

**General  
Machinery  
Catalog  
2021**



## ABOUT US



TDM MAKINE in 2013, Electronic Engineer It was founded by Tahsin DEMİRCİ. In a short time, it specializes in machine production, especially in packaging, weighing, filling systems and special machinery manufacturing, and is doing important work in the sector.

Today, it operates in its production facility in İzmir Çiğli.

TDM MAKINE is a company that always invests in its business, closely follows and applies today's technologies, and is constantly growing with its expert technical staff.

TDM MAKINE exports to Europe, America, African countries and Turkish Republics with its registered trademark.

# OVERSEAS REPRESENTATION AND EXPORT POINTS



## General Features

- Static powder coated body structure
- All surfaces in contact with the product are made of 304 quality stainless steel
- Horizontal and Vertical jaws are teflon coated, so there is no sticking to the chin.
- Easy bobbin change with pneumatic shaft and ruler bobbin mechanism
- Length measurement with photocell or encoder
- PID temperature control system
- Auto stop and catch the end of the film when the film is over
- Electromotive film right-left adjustment, screen shift feature
- Pneumatic pulling belt type film drawing system
- Film tension control with sensor
- User friendly 7 inch Color Turkish Touchscreen Operator Panel
- PLC controlled automation panel
- Max. Film width 650 mm
- Production Reporting, package counter
- Working speed 60 packs / min
- Ability to work with any filling unit
- Horizontal, vertical and blade movements pneumatic
- Film maker and film unwinding motor system
- Automatic error detection and automatic stop on error
- 1 year manufacturer's warranty
- Domestic and national production
- Optional bellows system
- Optional thermal transfer printer
- Optional Quadro package system

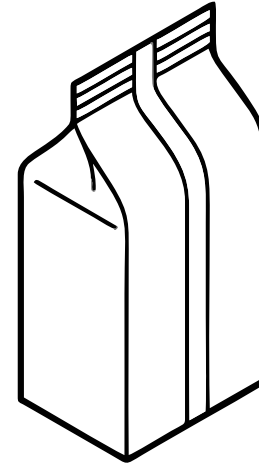




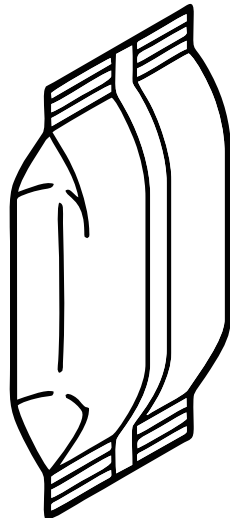
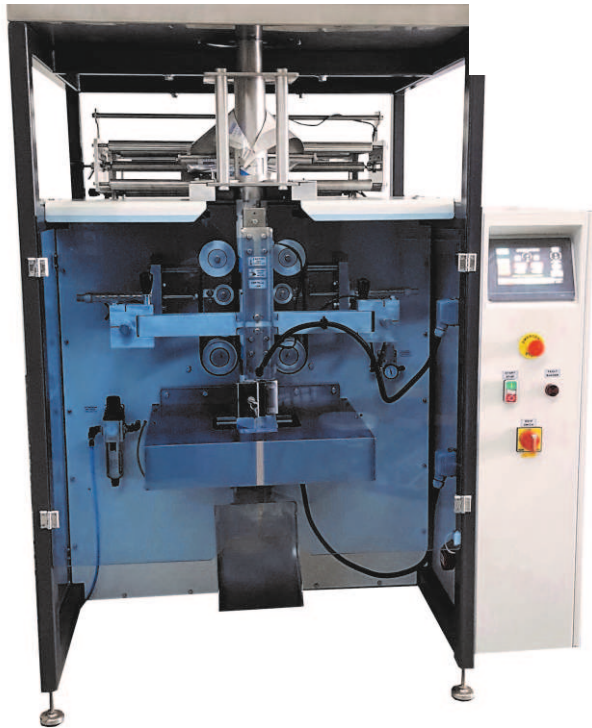
# PACK SERIES

# Vertical Packaging Machine

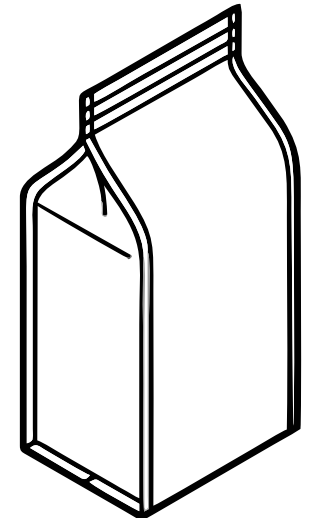
**Packaging  
Capacity  
60 packs / min**



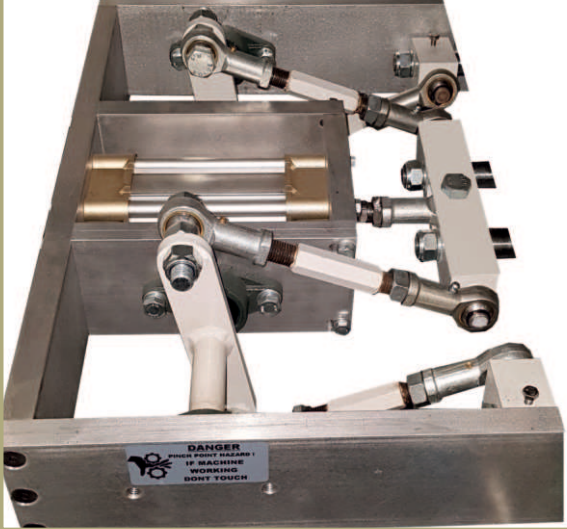
**BELTED PILLOW TYPE**



**PILLOW TYPE**



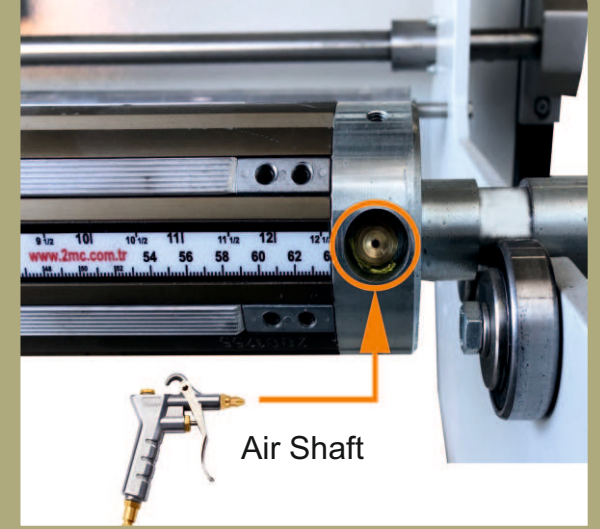
**QUADRO TYPE**



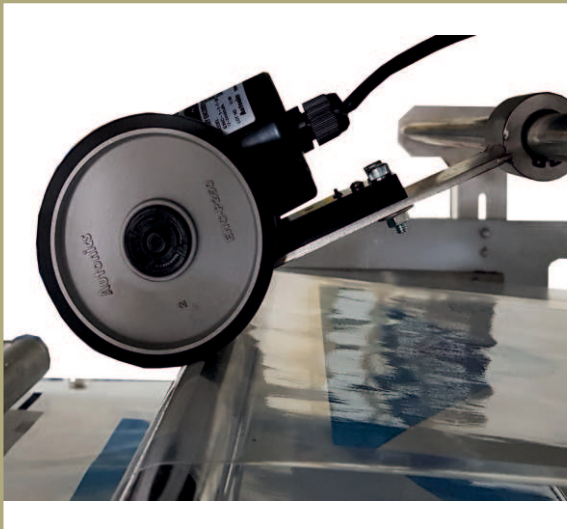
Rigid Horizontal Jaw Mechanism



Electromotive Coil Stand  
Right-Left Adjustment



Pneumatic and Ruler Coil Shaft



Precise Length Measurement  
with Encoder Sensor



Detects Foil Out and  
Stops Machine



Pneumatic Docking Belt  
Filming System





ELECTROMOTORIZED COIL  
STAND SLIDING SYSTEM

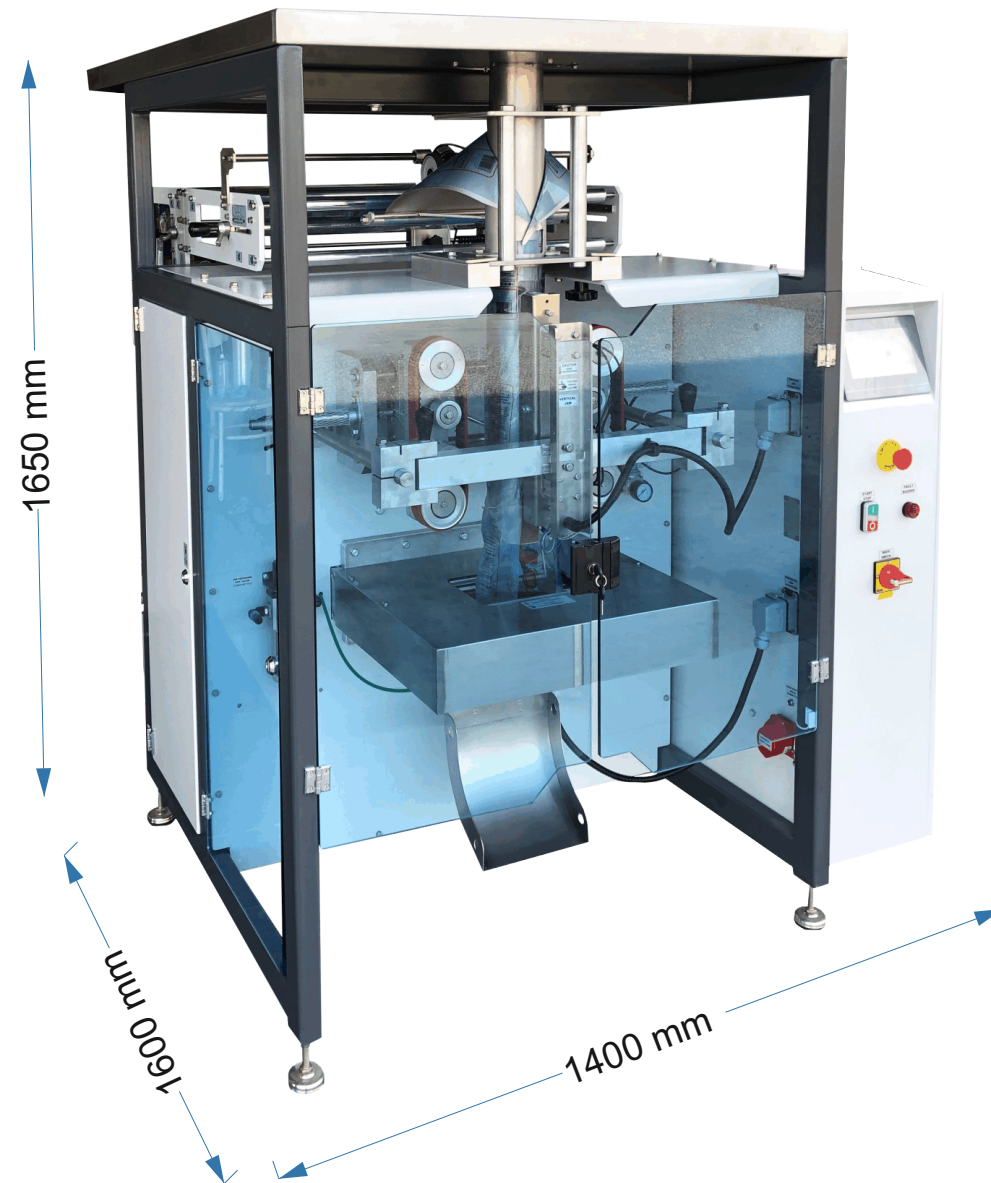
FOIL ADDING STATION

FOIL DISSOLVING MOTOR

AIR COIL SHAFT SYSTEM







650 kg



Machine Total Weight



**WHAT IS VOLUMETRIC?:** It is a volumetric weighing system. There are 5 rotating containers, their volume can be adjusted.

**Usage Areas:** Nuts, Legumes, Salt, Granulated Sugar and food and non-food products with small granules.





**TDM-LT1-M1  
SCALE MODEL**



**TDM-LT2-M2  
SCALE MODEL**



# PACK SERIES

# Semi-Automatic Packaging Machine With One Scale



For  
Granule  
and  
Powder  
Products





# PACK SERIES

## Semi-Automatic Packaging Machine With One Scale



### Filling Nozzles



## Technical Specifications

Body Structure	304 Quality Stainless Steel
Machine Color	Original Chrome Color
Machine Weight	65 kg
Machine Dimensions	600 x 600 x 500 mm
Operating Voltage	220VAC-50hz. / 110VAC-60 Hz
Total Electric Power	0,6 kw
Compressed Air Req.	4 Bar - 58 PSI (for Bonding Machine)
Electrical Materials	Schneider Brand
Electronic Control Sys.	PLC Control
Operator Panel	4.3 inch Color Touchscreen Turkish Panel
Program Memory	10 units
Weighing Method	Electronic Weighing with Loadcell
Weighing System	3-stage Linear Weighing
Max. Weighing Capacity	LT1-M(2000 gr) LT1-L(5000gr) LT1-XL(10000gr)
Weighing Precision	1 gr
Weighing Speed	7-15 packs / minute (may vary according to product and weight)
Weighing Module	High Speed Digital Weighing Module
Cleaning Time	10 min.

Certificate	CE Certified
Weighing Range	40-2000 gr
Calibration	Calibration is done on the screen
Tare	All Models have Automatic Tare System
Weight Measurement Unit	Gram, Oz, Kg, LBS
Production Reporting	Total number of production
Pan Structure	All Models Practical Dismountable
Pan Volume	3 Liter
Pan Opening System	Pneumatic system or optional step motor
Unload Command	Foot Pedal, Release button, discharge contact
Product Bunker Volume	40 Liter
Filling Accuracy	1-2 gr
Compatible Products	Nuts, Legumes, Spices, Herbal teas, Pet foods, Chemical powder, Agricultural fertilizers and medicines, flakes, bolts, nuts and other granular and powder products.
Compatible Packaging	Pillow, Quadro, Envelope, Bellows, Doypack type packaging, plastic and glass containers, jars
Optional Additions	LT1-P Powder product apparatus, Dust sifting system
Required Staff	1 Person

# PACK SERIES

# Semi-Automatic Packaging Machine With One Scale



## Easy to Clean Surface

There is no dead zone in the machine that you cannot reach for cleaning, so cleaning is easy and does not take time.

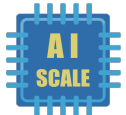


## Modular Design

Parts are easy to disassemble and clean.



It does not need a compressor just as a Filling Machine.



Artificial Intelligence Weighing Software



## Step Motor Pan Opening System

It provides the ability to open and close the weighing pan at your desired speed.



No assembly required, ready to use.



## Small Space Required

Max.1 m<sup>2</sup> Saves space

# A+

Low Electricity Consumption.



## Optional Package Bonding

It closes the filled packages.

You can both fill and stick with a single operator.



It is completely 304 Quality Stainless Steel.

S	M
L	XL

## 4 Different Volume Machine Options

3 Liter / 5.5 Liter / 12.5 Liter / 20 Liter  
Choose whatever suits your business.



European Certificate of Conformity



## Compliance with Food Safety Rules

BRC, HACCP, IFS, ISO 22000



Optional Neodymium Magnetic Separator



## Optional Dust Separation System

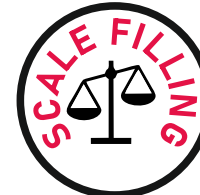
It separates the dusts in the product by sieving it with its special screening system.



## Optional Elevator

It carries automatic product to the machine.  
It works and stops automatically with the level sensor.

For  
Granule  
and  
Powder  
Products





# PACK SERIES

## Semi-Automatic Packaging Machine with Two Scales



### Easy to Clean Surface

There is no dead zone in the machine that you cannot reach for cleaning, so cleaning is easy and does not take time.

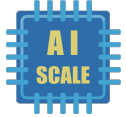


### Modular Design

Parts are easy to disassemble and clean.



