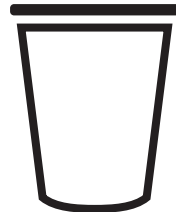
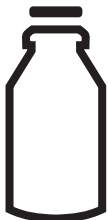


NIHIRA

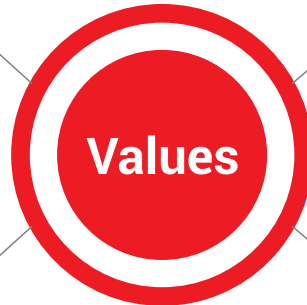
Packaging Machinery and Engineered Food Plants



ABOUT US

We respect our
own RESPONSIBILITY

We seek customer's
SUCCESS



We keep faith in
EMPLOYEE, SUPPLIER, CUSTOMERS

Winning culture
" IMPOSSIBLE is IMPOSSIBLE"



Young Team

NIHIRA Food Engineering LLP an engineering enterprise started in 2010. Aim to provide a localized solution in the area of food processing and packing machineries in the food processing sector. The company is located in the industrial area of Pune and has several advantages like availability of engineering infrastructure, best logistic connectivity, and skilled manpower.

In a very short time span, our manufacturing & R&D team have developed more than forty machine models in the area of confectionery manufacturing, culinary product like ketchup jam, sauce, condiment etc. Ready to serve beverages, syrups & crushes.

The processing plant includes Jam plant, Tomato Ketchup plant, mayonnaise plant, Beverages plant, Jelly Candy Plant. The range of machinery includes Cup Filling Machines, Spouted Pouch filling machines, filling and capping of all liquid and viscous foods, 3 in 1 RTS monoblock filling machine, cooler/warmer for RTS line, and in the area of confectionery we can supply jelly candy 2D & 3D depositors, lollipop depositors, Double layer depositors, syrup making, microfilm cooker, and flavour dozing.

Our customize automation in tissue cultures such as glass jar washing and drying media preparation and media packing give us the breakthrough in this sector. We serve all major tissue culture lab in India.

Our almost all major customers gave us repeat chance to serve them which certifies the quality of our machines. Nevertheless, we just don't supply machines we believe in providing the solution to our customers.

And we say "ENGINEERED TO AN EASY LIFE".

Why we

- The latest range of machinery
- Customization
- Technological expertise
- MADE in Nihira
- Always at customer side



CUP FILLING SEALING MACHINE

Introduction:

Our customized cup Filling and sealing machines for pre-made cups can handle most types of approved material. Our filling systems are customized and vary product to product, we provide various filling options for combination of product for single layer or multilayer, hot filling, cold filling and also product with particulate. Clean and ultra clean options can be incorporated as per the customer demand.

These machines, which are ideal for **high productions**, are designed to fulfill the needs of large companies that demand precision, reliability and speed.

The models can be **customized** with the **many options** that are available. **The In-line Fill Seal Series** of fillers / sealers have been designed to be **highly customizable**, according to the specific needs of companies that require **high production levels**.



Applications:

Flavor water like TATA Gluco Plus, Jam Jelly, Fruit Juice, Yogurt (Dahi), Butter milk, Shrikhand, Lassi Etc.,



Specifications:

Model	No of Lane	Type	Capacity	Size (L x W x H) in mm	Seal Form
NP-CF10AS	10	Inline - Linear	6000 - 8000 pcs/hr	6000 x 1300 x 2000	Roll form
NP-CF04AS	04	Inline - Linear	2500 - 3600 pcs/hr	3000 x 1100 x 1800	Precut Foil

SPOUT POUCH FILLING AND CAPPING MACHINE

We have introduced several model in filling and capping of premade spouted pouch to meet ever-changing demand for convenience food packaging in food industry.

NFE - 2LMS/MP

Linear 2 nozzle with 4 capping heads with option of pneumatic & servo filling. This model is very economical and versatile for startups and SME's. Also it is suitable where changeover of packing size and product is frequent.

The main operations includes Pouch Loading Manually, Filling by servo filler or pneumatic filler, Cap Placing Manual, Cap Screwing, Pouch Discharge

Applications:

Tomato ketchup, fruit juice, hand soap, cosmetic & herbal products, chemical, edible oil.

Our newly developed model for 5 ltr and 20 ltr pre-made spouted bags is widely used in edible oil industry.

NFE-24-4RS/NFE-32-4RS/NFE-48-6RS

These models are fully automatic Rotary spouted pouch filling and capping with customize stages of operation. All the range of models uses pre-made spouted pouches with center, corner spout as well as side gusset bags and is designed for hygienic and high quality production.

The main operation includes Auto or manual pouch feeding, Gas flushing / gusset opening / vacuuming, Servo filling of product, Spout neck cleaning, Cap placing auto, Cap screwing magnetic or servo, Pouch eject to out feed conveyor

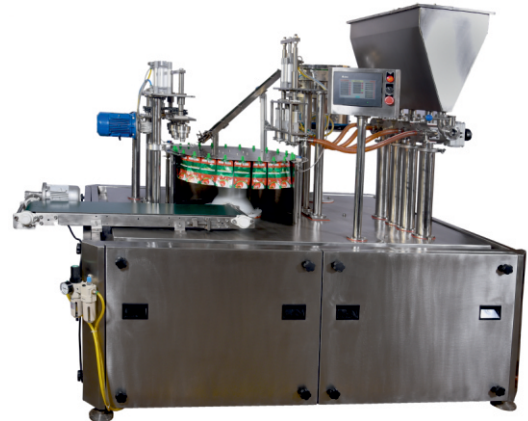
Applications:

These machines are suitable for wide variety of liquids and viscous products, such as tomato ketchup, fruit juices, chilli sauce, mayonnaise, edible oil, detergent, hand soap, cosmetics, chemicals, etc.

