



FOOD PACKAGING MACHINES

TERMOMECC

SEALING AND FILLING MACHINES

 **TERMOMECC**

THE GROUP

A COMPLETE OFFER

Termomec is part of the BR1 Group, producer of machine tools and leading company in the sector of mechanical processing.

Founded only 16 years ago, today the group counts more than 95 employees and 40 work centers joining under the same roof different brands and businesses. Highly specialized know-how and years of experience in different, though complementary, sectors are united in one group with specific knowledge in every field of application.

Focusing on the quality of our products, services and working processes, the group operates according to the normative UNI ISO 9001:2015. All products are marked CE and manufactured in strict compliance with the applicable quality and safety standards in Europe and the rest of the world.

Termomec is the brand and division dedicated to the design and realization of packaging machines for the food industry.



BR1 GROUP

+40

**WORK
CENTERS**

managed by
specialized
workers.

+60

**TECHNICAL
PROJECTS**

realized in a year
by our team
of engineers.

100

**EMPLOYEES
OF THE GROUP**

occupied in
the various
divisions.

+600

**PIECES
PER DAY**

pieces processed
per day by the
departments.



PRODUCTION CAPACITY

All the parts that compose our machines are produced internally in order to achieve the best quality, optimize the production time and of course reduce the final costs.

In our establishments we have high quality machines to perform mechanical processing such as CNC lathes, lathes, milling, metal bending, laser cutting and grinding machines.



DESIGN & CONSTRUCTION

The Termomec team of engineers designs and constructs sealing and filling machines that satisfy the constantly changing needs of the international markets.

The high quality of the Termomec machines is guaranteed by the choice of materials, by the innovative machines used for the production of the components and by the implementation phase executed with meticulous controls.

The performance of the machines is furthermore guaranteed by the high level of technical design. The technical team, with years of experience in the construction of packaging machines, works to

continually improve the performances and production capacity of the machines. We guarantee a personalized support during the development and realization phase and assure after-sale assistance and maintenance.

The software department, part of the technical office, is dedicated to the programming of the software. They create ad hoc control systems for each single machine.



DESIGN

The preparation of the team of engineers guarantee a high technical level.



ANALYSIS

The technicians thoroughly analyse every project before proposing the right solution.



CUSTOMIZATION

The technical office is always ready to create tailor-made projects.



CONSTRUCTION

All the pieces that compose the Termomec machines are produced internally.



