

PACKAGING MACHINES PACKAGING SOLUTIONS

PACKAGING TECHNOLOGIES PACKAGING SOLUTIONS



CONVENIENCE FOOD
Ready-to-cook and ready-to-serve food products are on the rise, providing added value with their home-style flavors.
This trend reflects the growing demand for convenient solutions in today's fast-paced world.



SEA FOODS
Seafood obtained from natural sources
or produced in farms can be packaged in
portions or as a whole, including various
types such as fish, crabs, mussels, crayfish,
and lobsters. Additionally, raw or cooked
value-added products can also be
prepared and packaged.



FRESH & PROCESSED MEATS
Discover a new approach to fresh and
processed meat with our high-quality,
hygienic offerings with a long shelf life
and ready for consumption. Utilizing our
advanced MAP technology, sliced meat,
sausage, sujuk, and salami are expertly
packaged, giving them a fresh, visually
appealing look on the shelves.



OLIVES - SAUCE - PASTE - PUREE Value-added kitchen aids such as sauces, purees, pastes, and side dishes can enhance the flavor and appeal of dishes. Additionally, unique packaging methods are employed for olives to preserve their quality and taste.



DRIED FOODS & NUTS
Dried foods and nuts are a convenient
and nutritious option for snacking or
adding to meals and vital ingredients
in many traditional cuisines worldwide.



PASTRY PRODUCTS - DESSERTS Packaging of unbaked, half-baked or fully baked pastry, bakery and dessert products. Packages can be prepared for both daily consumption and long shelf life.



DAIRY PRODUCTS
Cheese, yogurt, and other dairy
products, including local delicacies,
are available in sliced, portioned,
or bulk packaging options.



FROZEN FOODS
Packaging solutions designed for both pre-cooked and raw frozen food products.



SKIN PACK (TRAY or CARDBOARD)
Skin packaging is often used for products that require high visibility and protection, such as meat, seafood, and other perishable foods. The product is typically placed on a plastic tray or cardboard plate, then covered with film heated and vacuum-sealed.



JAR SEALING Packaging solutions in PET jars are available for food materials such as olives, brine, pickles, granular foods, and chemicals.



FRESH FOODS / SALADS
System solutions are available for washing, cleaning, sorting, and packaging fresh fruits and vegetables intended for consumption.
These solutions can help maintain the quality and freshness of the produce for extended periods.



MEDICAL CONSUMABLES
Packaging for disposable healthcare
items includes a wide range of products
such as test kits, laboratory kits, dressing
sets, surgical gowns, sterile gloves,
syringes, IV tubing, health support
machine kits, and laboratory test
materials.

HEALTHY AND HYGIENIC PACKAGING SOLUTIONS

APACK specializes in producing FOOD AND MEDICAL PACKAGING MACHINES, utilizing cutting-edge technology to deliver superior results. We offer our customers comprehensive services, including machinery, consultancy, and support. Our core principle is to provide food products to end consumers in their natural state, without the need for artificial additives, while preserving their nutritional value and taste. Our ultimate goal is to showcase the unique flavors of local traditional cuisine to a global audience. APACK's machines are designed to comply with global standards. At the same time, our solutions are personalized to meet our client's specific budget and material requirements through standardized options and customized offerings. In addition, we can provide top-quality multi-layer packaging films designed to meet our client's needs.

Always Better

Collaborating with scientific research institutions and universities from various countries, we conduct research and development activities to create global solutions. We have partnered with numerous central kitchens and food packaging companies, given the worldwide changes in the economy and healthcare systems. Our focus is not solely on providing packaging machines but on delivering customized solutions to meet our customers' unique requirements.

We add value to your products.

















Packaging Systems

- Tray & Jar Sealing
- Modified Atmosphere Packaging (MAP)
- Skin Packaging (Tray or Cardboard)
- Thermoform

Packaging Machines

- perFORMA series Fully Automatic Packaging Lines (Thermoform) (MAP / CAP / SKIN)
- autoMAP series Fully Automatic Packaging Lines (MAP / CAP / SKIN)
- MAP25 series Semi Automatic Tray Sealing Machines (MAP / CAP / SKIN)
- Desktop series Tray Sealing Machines
- PET Jar Sealer and Glass Jar Vacuum Machines

Single or Multi Layered Packaging Films

- Standard films
- Barrier films
- Heat-resistant films
- Seal bag and stand-up pouch films
- Multi-layered COEX films
- Paper-based films
- Metalized films
- Retort films for pasteurization and sterilization
- Microwave and Dual-Ovenable films
- Medical Films (Tyvek®)

Areas of Usage

- Ready to Eat
- Take Away
- Chain Markets
- Central Kitchens
- Food Manufacturing Facilities
- Military Logistics
- Emergency / Traditional Catering
- Medical Packaging







Fully Automatic MAP Packaging Lines

The AUTOMAP series of machines are complete and automated packaging systems that meet all your packaging requirements. These high-capacity autoMAP machines are particularly well-suited to the Food and Medical markets, where quality and precision are paramount. Additionally, these systems are designed to work seamlessly with other machines in your manufacturing facility, providing a cohesive and integrated packaging solution.



