

# POUCH FILLING SOLUTIONS



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**IMA FILLSHAPE MANUFACTURES AND DESIGNS FILLING SYSTEMS FOR FLEXIBLE STAND-UP POUCHES WITH AND WITHOUT SPOUT FOR DAIRY, FOOD, BEVERAGE AND PERSONAL CARE SECTORS.**

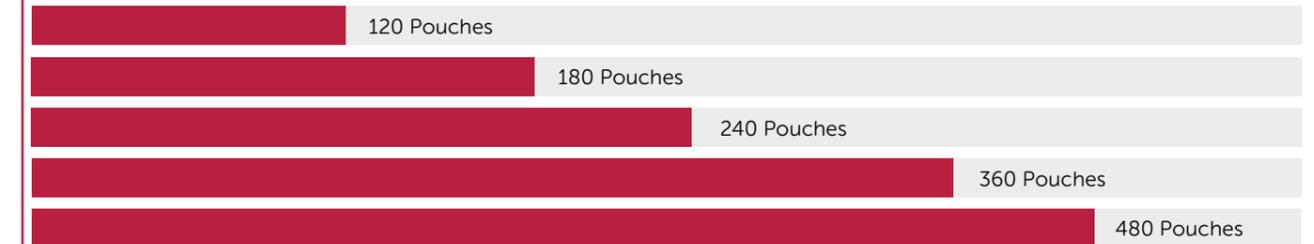
It offers the most revolutionary technology in the field of flexible containers, but it leaves the customer free to choose the shape of the pouch, spout and cap. Free to choose the best solution available on the market and always supported by our team of experts in the field of materials and dedicated to optimising your "flexible" production line.

## MACHINE RANGE

KOMPAKTA (pouch maker)



ERMETIKA (for spouted pouches)



MODULA (for unspouted pouches)