It does not need a compressor just as a Filling Machine.



Artificial Intelligence Weighing Software

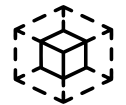


### Step Motor Pan Opening System

It provides the ability to open and close the weighing pan at your desired speed.



No assembly required, ready to use.



### Small Space Required

Max.1 m<sup>2</sup> Saves space

# A+

Low Electricity Consumption.



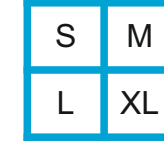
### Optional Package Bonding

It closes the filled packages.

You can both fill and stick with a single operator.



It is completely 304 Quality Stainless Steel.



### 4 Different Volume Machine Options

3 Liter / 5.5 Liter / 12.5 Liter / 20 Liter  
Choose whatever suits your business.



European Certificate of Conformity



### Compliance with Food Safety Rules

BRC, HACCP, IFS, ISO 22000



Optional Neodymium Magnetic Separator



### Optional Dust Separation System

It separates the dusts in the product by sieving it with its special screening system.



### Optional Elevator

It carries automatic product to the machine.  
It works and stops automatically with the level sensor.



### Powder Filling Unit



Double motor top bunker with anti-clumping and anti-clogging.

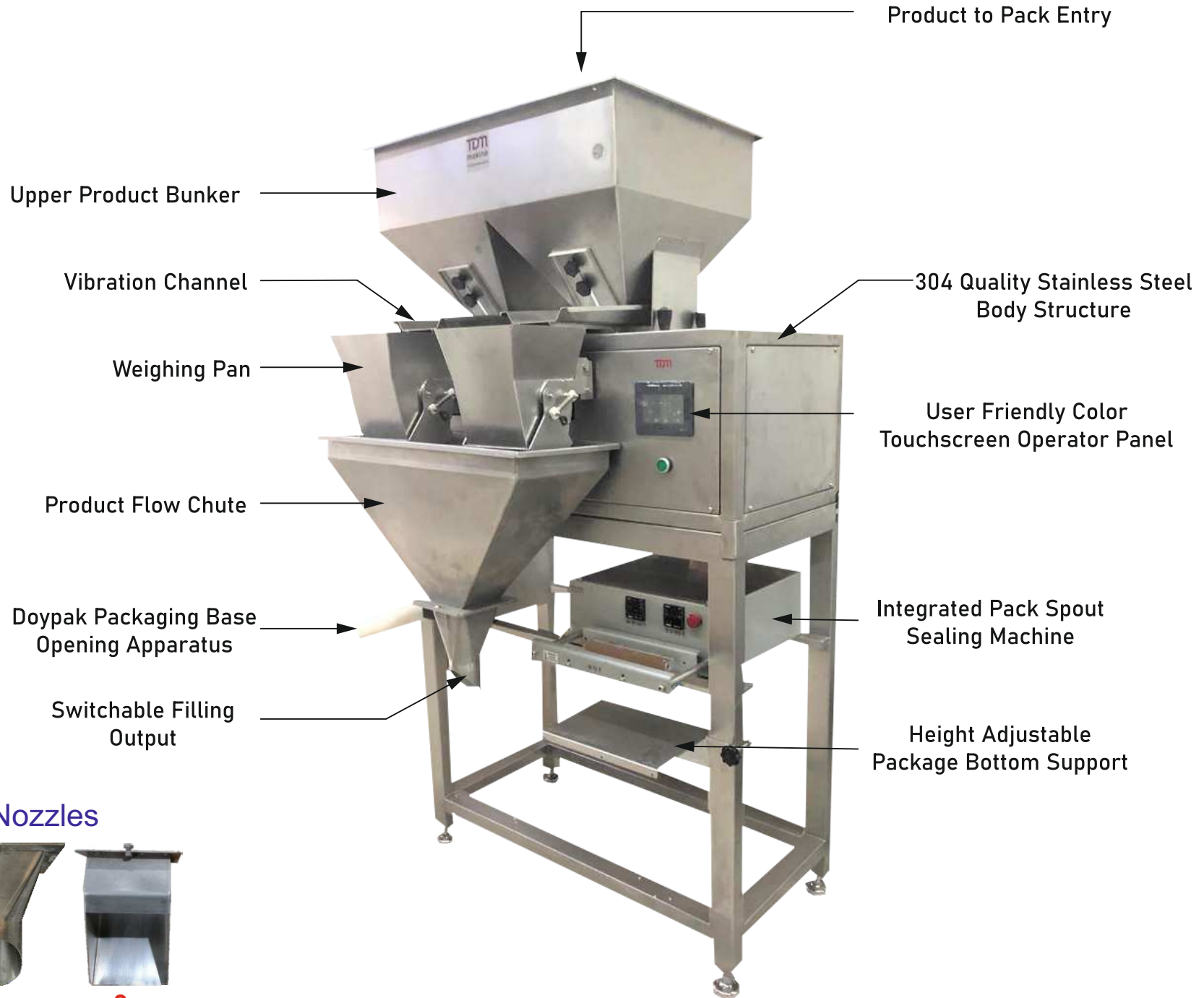
- Bunker level sensor
- Top Bunker, cable connections are practical socket, can be easily removed and installed.
- The top cover can be easily removed and cleaned.
- Complete Stainless Steel 304 Quality.





# PACK SERIES

## Semi-Automatic Packaging Machine with Two Scales



### Filling Nozzles



1

2

3

### Technical Specifications

Body Structure	304 Quality Stainless Steel
Machine Color	Original Chrome Color
Machine Weight	65 kg
Machine Dimensions	600 x 600 x 500 mm
Operating Voltage	220VAC-50hz. / 110VAC-60 Hz
Total Electric Power	1,2 kw
Compressed Air Req.	4 Bar - 58 PSI (for Bonding Machine)
Electrical Materials	Scneider Brand
Electronic Control Sys.	PLC Control
Operator Panel	4.3 inch Color Touchscreen Turkish Panel
Program Memory	10 units
Weighing Method	Electronic Weighing with Loadcell
Weighing System	3-stage Linear Weighing
Max. Weighing Capacity	LT2-M(2000 gr) LT2-L(5000gr) LT2-XL(10000gr)
Weighing Precision	1 gr
Weighing Speed	15-30 packs / minute (may vary according to product and weight)
Weighing Module	High Speed Digital Weighing Module
Cleaning Time	10 min.

Certificate	CE Certified
Weighing Range	40-2000 gr
Calibration	Calibration is done on the screen
Tare	All Models have Automatic Tare System
Weight Measurement Unit	Gram, Oz, Kg, LBS
Production Reporting	Total number of production
Pan Structure	All Models Practical Dismountable
Pan Volume	3 Liter
Pan Opening System	Pneumatic system or optional step motor
Unload Command	Foot Pedal, Release button, discharge contact
Product Bunker Volume	50 Liter
Filling Accuracy	1-2 gr
Compatible Products	Nuts, Legumes, Spices, Herbal teas, Pet foods, Chemical powder, Agricultural fertilizers and medicines, flakes, bolts, nuts and other granular and powder products.
Compatible Packaging	Pillow, Quadro, Envelope, Bellows, Doypack type packaging, plastic and glass containers, jars.
Optional Additions	LT2-P Powder product apparatus, Dust sifting sys.
Required Staff	1 Person





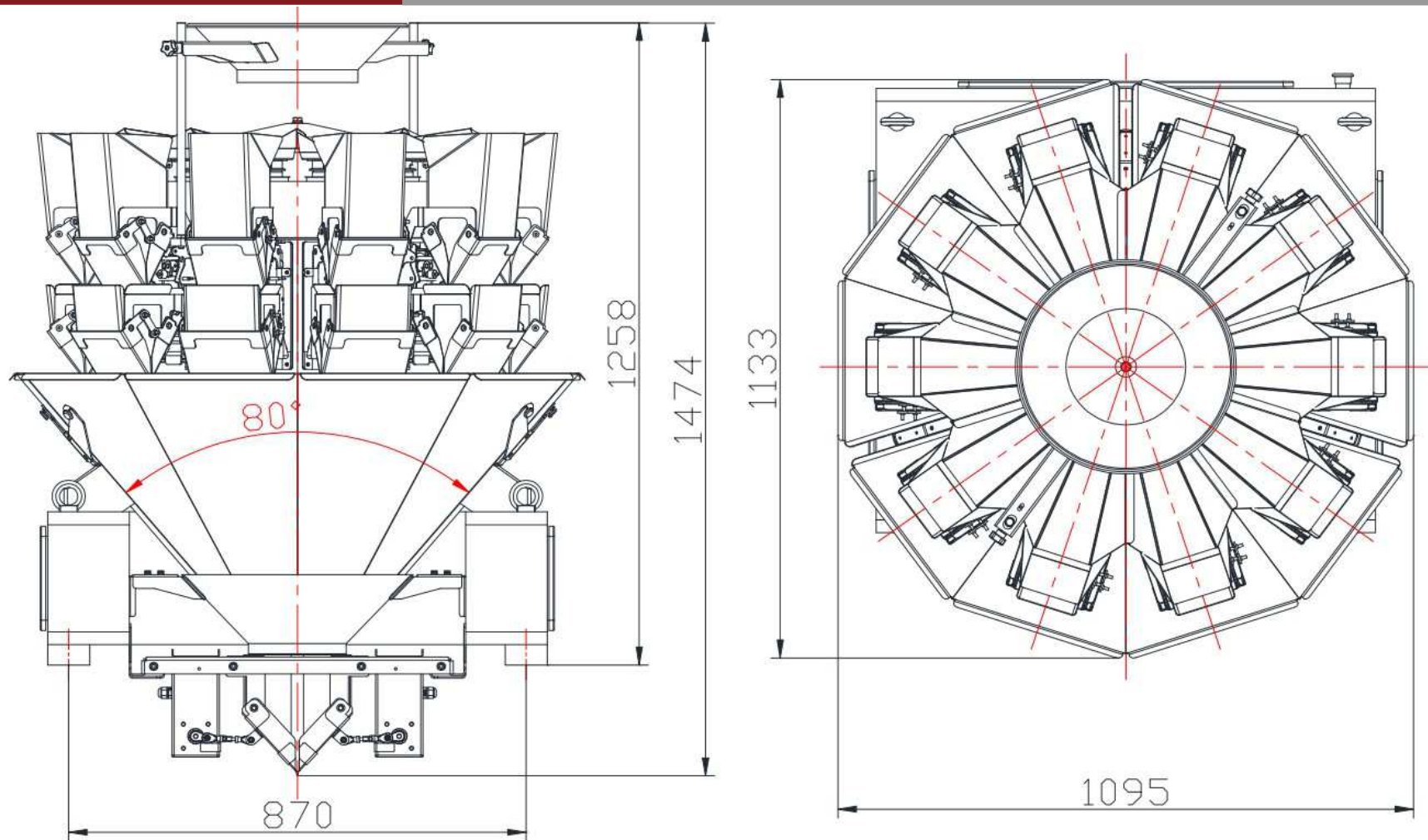
**10 HEAD SCALE**



**14 HEAD SCALE**

# SCALE SERIES

# Multihead Scales



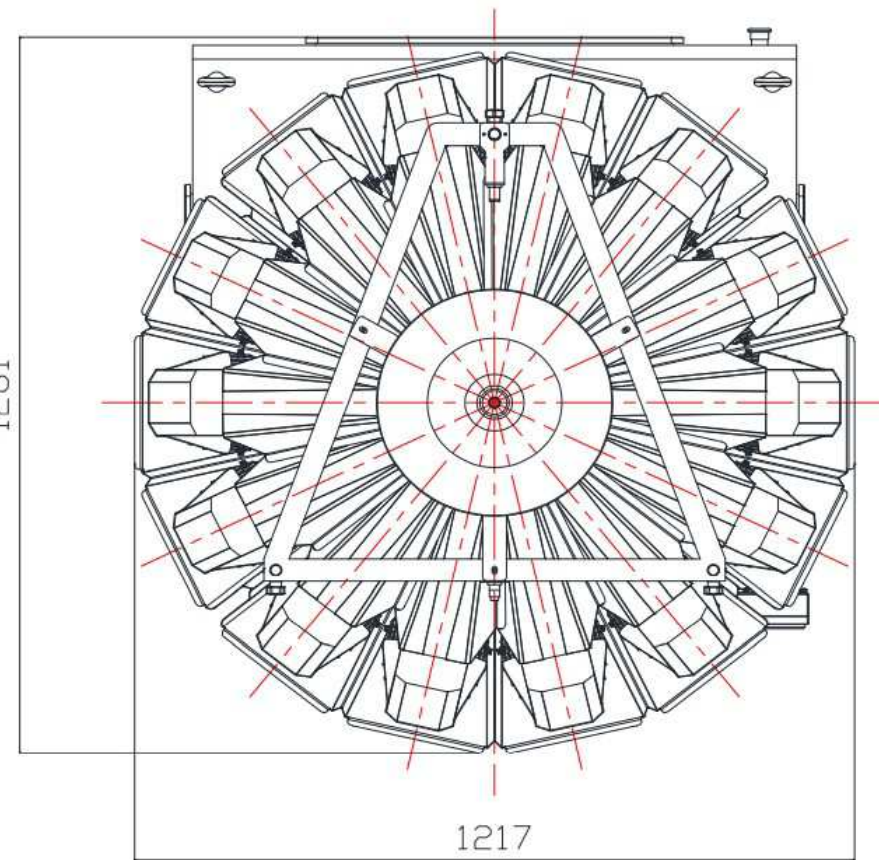
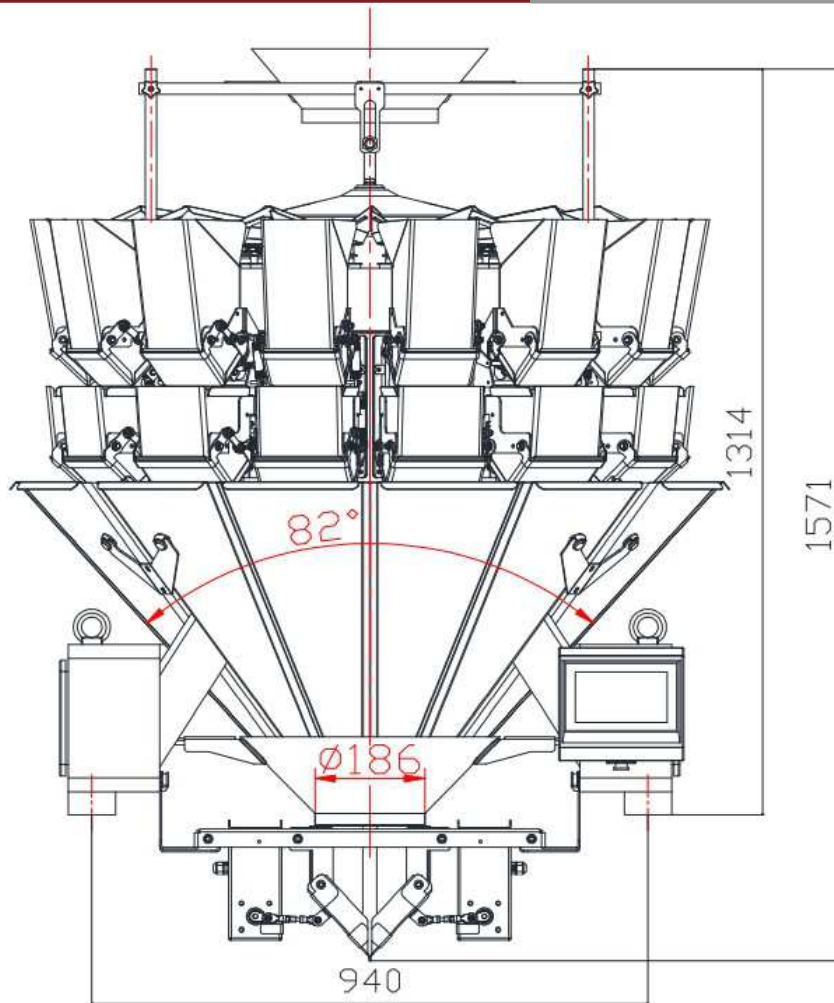
## 10 HEAD SCALE