In fully automated production lines, autoMAP packaging machines play a critical role by providing the ability to package products using various techniques, such as Modified Atmosphere Packaging (MAP) with vacuum and gas and thermal sealing applications. These versatile machines offer various packaging options for different product types and requirements. Our production line begins with tray feeding and manages every step of the packaging process, including filling, weighing, sorting, MAP sealing, labeling, collecting, and stacking. Depending on the investment budget, certain aspects of our machines, such as product filling, labeling, collecting, and sorting, can be carried out through fully automatic systems or manual operation.





AutoMAP 100/200/300/400 / Technical Details

POWER	400V, 50-60Hz, 3/N/PE, 6-8kW
COMPRESSED AIR	Necessary (6bar)
SEALING	Top Film Thermal Sealing/Cutting,
	MAP, SKIN (Optional)
VACUUM PUMP	Placed
GAS FLUSH	Available (N-Nitrogen/CO ₂ -CarbonDioxide/O ₂ -Oxygen)
PRINTED FILM	Available
TRAY MATERIAL	PET, PP, ALU, LAMINATED PAPER
TOP FILM MATERIAL	MULTI LAYERED PE-CPP-HS, ANTIFOG,
	METALIZE, MEDICAL PAPER (Tyvek»)
OPTIONAL	Automatic Tray Denester, Automatic Solid/Liquid
	Filling, Printer, Metal Detector, Check Weigher,
	UV Filter etc.
CONTROL SYSTEM	10" PLC (Programmable Logic Control)
	HMI, Color Touch Screen
TRAY SHAPE	QD <u>Z</u>
OPERATION	Fully Automatic Chain Drive and Pneumatic
INTERNET CONNECTION	Available
CAPACITY	5-8 cycle/min. (Vacuum and Gas)
	8-12 cycle/min. (Only Sealing)

maintain, and hygienically suitable for food production. Single or multi-compartment trays can be used while filling hot or cold products. We make sure packaging methods do not affect product characteristics. autoMAP series machines are designed to be customizable according

300, and 400 with different functions, features, and capacities.

primarily used in the military ration and ready-to-eat meals

cap feeding units for aluminum tray packaging,

(MREs) with an extended shelf life.

Our autoMAP line-up includes 100E, 100Mini, 100MiniEXL, 200E, 200EXL,

We have designed and implemented specific liquid filling and automatic

We have spare parts and technical service.

PACKAGING TECHNOLOGIES Pack 100-200-300-400

Fully Automatic MAP Packaging Lines

Knowhow - Experience - Quality

Apack boasts extensive knowledge and experience garnered over many years in the industry. The brand has achieved a competitive standing in global markets through high-quality materials and exceptional workmanship. Our autoMAP series machines have obtained international certifications in the food and medical sectors, attesting to their quality and reliability.

Different Packaging Techniques

Tray Sealing, Vacuum, Gas Flush, MAP, SKIN packaging methods can be applied to our autoMAP machines.

Switchable Mold Systems

The molds can easily be changed by trained personnel. The unit can be operational and quickly packaged in different tray shapes and weights.

Customizable

It is fully compatible with all kinds of packaging system accessories.

Multi-functional Control System

The automation unit performs all kinds of monitoring and inspection operations regarding the production line warnings in case of possible errors, misuses, and installation failures and protects the system. Accessories placed on the line can be operated using the control panel of autoMAP.



















paste, side dishes, etc.)

→ DELI

→ PEELED AND **CLEANED FOOD**

→ SALADS - FRUITS **VEGETABLES**

> → GRANULE **AND POWDER**

→ FROZEN FOOD PRODUCTS

→ FRESH AND **PROCESSED MEATS**

> → DRIED NUTS **DRIED FOODS**

> > → SEAFOOD

→ BAKERY PRODUCTS **DESSERT**

→ MEDICAL PRODUCTS

→ MILITARY LOGISTICS



One of the notable innovations in the packaging industry is the skin over rigid cardboard packaging. The manual placement of cardboard trays in semi-automatic machines tends to slow down operations and, as a result, decreases production output. We have integrated the skin-over-cardboard packaging method to address this challenge into our autoMAP series of fully automatic machines.

