

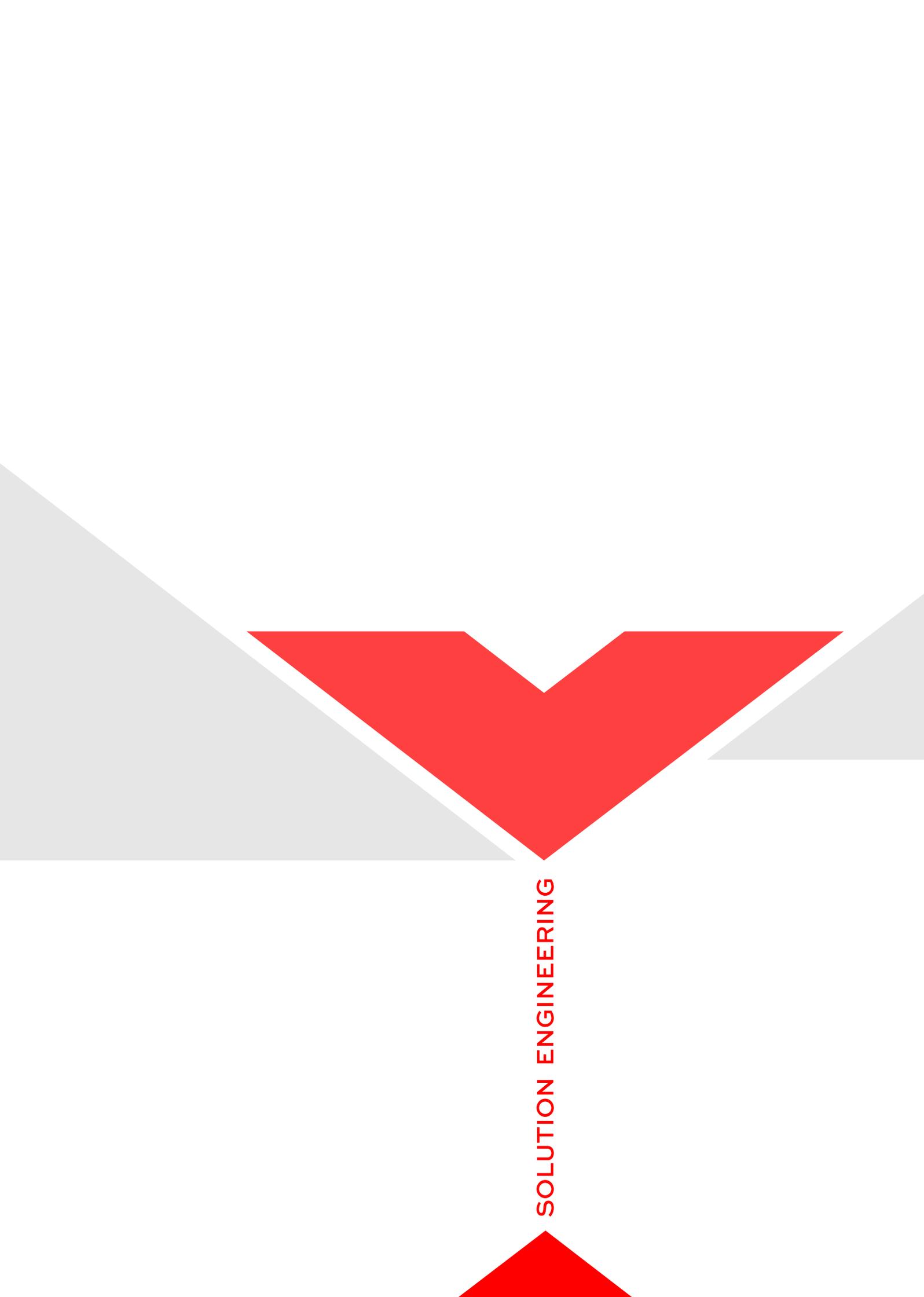


## END OF LINE SYSTEMS

- Valve Bag Filling Units
- Palletizing
- Stretch Hooder



**END OF LINE**  
**SOLUTIONS**

The image features a minimalist, abstract geometric design. A large, bright red chevron shape points downwards from the top center. This red shape is flanked by two grey triangular shapes that also point downwards, creating a sense of depth and shadow. Below the red chevron, the text "SOLUTION ENGINEERING" is written in a bold, red, sans-serif font, oriented vertically. At the very bottom of the frame, a small red triangle points upwards, mirroring the top element and completing a vertical axis of symmetry.

