LATEST CE REGULATIONS**



## THE TRANSLATE BOX MOTION HORIZONTAL PILLOW PACK WRAPPER

Electronically controlled sealing unit that guarantees fast changeover and, on demand, gusseted and square shaped packages. The long-time sealing system combined with a low inertia leverage guarantees airtight sealing, putting high pressure on film. This system is ideally applied in the technical product sector, to welding film like polyolefin and polyethylene. On demand, packages can have bead seals.

It is used to pack long-life products by flushing gas or spraying on preserving aromas. It is specifically indicated for large, high or in-chain products, also using polyethylene/polyolefin film.

### Options

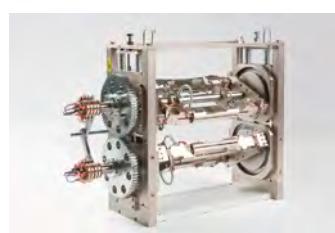
- Automatic film splicer
- Motorized jaws closing
- Web width up to 920 mm
- Motorized film unwinding
- Gear shift for short/long pitch
- Double reel holder
- Gas flushing device for MAP
- Printing unit
- Photocell for print registered film
- Euro-slot die cut
- No product, no bag
- Automatically variable bag length
- No gap, no seal
- Film trimming unit - bead seal
- Gusseting device
- Automatic feeding system
- Polythene version
- Infeed extension

## HIGH SPEED ON-LINE HORIZONTAL PILLOW PACK WRAPPER

This machine stands out for its special cantilevered longitudinal sealing units enabling high speed film sealing when gas resistant seals are required.

The reel unwinder and cantilevered structure stability ensures excellent productivity even when put to heavy use.

Production speed: Up to 400 ppm



# BISCUITS PACKAGING SYSTEMS

ADJUSTABLE FEEDING SYSTEM



ON-PILE BISCUITS PACKAGING



1. High speed on-heap biscuits packaging line based on GSP 75 EVO

2. High speed automatic on-Edge biscuit packaging line with continuous stacker

ADJUSTABLE FEEDING SYSTEM



ON-EDGE BISCUITS PACKAGING



WAFERS PACKAGING

3. Wafers Packaging System

## ROW REMOVAL SYSTEM



Packaging system for confectionery,  
chocolate bars, croissants and sponge cakes

- Row alignment
- Row removal
- Transverse conveyor
- Offset feeder
- Horizontal electronic wrapper



SPONGE CAKE AUTOMATIC PACKAGING SYSTEM



BARS AUTOMATIC PACKAGING SYSTEM



TAILOR MADE SOLUTIONS

## BAGGING AND CLIPPING MACHINE

This is a powerful, automatic, and semi-automatic packaging machine with clip closing capability suitable for sliced, whole or half loaf bagging. It combines the latest advances in automatization technology.



SEMI-AUTOMATIC BAGGING AND CLIP CLOSING SYSTEM



ON-LINE BREAD BAGGING AND CLIP CLOSING SYSTEM



ADJUSTABLE THICKNESS  
BREAD SLICER



COMPACT BREAD  
BAGGING AND  
CLIP CLOSING



COMPACT BREAD BAGGING



SEMI-AUTO BAGGING

## COUNTING, BAGGING AND CLIP CLOSING SYSTEM FOR BREAD ROLLS

The system consists of counting station, bagging and clip-closing station, an elevator conveyor with product hopper, a bag conveyor and a rotating collecting table. It has counting speed of approx. 15,000 units/hour.

Capacity: Standard configuration up to 35 bags per minute.



COUNTING SYSTEM



## DOSING SYSTEMS



### Volumetric Cup Filler

Volumetric Cup dozers are mainly used for:

- Granulates
- Salt
- Sugar
- Rice
- PET food
- Short pasts
- Coffee beans, etc.



### Auger Filler

Auger Fillers are mainly used for:

- Powder sugar
- Grounded coffee
- Washing powders
- Powder milk
- Chemicals, etc.