<b>Voltage</b>	AC220V 50/60Hz.
<b>Rated Current</b>	10A
<b>Power</b>	1,0KW
<b>Heads</b>	10
<b>Drive Way</b>	Step Motor
<b>Single Weighing Range</b>	800g
<b>Weighing Capacity</b>	1.6/2.5L

<b>Max weighing speed</b>	65 bags/min
<b>Option</b>	Dimple Plate/Timing Hopper/Diverter device/ Printer/Rotary Top Cone
<b>Product default parameters</b>	100
<b>Overall dimension length</b>	1133mm
<b>Overall dimension width</b>	1095mm
<b>Overall dimension height</b>	1258mm
<b>The weight</b>	380kg

# SCALE SERIES

# Multihead Scales

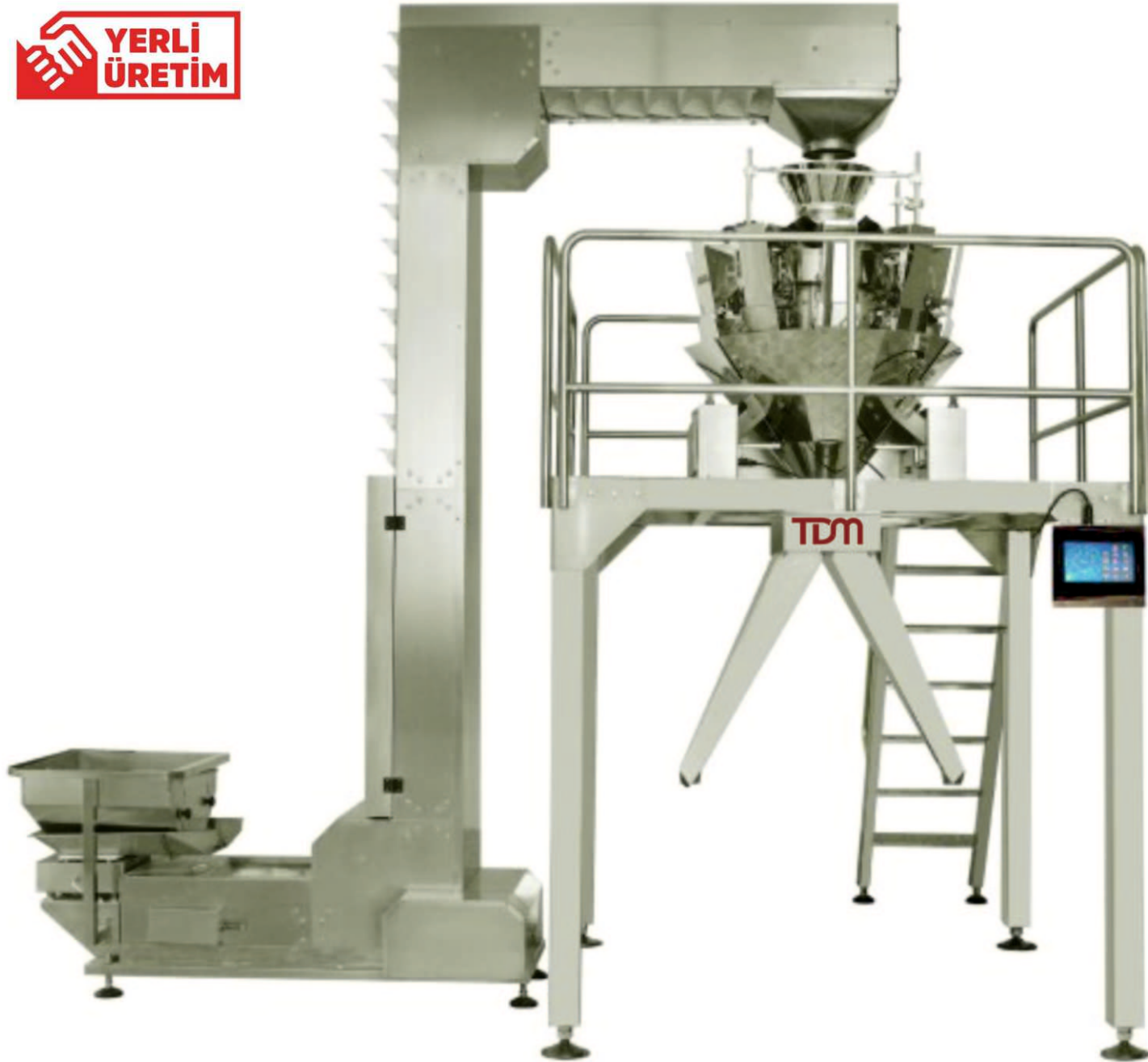


## 14 HEAD SCALE

<b>Voltage</b>	AC220V 50/60Hz.
<b>Rated Current</b>	14A
<b>Power</b>	1,4KW
<b>Heads</b>	14
<b>Drive Way</b>	Step Motor
<b>Single Weighing Range</b>	2500g
<b>Weighing Capacity</b>	1.6/2.5/5.0/7.5L

<b>Max weighing speed</b>	50 bags/min
<b>Option</b>	Dimple Plate/Timing Hopper/Divterter device/ Printer/Rotary Top Cone
<b>Product default parameters</b>	100
<b>Overall dimension length</b>	1261mm
<b>Overall dimension width</b>	1217mm
<b>Overall dimension height</b>	1314mm
<b>The weight</b>	500kg





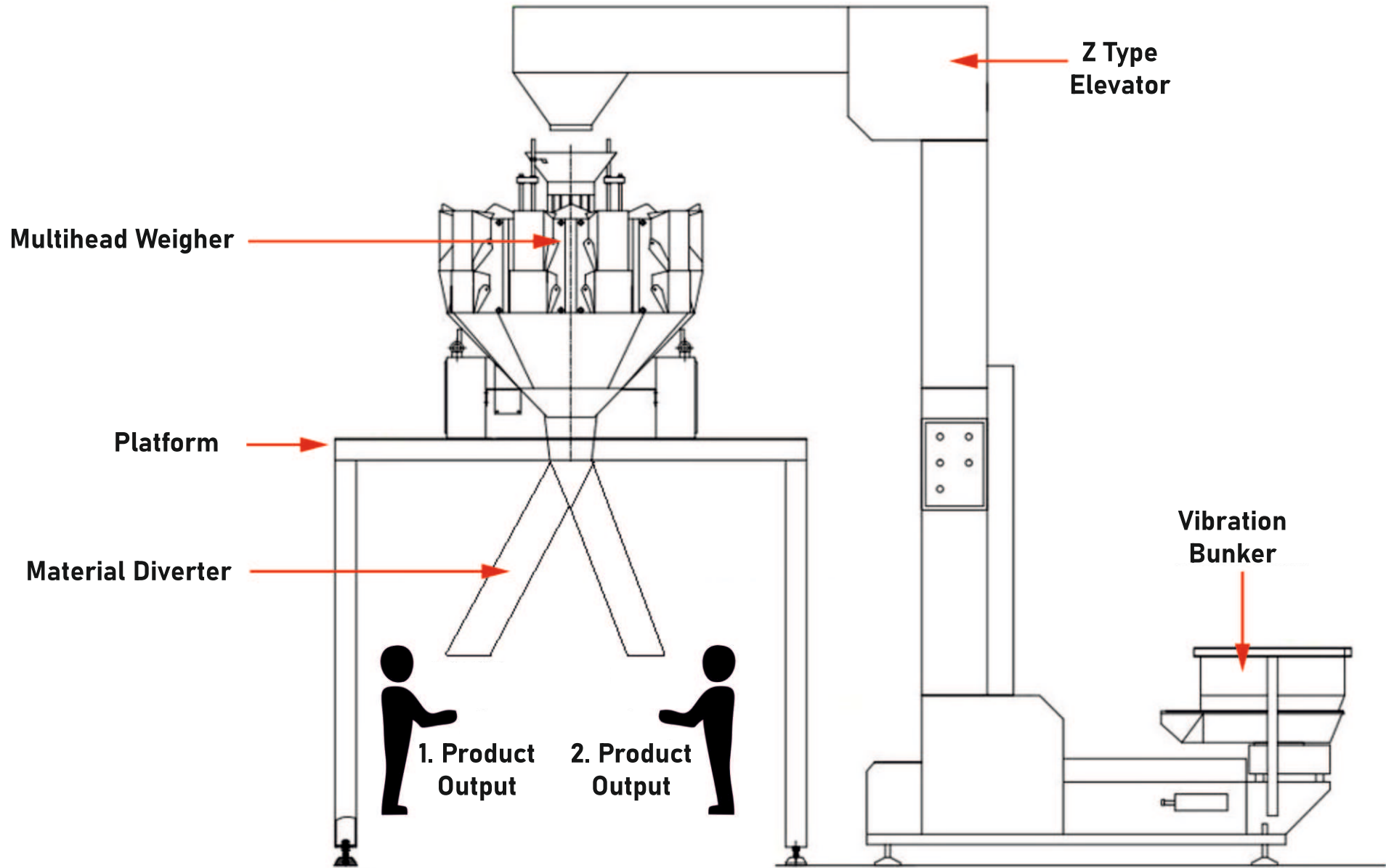
**FILLING  
CAPACITY  
40 packs / min**

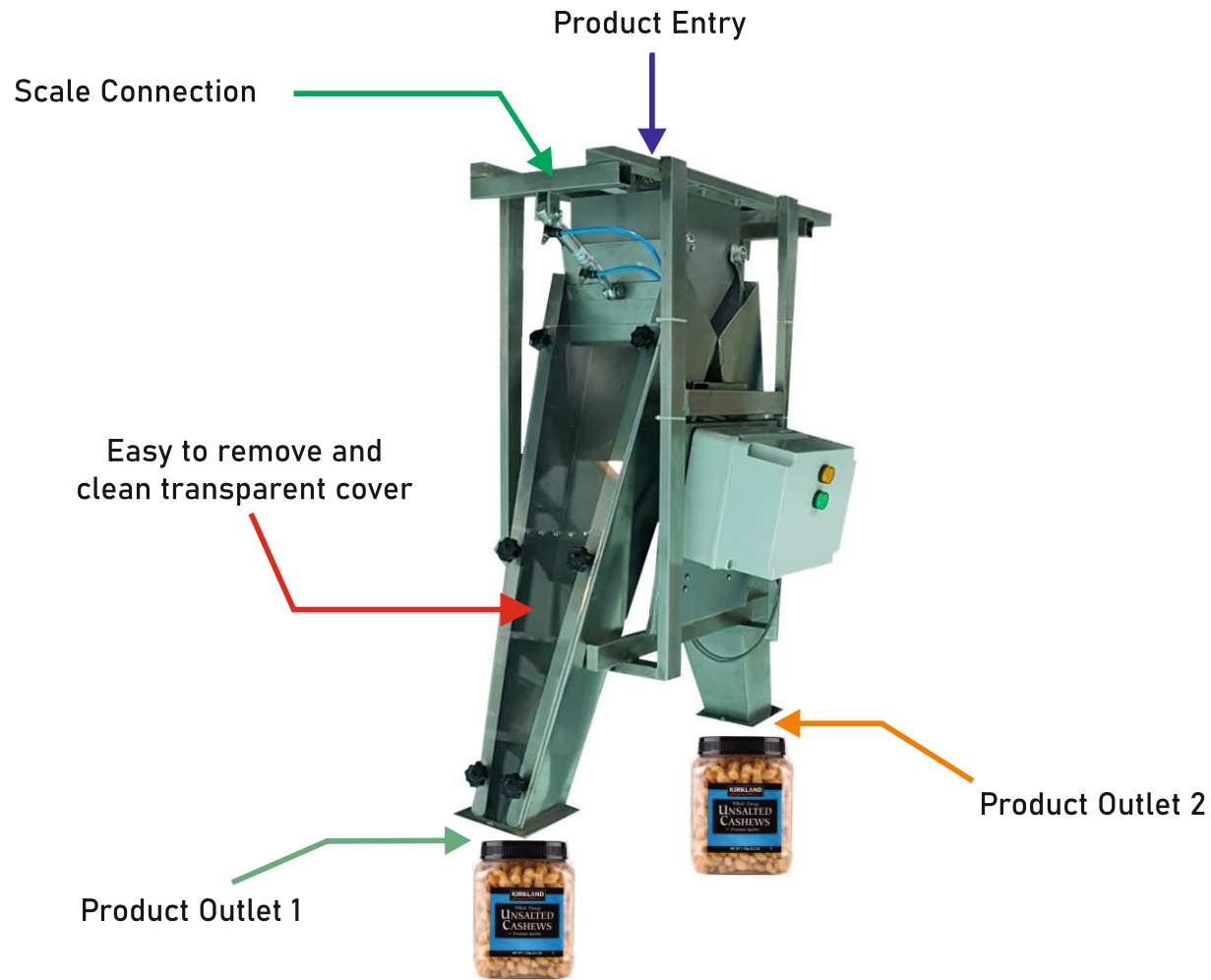
### Usage Areas

Especially Dried fruits, nuts, legumes, Pet Foods, Jelly Candy and anything in granule form can be filled practically and quickly.







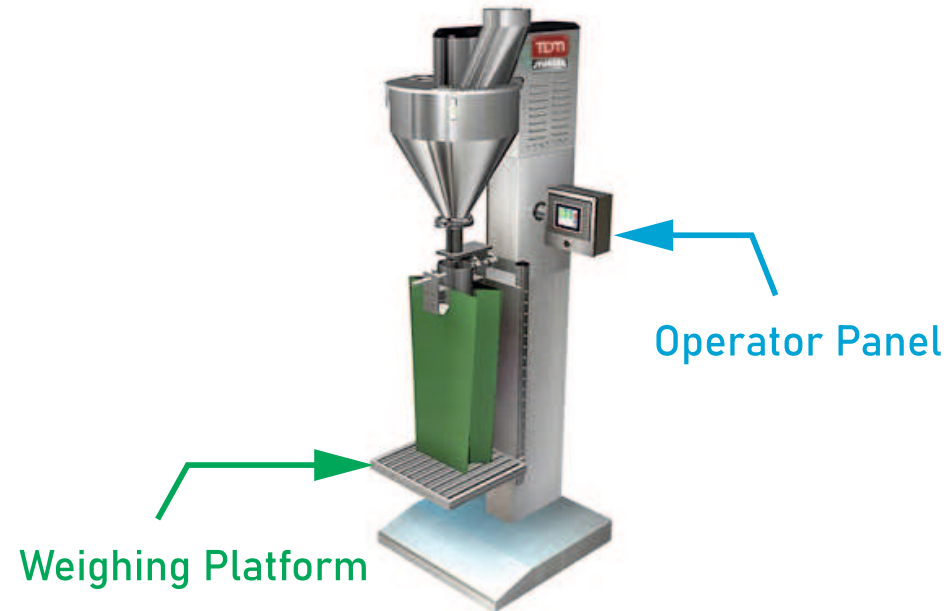
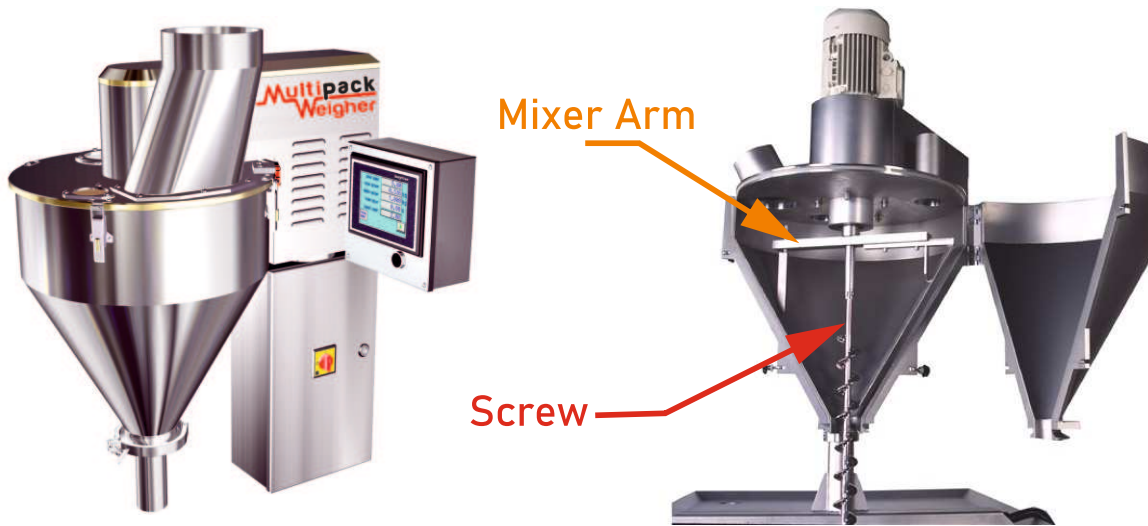


## Doypack Filling System Components

Multihead Scale	1 piece
Z Type Elevator	1 piece
Weighing Platform	1 piece
Dual Plate Filling System	1 piece
Sealing Machine	1 piece



**OPERATING PRINCIPLE:** It doubles the filling speed in manual use of multihead scales. The scale weighs very quickly, but since it is a single flow channel, staff speed prevents the scale from working fast. Thanks to this system, the scale discharges product from whichever channel it requests. There are 2 foot pedals and 2 personnel can work. Flow channels have transparent covers and can be easily disassembled and installed, so cleaning is easy and fast.