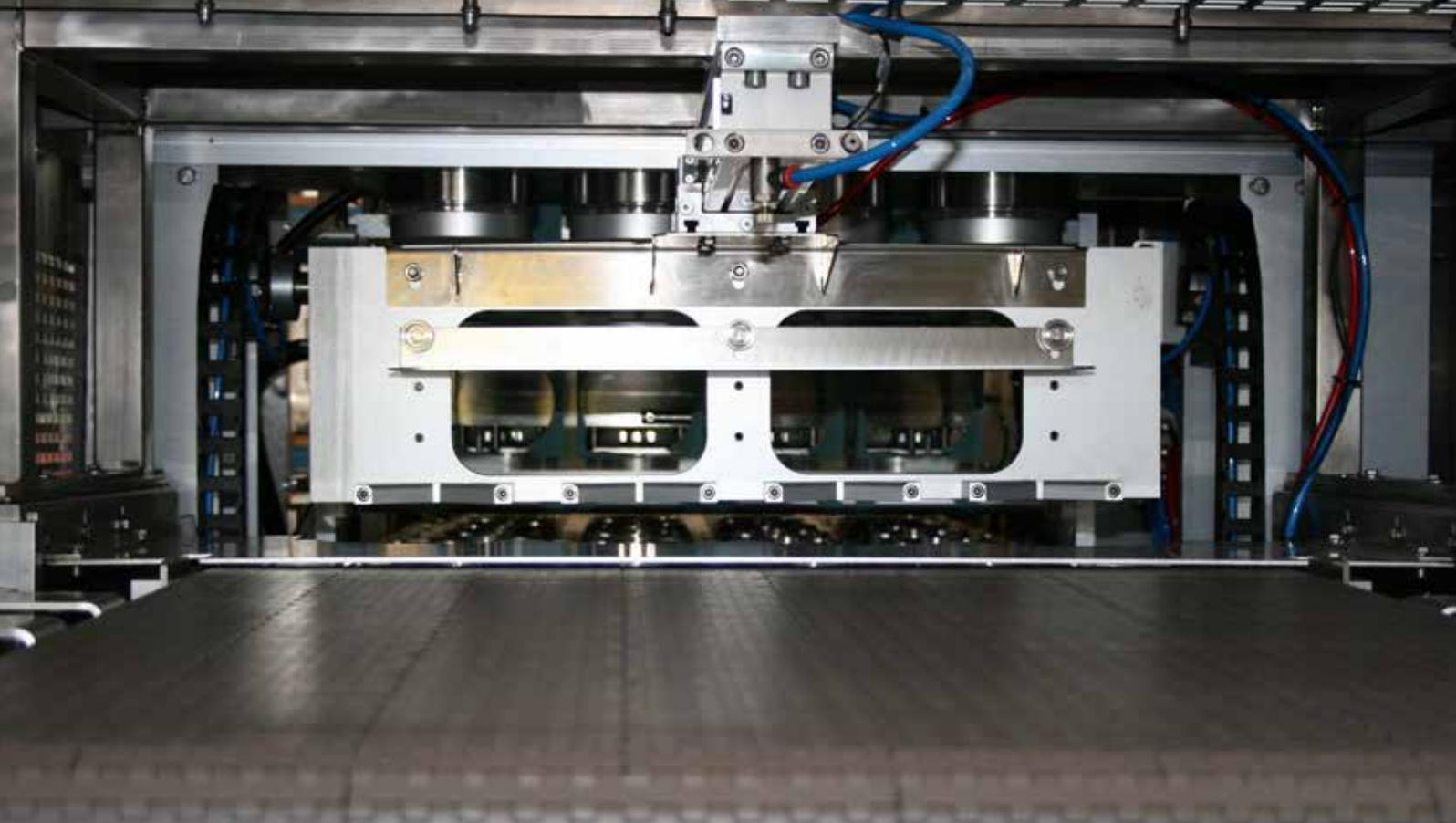
ASSISTANCE

The Termomec team guarantees personalized support and quality assistance.



MAINTENANCE

We pay particular attention to the after-sale service and maintenance support.



THE TERMOMECH MACHINES

Termomec proposes an innovative and flexible line of sealing and filling machines for the food industry. The machines are designed and realized in order to satisfy different production needs. Suitable for various kinds and forms of containers, the sealing and filling machines are

all characterized by quality components and guarantee high production capacity. Besides the standard range of machines, Termomec's technical team designs and constructs tailor-made machines that can satisfy specific production requests.



MG LINE

Filling and sealing machines



PACKAGING MACHINE AUTOMATIC AND LINEAR

Sealing and filling machine for preformed containers. Manufactured to suit various applications in the food industry (dairy, fish, meat, confectionery, fresh pasta etc.), this machine has been designed with an innovative technology that offers an elevated production capacity (up to 6000 pz/h) combined with a flexibility of use without comparison.

Thanks to the new technique that moves the containers with brushless motors it is possible to

modify the production time based on the needs. The structure is entirely made of stainless steel AISI 304, while all the functions are programmed with the system control FANUC with touch screen.

The MG line of sealing and filling machines is versatile and suits many different production needs thanks to the considerable number of optionals permitting great possibilities of personalization.



GUARANTEED SAFETY

The protection of the machine is built in stainless steel Inox 304. The water protection IP67 makes the machine suitable for particularly wet and humid environments.



SUPERIOR PERFORMANCES

The brushless motors guarantee precision of all the movements and optimizes the production capacity controlling the acceleration and deceleration based on the product to pack.



HIGH PRODUCTION CAPACITY

Thanks to the high quality components the production capacity of the machine is very high: sealing time up to 25 cycles/min. that can vary based on the product to be packed.



BEST CONTROL PANEL

The control panel with touch screen for the simple and intuitive management of all the mechanical movements. The advanced software allows the immediate and constant control of the machine status.



TECHNICAL CHARACTERISTICS

- Constructed in stainless steel AISI 304.
- Up to 3 work stations.
- Brushless motors.
- FANUC control model 10.4".
- Availability of 20 recipes.
- Container extraction group with motorized slat conveyor outlet.
- Sealing station.
- Door closure with safety microswitches.
- Inox expanding shafts for a fast change of the reel.
- Tray detection photocell.
- Lid presence electronic sensor.
- Seal temperature alarm system.
- The number of container groups variable upon request.
- Waterprotection IP67.
- Possibility to use film reels of extended dimensions.
- Rubberized film roll with fine tuning of the pressure (present in the sealing station).

