

processing to  
packing  
we have it all!



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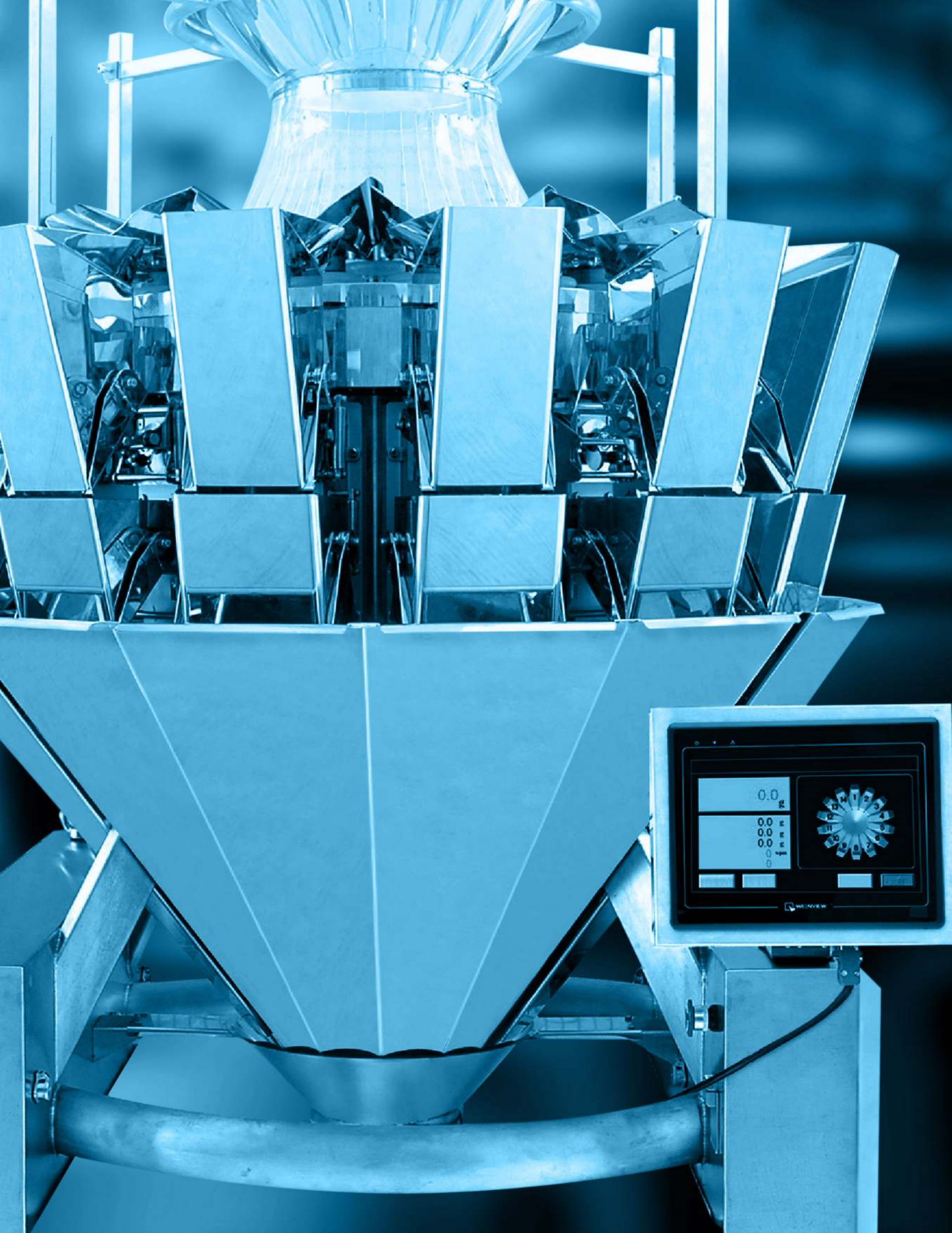
[www.teknowpack.com](http://www.teknowpack.com) | [www.omega-machines.com](http://www.omega-machines.com)