In our **autoMAP-CARDBOARD** machines, the cardboard trays can be placed manually or loaded onto the inlet conveyor using a fully automatic tray de-nester unit. Once the products are positioned in the trays on the inlet conveyor, a preheated top film is applied over the trays, and the products are sealed through a vacuum process. The skin-over technology has been designed specifically for the skin packaging of products that protrude up to 35 mm beyond the edge of the tray.

The laminated cardboard trays and top film must be compatible with skin-over-cardboard packaging. The base material and the structure of the multilayer top film directly influence the quality of the packaging. Trays and films from different brands and models, supplied by various companies, exhibit varying expansion and adhesion properties. So, our autoMAP series machines are equipped with a PLC unit that allows you to create and save different recipes tailored to each packaging material.

Our autoMAP series machines have interchangeable mold systems, allowing seamless transitions between standard sealing, MAP sealing, and skin features.





- → SNACKS
- → DELİ (Chesee, appetizers, side dishes, brine, etc.)
- → PEELED AND CLEANED FOOD
- → FRESH AND PROCESSED MEATS
- → SEAFOOD
- → BAKERY PRODUCTS
- → MEDICAL PRODUCTS
- → MILITARY LOGISTICS



As factory investments grow and production capacity increase, larger machines are often required to meet demand. In these situations, the autoMAP-MD250 is an ideal solution for businesses looking to expand their operations. With its robotic arm working method, advanced automation system, and larger equipment enable uninterrupted production, allowing businesses to achieve their desired output.



The autoMAP-MD250 is a high-speed, fully automatic MAP packaging machine that can meet the demands of high-capacity mass production. The machine can perform all stages of the packaging process, from tray feeding, weighing, sorting, MAP sealing, labeling, collecting, and stacking the product. The PLC automation unit monitors and controls all aspects of the production line, providing real-time warnings for possible errors, misuse, or installation malfunctions and protecting the system.

AutoMAP MD250 / Technical Details

POWER	400V, 50-60Hz, 3/N/PE, 6-8kW
COMPRESSED AIR	Necessary (6bar)
SEALING	Top Film Thermal Sealing/Cutting, MAP
VACUUM PUMP	Placed
GAS FLUSH	Available (N-Nitrogen/CO2-CarbonDioxide/O2-Oxygen)
PRINTED FILM	Available
TRAY DENESTER	5-6 Way
PRODUCT FILLING	5-6 Way
OPTIONAL	Printer, Metal Detector, Check Weigher,
	UV Filter etc.
CONTROL SYSTEM	12" PLC (Programmable Logic Control)
	HMI (Human Machine Interface)
	Color Touch Screen
OPERATION	Fully Automatic with Robotic Arm, Pneumatic
INTERNET CONNECTION	Available
CAPACITY	8-10 cycle/min. (Vacuum and Gas)
	12-15 cycle/min. (Only Sealing)







Multiple machines must work together in large production facilities to create comprehensive and complex systems. The autoMAP-MD250 can seamlessly coordinate with all types of mechanical production elements. It covers trays and quickly and efficiently performs gradual vacuum, gas flushing, and sealing packaging technologies. The machine can handle hot or cold filling, and the packaging process does not affect the product.

The machine body of autoMAP-MD250 is constructed entirely from stainless steel while moving belts and other components are made of hygienic materials. The unit is simple to operate, maintain, and clean, with every step of the packaging process easily controlled through the touchscreen interface. All processes can be adjusted to accommodate different trays and films, with up to 99 program memories available for quickly switching between different production models. The PLC control module provides real-time warnings for potential errors, misuse, or installation failures, safeguarding the system. Additionally, changing mold sets and film reels have been simplified for ease of use.











Fully Automatic Jar Sealer

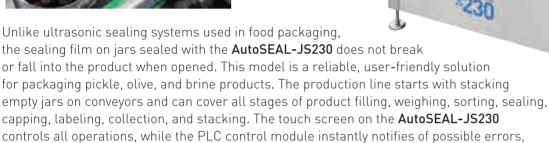
AutoSEAL-JS230 is a sealing machine designed for PET jars containing food or chemical products. It is particularly suited for sealing acidic products, including pickles, olives, and brine, as well as for sealing liquid or granular chemical products.

AutoSEAL-JS230 machines are fully automated and use heat treatment to seal PET jars mouth of various sizes with a multi-layer top film, making them suitable for products that do not require a vacuum.

These machines are specifically designed for

use in small production areas.