OPTIONALS

- Doser system with up and down movement of the filling nozzles.
- Liquid and/or semi-dense product mixer and/or agitator.
- Centering photocell for the printed film.
- Possibility to insert INK JET in order to keep the products in aseptic conditions thanks to the use of germicidal lamps, packaging environment in H₂O₂ overpressure.
- Conveyor belt/high capacity storage for the containers.
- Laminar flow cabinet.
- Ethernet/ip address connection for teleservice.
- Possibility to seal in ATM/vacuum/vacuum gas/gas flushing.



TECHNICAL DATA

MODEL	MG LINE
PRODUCTION CAPACITY	UP TO 20/25 CYCLE/MIN.
MAX INSTALLED POWER	5 Kw
POWER SUPPLY	400 V - 50 Hz - 3ph
COMPRESSED AIR	6 BAR - 6 m ³ /h
MAX CONTAINER HEIGHT	100 mm
PROTECTION	IP67



RT LINE

Filling and sealing machines



PACKAGING MACHINE AUTOMATIC WITH ROTARY TABLE

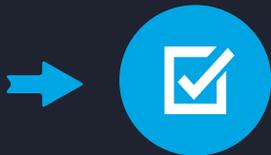
Sealing machine for pre-formed containers. Manufactured to suit various applications in the food industry (dairy, fish meat processing, fresh pasta etc.).

The machine, built according to the newest technological inventions, combine an elevated flexibility of use with a great production capacity.

Thanks to an innovative design the RT line is particularly precise when welding small containers.

The machines are ideal for flexible productions also in plants with reduced space thanks to its compact structure.

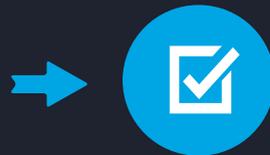
The machine is constructed entirely in stainless steel inox AISI 304, while all the functions are programmed with the control system FANUC with touch panel. To guarantee precision and optimize the production capacity, the brushless motors drive the movements of the rotary table assuring stability and constant speed.



WORK STATIONS

Innovative and flexible, the machine can be provided with up to 12 work stations.

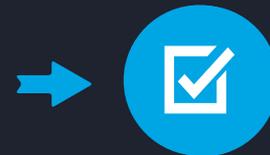
The adjustment of the work position (based on the size and form of the container) is automatic and simply managed from the control panel.



PRODUCTION CAPACITY

High production capacity thanks to the sealing time of up to 30 cycles/min. based on the product.

The production capacity is optimized by the very fast change of format/container size that characterizes all the RT models.



BRUSHLESS MOTORS

The brushless motors guarantee precision of all the movements of the machine.

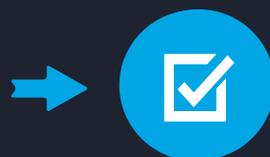
They assure the adjustments of the movements with perfect synchronism and the control of the accelerations/decelerations based on the products to pack.



CONTROL PANEL

FANUC control panel with touch screen for the simple and intuitive management of the mechanical movements.

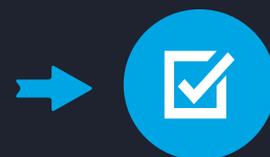
The advanced interface allows to adjust the speed, to memorize different work menus based on the type of container and to visualize alarms and the machine status.



WATERPROTECTION IP67

Perfect for very humid environments, the cleaning is permitted with water and detergents. The garnish and food contact materials are certified.

The electrical panel and all sensible parts are protected by sealed boxes or positioned over the working areas to secure the correct sanitation.



MACHINE PROTECTION

The protections of the machine are realized in stainless steel AISI 304 and the protection panels in transparent Lexan.

The door closures are provided with microswitches. The protection of the base plate is in stainless steel.



TECHNICAL CHARACTERISTICS

- Constructed in stainless steel AISI 304.
- Rotary table.
- Brushless motors.
- FANUC control model 10.4".
- Availability of 20 recipes.
- Up to 12 work stations.
- Sealing station.
- Door closure with safety microswitches.
- Automatic adjustment of the working position.
- Tray detection photocell.
- Lid presence electronic sensor.
- Seal temperature alarm system.
- The number of container groups variable upon request.
- Waterprotection IP67.
- Product outfeed on conveyor.
- Rubberized film roll with fine tuning of the pressure (present in the sealing station).