## Semi Automatic Screwed Filling Machine

### How does it work?

It adjusts the number and speed of the screw and the weight.

- Precision weighing with Servo Screw Motor
- User friendly Touchscreen Operator Panel
- Easy to clean thanks to its modular design
- It is completely 304 quality stainless steel
- Product transitions are easy and fast
- Mixer system that feeds regular product to the screw
- 2 model options as 10gr-100 gr / 100 gr-1000 gr

## Semi Automatic Weigher Powder Filling Machine

### How does it work?

It empties the product into the package with a screw, but weighs the electronic scales on the floor.

- Loadcell electronic precision and fast weighing
- User friendly Touchscreen Operator Panel
- Easy to clean thanks to its modular design
- It is completely 304 quality stainless steel
- Product transitions are easy and fast
- 2 model options as 10gr-100 gr / 100 gr-1000 gr



## LT1-R



## LT2-R



## Your New Colleague



### General Features

Complete stainless steel body structure.

Weighing options 1,3 lt / 7 lt /12,5 lt

Special molds for containers to be filled.

Capacity 12 packs / min for LT1-R 24 packs / min for LT2-R  
(May vary according to product and weight)

It is easy to clean thanks to its modular design.

220VAC 50 Hz or 110VAC 60 Hz operating voltage.

Plc controlled system, Color touchscreen operator panel.

Fills salt shakers, jars, plastic-glass containers.

Required staff 1 person.

5-25 Kg  
Working  
Range



Complete  
304 Quality  
Stainless  
Steel



Automatic  
Parcel  
Detection

Work  
Voltage  
220VAC  
50 Hz

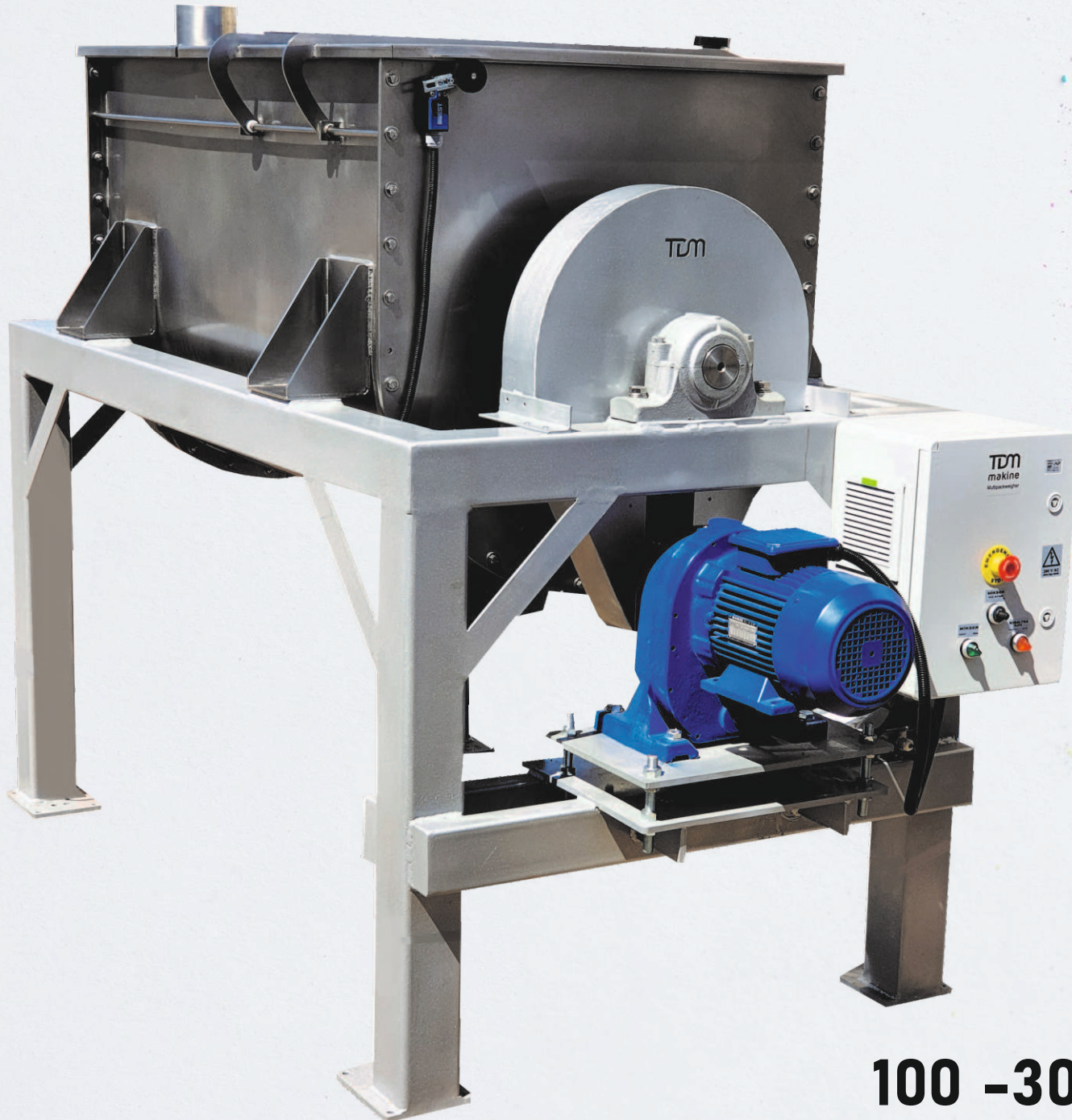


**It performs the weighing and filling process in grammage set in cardboard boxes or cases.**



**MIX SERIES**

**Horizontal U Type Ribbon Mixer**



**PROFESSIONAL  
SOLUTIONS  
FOR  
HOMOGENOUS  
MIXTURES**

**100 -300-500-1000-1500 Liter**

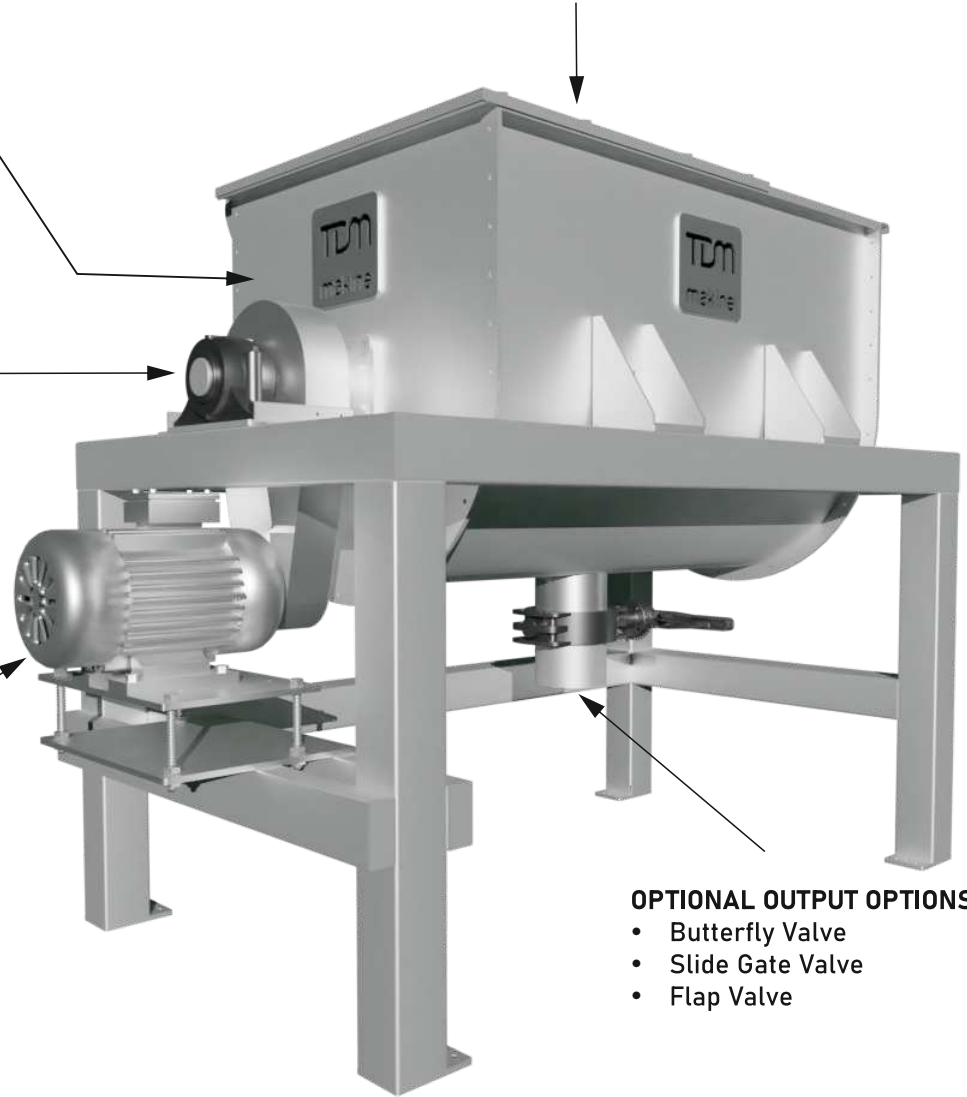


Product Filling Input

Modular Design

Casting Bearings

Powerful Geared Motor



## Optional Additions

Humidification with Liquid Spraying System
Mixer Speed Adjustment with AC Motor Driver
Product Control with Sampling Valve
Prescription Production with Weighing System
Easy Movement With Wheel
Various Automation Sensors
Digital Mix Time Clock
Loading product with the Screw Conveyor
Body Structure; Complete Stainless Steel / Completely Painted Steel / Product Contact Surfaces Other Stainless Parts Painted Steel

### OPTIONAL OUTPUT OPTIONS

- Butterfly Valve
- Slide Gate Valve
- Flap Valve



## SECTORS USED

### Powder-Powder / Powder- Granule / Granule-Granule

- Pet Food
- Bird seeds
- Cosmetics
- Abrasives
- Pesticides and herbicides
- Laundry Detergents
- Fertilizers
- Plastic Industry
- Fire Retardants
- Gypsum, Aggregate
- Physical Cleaning Materials
- Construction Materials
- Metallurgy - Ceramics
- Dyestuff, Pigment
- Battery, Battery Industry
- Bakery Premixes
- Polymer Additives
- Talcum Powder
- Ice cream mixes
- Powder Coatings
- Coating solid particles with a small amount of liquid ingredients or a very fine and smooth powder
- Sweetening
- Paste
- Sulfur
- Spice Mixes
- Mix Foods
- Mix Coffees
- Pharmaceutical Industry
- Mining Industry
- Milk Powder, Baby Food
- Salt
- PVC Composition
- Polyethylene
- Bread Additives



Spice



Cosmetics



Sulfur



Pet Food



Detergent



## TECHNICAL SPECIFICATIONS

Mixer Volume	100 Liter	300 Liter	500 Liter	1000 Liter	1500 Liter
Mixer Type	Horizontal Ribbon	Horizontal Ribbon	Horizontal Ribbon	Horizontal Ribbon	Horizontal Ribbon
Engine Speed	30-45 cycles	30-45 cycles	30-45 cycles	30-45 cycles	30-45 cycles
Applications	Powder-Powder Granule-Granule Powder-Granular Moisturizing	Powder-Powder Granule-Granule Powder-Granular Moisturizing	Powder-Powder Granule-Granule Powder-Granular Moisturizing	Powder-Powder Granule-Granule Powder-Granular Moisturizing	Powder-Powder Granule-Granule Powder-Granular Moisturizing
Dimensions	120x75x77 cm	200x65x100 cm	230x75x114 cm	120x270x200 cm	
Body Type	U Type	U Type	U Type	U Type	U Type
Evacuation System	Electropneumatic 150 mm Valve	Electropneumatic 150 mm Valve	Electropneumatic 150 mm Valve	Electropneumatic 150 mm Valve	Electropneumatic 300 mm Valve
Control Panel	Available	Available	Available	Available	Available
Body Material	Stainless Steel Painted Steel	Stainless Steel Painted Steel	Stainless Steel Painted Steel	Stainless Steel Painted Steel	Stainless Steel Painted Steel
Top Cover	With Safety Switch	With Safety Switch	With Safety Switch	With Safety Switch	With Safety Switch
Rotation Direction	Optional Right-Left available	Optional Right-Left available	Optional Right-Left available	Optional Right-Left available	Optional Right-Left available
Mixing Time	15-20 minutes	15-20 minutes	15-20 minutes	15-20 minutes	15-20 minutes
Working Capacity	30% - 80%	30% - 80%	30% - 80%	30% - 80%	30% - 80%

**You can contact us for more information. We are always with you.**



# MIX SERIES

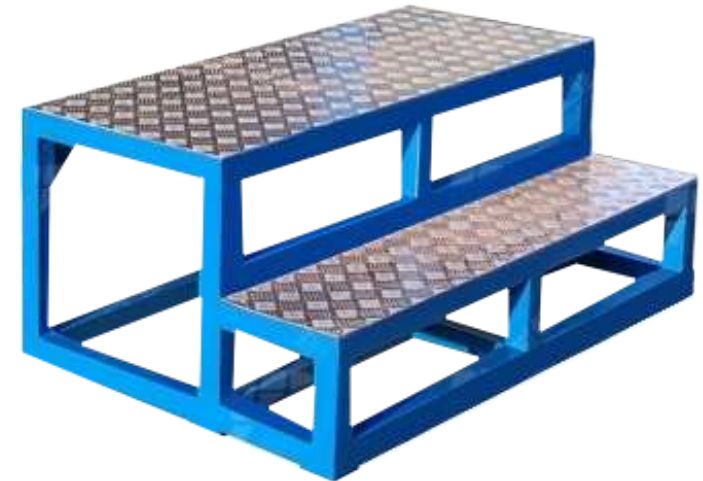
# Horizontal U Type Ribbon Mixer Options