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an omega engineering company





## Your reliable packing solution partner

If you are looking for high quality, reliable packaging machines for food filling and packaging for granule, powder, or liquid products, Teknow pack has the right solutions for you. We offer the complete range of VFFS and horizontal machines for food and beverage packaging that can pack sugar, salt, pepper, ketchup, rice, candy, coffee, spices, seed and drink mixes. We are engaged in manufacturing various types of packing machines that are highly reliable and consistent in operation. These machines are designed and developed to suit the various requirements in pharmaceutical products, complex customized systems, form, fill, and seal technology. Our product portfolio ranges from filling, packaging technology, for pharmaceutical products and confectionery, Cosmetics, to packaging solutions for bulk items (both Weigh metric & Volumetric) in the food sector, as well as for health and hygiene products. Our uniquely designed machines are simple to use and are cost effective. Made from quality raw material, these machines are manufactured with the best available Technical know-how to update packing process and increase productivity. Our machines are of high efficiency and require less maintenance and are offered at competitive prices.

## Advanced technology

We use the highest quality electronic components from the best suppliers in the world. Our PLC and touch screen brand are sourced from Siemens, Panasonic, Weinview etc. All other electronic parts and components are tried and tested for performance and reliability. All the electronic components come with 1 year replacement guarantee.

## High skilled workmanship

We provide highest quality workmanship in order to serve all of the needs of our customers. At Teknow pack we offer 100% service and support for the Mechanical, Electronic and Pneumatic parts of the machines. Our well experienced engineers are always ready to help you from basic installations to any after sales queries or to train the basic operation of the machines. We also stock complete range of spares for the smooth operation and maintenance of the machines.

## What we offer

- Fully automated filling and packaging solutions
- Semi automatic filling and sealing solutions
- Weighing scales & hand sealing equipments
- End of the line packing solutions
- Large inventory of machines and spares



## 2 in 1 Combo Multihead Weigher Granule Packaging Machines TP-420G / TP-520G



### FEATURES

- Preferred for less space production areas.
- 10 Head combination weigher for high speed and precise weighing.
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated process of weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.
- Finished bag styles – Back sealing pillow bag, Gusseted bag etc



### Application – 100gms to 2Kg

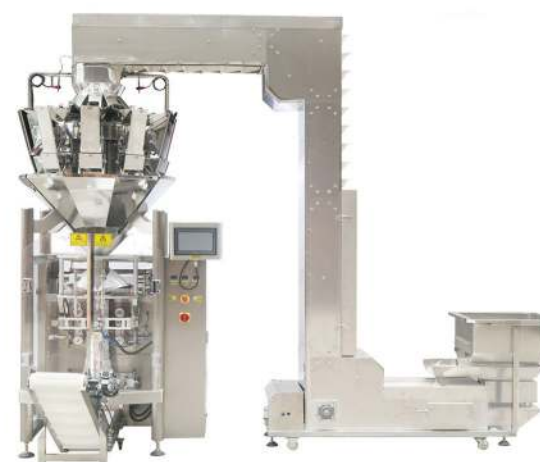
Best suitable to pack Rice, Sugar, Lentils, Grains, Candies, Chips, Dry fruits, Nuts, Coffee etc.

### Specification:

Model	TP-420G	TP-520G
Film Thickness	0.04-0.08mm	0.04-0.12mm
Bag Length	80-300mm	80-350mm
Bag Width	60-200mm	100-250mm
Film Roll Diameter	Max.320mm	Max.320mm
Packing Speed	5-60bag/min	5-60bag/min
Film Width	Max.420mm	Max.520mm
Measurement Range	150-1500ml	5-2000ml

### Combined Parts

10 heads weigher – 420 or 520 Vertical bagging machine- Z type bucket elevator - Vibration feeder - Finished product conveyor



## High Volume Multihead Weigher Granule Packaging Machines TP-720G



### FEATURES

- 14 Head combination weigher for high speed and bulk volume packing.
- Supporting platform for easy inspection and cleaning.
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.
- Finished bag styles – Back sealing pillow bag, Gusseted bag etc.