OPTIONALS

- Doser system with up and down movement of the filling nozzles.
- Liquid and/or semi-dense product mixer and/or agitator.
- Centering photocell for the printed film.
- Possibility to insert INK JET in order to keep the products in aseptic conditions thanks to the use of germicidal lamps, packaging environment in H₂O₂ overpressure.
- Conveyor belt/high capacity storage for the containers.
- Laminar flow cabinet.
- Ethernet/ip address connection for teleservice.
- Possibility to seal in ATM/vacuum/vacuum gas/gas flushing.



TECHNICAL DATA

MODEL	RT LINE
PRODUCTION CAPACITY	UP TO 30 CYCLE/MIN.
MAX INSTALLED POWER	9,5 Kw
POWER SUPPLY	400 V - 50 Hz - 3ph
COMPRESSED AIR	6 BAR - 6 m ³ /h
MAX CONTAINER HEIGHT	100 mm
PROTECTION	IP 67



SILVY LINE

Thermosealing machines

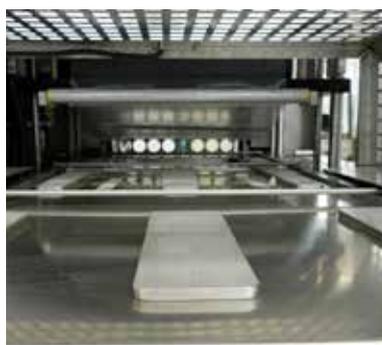


The line of thermo sealers Silvy is designed for the automatic packaging of preformed trays with compatible closing film. The machine Silvy is available in two different models. The complete version allows the realization of trays in 4 different technologies: only sealing, ATM, vacuum or skin. The simplified version, Silvy N, is ideal if you only need to seal.



MAXIMUM SAFETY

Security guaranteed thanks to appropriate control logics, the full coverage of the machine and door closure equipped with microswitches.



GREAT FLEXIBILITY

The machine is particularly flexible allowing to pack every kind of tray. The materials of use can be completely different: PET, PE, PP, PS.



HIGH PRODUCTIVITY

The productivity of the machine is very high thanks to the sealing time up to 10 cycles/min. variable based on the product, the film and the tray dimensions.



MOVEMENTS

All the movements of the machine are completely mechanical: elimination of the pneumatic system and of the compressor, avoiding the related problems.



2 CIRCUITS

2 circuits for the sealing plate: the redundancy of the resistances allows the substitution in case of failure without stopping the machine.



CONTROL PANEL

An innovative multilingual control panel with touch screen and the capacity to store the sealing programs.



CONSTANT SPEED

The plastic film is being unwinded and not pulled with an innovative and very efficient constant speed system.