**SOLUTION ENGINEERING**

# ABOUT US

## VARLIK MAKİNA

VARLIK MAKİNA is regarded as a leading producer of machines used in mining, chemistry and construction chemicals sectors in Turkey since 1976 and is always preferred by the sector thanks to its successful application.

Varlık Makina, which performs all kinds of facility contracting businesses on a turn-key basis by manufacturing and mounting the entire machinery and electrical equipment, has always aimed to advance forward by improving its technical vision with every new application and its experience rooted from years of work.

Thanks to this approach, VARLIK MAKİNA is currently one of the leading companies on the world, manufacturing all equipment including electricity and automation included in this kind of facility contracting systems in its own structure.

Within this context, our company performs all kinds of manufacturing processes from individual equipment production to fully automated integrated facilities on a turn-key basis at its factories established on a closed area of 10.000 m<sup>2</sup> and with its experienced 150 employees and 20 engineers according to the needs of its customers.



# IMPELLER TYPE VALVE BAG FILLING MACHINE INLINE PACKING



Offers the most suitable solution for packaging fine and ground products with medium and high densities and fluidity.

The product in the machine reservoir is filled in to bag with 4 blade turbine driving and air support.

Models with single, dual, triple and quad filling spouts are available according to capacity requirements.

Machine filling speed varies according to the density and fluidity of the product.

#### Suitable for:

Cement, cement sand, chemical mixtures, joint filler, gypsum, plaster, barite, miscellaneous chemicals

Thanks to electronic weighing system and double speed filling [coarse and fine feature, that ensures constant and high accuracy filling rates. Depends on capacity request 1-2-3-4 spouts linear type models are available.

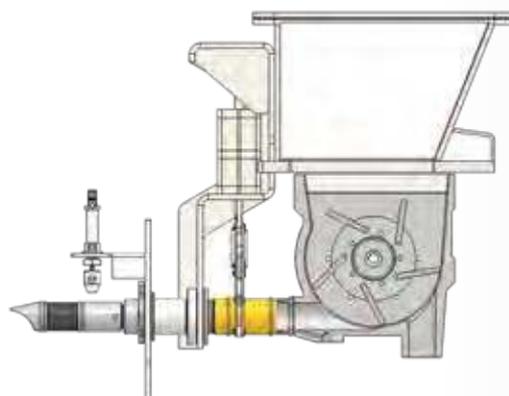


## Standard Specification

- Automatic weighing unit with double speed filling and load-cell
- Easy change Hardox type impeller blade
- Heavy duty machine base
- Pneumatic control system
- Filter connection manifold (demand : ready for 1000m<sup>3</sup>/hour)
- Adjustable bag height
- Automatic cleaning system for filling nozzle.

## Options

- Main product hopper and level sensor
- Bag evacuation conveyor
- Ink-Jet printing unit
- Bag cleaning unit
- Bag pressing conveyor
- Jet-Pulse dust filter system
- Vertical bag dropping
- Ultrasonic Sealing



# AIR TYPE VALVE BAG FILLING MACHINE INLINE PACKING



Offers the most suitable solution for packaging granules, powder, fine powder, and grout products with medium and high densities.

The upper valve of the filling chamber is closed once the product is filled up to the level sensor in filling chamber. Then, the product in the filling chamber is fluidized with air and filled into bags with the help of low pressure air supplied from the top.

Models with single, dual, triple and quad filling spouts are available according to capacity requirements.