POWER	400V, 50-60Hz, 3/N/PE, 6kW
COMPRESSED AIR	Necessary (6bar)
VACUUM	Unavailable
SEALING	Top Film Thermal Sealing/Cutting
OPTIONAL	Gas Flush, Automatic Filling, Printer, Lid Closing,
	Metal Detector, Check Weigher, UV Filter etc.
CONTROL SYSTEM	7" PLC (Programmable Logic Control)
	HMI (Human Machine Interface) Color Touch Screen
OPERATION	Fully Automatic Chain Drive and Pneumatic
INTERNET CONNECTION	Available
MATERIAL	AISI304 Stainless Steel, 5000–7000 Series Aluminium
JAR MATERIAL	PET
CAPACITY	5-7 cycle/min.

We have spare parts and technical service.





Fully Automatic CARDBOARD Packaging Line

The CARDBOARD packaging method became applicable to thermoform machines after film manufacturers developed paper-based bottom films that could be wound on reels. We have designed our PERFORMA THERMOFORM machines to make CARDBOARD packaging.

Bottom and Top packaging films Our fully automatic PERFORMA thermoforming packaging machines can use printed or unprinted

paper-based bottom-films.





This packaging method uses eco-friendly packaging materials.











PACKAGING TECHNOLOGIES PACK 300-400-500

Fully Automatic Thermoform MAP Packaging Line

These machines are fully automatic and can form, fill, and seal formed trays. Depending on the desired package type, they can perform VACUUM, MAP, and SKIN packaging and are suitable for food and medical packaging.



Touch screen

The PLC automation unit immediately warns of possible errors, misuse, and installation failures and protects the system.



Changable Mold System

Thanks to special mold trolleys, mold change can be provided quickly, and production can be started in different types and weights

perFORMA Termoform 300/400/500 /Technical Details

<u> </u>	
POWER	400V, 50-60Hz, 3/N/PE, 6-14kW
COMPRESSED AIR	Necessary (6bar)
FORMING	Preheating (Rigid Films)/Forming/Air or Water cooling
SEALING	Top Film Thermal Sealing/Cutting, MAP
VACUUM PUMP	Placed
GAS FLUSH	Available (N-Nitrogen/CO ₂ -CarbonDioxide/O ₂ -Oxygen)
PRINTED FILM	Available
COOLING WATER (Chiller)	Necessary for Rigid Films(60-80 liter/h)
OPTIONAL	Skin Packaging, Automatic Filling, Printer, Metal
	Detector, Check Weigher, UV Filter etc.
CONTROL SYSTEM	12" PLC HMI Color Touch Screen
OPERATION	Fully Automatic Chain Drive, Tray Forming/Sealing and Pneum
INTERNET CONNECTION	Available
MATERIAL	AISI304 Stainless Steel, 5000-7000 Series Aluminium
TRAY SHAPE	QDZ00
TOP FILM WIDTH	330/370/430/470/530/570 mm.
BOTTOM FILM WIDTH	320/360/420/460/520/560 mm.
FILM MATERIAL	MULTI LAYERED PET,PE,PP,CPP,HS, METALIZE,
	MEDICAL PAPER (Tyvek®)
CAPACITY	6-10 cycle/min. (Vacuum and Gas)
	8-12 cycle/min. (Only Sealing)

We have spare parts and technical service.



PERFORMA 320 - 360 - 420 - 460 - 520 - 560 Fully Automatic Thermoform MAP Packaging Line

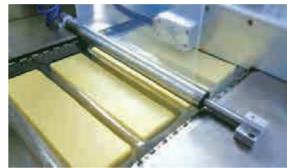
perFORMA thermoforming machines are especially preferred in portion packaging, various cheese, fresh or processed meats, sliced salami, sausage, phyllo, ravioli, fish, and other types of seafood packaging.

The machine is widely utilized in the medical sector for packaging medical consumables such as surgical gowns, gloves, IV tubing, syringes, needles, machine kits, dressing materials, test kits, etc. Typically, Tyvek-type medical paper sealing on soft bottom film is the preferred method in medical packaging.

Online access allows for system controls to be managed for all perFORMA series machines.

Certificates

It holds international certification for both the food and medical industries.



Packaging can be fully automated using these machines, from tray production to final product collection. It is also highly flexible and can be easily integrated with different packaging system accessories and machines in the production line. Customization options for the machine elements are available to match the production area and customer's requirements. Various packaging molds can be used, including square, triangle, round, and rectangular shapes. The machines can handle hot and cold filling of products, and packaging methods do not affect the product. Additionally, they can produce cost-effective packaging at high capacities using single or multi-layered, laminated, foam, or medical films.

Gradual vacuum operations can be easily performed using the special ZERO₂XYGEN software. The machine is easy to use, maintain, and clean.

PEHEIRHA?