### Application – 1Kg to 5Kg

Best suitable to pack Rice, Sugar, Lentils, Grains, Chips, Dry fruits, Nuts, Coffee etc.

### Specification:

Packing speed	10-50 bag/min
Bag size	(L)100-420mm (W)110-350mm
Bag making mode	Pillow-type bag, standing bag Etc.
Range of measuring	5000ml(Maximum)
The maximum width of packing film	720mm
Air consumption	0.8Mpa300L/min
Main power/voltage	4KW/220V 50-60HZ
Dimension	(L)1780×(W)1350×(H)2000mm
Weight	800kg
Packing Material	POPP/CPP, POPP/VMCPPP,
Film thickness	0.04-0.10mm

### Combined Parts

14heads weigher – 720G vertical bagging machine- Z type bucket elevator - Vibration feeder - Finished product conveyor

Best solution to pack granules such as sugar, rice etc in bulk volumes fast and easy with highest accuracy and bagging efficiency.





## Automatic Powder filling and Bagging Machine TP-520P / TP-720P



### FEATURES

- High accuracy auger filling technology.
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.
- Finished bag styles – Back sealing pillow bag, Gusseted bag etc.

### Application – 50gms to 2Kg

Best applicable to pack powders such Spices powders, Flours, Milk powder, Dairy whitener, Coffee powder, Rice powder, Detergents etc.

A perfect choice for food packaging industry to improve the speed of production, reduce labor intensity and advance overall product package finish

### Specification:

Model	TP-520P	TP-720P
Film Thickness	0.04-0.12mm	0.04-0.12mm
Bag Length	80-350mm	100-500mm
Bag Width	100-250mm	180-350mm
Film Roll Diameter	Max.320mm	Max.320mm
Packing Speed	5-60bag/min	5-55bag/min
Film Width	Max.520mm	Max.720mm
Measurement Range	5-2000ml	4000ml

### Combined Parts

Auger filler – TP- 520P or TP-720P vertical bagging machine- Screw feeder – Out feed product conveyor



## High Capacity Volumetric Packing Machine TP-520VM



### FEATURES

- High speed Single Cup Volumetric filling technology.
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.
- Finished bag styles – Back sealing pillow bag, Gusseted bag etc.



### Application – 1Kg to 5Kg

An economical and high speed machine to pack high volume and easy flow granules such as Rice, Sugar, Peas, Wheat etc.

### Specification:

Filling	Volumetric cups
Bag style	Back sealed bags
Volume/bag	Packing volume can be adjusted
Film width	520mm max film width
Bag size	L 50-300mm, W 50-200mm
Packing speed	20-50 bags/min
	1kg rice, the packing speed is about 25-30 bags/min
	500g rice, the packing speed is about 30-35 bags/min
Control system	PLC+ touch screen
Voltage	AC, 380V, 50Hz/60Hz, 3P
Weight	G.W.1000kg
Power	3.5KW
Pneumatic	0.8Mpa, 0.5CBM/min



## Volumetric Cup Filler Machine TP 420VMC



### FEATURES

- Volumetric Cup Filling Technology.
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.
- Finished bag styles – Back sealing pillow bag, Gusseted bag etc.

### Application – 200gms to 1Kg

Most economical machine to pack free flowing granules such as Lentils, Rice, Coffee beans, Beans etc.



### Combined Parts

Cup filler – TP- 420P or TP-520P vertical bagging machine- Z type elevator - Out feed product conveyor



## Pre-formed Pouch Fill and Seal Machine TP-500FS



### Application – 200gms to 1Kg

Controlled by advanced PLC and Touch screen system, this machine does opening, filling, coding and sealing the pre-formed pouches automatically. A perfect solution to pack granules or powders in pre-formed pouches such as Zipper bags, Side sealing bags, Stand up pouches, etc.