Liquid Spraying System



Dust Filter



Ladder for Manual Product Loading



Wooden Crate for Overseas



Screw Conveyor



Top Grill



Industrial Wheel



Right-Left Direction Switch



AC Motor Driver



Mix Time Digital Time Clock



# MIX SERIES

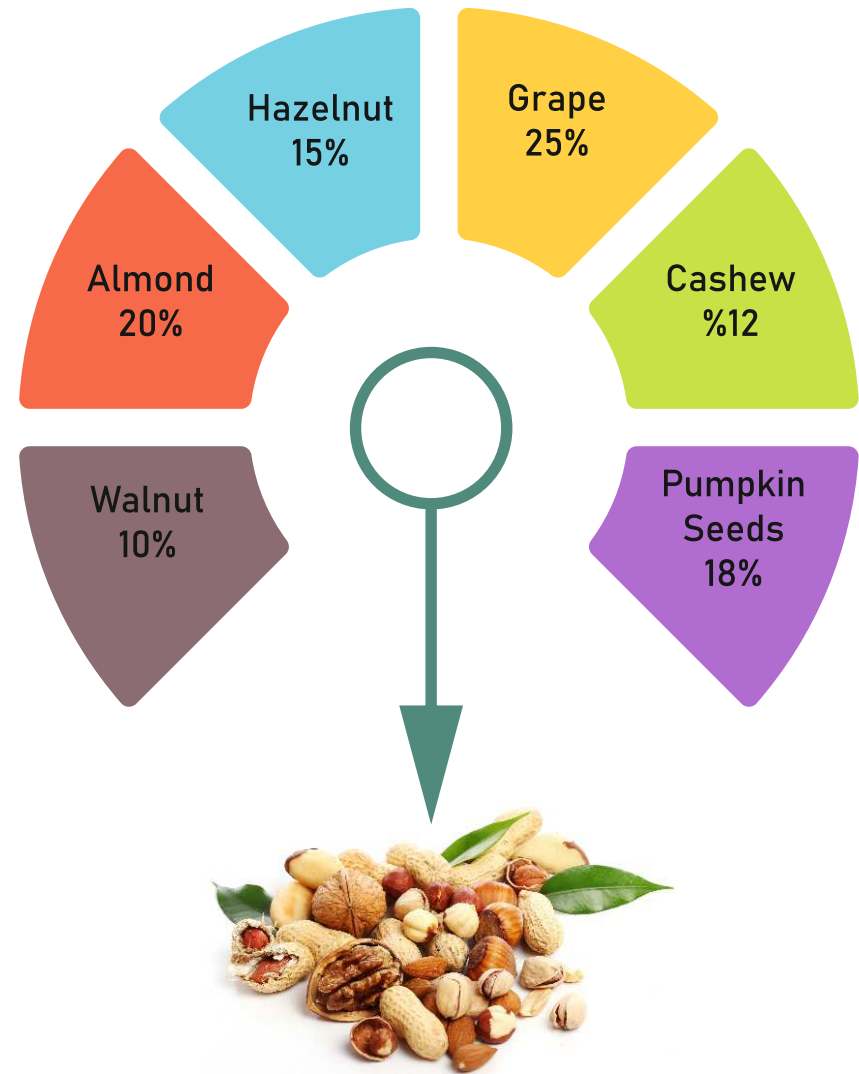
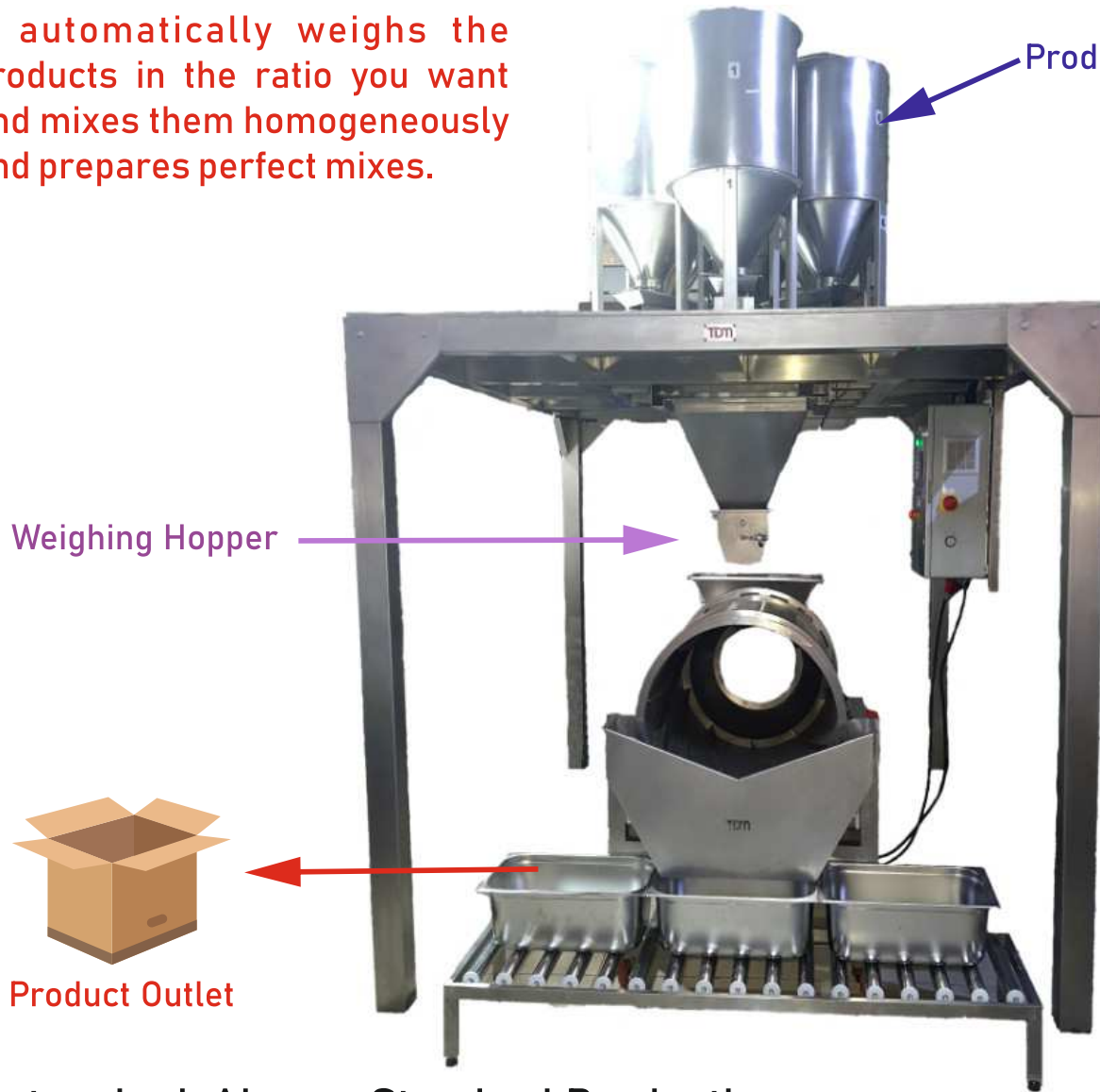
# Horizontal U Type Ribbon Mixer Photos



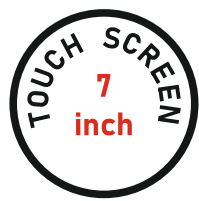
# MIX SERIES

# Mix Preparation Machine

It automatically weighs the products in the ratio you want and mixes them homogeneously and prepares perfect mixes.



Untouched, Always Standard Production







## Technical Specifications

Body Structure	304 Quality Stainless Steel
Electric Power	4 kw / 5,2 kw / 6,2 kw
Product Stock Bunker Capacity	Designed to take 50 kg of product
Weighing System	Electronic Weighing with Loadcell
Weighing Capacity	Between 5 - 50 kg
Prescription	Prescription feature available
Calibration	Has built-in calibration feature
Operator Panel	Color Touch User Friendly Panel
Control System	PLC control
Number of Upper Product Bunkers	4/6/8 options available
Cleaning	Very easy thanks to its modular design
Required Staff	1 Person
Reporting	Production Reporting available
Security	Manufacturing in accordance with Food and Work Safety





# MAP SERIES

# Vacuum Gas Sealing Machine



Extend the shelf life of your packaged products 4 times, so you can feel comfortable.



## WHAT IS PACKAGING IN MODIFIED ATMOSPHERE? (MAP)

Air causes oxidative deterioration of food products, bacteria and mold growth in food products. Modified Atmosphere Packaging (MAP) is the packaging of food products in an atmosphere of protective gas or gas mixtures. Gases delay the oxidative deterioration and growth of bacteria and mold in the food product, extending the shelf life of the product, ensuring its safe and high quality.

### MAP Advantages:

- 1 - Provides longer shelf life (2-5 times more than air) for food products.
- 2 - Requires less preservative additives in food products.
- 3 - It provides the opportunity to present ready-made sliced products to the consumer.

### MAP Gases:

(E290) Carbon dioxide slows down the growth of bacteria and mold, whereas it dissolves in the food product (especially oil).

(E941) Nitrogen, an inert gas, is used to remove ambient air and as a filling gas.

(E948) Oxygen oxidizes fats, promotes the growth of aerobic bacteria and molds, whereas red meat discoloration.

(tarnishing) and slows down the growth of anaerobic bacteria.

The main purpose of the MAP is to create an oxygen-free atmosphere in the packaging of the food product, and carbon dioxide, which slows down the growth of bacteria and mold. For this reason, shielding gases used in MAP are generally composed of a mixture of nitrogen and carbon dioxide gases.

There is a separate gas composition for each food product. The gases are supplied to the food packaging machine in steel tubes as pre-mixed or the food packaging machine takes the gases from separate steel tubes and mixes them. Or, protective food gases are prepared from liquefied gases stored in tanks in the food production area.



## SAMPLE MAP TABLE

Food Product	Co2% Carbondioxide	% N2 Nitrogen	%O2 Oksijen
Nuts, Chips	100%		
Coffee	100%		
Bakery Products	50%	50%	
Bread	60%	40%	
Cheese	30%	70%	
Fruits - Vegetables	5%	90%	5%
Pizza	50%	50%	
Shrimp, Mussels	30%	40%	30%
Fish (fatty)	50%	50%	
Red Meat	20%		80%
Cooked Processed Meat	30%	70%	
White Meat	30%	70%	



## N<sub>2</sub> / NITROGEN GAS (E941)

## O<sub>2</sub> / OXYGEN GAS (E948)

### WHAT IS NITROGEN?

Nitrogen, or nitrogen, is an element indicated by the symbol N on the periodic table, and its atomic number is 7. It is a colorless, odorless, tasteless and inert gas. Nitrogen constitutes 75.5% by weight and 78% by volume of the earth's atmosphere and is found in all living tissues. 3% of your body is nitrogen. Nitrogen is not toxic.

### USE OF NITROGEN IN MAP

Nitrogen is one of the most common gases used for MAP, mainly because it is inert, odorless and tasteless. It is also easy to obtain high quality food grade nitrogen that can be produced on demand from a nitrogen generator. The purity of food grade nitrogen is at least 99%, making it an ideal gas to replace oxygen, prevent food oxidation and growth of aerobic organisms. Nitrogen gas is very slow to pass through the plastic film, so it can remain in the packaging for a long time.

It is a protective atmosphere gas that is used to preserve the freshness of foods, make them look natural, and extend their shelf life without using artificial preservatives. It is used in the packaging of dried nuts and dried foods.

### FOODS USED

- Nuts Packaging
- Coffee and Tea Packaging
- Fruit and Vegetable Packaging
- Potato Chips, Corn Packaging
- Fruit Juice, Carbonated Drink, Wine Bottling
- Catering (Appetizer, Sauce, Sandwich etc.) Packaging
- Packaging of Milk Powder, Cream and Fruit Yogurt
- Bakery Products (Ravioli, Dough, Kadayif, Cake, Tortilla, Pastaban) Packaging
- Packaging of Meat and Poultry Products (Sausage, Salami, Soudjouk, Bacon, Dry Meat etc.)
- Packaging of Dried Food (Spices, Legumes, Apricot, Grape, Tomato etc.)
- Local Cheese, Sliced Cheddar Cheese, Grated Mozerella, etc. Packaging

### WHAT ARE THE BENEFITS?

- Preserving the taste, aroma, texture and nutritional value of the product
- Increase in sales due to high product quality
- Fewer product returns
- Increasing production efficiency
- Better product color and texture in the package
- Longer shelf life
- Increasing export opportunities to new foreign markets

### WHAT IS OXYGEN?

Oxygen is the chemical element with atomic number 8 and symbolized by the letter O. Under standard conditions, two atoms of the element bind to form a very pale blue, odorless, tasteless, diatomic dioxygen gas with the formula O<sub>2</sub>.

Oxygen is a member of the chalcogen group in the periodic table and is a highly reactive nonmetal that can easily form compounds (mainly oxides) with almost all other elements. Oxygen is a strong oxidant and has the second highest electronegativity of all elements.

### USE OF OXYGEN IN MAP

When it comes to MAP, oxygen often has a role to play. In most cases, MAP is used to remove oxygen from food packaging to prevent food spoilage caused by oxidation and to inhibit the growth of aerobic organisms.

However, sometimes oxygen is the gas in which the atmosphere of the food is changed to contain more of it. Oxygen, an odorless and tasteless gas, is widely used in red meat, where it is used during processing to maintain the vibrant red color of the meat and prevent it from fading. This use of oxygen also prevents the growth of anaerobic organisms.

### FOODS USED

- Red meat
- Fruits and vegetables

### WHAT ARE THE BENEFITS?

It is widely used in red meat where it is used during processing to preserve the vibrant red color of the meat and prevent it from fading.



## WORKING PRINCIPLE

Align the pre-filled pack to the machine's vacuum tube and press the pedal. The machine first vacuums at the adjusted values, then presses the protective gas and closes the mouth of the package and the package bottom support opens down and slides the package. This process is repeated consecutively for each packet. It works the same on Channel A and Channel B. 2 independent channels are made to increase the machine capacity, each channel works independently from each other.



**1** The air in the package makes a rough vacuum.

**2** It presses protective gas into the package.

**3** Seals the mouth of the package.



### Important Warning

The packaging you will use is very important. It should have oxygen and moisture barrier properties. Otherwise, the gas you will press into the package will leak out over time. Get detailed information from your packaging supplier.



Packaged in Modified Atmosphere on Packaging and do not forget to write down the code of whatever Food Gas you used.

# MAP SERIES

# Vacuum Gas Sealing Machine

## TDM-MAP-1

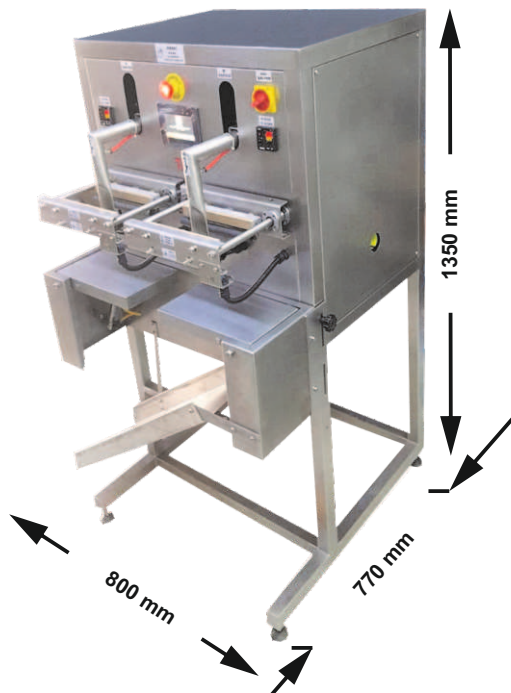


80 kg



Machine Total Weight

## TDM-MAP-2



150 kg



Machine Total Weight

## TECHNICAL SPECIFICATIONS

	TDM-MAP-1	TDM-MAP-2
Body Structure	304 Quality Stainless Steel	304 Quality Stainless Steel
Capacity	7 packs / min	15 packs / min
Operating Voltage	220 VAC 50 Hz 1 KW	220VAC 50 Hz 1,5 KW
Operator Panel	4.3 inch Color Touch	4.3 inch Color Touch
Required Air Pressure	6 Bar/ 87 PSI	6 Bar/ 87 PSI
Sealing Jaw	20 cm - Constantly hot chin	20 cm - Constantly hot chin
Required Staff	1 person	1 person
Additional Equipment	Food Gas Tube and Clock	Food Gas Tube and Clock