0 50 100 150 200 250 300 400 500  
Pouches/min



# KOMPAKTA POUCH MAKING MACHINE



Bottom punching

Bottom sealing and cooling

Side sealing

Cutting station and pulling

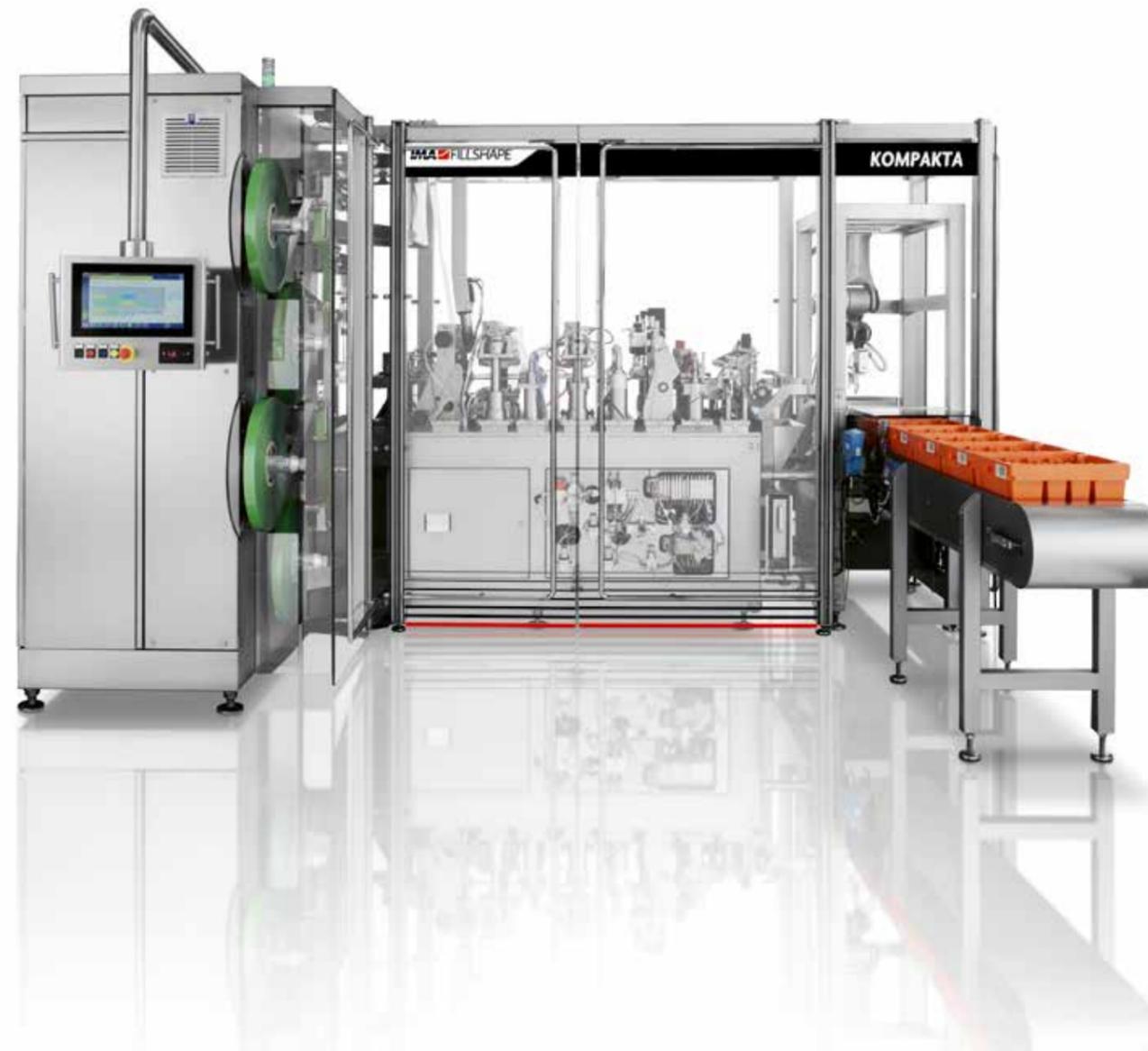
Side cutting stacking unit

Tray loading unit

## SHAPE YOUR POUCH AUTOMATICALLY

Kompakta is a compact pouch-making machine for stand-up and flat pouches, starting from independent reels for front, back and bottom gusset. Kompakta is able to integrate different cutting technology, from straight cuts with dedicated punch for the pouches angles (without any offcut), up to a full punch allowing maximum flexibility for shaped pouches (approx. 12% consequent offcut). The machine can be supplied with an integrated tray packer to allow a maximum automation with downstream machines.

Kompakta is able to handle recyclable mono-material pouches improving sustainability over traditional packaging formats and featuring product freshness and functionality.



- RECYCLABLE MONO-MATERIAL READY
- ONE SHIFT OPERATION WITHOUT REEL REPLACEMENT
- AUTOMATIC IDENTIFICATION AND REJECTION OF SPLICING



# ERMETIKA SPOUTED POUCH FILLING MACHINE



Pouch feeding system

Pouch and spout assembling & sealing

Leaking test (Patent pending)

Product filling

Capping

Weight-checker

## HOW DO YOU FILL? FILL GOOD

Ermetika is a high-speed, continuous motion rotary filling machine, starting from a pre-made pouch for liquid and viscous product, sealing the spout before filling and implementing a patented inline leaking test.

With four different models processing at different speeds, from 120 to 480 pouches/minute, Ermetika is a highly flexible solution with a reduced footprint and fast format changeover, able to handle a wide range of pouch sizes and easily adapted to process film, spouts and caps from different suppliers.

Thanks to its "spout assembling" technique before the filling process, Ermetika guarantees high quality standards and hygienic levels for food safety. Extended shelf life and aseptic versions are available.

- SPOUT ASSEMBLING BEFORE FILLING PREVENTS SEALING ISSUES AND GUARANTEES QUALITY STANDARDS
- HYGIENIC DESIGN – ULTRA CLEAN & ASEPTIC AND FULLY WASHABLE
- SUSTAINABLE WITH MONO-MATERIAL POUCHES

- PRODUCT SIZE FLEXIBILITY: SPOUTS AND POUCHES ARE HANDLED IN A WIDE VARIETY OF SHAPES AND SIZES
- CONTINUOUS MOTION SEALING AND FILLING PHASES, FULLY SERVO-DRIVEN CAPPER
- MEDIUM AND HIGH SPEEDS UP TO 480 PPM