Performs precision weighing with electronic, load-cell weighing units, and fast-slow filling systems. The air type bag packaging machine operates according to gross weighing principle and performs weighing during the filling process.

## VALVE BAG

(kraft, PE, PP, v.s.)  
Bag Type

## 150-1200

Bags/Hour  
Capacity

## 10-50 KG

Filling  
Weight



## Standard Specification

- The blower is included the machine configuration
- Pneumatic controlled butterfly valve for product flow control
- Automatic weighing unit with double speed and load-cell
- Heavy duty machine base
- Pneumatic control system
- Filter connection manifold ( demand: ready for 1000m/hour )
- Adjustable bag height
- Automatic cleaning system for filling nozzle

## OPTIONS

- All contacting surface material can be AISI 316 stainless steel.
- Main product hopper and level sensor
- Special mixing system in filling chamber for easy flow
- Bag evacuation conveyor
- Ink-Jet printing unit
- Bag cleaning unit
- Bag pressing conveyor
- Jet-Pulse dust filter system
- Ultrasonic Sealing

# AUTOMATIC BAG PLACER INLINE PACKING



Automatic Bag Placer Machines are used to place Kraft, PP and PE bags with valves at the filling spout of packaging machines.

Automatically takes empty bags placed in the magazine holder as bundles, opens the valve mouth, and installs it on the spout of the filling machine.

Offers a reliable and efficient operation with PLC control, operator panel, encoder, and perfect opening placing method.

Available in varieties of single, dual, triple and quad axis compatible with one to four spouts filling machines;

## Application Fields

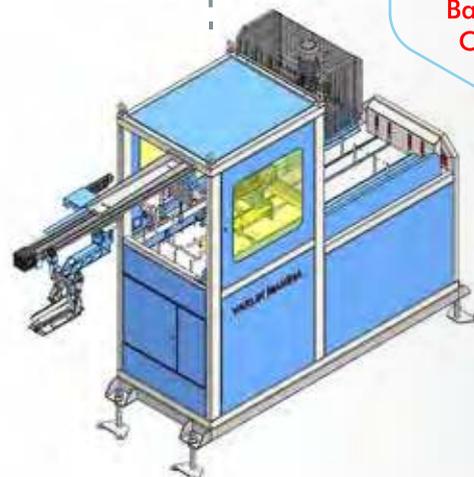
- Bag placer is preferred commonly in all fields which are necessary to place the valve bag automaticly to the filling machine spout

## Features

- Bag placer can place the valve bag up to 4 spouts according to capacity requirements.
- It can take the empty valve bag from empty bag magazine conveyor and place the bag to appropriate spout
- All the settings can be adjusted from the operator panel and taken production report easily
- Because of the bag placer is located nearby the filling machines , it is easy to clean and maintain from front side

1-2-3-4  
Possible Bag  
Placing Spout

360-1440  
Bags/Hour  
Capacity



# ROTARY FILLING MACHINE ROTO PACKING



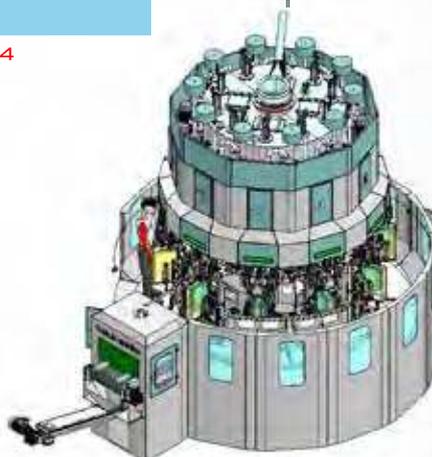
Rotary filling machine produced by VARLIK MAKINA are available in 4-6-8-10 spouts options. They are available in two types; air type is recommended for fine / lighter materials. Impeller type is recommended for regular products (such as cement, sand, binder).

These machines are suitable for filling valve bags. Product feeding is carried out with a rotary valve or screw conveyors. Electronic weighing is performed via coarse and fine feeding.