Model Number  
Capacity(bag/min)

Package Accuracy  
Bag size(mm)  
Dosage  
Source voltage  
Packing material  
Net weight(kg)  
Overall dimensions

TP-500FS  
25-60bags/min for common bag  
8-25bags/min for zipper bag  
(The speed depends on the product status and filling weight))  
Errors±1%  
W:80~200mm L:100~300mm  
30 – 2000g depending on type of products  
220 and 380V/50-60HZ  
Paper /PE,PET/Foil/PE,PET/PE,NYLON/PE /PE etc.  
1400kgs  
1140\*1500\*1560mm



## Flat Bottom Bag Packing machine (Gusseted) – TP 420-620G



### FEATURES

- Can be attached with Multi head, Volumetric or Auger fillers.
- Maximum Film Width 420mm – 620mm
- PLC controlled interface for smooth and user friendly operation.
- Equipped with servo motor and optical tracking sensors for accuracy and speed.
- Completely automated weighing, filling, bagging and date printing.
- Equipped with high precision servo film pulling mechanism and Digital Temperature Control.
- Suitable for PE/Polyethylene, PE/Aluminum plated Pet/PE, PP, and other heat-sealing packaging materials.
- Available in SS304 and Mild steel finish.



### Application – 200gms to 1Kg

Best solution to pack both granule and powder products in flat bottom or gusseted packs.

## Compact Liquid Packing Machine TP-240 LP



### FEATURES

- Dosage: 5-20ml/bag
- Bag size (max bag width 80mm)
- Speed: 40-60 bags/min
- Machine body: Stainless steel
- Voltage: 220V, 50Hz
- Mitsubishi PLC + Touch screen
- Bag size: L 40-170mm; width 15-80mm
- Power: 1.5Kw
- Machine weight: N.W170kg; G.W200kg
- Dimension: L750mm, W700mm H1800mm

### Application

This machine can automatically measure liquid, form bags, fill, seal, cut, print codes and make easy tearing notches. Best applied to pack ketchup, fruit jam, oil, sauces, shampoo, shower gel etc.



## High Viscosity Liquid Packing Machine TP-420 VL



### Application – 1Kg to 5Kg

Best suitable to pack high viscosity liquid products such as Oil, Dosa batter, Idly batter etc in desired weight ranging from 1Kg to 5Kg.

## Sugar Stick Sachet Machine TP-50 SP



### FEATURES

- Volumetric Cup Filling Technology
- Dosage: 4-7g/bag
- Speed: 50-55 bags/min
- Machine body: Stainless steel
- Voltage: 220V, 50Hz
- Mitsubishi PLC + Touch screen
- Bag size: L 40-120mm; width 15-50mm
- Power: 1.5Kw
- Machine weight: N.W170kg; G.W200kg
- Air squeezing function
- Dimension: L750mm, W700mm H1700mm



### Application

This machine is mainly used to pack Sugar, Salt, Coffee powder, Coffee creamer etc in stick sachet.



## Compact Powder Packing Machine TP-50 PP



### FEATURES

- Auger filler with servo motor for precise weighing.
- Back sealed bags
- Mitsubishi PLC + Touch screen
- Measurement Range - 5 g to 50 g
- Bag size - Length 40-160, Width 50-100
- Capacity (Bags/Min) - 30 to 60 Pcs



### Application

Used for automatic packaging for all kinds of powder materials in chemical industry, food-stuff industry, such as spices, milk powder, legume powder, cosmetic powder, tea, etc

## 4 - 10 Head Bottle Filling, Capping and Labeling Machine TP-4H



### Application

This machine is mainly used for beverage or powder filling operations like Water, Juices, Oil, Milk, Granules, and Spices etc. For powder Auger filling head has to be attached. The machine can fill, cap and label both square bottles and round bottles automatically.