# MODULA UNSPOUTED POUCH FILLING MACHINE

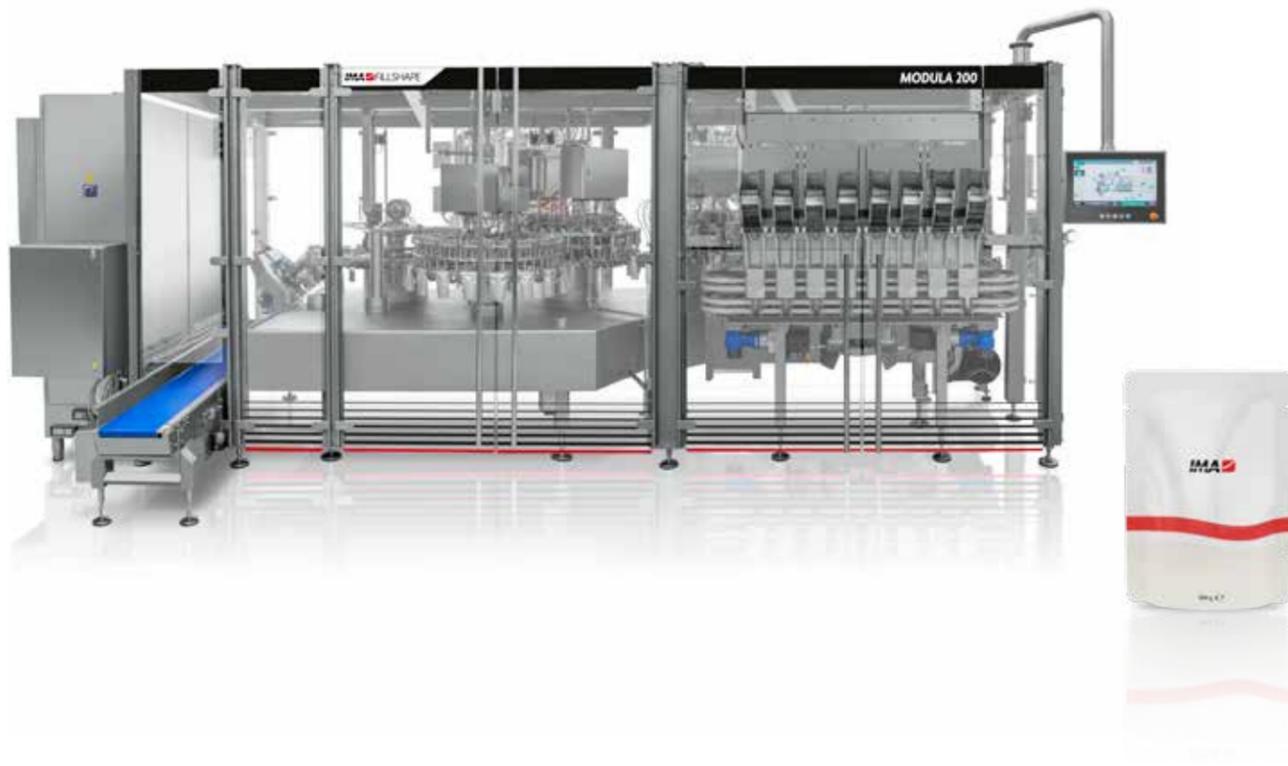
## ACCURATE, RELIABLE, MODULAR

Suitable for different filling applications such as food, pet food and beverages, where high hygienic standards, huge flexibility, and rapid changeover procedures are key factors on a competitive market, Modula ensures ultimate filling accuracy and sealing reliability and boasts an extremely low rejection rate.

Furthermore, the patented "double pick-up" system avoids the use of chains for pouch handling.

The modular structure enables customers to use a large variety of pouch shapes and create customised solutions for a vast range of products.

- SIZE CHANGEOVER CARRIED OUT IN JUST 20 MINUTES (200 PPM VERSION): OPTIMISE PRODUCTIVITY AND ADAPT TO FAST-CHANGING MARKET REQUIREMENTS.
- HIGH HYGIENIC STANDARDS THANKS TO THE FRAMELESS DESIGN AND SEPARATION BETWEEN POUCH MAKING AND FILLING AREAS.
- CUSTOMERS CAN ADAPT EXISTING CAN-FILLING TECHNOLOGIES TO ROTARY POUCH FILLING.
- SPACE SAVED ON THE PRODUCTION FLOOR THANKS TO REDUCED FOOTPRINT GIVEN BY ROTARY DESIGN.



