



TEKNOBIS

Packaging Machines & Feeding Systems



Inspiring Experiences...

About Us

The machines used for packaging chocolate, bar, biscuits and wafers are the main activity of Teknobis since 2011. Since its establishment, our company has started to produce machines that reduce the product set-up times to minimum levels. Thanks to importance we attach to the mechanics, design and quality of materials in the machines we have produced, we can compete with European companies. High quality flow pack machines and automatic feeding systems have proved their adequacy in meeting customer demands. In flow pack machines, we provide our customers with the required high-speed designs to pack the products without manual intervention, which equal to their counterparts in developed countries. We continue to offer fast packaging machines and multipack packing machines with mobile clamp, which allows to pack product of different sizes, and also feeding systems for all production lines to customers' disposal. Chocolate feeding, biscuit feeding, wafer feeding and their flow pack packaging, in-line feeding systems and automatic feeding systems for packaging cake and bar type products are produced.

TEKNOBİS MAKİNA, which started out with its superior service and high quality production principle, has deservedly become our source of pride with its high quality products and special after-sales service for packaging machines, high capacity and special purpose feeding systems. Our company aimed at institutionalization in its industry by adopting dignity, discipline, equity, trust, innovation and timely execution as principles. Our company has always believed in the necessity of commercial ethics by maintaining its reputation before its own staff and cycles. Our company has achieved to be among the leading companies in this sector both in domestic and international market with its superior technology and reputation which does not allow to compromise from quality. With its rapidly growing business capacity and market share, TEKNOBİS MAKİNA, which has become a leader in its sector today, proudly enjoys maintaining this position in the best way...

At the present time, Teknobis Makina is a Turkish group of companies that can offer high level special solutions to its customers, producing processing and distribution systems, folding and packaging machines and turnkey equipment.

Our Mission

To meet customer demands at the highest level by continuously improving our product and service quality. to establish a strong bound with our customers through fast response time, and to preserve sustainability through customer-focused service and product quality

Our Vision

To be a reputable company, which leads the packaging industry with high quality products and constantly improving respective methods for the future requirements.

To achieve company and unit targets through team spirit on the basis of Total Quality approach, increasing the efficiency to the level of competitiveness at the international level by continuous improvement, supporting innovative approaches and provide trainings that will increase individual competencies.



Activities

Feeding systems

Feeding systems with separator

Feeding systems with automation channels

The pack aging machines and feeding systems for Sandwich products

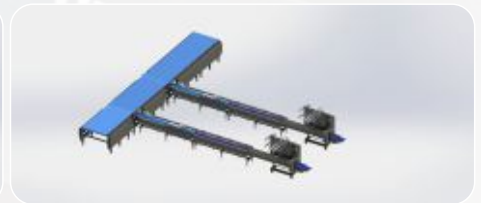
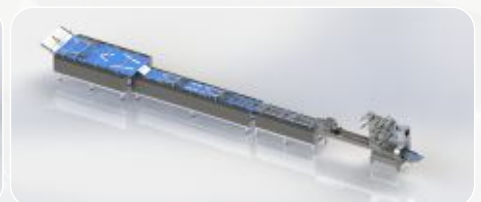
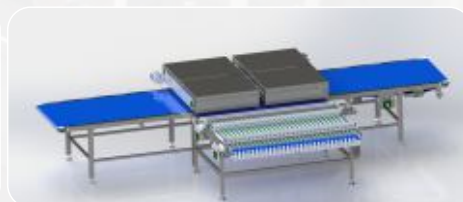
Maintenance and revision of both old and also new packaging machines

Consultancy services for Mechanical, electrical and electronical, process and formulation etc.

Multipak (withservo-motor) packaging machines and feeding systems

In-line packaging machines and feding systems

Conveyor systems



TEKNOPAC- GZ 70 MOBILE JAW PACKAGING MACHINES

TEKNOPAC GZ 70 mobile jaw packaging machine with his high approved technology specifications and experiences is different from the same class machines of the other companies. These specifications have brought TEKNOPAC GZ 70 machine to the top of the same class machines respectively. TEKNOPAC GZ 70 machine has been designed for the necessity of high speed, longer, wider and higher dimensioned products. In this type of machine, the multipack products can be packed easily. With these innovative specifications of TEKNOPAC GZ 70 mobile packaging machine, you can combine your own machine to this machine easily and you can operate both together and separately. And also you can combine different kind of feeding modular systems due to the servosystems of TEKNOPAC GZ 70 .