Forming Unit

The tray forming unit is compatible with preheating/cooling with air or water / homogeneous or double-effect molding methods by the packaging material. perFORMa series works with all kinds of top and bottom web films.

Quality

Top-notch and long-lasting industrial systems are manufactured from AISI304 stainless steel and 5000-7000 series aluminum, ensuring durability and quality. The mobile components and conveyor belts are fashioned from sanitary materials.





Fully Automatic Tray Sealer

This solution is ideal for packaging food and medical products that do not necessitate a vacuum or gas. It is commonly employed in packaging various items, including pastries, baked goods, takeout meals, dry foods, pre-made meals, salads, and deli items prepared for daily consumption. Its effectiveness is particularly noteworthy for food products arranged on large markets' shelves for daily sales.

The **EcoSEAL** packaging machine with fully automated systems can meet all your packaging needs. It is designed for tight spaces and limited budgets, similar to the features of fully automated machines. The system is compatible with a range of auxiliary units, including tray feeding, filling, weighing, sorting, sealing, labeling, collecting and stacking equipment. The automation unit responsible for monitoring and inspecting all aspects of the production line will signal warnings in the event of any possible errors, misuse, or installation failures, thereby safeguarding the system. The machine accommodates single and multi-compartment trays and supports using various printed or unprinted multi-layer top films. Operating, maintaining, and cleaning the machine is simple, and trays can be filled with either hot or cold products. Additionally, the packaging process does not

affect the quality of the product.

AUTO

MATION













EcoSEAL 100Mini / Technical Details

POWER	400V, 50-60Hz, 3/N/PE, 4-8kW
COMPRESSED AIR	Necessary (6bar)
SEALING	Top Film Thermal Sealing/Cutting
VACUUM	Unavailable
OPTIONAL	Printed Film, Automatic Tray Denester, Automatic Filling, Printer, Metal Detector, Check Weigher, UV Filter etc.
CONTROL SYSTEM	7" PLC (Programmable Logic Control)
	HMI (Human Machine Interface) Color Touch Screen
OPERATION	Fully Automatic Chain Drive and Pneumatic
MATERIAL	AISI304 Stainless Steel, 5000–7000 Series Aluminium
INTERNET CONNECTION	Available
TRAY SHAPE	000400
TRAY MATERIAL	PET, PP, ALU, LAMINATED PAPER
CAPACITY	8-10 cycle/min.

We have spare parts and technical service.

→ SOLID OR LIQUID. **CONVENIENCE FOOD**

> (Daily Consumption) → DELI

(Daily Consumption)

→ PEELED AND

CLEANED FOOD

(Daily Consumption)

→ SALADS - FRUITS **VEGETABLES**

(Daily Consumption)

→ GRANULE

AND POWDER

→ FROZEN FOOD

PRODUCTS

→ FRESH AND

PROCESSED MEATS

→ DRIED NUTS

DRIED FOODS

→ SEAFOOD

→ BAKERY PRODUCTS

DESSERT

(Daily Consumption)

→ MEDICAL PRODUCTS

→ MILITARY LOGISTICS



Semi-Automatic MAP Tray Sealer

The MAP25 series stands out as the most proficient and dependable among its counterparts. It boasts exceptional durability and does not tend to malfunction, thus preventing operational issues. Moreover, this unit is designed to fit compact production spaces and can be effortlessly cleaned, serviced, and operated. Notably, all models in this series are suitable for packaging food and medical products.

Designed and engineered for small to medium-sized manufacturers, the MAP25 series is a remarkable innovation. It has an impressive production capacity of up to 5000 packages per shift and can handle solid and liquid products. The unit supports various package shapes, including square, triangular, round, rectangular, and single or multi-compartment formats. Moreover, the products can be filled at hot or cold temperatures, and the packaging method

has no adverse effects on the product.





MAP25E (Expanded)

The standard MAP25 structure and mold dimensions have expanded to accommodate non-standard large packages. The unit's dimensions can be customized to suit your specific packaging requirements. Additionally, a free roller inlet and outlet conveyor can be integrated into the MAP25E model when needed while retaining all the features of the MAP25 unit.





It is the very first model produced by APACK. The design and technology of the unit are continuously refined to enhance its performance. The stainless steel body bolsters its robustness, and the settings remain unchanged during relocation. The machine's body is crafted from AISI304 stainless steel, while its molds are made from 5000-7000 series aluminum. Industrial standards fabricate the unit to create a high-strength, durable casting sealing pool. Only premium-quality electrical, electronic, and pneumatic components are sourced from renowned global brands.