# HYGIENIC LEVELS

## ALL TECHNOLOGIES FOR YOUR PRODUCT SAFETY

Every FILLSHAPE machine integrates the latest principles of "Hygienic Design" offering equipment that meets the highest standard for food safety, cleanability and sanitation, taking into consideration the HACCP philosophy and indications. Depending on specificity of each product to be packed, Fillshape has the full range of hygienic level to protect the product at maximum.

### HOT AND COLD FILLING

Standard execution in case of hot filled product, requiring a post filling sterilization of product and packaging, or cold filled product distributed in the cold chain. Product tank can be insulated to keep product temperature at a desired set point, and it is equipped with suitable temperature probe to reject product dosed out of desired range.

### ULTRA CLEAN (UC) FILLING

The Ultra Clean Filler is dedicated to the packaging of low or high acid product (e.g. ESL Milk, yoghurt drink, curded cheese, pudding) to improve their shelf life in combination to a suitable distribution chain (e.g. cold chain or ambient). By means of an accurate control of vaporized hydrogen peroxide (VHP) technology, Fillshape is able to treat the internal surfaces of spouted pouch and cap granting minimal hydrogen peroxide residual and desired microbiological decontamination target. The machine is supplied with suitable compartmented areas where treatments take place, integrating proper suction and fluid treatments to grant full safety for product and working ambient. A dedicated Skid for VHP and air treatment during production is as well integrated, taking under control all process parameters, like temperature, pressure, concentrations and flow rates assuring high performances linked to cost effectiveness.

### ASEPTIC FILLING

Dedicated to the packaging of low or high acid product free of viable microorganisms and free of organisms that can multiply in the product under normal, non-refrigerated storage and distribution conditions. Thanks to the internal and external surfaces VHP treatment of spouted pouch and cap as well a dedicated sterilization cycle of the aseptic isolator and surfaces in contact with product, Fillshape is able to create the highest degree of protection of products. The whole process is managed by the equipment itself through the dedicated Skid for process control parameters, and to perform fully automatic cleaning and sterilization cycles.



# EFFICIENCY OPTIONS

## CONTINUOUS RELIABLE PROCESS



 Based on the most modern filling machines, the high speed line for spouted pouches runs with continuous rotary motion. This enables extremely high output and efficiency without sacrificing delicate operations such as sealing, filling and capping. Harmonious movements for limited maintenance and absolute repeatability.

## FREEDOM TO CHANGE SIZE



 Container handling inside the machine is obtained using the "neck handling" approach, by means of the spout's "rigid" volumes. This firstly enables all operations to be carried out with maximum precision, as the pouch, being "flexible", does not guarantee reliable handling especially at high speeds. In addition, the size changeover is fast, low-cost and offers the freedom to customise and shape the surfaces.

## NO DOWNTIME MORE SAVING



 The pre-made pouch guarantees greater flexibility, sealing quality and line efficiency. Whilst not limited to pre-made pouches alone, the high reliability of our system adapts perfectly to a continuous flow and to the absence of reel changeover times, which become more frequent as production speed rises. A unit pouch cost and the possibility of film diversification make pre-made the most advantageous choice.