### Linear Weigher (small & large size weighing buckets weigher)

- Pellet
- Grains
- Granular products
- Powders
- Briquet
- Coal



### Multihead Weigher

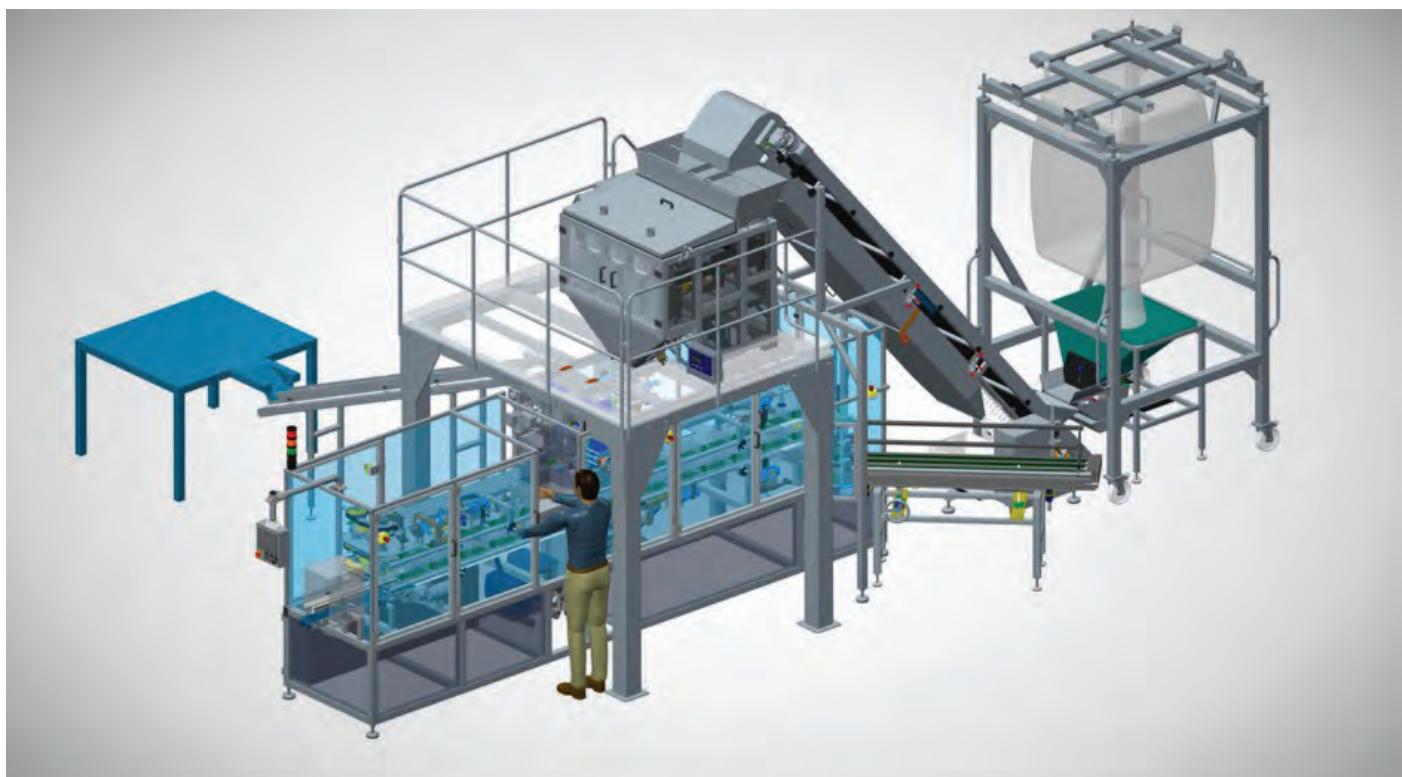
- 10 or 14 weighing buckets
- Linear vibro pans
- Weighing range from 20g to 3000g
- Buckets volume: 1.6L, 2.5L, 5L

## SEALING SYSTEMS



Impulse Sealing ensures airtight seams on Mono-PE foil, and hygienic sealing for heat-sealable films. It pushes product residues out of seal area.