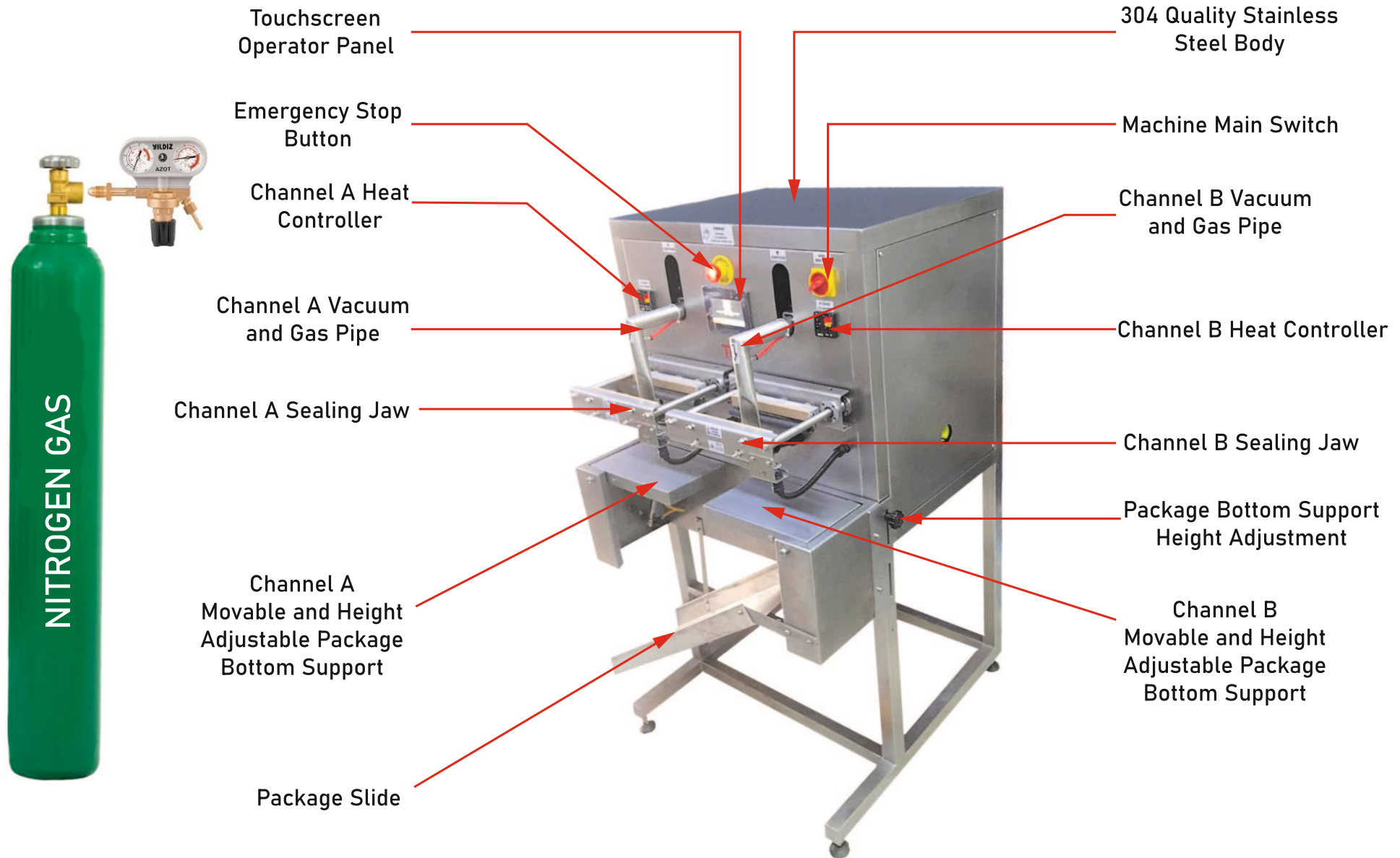




## TDM-MAP 1 DETAILS



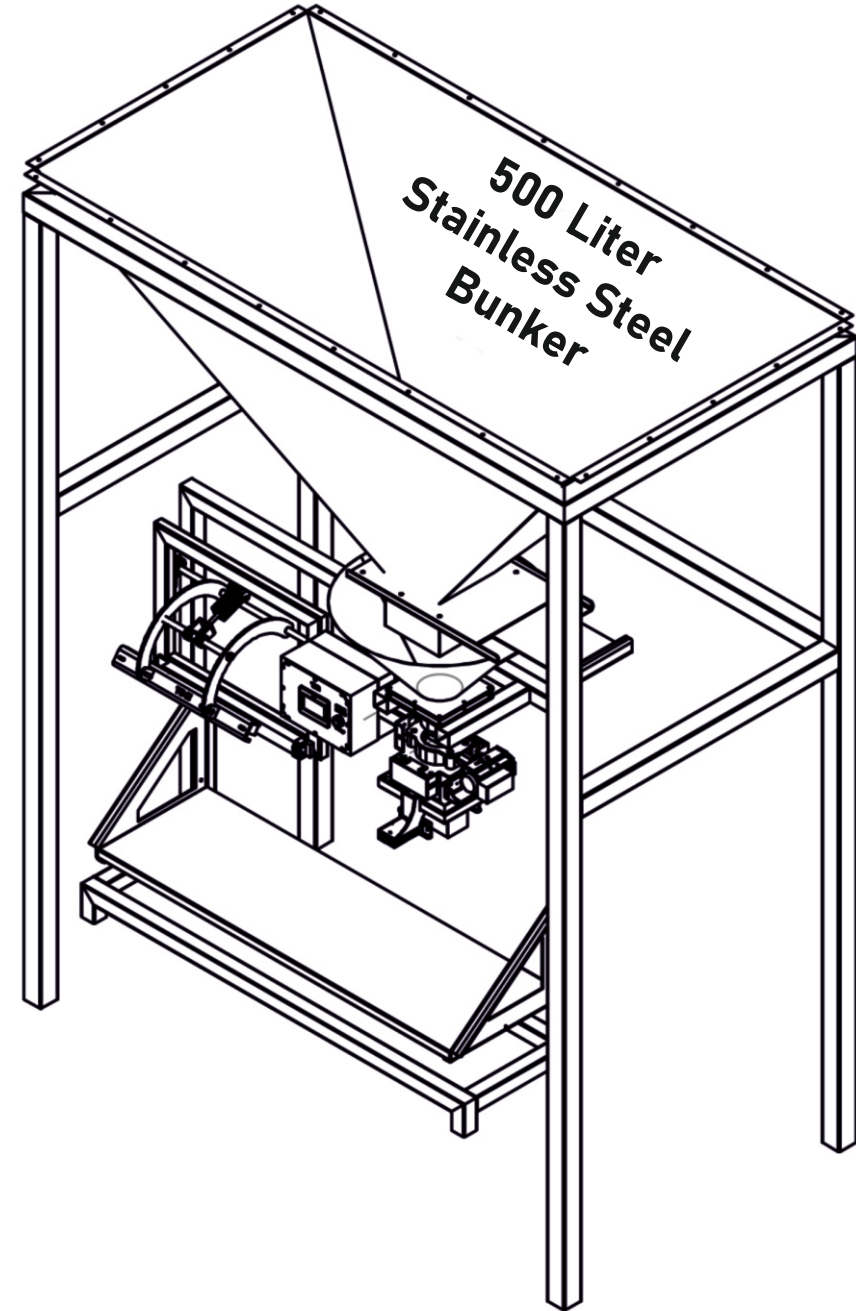
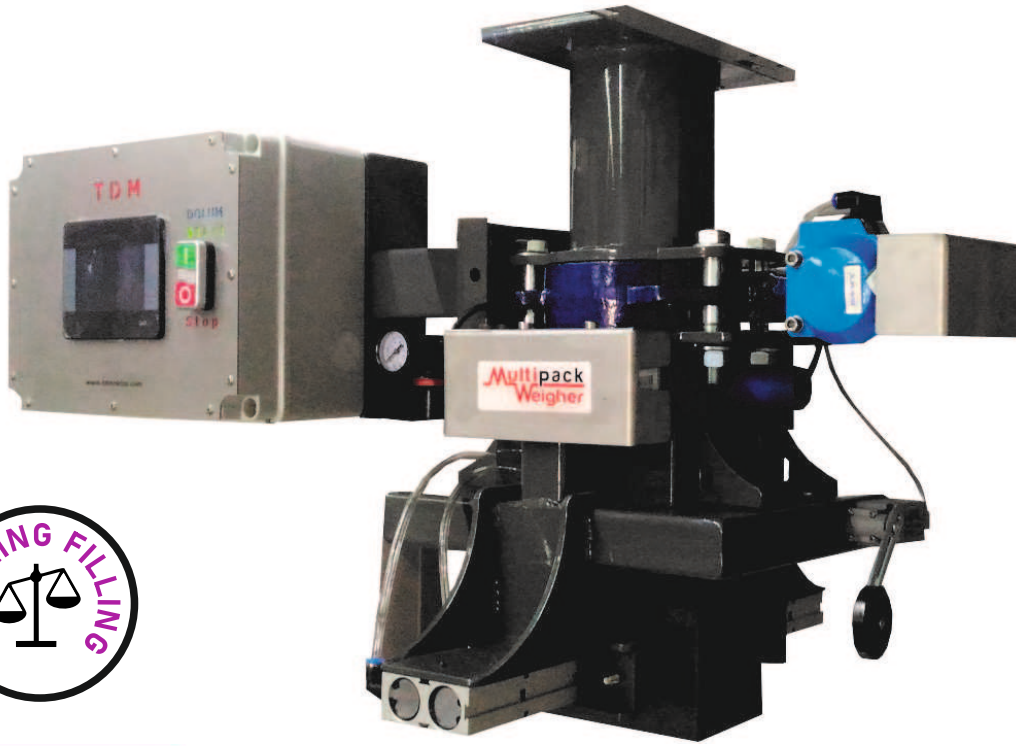
## TDM-MAP 2 DETAILS





# FILLING SERIES

# Free Flow Bag Filling Machine



Wood and Manure Pellet



Cereals



Agricultural Fertilizers

## How does a free flow bag filling machine work?

It weighs the products that can flow freely under the effect of gravity and automatically stops the flow when it reaches the target weight.

## How does it measure and control weight?

It controls the electropneumatic valve by measuring the weight precisely with Loadcell sensors.

## How to use?

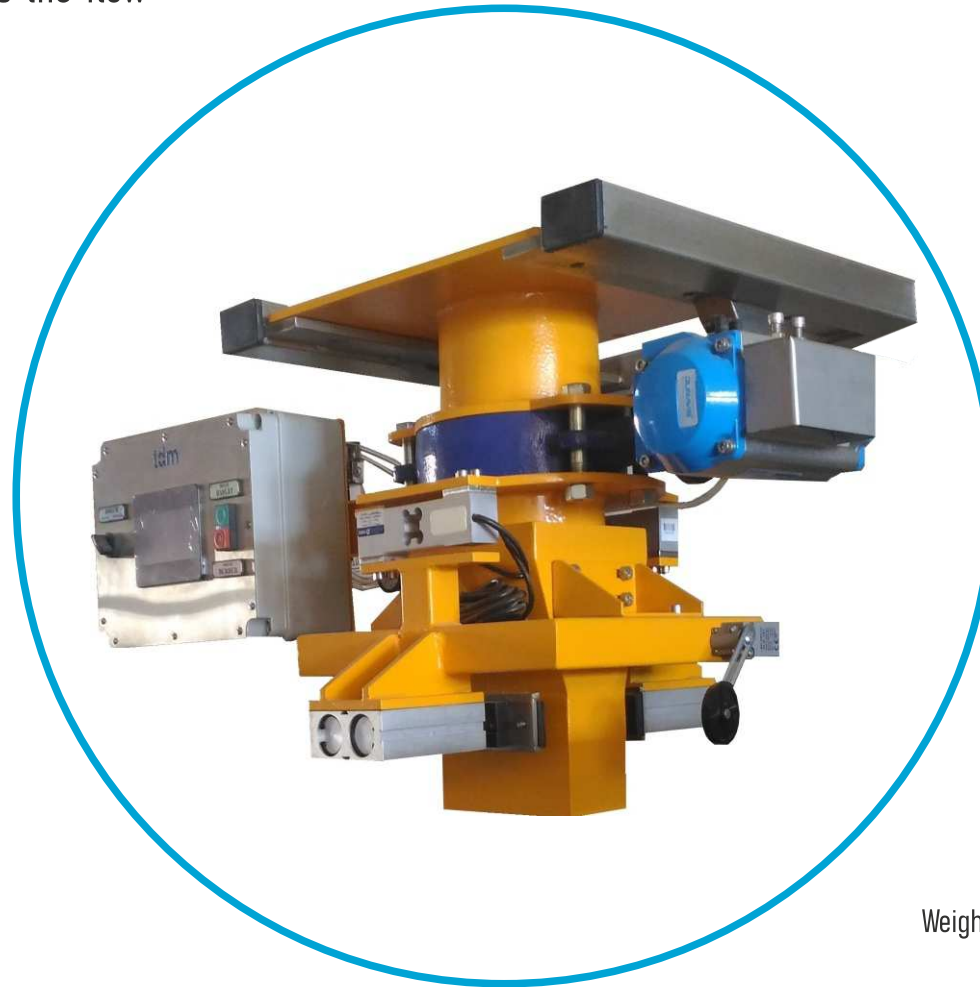
This machine is easily connected to the bottom of the silo, boat or bunker with the help of a flange.

## What products does it work with?

It works on all free flowing, dry powder and granular products. For example, Pellet, Chemical Fertilizer, Pesticides, Chemical Powder, Grain, Feed, Medicines, Aggregate, Sand, Mosaic, Rice, Lentil, Wheat, Granulated Sugar and others ....

## How many kg of products can I pack?

With this machine, you can work with any weight between 10 kg and 50 kg.



## Can I use this machine on food products?

You can use the 304 Stainless Steel model of this machine in food products.

## Which packages can it fill?

You can easily use packages such as nylon bags, synthetic bags, telis, cloth bags.

## Is it difficult to use the machine?

It is very easy with the Color Touch Turkish Operator panel. It is enough to write the desired SET value on the screen and press the START Button.

## Does it require maintenance?

It does not require maintenance and is easy to clean.

## How many kg of product in 1 hour?

6.000 kg per hour for 10 kg

15.000 kg per hour for 25 kg

30.000 kg per hour for 50 kg

Weighing speed may vary depending on the product and weight.

## How is it calibrated?

There is a built-in calibration feature on the screen, you can do it easily.



## TECHNICAL SPECIFICATIONS



Operating Voltage	220 VAC / 50 Hz veya 110VAC / 60 Hz
Electric Power	60 Watt
Weighing Range	10 kg - 50 kg You can work with the weight you want in the range.
Weight Type	Electronic Weighing with Double Loadcell Sensor
Weighing Precision	1 gram
Weighing Module	High Speed Weighing Module
Filling Speed	5-15 Bag / min. (May change according to the product and weight.)
Filling Accuracy	1-50 gram
Calibration	Calibration is done on the screen.
Program Memory	10 units
Compressed Air Requirement	6 bar / 87 psi
Food Compliance	The 304 stainless steel model is suitable. (Optional)
Flow Pipe Diameter	Dn100 / DN150 (There is a price difference between the 2 models.)
Net Weight	45 kg
Net Dimensions (WxDxH)	510 x1050 x 460 mm
Shipping Dimensions (WxDxH)	550 x 1100 x 500 mm
Required Staff	1 Person
Optional Additions	Conveyor Belt, Bag Closer, Sealing Machine, Bunker, Silo.