Changeable Mold Set

The changeable mold system enables quick and effortless modification, allowing the machine to produce various packaging types simultaneously. The unit can package products of diverse shapes and sizes, including squares, rounds, ellipses, and triangles. Furthermore, by adjusting the depth of the pool, the same product can be easily packed in various weights.

Modern Packaging Techniques

Our machines are compatible with modern packaging techniques, highly favored in the food and medical industries. The MAP25 machine can easily accommodate various packaging methods, including tray sealing, vacuum, gas flush, MAP, SKIN, and CARDBOARD types.

Multi-Function Control System

The touchscreen interface enables effortless monitoring and control of all packaging steps, displaying any potential error messages on the screen. The process can be customized to accommodate various tray and film types, and the unit features 99 program memories for quick transitions between different production models. Additionally, the special ZERO, XYGEN software enables gradual vacuum application.



















Semi-Automatic MAP Tray Sealer



MAP25-EXL - (Large Packages)

Tailored to meet your non-standard large and heavy MAP packaging needs, this unit features various engineering modifications explicitly designed for large and heavy packaging requirements while retaining the basic functionalities of the MAP25 series. The unit is particularly suitable for packaging products prone to spilling, emitting odors, containing oil, or polluting the packaging environment such as fish. To facilitate easy cleaning, the drawer pool is designed to be washable. The sealing pool is equipped with a lift to facilitate the processing of heavy packages, while the unit comes with a standard free roller inlet and outlet conveyors.

MAP25 Series / Technical Details

PIAN 23 Series / Tec		
POWER	400V, 50-60Hz, 3/N/PE, 4-6kW	
COMPRESSED AIR	Necessary (6bar)	1
SEALING	Top Film Thermal Sealing/Cutting, MAP(Optional)	(6)
SKIN (TRAY/CARDBOARD)	Optional	
VACUUM PUMP	Placed	ACCES
GAS FLUSH	Available (N-Nitrogen/CO2-CarbonDioxide/O2-Oxygen)	la la
PRINTED FILM	Available	
TRAY MATERIAL	PET, PP, ALU, LAMINATED PAPER	ALC: U
TOP FILM MATERIAL	MULTI LAYERED PE-CPP-HS, ANTIFOG,	933.5
	METALIZE, MEDICAL PAPER (Tyvek⊛)	
OPTIONAL	Printer, Metal Detector, Check Weigher, UV Filter etc.	
CONTROL SYSTEM	7" PLC (Programmable Logic Control) Color Touch Scree	THE STATE OF THE PARTY OF THE P
OPERATION	Semi Automatic with drawer and pneumatic	
INTERNET CONNECTION	Available	8
TRAY SHAPE	700	pack
CAPACITY	4-5 cycle/min. (Vacuum and Gas)	
	8-10 cycle/min. (Only Sealing)	
We have spare parts and tec	hnical service.	



Semi-Automatic SKIN Packaging Machine

As a modern packaging method, SKIN PACKAGING has recently gained considerable popularity. It offers an attractive presentation on market shelves by encasing the product in a transparent film that resembles a second skin. Despite its higher unit cost, this packaging model has garnered significant appreciation from modern consumers.

SKIN PACKAGING not only extends the shelf life of food but also steadily increases its market share due to its distinctive appearance and role in reducing food waste.

The SKIN technique, initially implemented in our MAP25 series semi-automatic packaging machine, is now available across a range of machine models that we design and manufacture.

Skin packaging technology utilizes both plastic and paper-based trays. Unlike standard packaging trays, skin packaging ensures that products placed on trays with a side height of no more than 1.5 cm are fully visible. This method is particularly favored for quick consumption or portioning products, including sliced meat, hamburger patties, sliced salami, portioned cheese, sliced cheese, and fish.

In skin packaging, the upper film adheres to the tray starting from the edge of the product, ensuring a long shelf life while preserving the shape and position of the product. The effectiveness of this packaging method depends on various factors, including the mold structure of the machines, the quality of the trays, and the upper films and sealing techniques employed. These elements can vary significantly, impacting the overall performance of the packaging system.

SEMI

TOOI

SKIN















→ DELİ (Chesee, appetizers, side dishes, brine, etc.)

→ PEELED AND **CLEANED FOOD**

→ FRESH AND **PROCESSED MEATS**

→ SEAFOOD

AREAS OF US

→ BAKERY PRODUCTS

→ MEDICAL PRODUCTS

→ MILITARY LOGISTICS







pack25skin



Semi-Automatic Overskin Packaging Machine

In the advanced stage of Skin Packaging, the SKIN-OVER-CARDBOARD method utilizes flat surface material instead of traditional trays. Our MAP25 series machines have been specifically designed and developed to accommodate cardboard packaging.