### Filling machine

Type	TP-4H
Filling heads	4 - 10 Heads
Speed	1500-2000bph for 350ml
Filling volume	200-2000ml customized
Power	2-3kw
Voltage	220V 1PH/380V 3PH customized
dimension	2000*1200*1800mm
weight	400kg

### Capping machine

Type	TP-4HC
Filling heads	1hd
Speed	2500bph for 350ml
Power	1-2kw
Capping diameter	20-80mm customized
Voltage	220V 1PH/380V 3PH
dimension	1580*850*1506mm
weight	280kg

## Liquid Cup Filing and Sealing Machine TP-4



### Model

Voltage (V/Hz)	220v AC / 50Hz
Heat sealing power	2500W
Filling range	100-500ml
Cup diameter	55-75mm
Sealing speed	3000-4000c/h
Filling Precision	±1%
Temperature range	0-400°C
Gas consumption	0.6 m3/min
Cup & film material	Preformed PP Cups
Machine material	Stainless Steel
Outline dimension	L3200*W550*H1400
Net weight	About 500kg

### Application

The best choice to pack beverages like Water, Juices, Yoghurt, Milk etc in cups. The machine automatically fills the liquid material in plastic cups and seals with either aluminum foil or plastic film. The machine also prints the date and batch code as per the customization. This machine can fill and pack 4 cups at a time.



## Horizontal Flow Wrapper Machine TP-450



### Application

The standard Flow wrapping machine with Rotary motion Sealing is the best option for high speed production and cost effective packaging, to pack the product with film in roll and 3 side sealed pillow pack. Widely used to pack Biscuits & Snacks, Candy & Confectionery, Wet Wipes / Tissue, Cutlery etc.



### Type

Film Width	TP-400 Max.400MM	TP-450 Max.450MM	TP-600 Max.600MM	TP-700 Max.700MM
Bag Length	150-400MM	150-450MM	160-500MM	180-600MM
Bag Width	50-180mm	50-180mm	50-280mm	100-330MM
Product Height	max.65mm	max.75mm	max.110mm	max.110mm
Packing Speed	30-150bag/min	30-150bag/min	20-150bag/min	20-130bag/min
Power	220V; 50/60HZ	220V; 50/60HZ	220V; 50/60HZ	220V; 50/60HZ
Machine Size(mm)	4020x770x1420	4020x820x1420	4020x970x1500	4030x1070x1500
Machine Weight	600kg	650kg	680kg	720kg



## Semi Automatic Filling Machines

Semi Automatic Powder Filling Machine TP-20 P



Semi Automatic Liquid / Paste Filling Machine TP -20 L



Semi Automatic Granule Filling with Linear Weigher TP - 20 W



Semi Automatic Granule Filling with Volumetric Cup TP - 20 C



## Semi-auto L-type Sealer TP-A450 and Shrink tunnel TP- BS450



### Application

TP-A450 semi-auto L-type sealer and shrink tunnel are suitable for packing boxes, toys, electronic items and so on. The two machines can shrink and pack the products with a layer of plastic film, which makes the packaging more attractive and firm.

### Specification

Model	TP450A	Model	TP-BS450
Voltage	220V 50-60HZ	Voltage	220-240V/50-60HZ
Heater power	1KW adjustable	Heater Power	9kW
Seal-cut time	0-3s	Conveyor speed	0-10m/min
Max sealing size(L*W)	500*450mm	Workroom size(L*W*H)	800*450*250mm
Max conveyor loading	8kg	Max conveyor loading	10kg
Packing size(L*W*H)	1470*820*970mm	Machine weight	100kg
Machine weight	95kg	Packing size	1310 x 720 x 880mm
Cutting film	POF,PVC,PP,PE	Shrink film	POF,PVC,PP

## Check Weigher



## Metal Detector





## Accessories

Z type Elevator



Screw Feeder



Stainless Steel Platform



Out feed Conveyor



Rotary Collection Table



## Sealing Machines

Continuous Vertical Band Sealer



Continuous Horizontal Band Sealer



Hand Impulse Sealer



Carton Erector



Carton Sealer



Carton Strapper



Tabletop Scale

## Perfection in precision

Platform Scale







# ENGINEERING INNOVATIONS

in food processing industry

## Food processing machines made simple

Omega Engineering is one of the leading manufacturers of milling and food processing machines in the United Arab Emirates. We are focused on our commitments to the customers in providing machines with functional design and the highest quality standards. With longstanding experience and expert knowledge, Omega Engineering is well placed to meet the requirements of both small companies and the large firms in the food processing and manufacturing industry.