TECHNICAL SPECIFICATIONS

- Servo system packaging size settings
- Servo system pallet setting
- Mobile jaw system with Liner slide and servo
- Servo system Jaw Up-Down
- 4 pcs. longitudinal bonding disk group
- Double line pallet system
- Adjustable enveloping unit (will be made individually for each product specified)
- AISI 304 quality stainless steel body
- Output band control in the system will be provided by speed control with asynchronous motor.
- Side ear folding system
- Adjustable enveloping unit (will be made individually for each product specified)



- Flat table bonding Flowpack Mobile Jaw Packaging.
- Packaging material will arrive from the top.
- Control by 10" touch screen color display / OMRON
- Automatic product calling system memorizing packing product information.
- Complete electrical part sandwich material/ OMRON
- Capacity may change according to product size and packaging materials, max. 60-70 packages/minute
- Servo motor controlsystem / OMRON
- Machine assembly 3,2 m double line product passing pallet group
- Bonding disks will be 16-17 mm.
- Temperatures are controlled on the touchscreen display SSR (OMRON).
- Noise generated by machine, motor and electrical devices during operation is minimized.
- Jaw wait setting via display
- Ability to operate with/without photocells
- Mechanical brake system ensuring proper paper flow
- Emergency stops and safety switches in places required in terms of user safety
- AC Motor speed adjustment / OMRON
- NERI MOTORI brand AC motors / ITALIAN
- VARVEL and APEX brand reducers / ITALIAN
- Control by OMRON brand MOTION CONTROLLER
- SICK brand Photocell
- WINMAN brand pneumatic cylinders



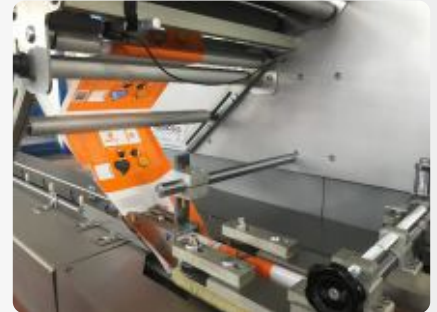
TECHNICAL PROPERTIES

MODEL	TEKNOPACK GZ 70
CHASSIS	304 CrNi
WEIGHT	800 KG
POWER	5.5 Kw
VOLTAGE	400 V
FREQUENCY	50-60 HZ
PHOTO - CELL ADJUSTMENT	AUTOMATIC
JAW STANDBY ADJUSTMENT	AUTOMATIC
PRODUCT CARRIAGE SYNCRONIZATION	AUTOMAT
BOBBIN GROUP	TENSION CONTROLLED
JAW GROUP	HORIZONTAL JAW
DISK GROUP	4
NUMBER OF SERVO MOTORS	4 ITEMS
OPERATOR PANEL	10"
STICKING PROPERTY	HOT/COLD
MAX CAPACITY	60 - 70 (pack /minute)
FEEDING TYPE	MANUEL, L TYPE, AUTOMATIC



TEKNOPAC 120 PACKAGING MACHINE

Electronic packaging machine had been designed to pack uniform products in order to provide high production together with full automatic packaging unit. Main properties of packaging machine are console design, modular structure, high flexibility and performance, easy operation and product change, low maintenance cost and full automatic electronic control packaging machine. Machine that constructed on the aluminum chassis in modular structure had covered with steel covering. There are repellent soldier systems that can be changed easily and providing feed of different types of products to entry conveyor. There are adjustable stainless side guides and easily changed product moulds. Bobbin group that can be adjusted sensitively provides minimum paper waste and more frequent packaging. In hot sticking applications there is chance to work with cellophane, porlize, polypropylene and aluminum laminate packaging materials in roll form; in cold sticking applications there is chance to work with all kinds of packaging materials. In order to provide safe operating conditions there are special lids and safety switches in jaw groups. In case of jamming there is "Jaw Automatic Protection System" to protect jaws and products. By the help of the control units used on machines, there is chance to reach and intervene with product package size, photocell adjustment and intervention. According to product shape and type it is possible to work with min 100, maximum 125 package/minute capacity. There is increase in capacity due to product sizes (width, length, and height), product shape, product output from the line and feeding. Speeds we declared in our meeting are guaranteed.