Although various names in different countries know this method, it involves using flat, borderless laminated paper or cardboard trays instead of traditional trays with edge depth. The ability to print desired graphic designs directly onto paper or cardboard surfaces enhances consumer appeal. These trays can be displayed on shelves or hung. This approach is favored for fast consumption or portioned products, similar to skin packaging. The borderless cardboard packaging ensures that the product's shape is fully visible.

Although similar techniques to skin packaging are applied in the **CARDBOARD** packaging method, the packaging materials' properties vary. The paper base and laminated plastic can be separated after use, which is appreciated in terms of environmental and recycling rules.

The molds of the MAP25 Cardboard can be changed, and the machine can easily converted to standard sealing, MAP sealing, or SKIN features. All machine features can be controlled via the color touch screen of the multifunctional PLC unit.

Machine settings are critical in Skin-Over-Cardboard packaging. The quality of the bottom material used and the upper sealing film directly affect the quality of the packaging. The expansion and adhesion properties of different brands and models of materials, cardboard trays, and films supplied by different companies also vary. In the MAP25 PLC unit, you can create different recipes for each packaging material and save them in memory.











Semi Automatic Desktop Tray Sealer

TableTOP20 is powered by standard local electricity, eliminating the need for additional devices, and is an economical option for those not yet ready to invest in fully automated systems.

The machine features a changeable mold system that allows easy and quick switching between different types of product packaging. It can accommodate single or multi-compartment trays. Although it does not have a vacuum system, IQF can be applied to achieve extended shelf life. Additionally, it can work with various tray materials such as plastic, aluminum, and laminated paper.

The **TableTOP20** tray sealing unit is powered by an asynchronous electric motor, enabling it to deliver faster, higher quality, and stronger seals compared to manual sealing in other desktop machines. The digital control systems fix the sealing temperature and time at the desired parameters, resulting in a perfect-looking product that is suitable for both hot and cold packaging. Moreover, the packaging methods employed do not affect the product.













AREAS OF USAGE

 \rightarrow READY TO EAT

(Daily Consumption)

→ TAKE AWAY

(Hot or Cold)

→ MARKETING TESTS

→ FAST FOOD

Daily Consumption

→ CATERING

→ FOOD MANUFACTURING

FACILITIES

Table TOP20 / Technical Details

POWER	200-220V, 50-60Hz, 1/N/PE, 2kW
COMPRESSED AIR	Unavailable
VACUUM	Unavailable
SEALING	Top Film Heat Sealing/Cutting
OPTIONAL	Gas Flush, Stainless Steel Trolley Table
CONTROL SYSTEM	Digital Sealing Heat Controller
	Digital Sealing Time Controller
OPERATION	Semi Automatic with drawer, servo motor drive
MATERIAL	AISI304 Stainless Steel, 5000–7000 Series Aluminium
TRAY SHAPE	QDZ100
TRAY MATERIAL	PET, PE, ALU, LAMINATED PAPER
CAPACITY	6-10 cycle/min.

We have spare parts and technical service.



PACKAGING TECHNOLOGIES DOTS/DOTSC

Desktop Tray Sealer

DOTS and DOTSC are cost-effective tray-sealing machines ideal for market testing new products, low-volume production, or hot/cold ready-to-eat food delivery.

The **DOT** series machines are designed to use both flexible top film with plastic tray (DOTSC) and laminated paper caps with laminated paper tray (DOTS). They are easy to use, carry, and operate without any complications. With its compact structure, the DOT series is ideal for small-scale food packaging, as it does not take up much space. The DOT Desktop Tray Sealers have international certifications, ensuring the quality of the product. Additionally, the machine temperature does not affect the packaged product during sealing.

Single and multi-compartment trays are compatible with **DOT series** machines and can handle both hot and cold products. IQF application ensures a long shelf life for the packaged products. With a capacity of producing up to 2000 packages per day with a single operator, **DOT** Desktop Tray Sealers are highly efficient. The Digital Sealing Temperature Control feature allows for precise sealing temperature adjustment, which remains constant throughout the operation to prevent any deformation in the packaging material. Although the machine lacks vacuum and gas facilities, it provides fixed and changeable tool models. **DOT** Desktop Tray Sealers are an excellent choice for test productions to determine packaging material qualities, sizes, and presentation styles.