Our manufacturing facility located in Ajman, United Arab Emirates, includes manufacturing and warehouse space that allows variety of jobs to be handled easily and simultaneously. We have in house mechanical and technical engineers for production and assembly of machines. All our products come with one year warranty. Our field service engineers, supported by the spare parts inventory, provide service and after sales support for all our products. As it is our commitment to build a machine that exemplifies your specific needs, Omega Engineering will also customize its machines according to your special requirements considering the space, power and output required.

We are pioneers in manufacturing Grinding Mills, Cleaning Machines, Blenders, Roasting Machines, Pulverisers, Hammer Mills, Conveyors & Elevators, Sautiniers and other food processing machines under the brand name "OMEGA", has many years of experience in developing, designing, and manufacturing its products. All of our machines are designed to offer optimum efficiency and cost effective performance and are then manufactured with the finest craftsmanship to ensure maximum stability and accuracy when operated.



### Coffee Grinder OM-25D



This single phase high speed grinding machine uses 1.5Hp high speed motor and steel grinding disc to grind the coffee beans in uniform size. The size of the powder can be easily adjusted using the rotary adjustment wheel.

- Light Weight
- High efficiency
- Simple to operate
- Less power consumption
- Output – 30 to 40 Kg per hour

### Horizontal Grinding Mill (DIAMANT BRAND)



The Horizontal mill models are available with DIAMANT millstones in the sizes 600, 800 and 950 mm and are suitable for grinding e.g. grains, peas, coffee, spices and other dry products. Supplied with the famous DIAMANT millstones the horizontal mill guarantees fine grinding and high output.

### Wet Grinder OM-25W



Best suitable for making paste or semi liquid items such as Peanut butter, Sesame paste etc. High quality stone grinding disc helps to grind sticky materials easily and efficiently.

### Mini Pulverizer (Multi Purpose Single Stage Mill) OM 412-1



Omega Mini Pulverizer is a multipurpose mill to grind all kinds of dry and sticky materials. Different meshes are added to attain various powder sizes. It can pulverize pulses and grains up to 250 microns, spices 350 microns. Best for Lentils & Grains

- Easy to operate
- Compact design
- Heavy and robust construction

### Vertical Grinding Mill (DIAMANT BRAND)



The genuine Denmark origin DIAMANT branded grinding mill uses the traditional yet effective grinding mechanism of high quality grinding stones. The Diamant vertical grinding mill is a result of more than 100 years of production experience and continuous product improvement. Today the mill is a modern, high quality product with outstanding performance. The mill is available with the famous DIAMANT millstones in 300, 400 and 500 mm sizes and is suitable for grinding of various kinds of grain, peas, coffee, sugar and spices to any degree of fineness.

### Mini Pulverizer (Multi Purpose Double Stage Mill) OM 412-2



This double stage mill is equipped with 2 chambers as the name suggest. The first chamber is the pre crushing unit and the second chamber is the fine grinding unit. Desired level of product fineness can be achieved with use of appropriate sieves. This machine is best applicable to grind hard nature spices like Turmeric, Black pepper and also widely used to grind Rice powder, Wheat etc.



### Multi Purpose Bi-Mill OM-412 BM



Bi-Mill is a modification of standard pulverizer where 2 machines are attached to a single frame to save space and ease of interchangeability. Both machines can be operated separately or at the same time. The desired machines can be set according to the customers required quantity of production.

### Hammer Mill OM-25HM



Hammer Mills are best used to achieve the highest production output. Hammer Mills are equipped with various rotating Hammer beater which works as shears when run at high speed to cut the items in the chamber. The size of the Hammer Mill Ranges from the basic 25HM model up to 36HM. The output ranges from 300Kg per hour up to 900Kg per hour depending up on the item and desired finesse. The machine has to be equipped with 30HP motor to attain the speed of production.