The device checks the previous bag and slows or accelerates the filling speed accordingly. The empty bag is placed in the first station automatically or manually by the operator. Fast or slow filling is carried out through 360° rotations. Upon arriving at the bag release station, the bag is left on the belt and the filling procedure is completed.

## Options

- All contacting surface product can produce AISI 304 stainless steel for food stuff.
- Main product bunker and level sensor
- Bag evacuation conveyor
- Bag cleaning unit
- Bag presser
- Bag Dropping
- Ultrasonic Sealing
- Jet-Pulse dust filters system



4-6-8-10  
Type Options

IMPELLER  
OR  
AIR TYPE

MIN 800 - MAX 3000  
Bag / Hour

# AUTOMATIC BAG PLACER ROTO PACKING



Varlık Makina is an expert on bag placer machines with the improvements over the years and wide experience in the world.

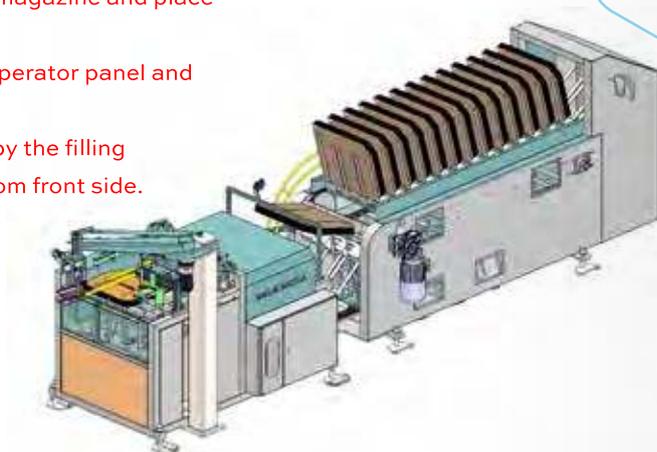
We are proud of producing special solutions besides standard bag placer machines, depending on speed, product, place, etc. of your needs.

## Application Fields

- Bag placer is preferred commonly in all fields which are necessary to place the valve bag automatically to the filling machine spout

## Features

- Bag placer can place the valve bag up to 10 spouts according to capacity.
- It takes the empty valve bag from feeding magazine and place the bag to the spout with moveable arm.
- All the settings can be adjusted from the operator panel and production report easily taken.
- Because of the bag placer is located nearby the filling machines, it is easy to clean and maintain from front side.



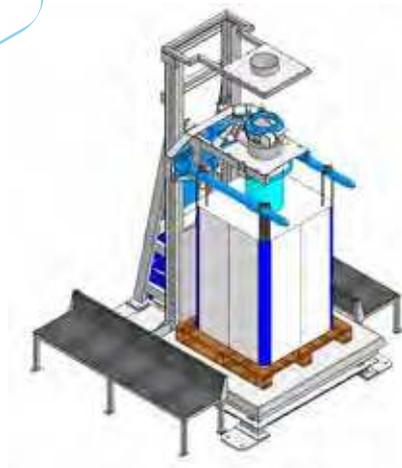
# BIG BAG FILLING MACHINE GROSS PACKING



With the systems it has developed for big-bag filling machines over many years and the extensive experience it has gained throughout this process, Varlık Makina is a specialist company. We are proud to produce special solutions according to your product variety/speed/location requirements, in addition to standard big-bag machines.

#### Filling Types :

- Net weighing filling machine
- Gross weighing filling machine
- Volumetric filling machine



## Standard Specification

- User interface via HMI panel
- Automation Cabinet with Siemens S7-200 PLC
- Product feeding unit depending on the product
- Easy hanging height adjustments by operator panel via encoder for the different big bag sizes
- Empty bag blow -up by blower fan for better packing form and effective filling operation
- Automatic operation with one touch start after big-bag placing
- Automatic big bag - loops releasers after filling
- Heavy duty support platform