→ READY TO EAT

(Daily Consumption)

→ TAKE AWAY

[Hot or Cold]

→ MARKETING TESTS

→ FAST FOOD

(Daily Consumption)

→ CATERING
→ FOOD MANUFACTURING

FACILITIES

DOTS / DOT SC / Technical Details

POWER	110-220V, 50-60Hz, 1/N/PE, 1kW
SEALING	Top Film Heat Sealing - Cutting(SC Model)
OPTIONAL	Changeable Tool
CONTROL SYSTEM	Digital Sealing Heat Controller
OPERATION	Manual
MATERIAL	Coated Cast, 5000 Series Aluminium
TRAY SHAPE	QDZ00
TRAY MATERIAL	PET, PE, LAMINATED PAPER
CAPACITY	4-8 cycle/min.

We have spare parts and technical service.





Medical Packaging Machines

The thermoform machines are commonly used in packaging disposable medical products such as test kits, laboratory kits, dressing sets, surgical gowns, sterile gloves, syringes, IV tubing, and laboratory test materials.

The medical industry often favors this type of machine, with a trend towards using soft bottom film and laminated top film made of easy-to-peel medical paper (such as Tyvek®), printed with necessary health information.

We have been innovating the design of our machines to conform to world standards. Our machines are manufactured with a stainless surface, screws, nuts, buttons, and cables prepared according to ISO13485 criteria. We also work on special projects for medical consumables packaging.

Our APACK thermoforming and tray sealing machines for medical packaging are made with low microbial contamination AISI 304 generation stainless steel.

Utility model certificates protect our products numbered 2010/07255 and 2010/05885, and we hold ISO9001 / ISO22000 / ISO13485 conformity certificates.

We offer continuous and regular spare parts and technical services.











Regardless of the model, we approach every machine with the same level of care, quality, and use of modern technologies. Our product range spans from practical desktop models to fully automated packaging machines.



User-Friendly Solutions

APACK machines are highly customizable to meet each customer's specific demands and needs. They are designed to be user-friendly, easy to clean, and easy to maintain. All machines are made of AISI304 stainless steel, following world standards. The automatic machines are controlled via touch screens and can also be remotely controlled through an internet connection.



The APACK machines are also compatible with various Packaging Line Accessories, such as Tray Denester, Multihead Portioner, Weigher, liquid or solid Automatic Filler, Printer, Labeller, Conveyor, Metal Detector, UV Scanner, and Gas Mixers.

Customers can also benefit from our Spare Parts, Technical Service, and machine use and maintenance training.

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PACKAGING TECHNOLOGIES	DES	KTOP SC	DESKTOP SOLUTIONS	SEN	II AUTOM	SEMI AUTOMATIC SOLUTIONS MAP25	SNOL		FIL	FULLY AUTOMATIC SOLUTIONS	OMATIC S	; SOLU	TIONS			THERMOF	THERMOFORMING SOLUTIONS	LUTIONS
Dack	DOT	DOTSC	DOT DOTSC TABLETOP20	MAP25	MAP25-E	-EXL	MAP25-DS	EcoSEAL 100E 100Mini 100EXL 200E 200EXL MD250	100E 1	00Mini	OOEXL	 :00E 2C	OEXL N		JS230	300	400	200
SEAL	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
FILM CUT			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
VACUUM				•	•	•	•		•	•	•	•	•	•		•	•	•
GAS				•	•	•	•	(SdO)	•	•	•	•	•	•	(0ps)	•	•	•
MAP				•	•	•	•		•	•	•	•	•	•		•	•	•
SKIN - TRAY				•								•	•			•	•	•
SKIN - CARDBOARD				•								•	•			•	•	•
COMPRESSED AIR				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
TRAY FORMING																•	•	•
CHANGEABLE MOLD SET	(0ps)	(0ps)	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AUTOMATION			SEMI	SEMI	SEMI	SEMI	SEMI	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL	FULL
FILM WIDTH (mm) (Max)	220	220	530/405	530	089	480	530	420	009	420	009	009	009	320	230	530/570	530/570	530/570
FILM OUTER DIAMETER Ømm (Max)	190	190	180	290	290	250	290	300	300	300	300	300	300	300	300	300TF 350BF	300TF 350BF	300TF 350BF
CAPACITY (Vacuum&Gas) Cycle/Min	ı	,	8-7	9-7	9-7	4-6	9-7	-	2-8	2-8	5-8	2-8	5-8	8-10	-	6-10	6-10	6-10
CAPASITY (Seal only) Cycle/Min	88	8-4	6-10	8-10	8-10	8-10	8-10	8-10	8-12	8-12	8-12	8-12 8	8-12	12-15	5-7	8-12	8-12	8-12
PODACK NUR SOLUTIONS (C) DACK NOLD SOLUTIONS (C) DACK NOLD SOLUTIONS (C) PAGE NUMBER ALL ROLDS OF METEROLOGY ALL ROLDS OF MULD SUPPORT		DA.						(II)		F.			U				c-111	





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