## OPTIONS



Fixed Bag Closer Sewing Machine



Manual Bag Closer Sewing Machine



Feed Elevator



Automatic Bag Closer Sewing Machine



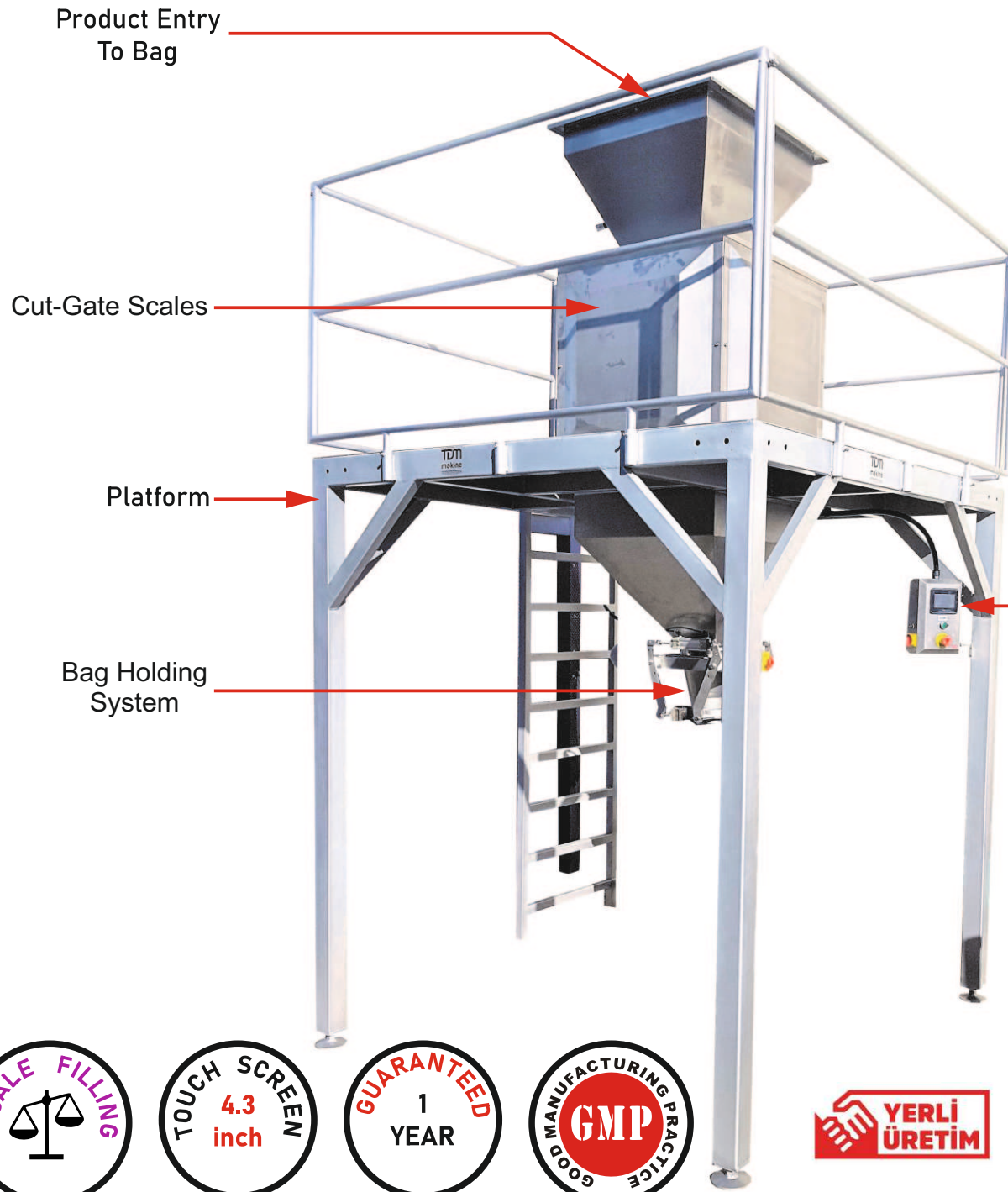
## FIELD APPLICATION PHOTOS



**Stainless Steel Free Flow  
Filling Machine for Food**

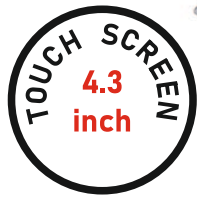


**Free Flow Filling Machine application for Mineral Powder**



## TECHNICAL SPECIFICATIONS

Body Structure	Product Contact Surfaces Stainless Steel
Operating Voltage	220VAC 50 Hz 1 kw
Capacity	9.000 Kg
Usage Areas	Dry Fluid Powder and Granular Materials
Required Air Pressure	6 Bar / 87 PSI
Control Unit	PLC + DOP Panel
Sack Holding System	Pneumatic





It performs the weighing process by making coarse and precise filling according to the SET value set on the screen. In coarse filling, large and small spirals work together at high speed, when sensitive filling, only the small spiral works at low speed to complete the weighing process.

## TECHNICAL SPECIFICATIONS

Completely made of stainless steel or painted steel

PLC Controlled control panel

Screw or belt feeding option

Sturdy guardrail and ladder platform

Automatic bag holding mechanism

Fast and precise filling possibility thanks to double weighing pan

Turkish, English and other languages Color Touch Operator Panel

Production Reports feature

Suitable for food manufacturing and safety rules

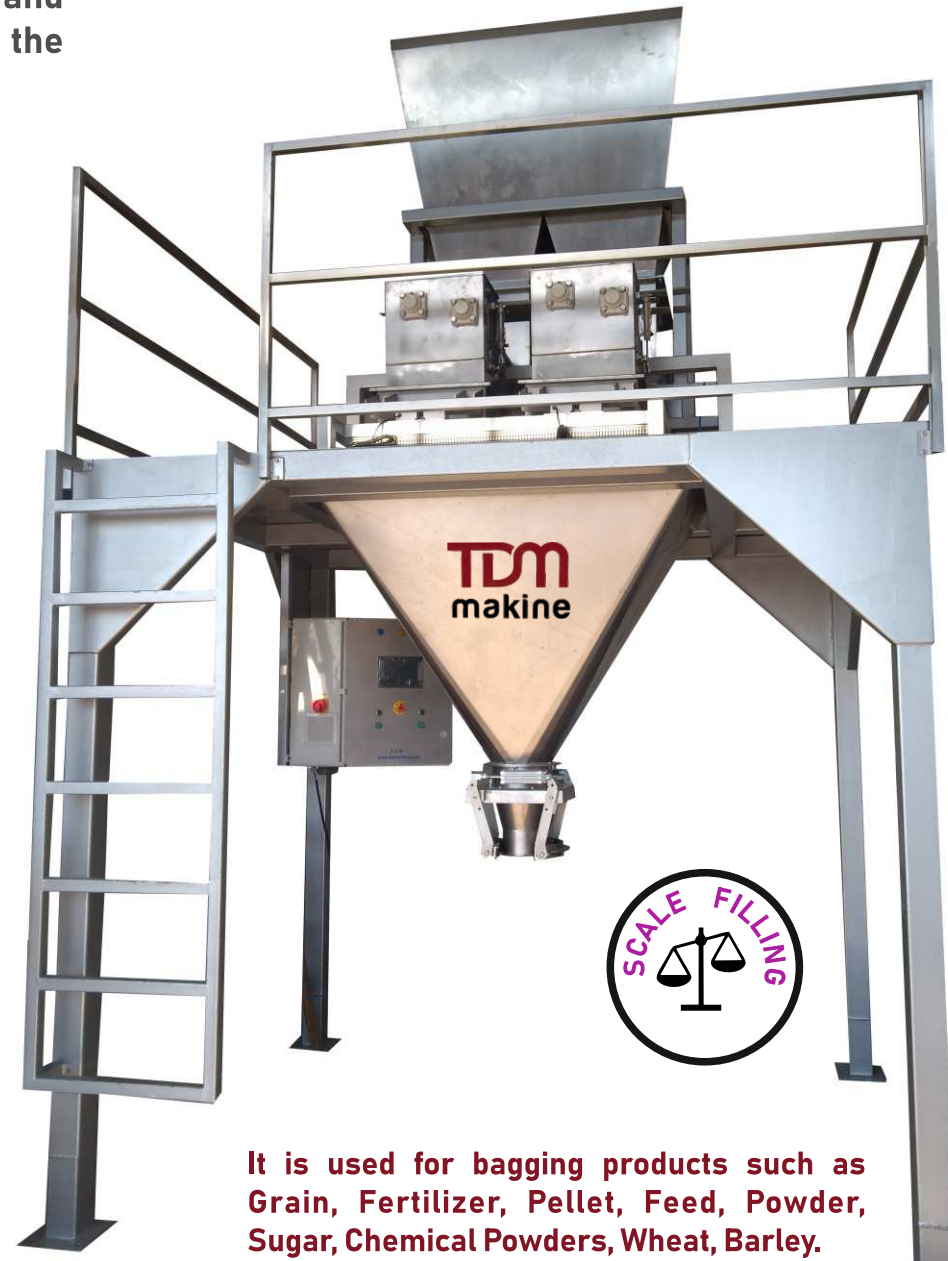
Weighing range from 10 kg to 50 kg

Capacity 24,000 kg for 50 kg / 12,000 kg for 25 kg / 4,800 kg for 10 kg

Filling into Polyethylene, Polypropylene, Synthetic Sacks, Telis and bags

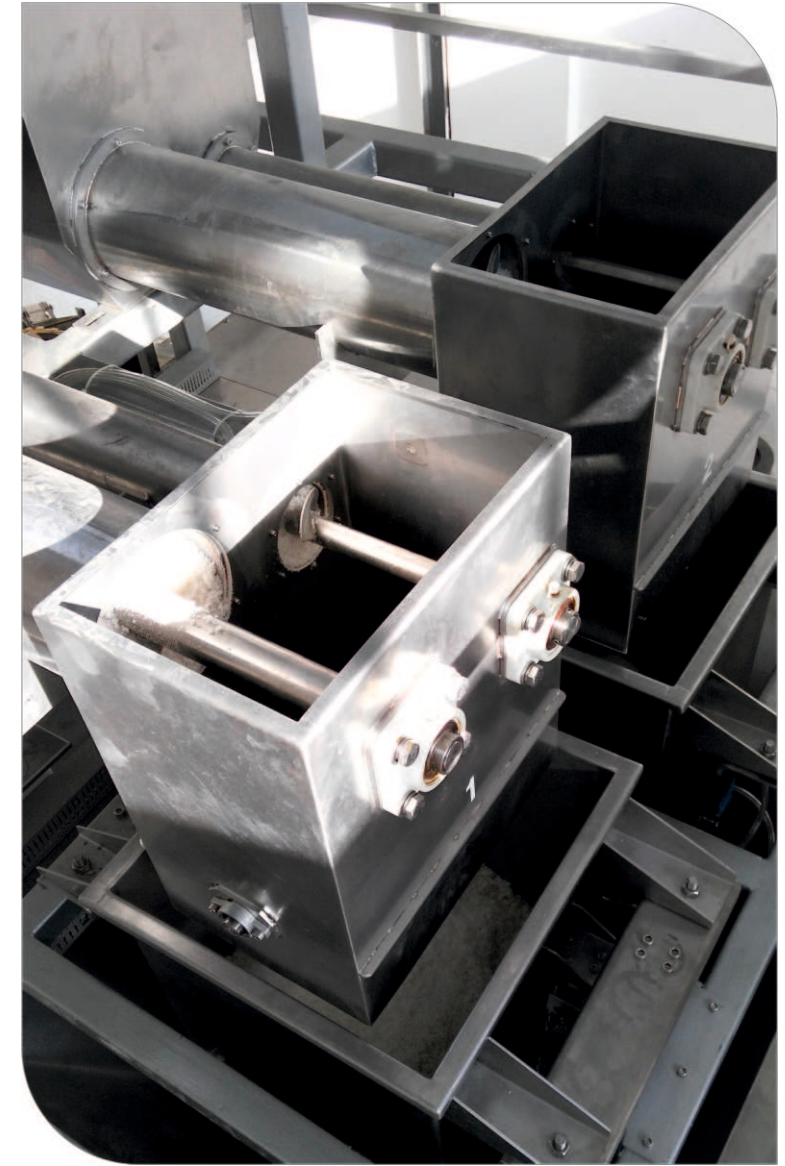
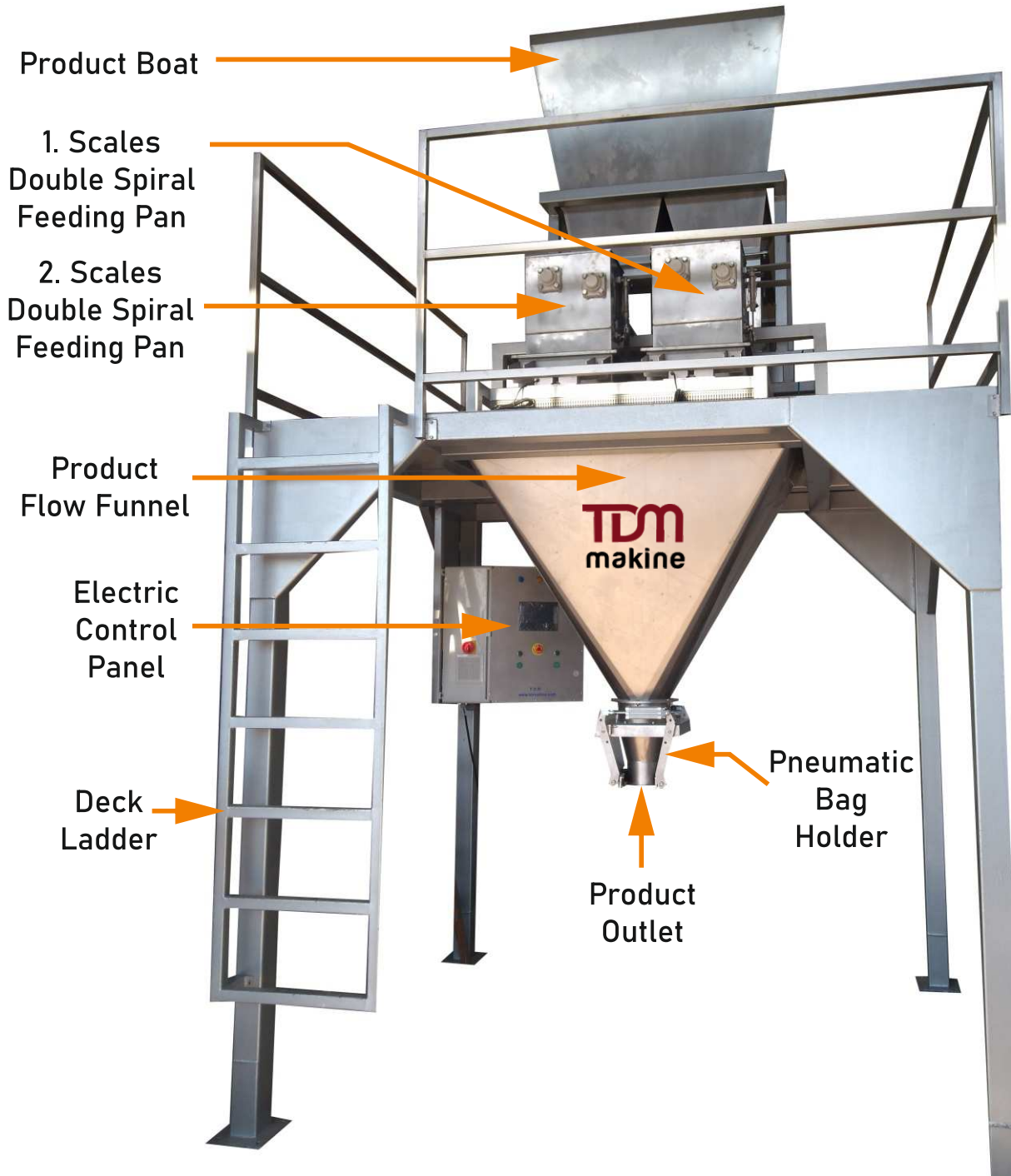
Optional sack conveyor belt, sewing machine, bag sealing additions

Weighing error margin in the range of 20 gr-100 gr



It is used for bagging products such as Grain, Fertilizer, Pellet, Feed, Powder, Sugar, Chemical Powders, Wheat, Barley.







## TECHNICAL SPECIFICATIONS

Body Structure	304 Quality Stainless Steel
Weighing Capacity	50 kg
Control System	PLC and DOP Panel
Filling Capacity	9.000 kg / hour for 50 kg
Operating Voltage	380 VAC 50 Hz 2 KW
Sack Retention System	Pneumatic
Required Staff	1 person
Filling Error Margin	5 in 1000





- 3 ml - 4000 ml filling range
- 5 filling memories
- Fully self-priming



Manual Cream Filling Machine



Intensive Product Liquid Filling Machine



Barrel, drum etc. liquid filling machine with scale for large containers





# SEALING SERIES

# Pneumatic Sealing Machine

Always the same jaw pressure, standard heat and provide excellent bonding through time.