## OPTIONS

- Automatic bigbag height selection
- Automatic pallet feeding unit
- Automatic big bag exit from filling point by exit conveyor (roller or belt)
- Automatic big bag accumulation by roller or belt conveyor for 2 pcs filled big - bags , and automatic traffic control
- Product feeding solutions ( bucket conveyor , vibratory feeder, belt conveyor , screw feeder or pneumatic transport )
- Bag / product vibrating unit for de - aerating to minimize the big bag size and to produce stand - up bag
- Stainless steel option for the contact materials with product
- Dust - free tirling by jet pulse filtration

# PALLETIZING ROBOT PALLETIZING

400-1000  
BAGS/HOUR

220 CM  
FULL PALLET HEIGHT



VARLIK MAKINA is designing fully automatic robot palletizing systems for all kinds of products with KUKA and ABB, the largest robot manufacturers in the world, for whom it has been working as a system integrator for many years.

Palletizer robots with special attachments designed by VARLIK MAKINA can be custom-designed for your plant by our technical team according to the product type, production line, and process.

Low cost, occupying less space in the plant, and also easy to adapt to varies sectors.

Offering complete line solutions VARLIK MAKINA offers complete packaging solutions to robotic palletizer lines with integrated press machines and stretch hoods.

# HIGH LEVEL PALLETIZING PALLETIZING

600-2500  
BAGS/HOUR

220 CM  
FULL PALLET HEIGHT



Palletizing helps you to improve your sales offering efficiency (speed, storage area, workmanship) both for you and your customer from production to the point of sale, strengthening the distribution stage of your marketing.

VARLIK MAKINA not only carries out palletizing but makes your product stronger. The bag removed from the filling unit is shaped into a proper prismatic in the palletizing machine. These proper bags are arranged in a systematized order and pallets in the form of columns are obtained. It is not possible to achieve this appearance continuously through manual labor. This orderliness in bags and pallets expresses your meticulousness and the seriousness of your production and increases confidence in your product making it stronger. Using VARLIK MAKINA Palletizing Machines at the output of your bag filling systems will ensure your total production efficiency improve, making palletizing an essential part of your operation.

VARLIK MAKINA Palletizing Machines consequently improves the efficiency of your filling machine.

# STRETCH HOODER

## STRETCHING



### Dust and Water Tightness

Dust and humidity are among the most important factors that are detrimental to your products and decrease their quality and value. A stretch hood is a proven method for preserving your products against dust, humidity, and other environmental factors.

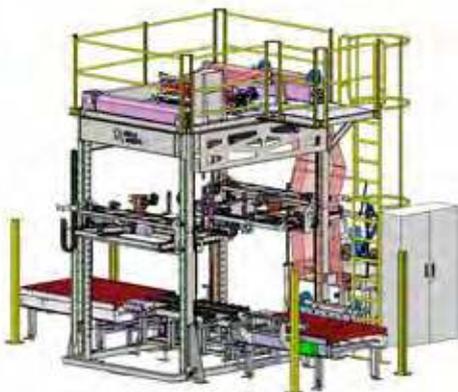
### Environmentally-Friendly

Less consumption when compared to conventional stretch wrapping methods in terms of the required material quantity and energy consumption. Stretch hood films can be easily removed after use. The material is completely recyclable.

Stretch hooding is therefore an environmentally-friendly method in stretch wrapping of packaging.

### Bottom Pallet Stretching

By stretch the wrapping down to the bottom, packages and pallets are fixed together securely. Elastic film shrinks around the load and under the pallet. Thus, the goods grip each other tightly and risks during handling are minimized.