### Ribbon Blender OM-50RB



Ribbon blenders are mainly used to blend products of similar physical characteristics. It is widely used in spices plant, blending tea powders, chemical industries etc. Ribbon blenders are available in different capacities ranging from 25 Kg per hour to 3000 Kg per hour. Blenders can be fabricated in both Stainless Steel and Mild Steel as per customer's requirements.

### Pan Roaster OM-25URB



Pan Roaster is mainly used to roast or dry products of granule nature. The roasting pans are made of high quality Stainless Steel. LPG firing system is the main attachment in the roaster. This model is widely used to roast spices, lentils, rice, dry fruits, nuts and powders of various kinds. The capacity of the roaster ranges from 10 Kg to 100Kg per hour.

### Drum Roaster OM-15PLB



Drum roaster is ideal equipment for roasting and blending of snacks, chips and dry nuts. Products can be added one by one in each stages of operation. The roaster can be fabricated in Stainless Steel or Mild Steel as per requirement. The capacity ranges from 15Kg to 90 Kg per batch of production.

### Coffee Roaster OM-20PCR



Coffee Roaster is used to roast coffee beans batch by batch. LPG firing system attached for the burner to roast the beans. The coffee beans fed to the roasting chamber will be roasted and discharged to perforated cooling tray to cool the final roasted beans. The capacity of the machine ranges from 10Kg per batch up to 20 Kg per batch.

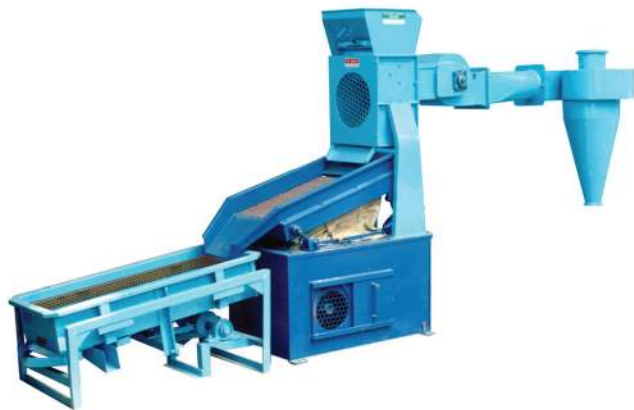


## Vibro Sifter OM-500PVS



Vibro Sifter is one of the easiest and convenient sifting machines available. Multiple decks loaded with different sizes of sieves are applied to achieve the right finesse and grade of product. This machine is widely used to sieve products like Spice powder, Rice Powder, Wheat Powder etc.

## De-Stoner 3 in 1 OM-PDS500



De - stoners are widely used to clean items like Rice, Pulses, Lentils, and Grains etc. It is a combination of three attachments namely

- Aspirator with cyclone separator
- De-Stoner
- Shaker

The output capacity ranges from 150Kg up to 1000 Kg per hour

## Rice Washing Machine OM-50PRS



This machine is used to remove the floating impurities from products such as Rice, Wheat, Ragi, Dry fruits etc. below 800 microns. The capacity ranges from 50Kg to 150kg per batch.

## Other Machineries



Sugarcane Juicer



Coconut Scraper



Dough Kneader



Plastic Shredder



Square Sifter



Vegetable Cutter

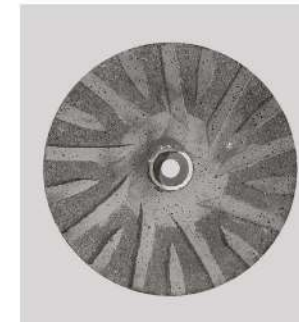


Waste Shredder



Food Silo

## Spare Parts



Mill Stone



Sieves



Air Lock



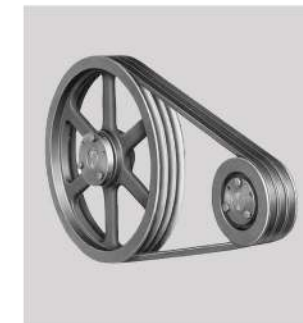
Vertical Gear Box



Belt Gear



Mill Springs



V Belt Pulley



Mill Shaft