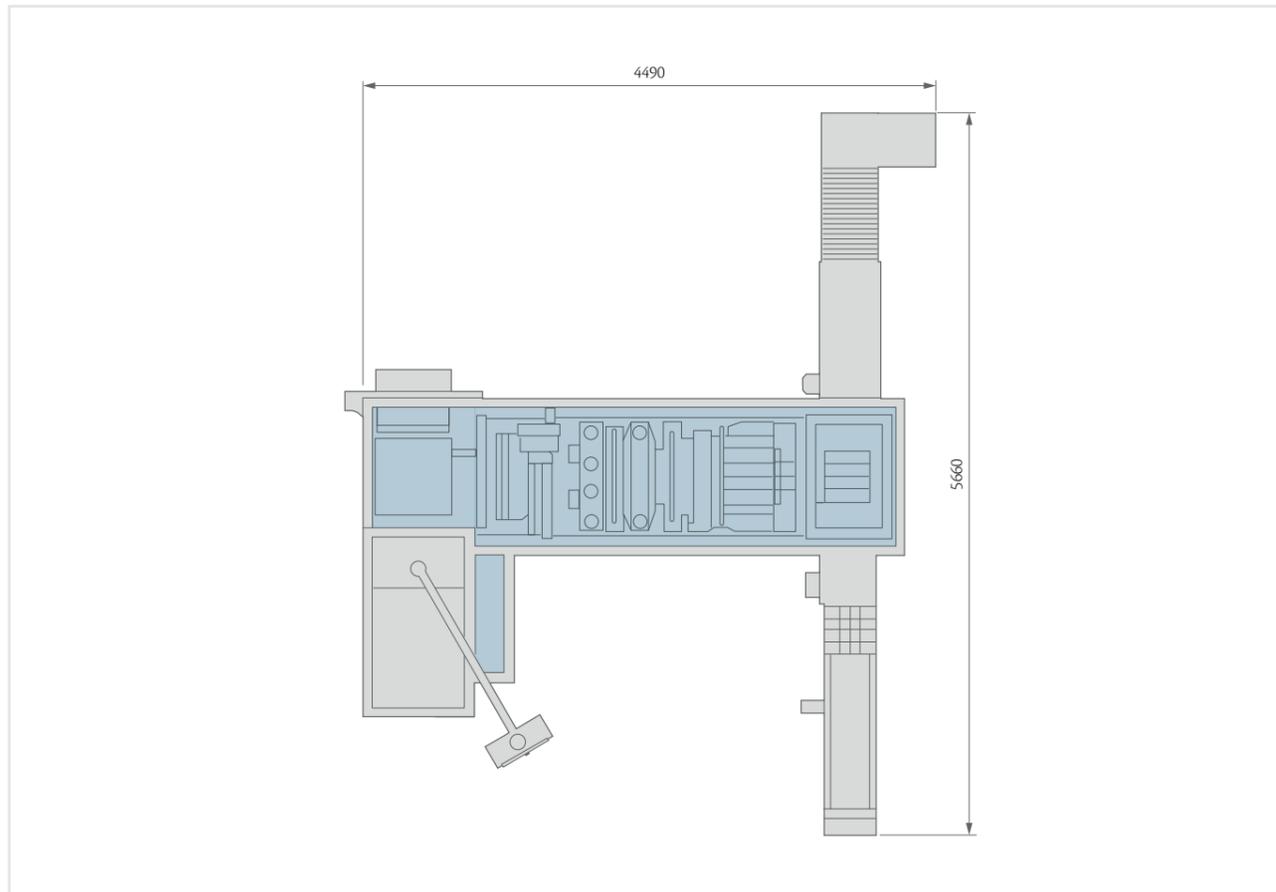
## SEALING WITHOUT COMPROMISES



 The quality of the container is proportionate to the quality of its seal. Thanks to rotary technology, which enables any operation to be carried out regardless of production speed, the spout is sealed in a single step. This process takes place prior to filling, in a dry controlled environment, in the time required to ensure maximum seal and precision, monitoring and recording all essential parameters such as time, temperature and pressure.