## TECHNICAL SPECIFICATIONS

Body Structure	Complete 304 Quality Stainless Steel
Operating Voltage	220VAC 50 Hz 600 Watt
Jaw System	Pneumatic Continuous Hot Jaw
Jaw Thickness and Length	Thickness: 10mm / Length: 200 mm
Average Bonding Time	1 second
Control Unit	Digital Heat and Temperature Adjustment
Paste Command	Metal Foot Pedal



# SEALING SERIES

# Vertical Escalator Sealing Machine



## TECHNICAL SPECIFICATIONS

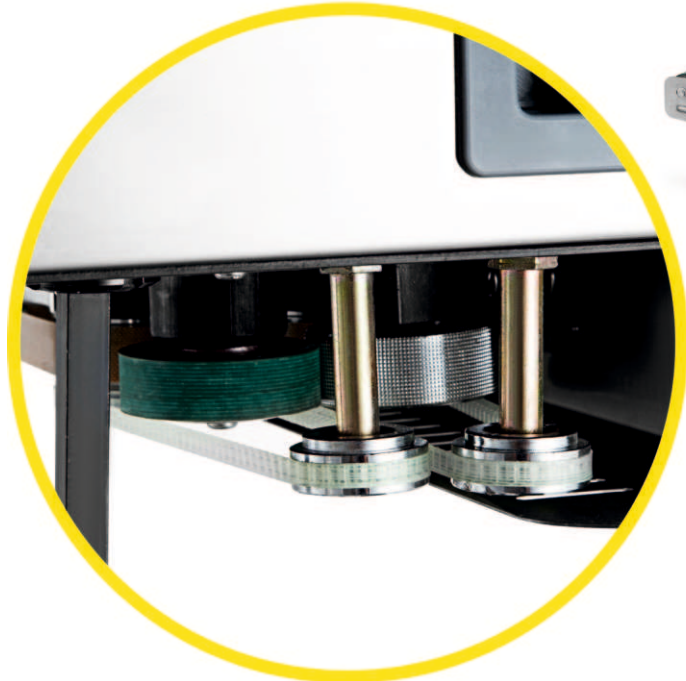
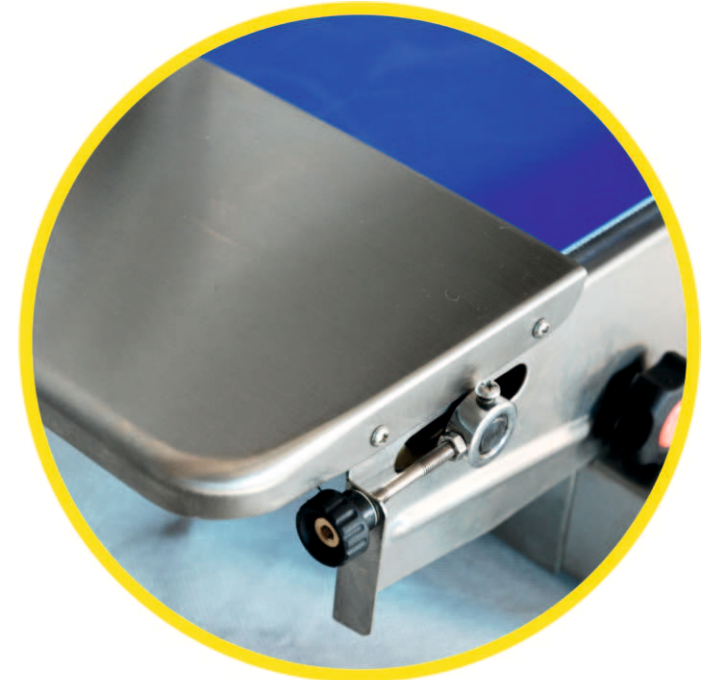
Body Structure	304 Quality Stainless Steel
Operating Voltage	220 VAC 50 Hz 500 Watt
Conveyor Transport Weight	5.000 gr
Adjusted Working Temperature	Temperature adjustable from 0 to 300 C
Adjusted Bonding Speed	12 meters / min
Adhesive Track Width	10-15 mm
Materials Bonded	PP, PE, PVC, OPP, CPP, Aluminum, Doypak Packaging
Adhesive Film Thickness	0,02 mm - 0,08 mm
Machine Dimensions	90x48x38 cm
Optional Printer Model	2 lines, 30 Letters-Numbers, Black Color





# SEALING SERIES

# Vertical Escalator Sealing Machine





# SEALING SERIES

# Polyethylene Bag Sealing Machine

Microprocessor  
Electronic  
Control Unit

Sealing  
Jaw  
Piston

65 cm Double  
Stitched Bonding Jaw

Electro Motorized  
Height Adjustment

Easy to transport  
thanks to wheels





Reject Box

Reject Piston Rod

Outlet Band

Operator Panel

Weighing Band

Input Band

## GENERAL FEATURES

- Automatic Reject System
- Locked Reject Cabinet
- 50- 2500 gr Working Range
- Touchscreen Operator Panel
- Audible and Visual Warning System
- Easy Integration to Production Line
- Working with 1 gr Precision
- Internal Precise Calibration
- 220 VAC / 50 Hz Operating Voltage
- Complete 304 Quality Stainless Steel
- Compatible with Food and Work Safety
- 1 Year Warranty
- 100% Domestic Production and Software

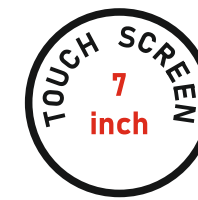
Speed  
**60 packs/min**

**No More  
Under or  
Over Weight  
Errors**

Checkweighers check whether the weight of the packaged products is correct. It separates the products outside the upper and lower limit range set on the operator panel with reject system at the exit.

For example, if your target weight range is 98 gr to 102 gr, it will not accept a package that comes with 97 gr or 103 gr and it will parse these packages.

We produce two different models to control small and large packages.







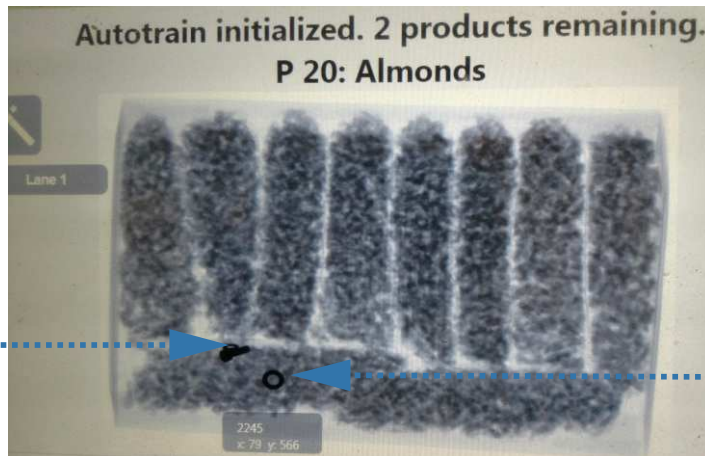
Metal Detectors are manufactured by choosing the most suitable detector for your product. We use modular or PVC tape. We use Airjet, pusher piston rod or direction deflection systems as the separation system.







All packages and parcels passing through the X-ray detector tunnel are X-rayed and if a foreign object is detected, it is separated.



The bolt that fell into the package from the packing machine scale.

Flake that fell into the package from the packaging machine scale.

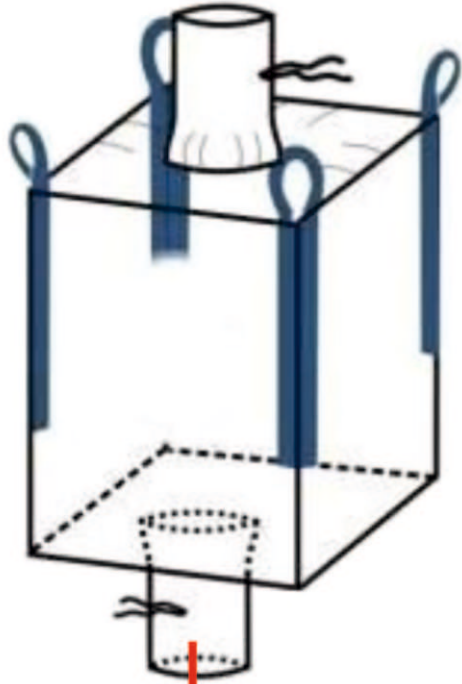


## TECHNICAL SPECIFICATIONS

Body Structure	Surfaces that are in contact with the product or stainless, other places are painted.
Belt Speed Control	Speed Adjustment is available with AC Motor Driver.
Lighting	Top Led Lighting
Wheel	Optional wheel can be installed.
Operating Voltage	220VAC veya 380VAC

# EQUIPMENT SERIES

# Bigbag Scale and Bigbag Discharge System



PRODUCT CONTACT SURFACES ARE 304 QUALITY STAINLESS STEEL.

MANUAL LEVER VALVE

PAINTED STEEL CHASSIS







**Grain Transfer Auger**



**U Type Screw**



**Powder and Granule Feeding Screw**



**Tube Screw**



**Straight PVC Belt**



**Ruffled Banded**



**Modular Belt**



**Edged Modular Belt**



**With Select Band**



**Rubber Band**



**Roller**



**Standard Type Vertical Bucket**



**Vertical Bucket**



**Vertical Z Type Bucket**



**Horizontal Z Type Bucket**

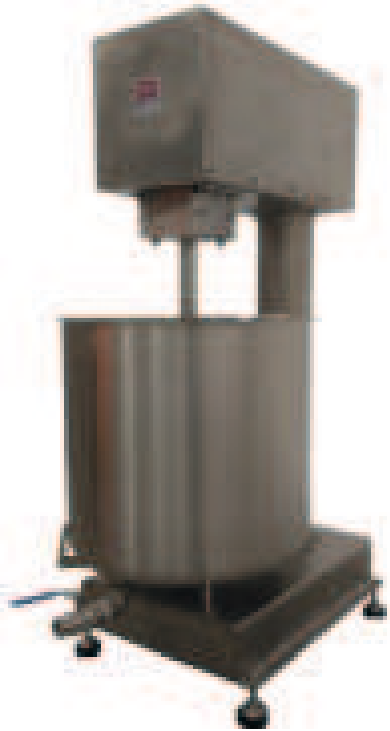


**Pendulum Z Type**



**Easy Dump Type**





**50 Liter Liquid Mixer**



**Liquid Dosing**



**Stainless Mobile Bathtub**



**Revolving Rotating Collection Tray**



**220VAC-110VAC Transformer**



## STAINLESS WHEELED BUNKERS

Complete 304 quality stainless steel manufacturing

We manufacture in desired volumes.

Easy to fix thanks to brake wheels

Sliding damper bottom discharge cover

Manufacturing in accordance with hygiene rules

Can be manufactured as silo or prism

## PLATFORM MANUFACTURING

Stainless or painted body structure

We manufacture in desired sizes

Anti-skid platform base

Non-slip platform ladder

Standard handrails

Manufacturing in the desired color

## PLATFORM MANUFACTURING

Stainless or painted body structure

Manufacturing in the desired size and volume

Sliding damper bottom discharge cover

Non-slip platform ladder

Standard handrails

Manufacture in the desired color



**Cardboard Opening Forming Machine**



**Automatic Mixed Carton Taping Machine**



**Semi Automatic Carton Shrink Machine**



**Desktop Gas Vacuum Machine**

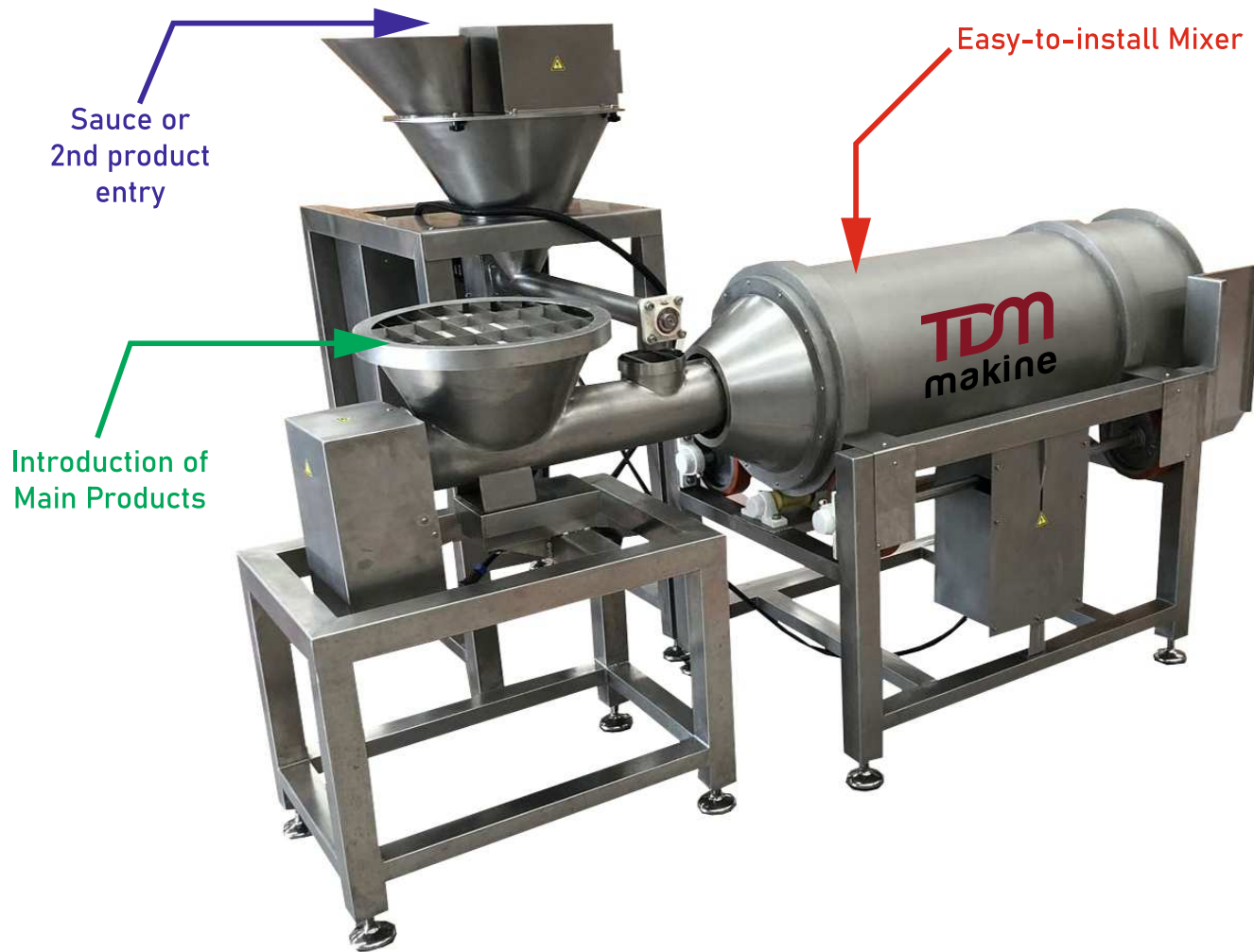


**Gas Double Chamber Vacuum Machine**



**Pallet Stretch Wrapping Machine**





Perfect Homogeneous mixture

## Technical Specifications

Body Structure	Complete 304 Cr-Ni Stainless Steel
Electric Power	220VAC 50 Hz 3 Kw
Capacity	1500 kg / hour
Dosing System	Continuous Proportional Mixing
Operator Panel	Color Touch Turkish Operator Panel
Control System	PLC Controlled, remote connection feature
Usage Area	Mozzarella Cheese Production, Saucing etc.



## TECHNICAL SUPPORT SERVICES



Vertical Packaging Machines breakdown, maintenance, service, revision, automation and modernization

Breakdown, maintenance, service, card supply, revision and modernization of Multihead Scales

Breakdown, maintenance, service, automation, revision services of Weighing and Filling Machines

Checkweigher, Metal detector, X Ray detector breakdown, maintenance, services

Breakdown, service, maintenance and automation of Powder Filling, Liquid Filling, Granular Filling Machines

PLC Software, Operator Panel Software Services for all kinds of machines

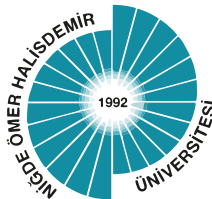
Servo motor, Step motor, Asynchronous motor applications

Breakdown, maintenance and service for all kinds of automation control panels



Packaging Machines, Multihead Scales, Filling Machines, Dosing Systems and Automation are our field of work. Our expert staff is ready to offer you the most suitable automation solutions.

# Some References







## TDM MAKİNE SANAYİ VE TİCARET LİMİTED ŞİRKETİ

Factory: Sasalı Sanayi Bölgesi 46. Sok. No:44D 35620 Çiğli / İZMİR - TURKEY

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**Multipack<sup>®</sup>**  
**Weigher**  
*Tartım ve dolum sistemleri*