TECHNICAL CHARACTERISTICS

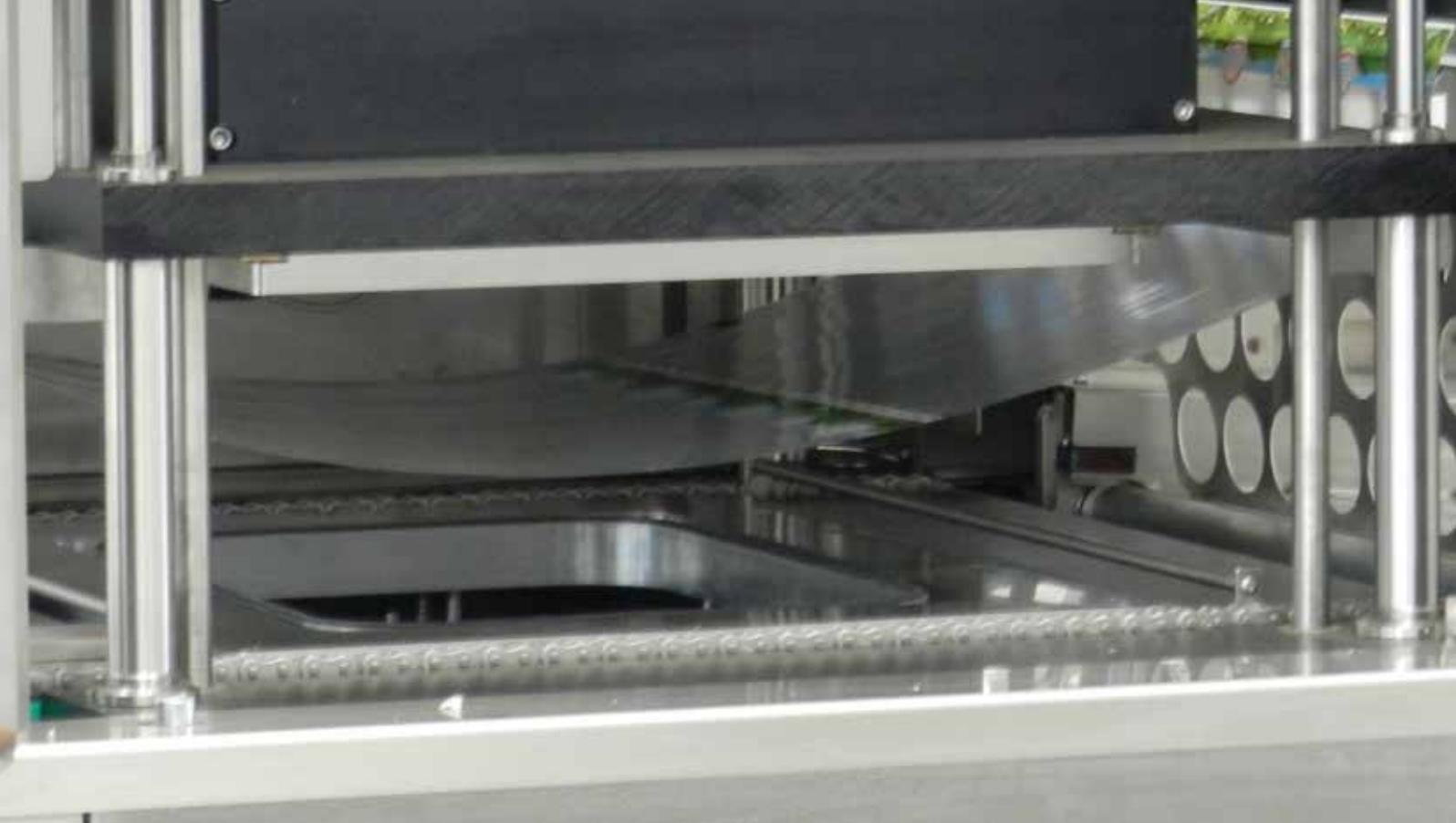
- Reduced dimensions.
- Sealing plate in teflon-coated aluminium.
- Sealing cycle automatically activated when mold is completely inserted.
- Storage of up to 9 sealing plates.
- Electronic control of the sealing plate.
- The plastic film of the main reel is being unwound and non pulled with constant speed: an encoder notes the unwinding step.
- The machine is constructed in stainless steel AISI 304 and anodized aluminum.
- The standard models for the containment of the trays are realized with 1 or 2 imprints allowing up to 2 tracks: a third track is available as an optional.
- The exit roller group is powered: the trays are moved automatically towards the exit.

FUNCTIONAL CHARACTERISTICS

- It is simple to insert the plastic film.
- Electronic cycles counter.
- Multilingual display.
- Integrated reel support.
- Control panel Fanuc.
- Touch screen control panel with micro-USB communication interface that allows the setting of: sealing temperature, sealing time, film unwinding time, selection of sealing type (only sealing, ATM, vaccum, skin).

OPTIONALS

- Customized molds.
- Centered printing kit for preprinted films.
- Pump 100 m3/h: only Silvy complete version.
- Additional loading position: 3
- Additional track and 3 tracks mold.



TECHNICAL DATA

MODEL	SILVY	SILVY N
PRODUCTION CAPACITY	10 CYCLES/MIN	10 CYCLES/MIN
POWER SUPPLY	400 V / 50 Hz	400 V / 50 Hz
PHASE	3	3
MAX INSTALLED POWER	5,5 Kw	4 Kw
MAX TRAY DIMENSIONS	280x380x140 MM	280x380x140 MM
MAX REEL DIMENSIONS	250x450 MM	250x450 MM
WORK TABLE HEIGHT	1010 MM	1010 MM
VACUUM PUMP	63 M ³ /h	NO PUMP
MAX LOADING POSITIONS	2	3
MACHINE WEIGHT	APPROX 600 KG	APPROX 600 KG
PROTECTION	55IP	55IP
STORED PROGRAMS	9	9
MACHINE DIMENSIONS	1920x1200x1800 MM	1920x1200x1800 MM



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