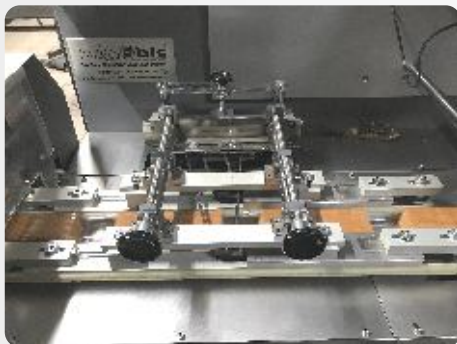
GENERAL PROPERTIES

- 4 disc groups for lengthwise sticking and one group of directing disc group
- Color photo-cell for press control
- Special steel sticking jaws can be changed according to product and packaging material
- There will be AT5 10 mm Italian or German Megadyne brand group belts used on carriage group.
- All kinds of propulsion and movement systems and electricity cabinet are placed as isolated on the process line.
- It had designed for easy band change and alignment works.
- Reducers will be Italian brand Varvel and Apex.
- Brands of the servos will be OMRON.
- Speed control devices will be OMRON. System will be controlled with PLC and there will be required settings will be provided from OMRON 10" touch operated control panel. System can be operated, stopped from operator panel and alarms related with system can be monitored.
- Operator, conveyor speeds, pallet settings, jaw settings, side panel belt settings can be made from panel.
- This product had been designed for creamed and plain products.
- Cycle of products can be made in very short durations.



TEKNOPAC 120 PACKAGING MACHINE

TEKNOPAC 120 is a packaging machine used for packaging multiple products. TEKNOPAC 120 Packaging is recommended to the manufacturing firms with high capacity production and diversity. TEKNOPAC 120 packaging machine is used for eared type packaging of creamed, petit beurre, finger, cracker, seedcake packaging. Product transformation duration is in minimum level and it is possible to use for different products without any need of mechanical change. It can be operated with packaging materials for hot and cold sticking and date printing device can be mounted on them.



TECHNICAL PROPERTIES

MODEL	TEKNOPAC 120
CHASSIS	304 CrNi
WEIGHT	1350 KG
POWER	7 Kw
VOLTAGE	400 V
FREQUENCY	50-60 HZ
PHOTO - CELL ADJUSTMENT	AUTOMATIC
JAW STANDBY ADJUSTMENT	AUTOMATIC
PRODUCT CARRIAGE SYNCRONIZATION	AUTOMAT
BOBBIN GROUP	TENSION CONTROLLED
JAW GROUP	HORIZONTAL JAW
DISK GROUP	4
NUMBER OF SERVO MOTORS	5 ITEMS
OPERATOR PANEL	10"
STICKING PROPERTY	HOT/COLD
MAX CAPACITY	100-125(pack /minute)
FEEDING TYPE	MANUEL, L TYPE, AUTOMATIC

TEKNOPAC 300 HORIZONTAL FLOWPACK MACHINE

The electronic flow pack machine is designed with a fully automatic feeding unit for wrapping the ordered products for high production capacity. The main features of the flow pack machine are the console design, modular structure, high flexibility and performance, easy operation and product change, low maintenance cost and fully automatic electronic control. Our machine has been technically designed as appropriate to the fast packaging. In addition to this, the automatic roll transmitting system, product's package length, photocell settings, receipt systems and other application options are made through the touchscreen. It is possible to pack the products especially such as the soft cake, chocolate bar, etc. while maintaining the product quality at high speeds by adding in-line feeding systems into the TEKNOPAC 300 Flow Pack machine.