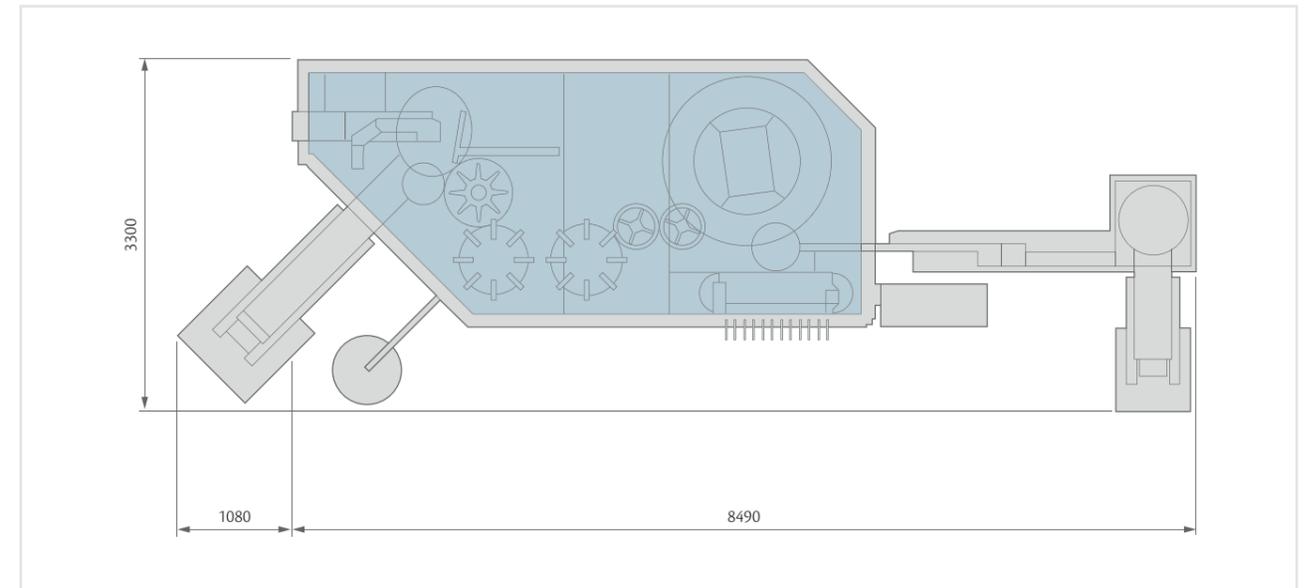
# TECHNICAL DATA

KOMPAKTA



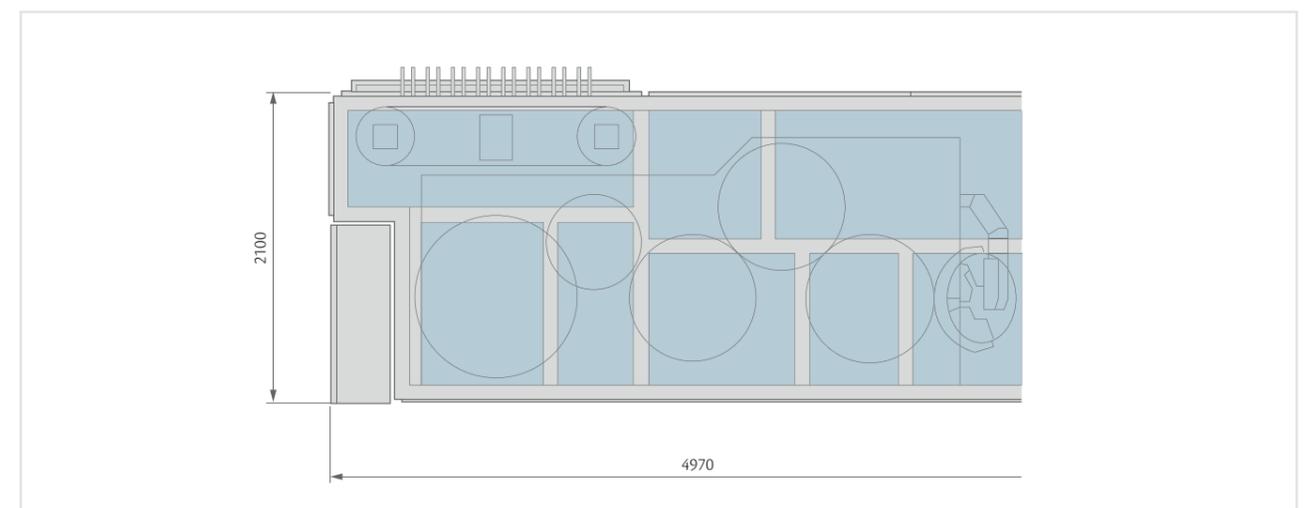
Nominal production speed	400 ppm
Pouch height range	From 100 to 200 mm
Pouch width range	From 70 to 150 mm
Pouch material	Triplex, Quadruplex
Total installed power	25 Kw
Weight	2000 Kg

ERMETIKA 120



Machine Model	Stations				Pouch width (mm)	Pouch height (mm)	Pouches per minute
	Magazine	Sealing	Filling	Capping			
Ermetika 120	6	24	12	6	65 - 120	80 - 220	120
Ermetika 180	8	24	16	8/12	65 - 120	80 - 220	180
Ermetika 240	8	32	16	8	65 - 120	80 - 220	240
Ermetika 360	10	40	20	10	65 - 120	80 - 220	360
Ermetika 480	16	48	32	24	65 - 120	80 - 220	480

MODULA



Machine Model	Stations				Pouch Width (mm)	Pouch Height (mm)	Pouches per Minute
	Magazine	Opening	Filling	Sealing			
Modula 200	8	16	16	2	65-160	80-250	200
Modula 360	16	24	24	5	65-160	80-250	360

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