# END OF LINE ACCESSORIES

VARLIK MAKİNA



**METAL DETECTOR**

**INKJET PRINTER**



**CHECKWEIGHER**

**PALLET PRESSING**



**PE SHEET APPLICATOR FOR EMPTY PALLET**

# REFERENCES

VARLIK MAKİNA



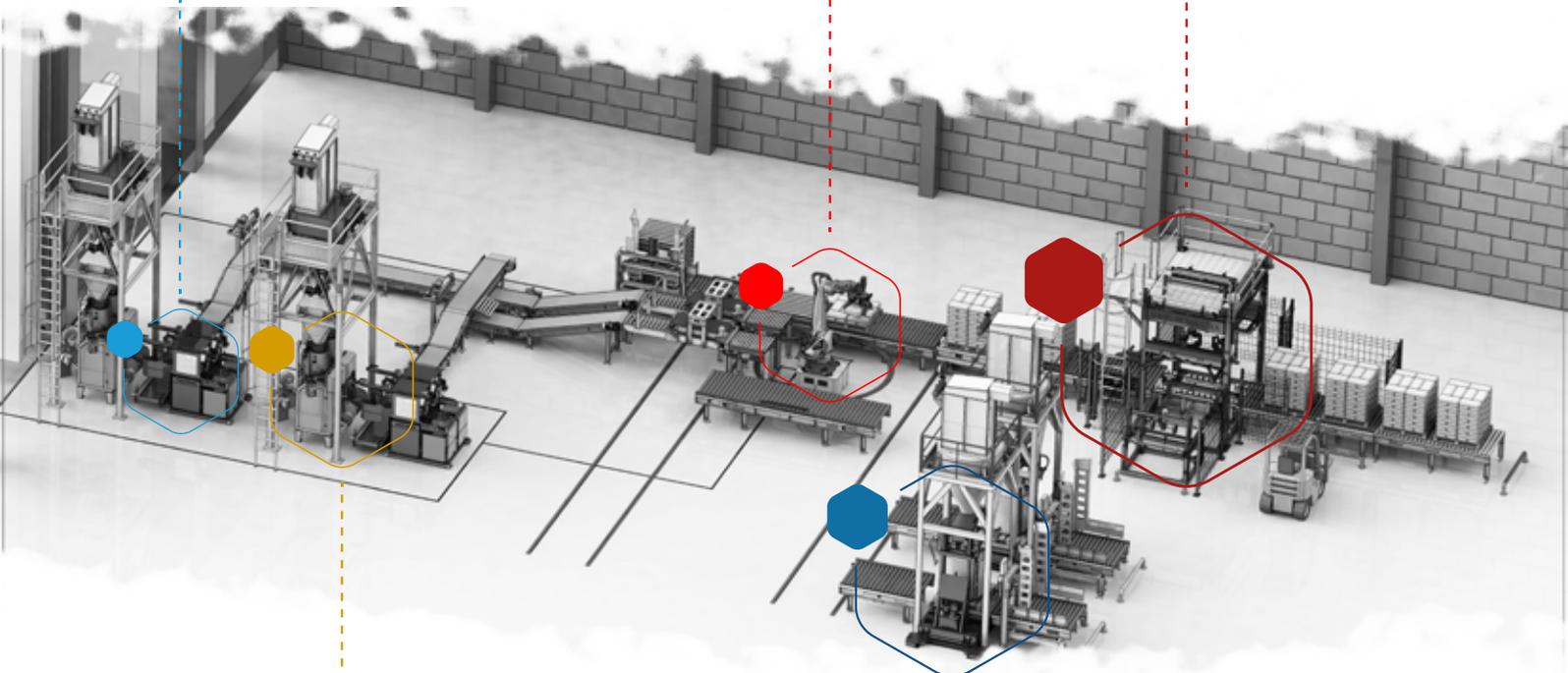
**AUTOMATIC BAG PLACER  
PACKING**



**STRETCH HOODER  
STRETCHING**



**PALLETIZING ROBOT  
PALLETIZING**



**IMPELLER TYPE VALVE BAG FILLING MACHINE  
PACKING**



**BIG BAG FILLING MACHINE  
PACKING**



+90 212 798 26 25 ( 4 line )  
+90 212 798 26 29 ( fax )



[www.varlikmakina.com.tr](http://www.varlikmakina.com.tr)



Ömerli Mah. Seciye Sok. No:2 - Hadımköy / Arnavutköy  
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