GENERAL CHARACTERISTICS

- With longitudinal bonding disc to 4 group and one group guidance disc group
- Color photocell for press control.
- Special steel bonding jaws modifiable depending on the product and packaging material.
- All drive and movement systems and electric cabinet are isolated and located on the process line.
- Designed for easy band change and alignment works.
- The reducers will be Italian Varvel and Apex brand.
- The brand of servos used will be OMRON.
- The speed control devices will be the brand of the OMRON. The system will be PLC controlled and the necessary changes will be made through the OMRON brand 10" touchscreen control panel.
- The operator will be able to adjust the speeds of conveyor, pallets, jaw, side conveyor belt group from the panel.
- It has been designed for the operation of single and multiple products.
- The product changes may be made at a very short time.



ADVANTAGES

- High quality, excellent packaging.
- Opportunity to work with minimum scraps and maximum productivity.
- Designed for uninterrupted operation.
- Fast switching for different sizes and shapes.
- Easy to be adapted on the systems.
- Option of right and left position.
- Modular console chassis.
- 4 pairs disc units (cold, heated bending).
- Hot and cold bonding equipment.
- All parts contacting with the product are of stainless steel.
- Color photocell for photoelectric cutting.
- The product sizes can be changed by changing the product-specific folding mould.
- The wastage of the packaging material is minimized with the missing product detecting system.
- The various products can be saved in the PLC program.
- Separate electric cabinet to place all electrical and electronical parts.
- Easy to adjust to different product lengths in a very short time.



TECHNICAL CHARACTERISTICS

MODEL	TEKNOPAC 300
CHASSIS	304 CrNi
WEIGHT	1250 KG
POWER	12 Kw
VOLTAGE	400 V
FREQUENCY	50-60 HZ
PHOTOCELL SETTING	AUTOMATIC
SETTING OF JAW WAITING	AUTOMATIC
PRODUCT CONVEYING SYNCHRONITY	AUTOMATIC
COIL GROUP	AUTOMATIC
JAW GROUP	HORIZONTAL JAW
DISC GROUP	4
NUMBER OF SERVO ENGINE	7 SERVO, 7 ASYNCHRONOUS
OPERATOR PANEL	10"
BONDING CHARACTERISTICS	HOT/COLD
MAX. CAPACITY	COLD: 300-400 (Pcs/min.)
FEEDING TYPE	L TYPE, IN-LINE

TEKNOPAC - 200 PACKAGING MACHINE (90 DEGREE FEED)

The electrical packaging machine is designed for high production productivity and Standard product wrapping by automatic feeding system. The console design, modular shape, high performance and flexibility, easy operation control and product change, low machine maintenance, full automatic feeding parts are the main properties of this type of machine.



GENERAL PROPERTIES

- With 4 group longitudinal sealing discs
- Color adjustable photocell for print control
- Turning on roller for sensitive wrapping material control.
- The special designed sealing steel jaws that can be changed easily according to the product and wrapping material.
- All turning on and moving parts and electricity cabinet are placed as isolated on the production line and designed for easy belt change and centering.
- Designed for easy belt change and alignment.
- The mechanical adjustable scrapers which are made of DERLIN material are present on all belt conveyors.
- The cleaning and maintenance are so easy.
- All electrical parts are like Siemens, Omron, Schneider Group, Weidmüller distinguished Trade Marks.
- Only OMRON or SCHNEIDER trade Marks are used for frequency speed control
- The system will have a touch panel PLC control screen and all settings will be done as touchable manually.
- All alarms will be visualized and the machine will be operated on the operator screen panel.
- The operator can adjust the speeds of all different belts from the control panel and also adjust the product numbers.
- All reduction gears will be used as VARVEL and APEX Trade Marks.
- All pneumatical parts will be used as WINMAN Trade Marks.



TEKNOPAC - 200 PACKAGING MACHINE (90 DEGREE FEED)



TECHNICAL CHARACTERISTICS

MODEL	TEKNOPAC 200
FRAME	304 CrNi
WEIGHT	1100 KG
POWER	10 Kw
VOLTAGE	400 V
FREQUENCY	50-60 HZ
PHOTOCELL ADJUSTMENT	AUTOMATIC
JAW WAITING SETTING	AUTOMATIC
PRODUCT SYNCHRONIZATION	AUTOMATIC
BOBBIN GROUP	AUTOMATIC
JAW GROUP	HORIZONTAL
DISC GROUP	4
SERVO MOTOR	4 UNITS
OPERATOR PANEL	10"
SEALING TYPE	HOT/COLD
MAX. CAPACITY	HOT: 180 (Pcs/min.) COLD: 200 (Pcs/min..)