## FULLY AUTOMATIC PACKAGING LINE



## THERMOFORMING PACKING MACHINES FOR FOOD PRODUCTS

Thermoforming packing machines are tailor-made and have high-tech solutions for packing of food products in modified atmosphere, under vacuum, with skin or with simple sealing.

Different products can be packed such as: fresh pasta, filled fresh pasta, gnocchi, ready meals, bakery products, pizza, flat bread, bread, snacks, pieces of salami, sliced salami, olives, fruit, vegetables, cakes, sliced cheese, soft cheese, hard cheese, meat, fish, sandwiches, croissants, dairy products, dried fruits and much more.



## BLISTER PACKING MACHINES FOR DISPOSABLE MEDICAL PRODUCTS AND PHARMACEUTICAL PRODUCTS

Tailor-made and high-tech solutions for blister packing of disposable medical and pharmaceutical products like syringes, needles, catheters, filters, gauzes, surgical kits, valves, cannulas, phials and much more.



## IN-LINE AUTOMATIC BLISTER PACKING MACHINES FOR INDUSTRIAL PRODUCTS AND CONSUMER GOODS

Tailor-made and high-tech solution for blister packing of industrial products and consumer goods like: toothbrushes, stationeries, small metal goods, sim cards, cosmetics, air fresheners, car air fresheners, spare parts of various types, electrical and electronic products and much more



## SEMI-AUTOMATIC SOLUTIONS

### Semi-Automatic tray sealer & Skin Packaging



## SHRINK PACKAGING SOLUTIONS

### Automatic L sealers ALT / AL

Particularly versatile machines, designed to wrap solid products or products on small trays, medium and big dimensions, using shrinkable and non-shrinkable films. Equipped with a motorised belt adjustable in height, our automatic sealers are very practical and easy to use (even for operator with no technical skills), do not require a particular upkeep and offer a higher level of performance. The packaging speed is around 30 - 40 packages per minute with the possibility to add an automatic loading of the product.



ADJUSTABLE L-SEALER



L-SEALER WITH TUNNEL

HEAVY DUTY L-SEALER  
+ SHRINK TUNNEL

### DIAMOND 650 2 belts

Diamond 650 2 belts wrapper is a versatile machine designed particularly to wrap individual products with or without tray using shrinkable or non shrinkable film. Its cantilevered frame and its great accessibility make the maintenance and cleaning operation very quick and easy.



DIAMON-650



2 BELTS WRAPPER

SEALING SYSTEM FOR SHRINKABLE AND  
NON-SHRINKABLE FILM

## SHRINK PACKAGING SOLUTIONS

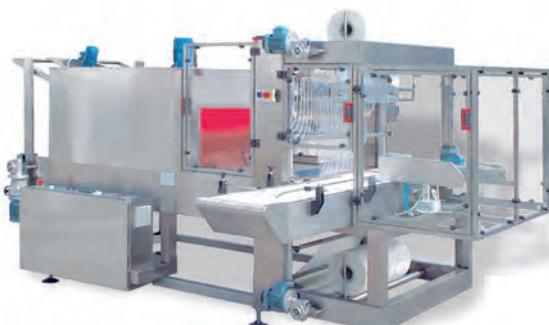
### HSC/HSI continuous sealers

The working speed is 60-80 pieces per minute with the possibility of an automatic product loading. The machine is equipped with brushless engines that grant a higher reliability and productivity.



### Sleeve Sealers

This machine is designed for integration in production lines. It has high-tech mechanical and electrical features that is suitable as an investment for firms requiring a productive and reliable machine. Complete automation of all functions, which is controlled by microprocessors, it offers reliability and simplicity of use. The control panel permits the use of a wide range of settings according to the product to be packed and the thickness of film to be used. The system ensures enhanced production and does not require the presence of an operator.



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