CREAM BISCUIT / BISCUIT FEEDING AUTOMATION

Products from cooling lines are directed to the machine through palette system. Products are carried to channels by means of band at the telinmatik entrance. Products are centered to channels thanks to shaking system at the channel entrance. Telinmatik is a banded system and is simple-structured. Thus, simple and easy to clean and keeps contamination at minimum levels. Telinmatik will be manufactured with 24 channels and alternatives may be available for different weights in grams. Maximum package content will be 12 pieces. Channel width will be adjustable according to product size. If requested, number of channels may be increased. Can be designed to have a min. Diameter of 38 mm, max. diameter of 80 mm.



TECHNICAL SPECIFICATIONS

- Coated and uncoated products exiting from cooling tunnel are brought to feeding channel thanks to feeding conveyors.
- Packaging feeding system has the capacity of 125 pcs./min. depending on the packaging speed.
- The number of biscuit to feed will be determined by the buyer company. (Number of biscuit in one package)
- Products are fed to the packaging machine queue through servo-driven spike roller system and pneumatic holder.
- Band control units are available on all bands.
- Mindman, Winman or Mag brand products are used in pneumatic systems.
- Blue polyurethane bands suitable for food products are used in the system.
- Main chassis is manufactured from 304 quality chrome-nickel and 6000 series aluminium materials.
- All channels are sensor controlled.



DOUBLE LINE CREAMING MACHINE

- The machine has 1000 pieces sandwiches/minute. According to product dimensions the capacity may change.
- Feeding channels are equipped with electrical vibrators.
- Equipped with 1 piece of cream bowl.
- All motors have speed control equipments. Cream pump gears have extra gear unit to drive both gears at the same time. Cream gears are made of stainless steel.
- This machine is suitable for round biscuits; \varnothing 38 mm - \varnothing 60 mm for rectangular biscuits; 38 X 38 mm – 60 X 60 mm



SANDWICH BISCUIT MACHINE

- Frequency controlled
- Reducer Brand YILMAZ™
- Inverter Brand SIEMENS, OMRON
- Creaming Machine, Cream usage tank and pump, Biscuit stacking machine, Electrical equipment.
- Manuel feeding and Vibrating

CAPACITY	1000 PCS /MIN - 2 ROW
BISCUIT DIMENSIONS	ROW \varnothing 38 – 60 MM
RECTANGLE DIMENSION	38 - 60 MM
RECTANGLE DIMENSION	25 – 60MM
POWER	14 KW

FEEDING SYSTEMS

FEEDING CONVEYORS

TEKNOBIS conveyor systems are servo motional, low pressurized air in-line systems for the cakes, biscuits and bar coated chocolates. These modular designed conveyors guarantee product control and low pressured accumulation.

- Designed for easy cleaning and exchange the belts
- The belts are acceptable for food production (polyurethane PU white)
- Conveyor motion system with the cleaning knife, belt adjusting photocells, belt tension arms and drum of the motion.
- Reduces the different type spare parts
- All belts have DERLIN scrapers separately that are adjustable mechanically
- Easily cleaning systems
- All covers, belts and drums or rolls can be demounted easily.



IN-LINE TYPE FEEDING

TEKNOBIS in-line feeding systems have been designed for chocolate, cakes, wafers, biscuits distribution automatically in a modular way. Product types: Chocolate tablets, layer cake, wafer, biscuit, coated or uncoated chocolate bars etc. Standard Conveyor width: 800 mms, 1400 mms Group ordering units



- Easy and fast cleaning or maintenance
- Acceptable belt type for food production PU white
- Full automation of belt adjustment and belt tension
- One type of drums to reduce the spare parts
- All parts for food contact are AISI 304 stainless steel.





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