Optional: Magnetic torque capping or servo torque capping.

Specifications:

Model	NFE-24RS	NFE-32-4RS	NFE-48-6RS	NFE-2LMP/2LMS
Type	Rotary Servo	Rotary Servo	Rotary Servo	Linear Servo/Pneumatic
Filling/Capping Head	4	4	6	2
Filling Volume	100 - 1000ml 50 - 200ml	100 - 1000ml 50 - 200ml	100 - 1000ml 50 - 200ml	100-1000ml 50-200ml
Standard Capacity	1000 - 2400 Pcs/hr	1000 - 2400 Pcs/hr	1600 - 3600 Pcs/hr	500-900 Pcs/hr
Total Power	1.5 KW	2.5 KW	3.6 KW	2.0 KW
Size (L x W x H) in mm	2100 x 1500 x 2000	3900 x 2200 x 2000	4300 x 2900 x 2000	1900x900x2000
Pouch Feeding	Manual/Automatic	Automatic	Automatic	Manual



LINEAR LIQUID FILLING MACHINE FOR BOTTLE/JAR/CAN

Introduction:

The **NIHIRA NFE-L** Series of machine is for filling of all types of liquid foods and pharmaceutical /chemical. The machine is suitable for filling in Glass / PET / PP Bottles and Jars used in packing of foods .

Features:

- Easy and fast changeover for different size of bottles.
- Machine is constructed in SS 304.
- Mitsubishi / Schneider / Siemens / Delta HMI and PLC control system.
- No bottle no filling safety device.
- Volumetric Filling by piston pump driven by Pneumatic or Servo motor.
- In Servo Driven Filling volume can be adjusted with Touch Screen.
- Diving type nozzle with drip proof construction.

Options:

- Double jacket hopper for hot filling liquids.
- Hopper Agitator with variable speed drive.
- Safety Guards.
- Additional Conveyor.
- Liquid Feed Pump & Level sensor.



Applications:

Fruit syrups, fruit crushes, fruit jams, tomato ketchup, all type of chilly sauces, edible oil, mayonnaise, peanut butter, chocolate toppings, fruit fillings, dairy products, cosmetic products & chemicals.

Specifications:

Model	NFE-2LMP	NFE-2LMS	NFE-4LAS	NFE-6LAS
Type (Filler)	Manual Pneumatic	Manual Servo	Auto Inline Servo	Auto Inline Servo
Filling/Capping Head	2	2	4	6
Filling Volume	100 - 1000ml 50 - 200ml	100 - 1000ml 50 - 200ml	50-200ml 100-1000ml 500-3000ml	50-200ml 100-1000ml 500-3000ml
Standard Capacity	500 - 1000 Pcs/hr	500 - 1000 Pcs/hr	1200 - 2500 Pcs/hr	2000-3600 Pcs/hr
Total Power	0.25 KW, 220V, 50 Hz	1.25 KW, 220V, 50 Hz	2.6 KW, 415V, 50 Hz	3.6 KW, 415V, 50 Hz
Size (L x W x H) in mm	1000 x 900 x 2000	1000 x 900 x 2000	2200x1350x2000	2200x1350x2000
Air	12 cfm @ 7 bar	7 cfm @ 7 bar	10 cfm @ 7 bar	12 cfm @ 7 bar

NFE-160N SINGLE BAG HORIZONTAL AUTOMATIC PACKING MACHINE

Packing Speed	35 - 55 bags/min
Power	3KW
Bagging Size	100 - 160/120 - 300 (WxL)
Machine Size	1200x1480x1300 (WxLxH)
Voltage	380V or 220V
Weight	700Kg
Packaging Capacity	0.5 - 100ml
Air Consumption	8 cfm @ 7 bar
Applicable Material	All kind of heat-sealable laminated pouch.

Applications:

Suitable for packaging of granular and powder of seasoning pesticides and chemicals.



NFE-160M SINGLE BAG HORIZONTAL AUTOMATIC PACKING MACHINE

Packing Speed	35 - 55 bags/min
Mainmotor Power	3KW
Bagging Size	100 - 160/120 - 300 (WxL)
Machine Size	1200x1480x1300 (WxLxH)
Voltage	380V or 220V
Weight	700Kg
Packaging Capacity	0.5 - 100ml
Air Consumption	8 cfm @ 7 bar
Applicable Material	All kind of heat-sealable laminated pouch.

Applications:

Automatic filling and packing machine which is suitable for various liquid and sauce filling.



AUTOMATIC SPINDLE CAPPING MACHINE WITH CAP ELEVATOR

Capacity	0-80 Bottles per Minute
Bottle Height	40-460 mm
Cap Diameter	Φ20-120 mm
Air Pressure	8 kg/sq cm
Voltage	AC 220V 50HZ
Power Consumption	1.6 KW
Weight (Approx)	650 KW
Dimension	2000(L) *930(W) *2100(H) mm



Applications:

All types of glass/HDP/PD bottles with round/square shape.

Features:

- Tool free changeover for different bottle and cap sizes
- Fully adjustable from 40 mm to 460 high containers
- Heavy duty 304 Stainless steel welded C frame and anodised aluminium components.
- Fully adjustable for caps from 20 mm to 120 mm
- No change parts needed for a wide range of containers

BOTTLE COOLER/WARMER TUNNEL

Machine Function :

This machine can reduce the temperature of hot filling drinks to 36 -40, or increase the temperature of cold filling carbonic acid drinks to 36-40. It is used in PE bottles hot juice drinks and carbonic acid drinks hot filling production line.

Productivity: 5000-12000 bottles/hour, spray time: about 15-20 minutes.

Applications:

Juice PET bottles, glass bottles, cups & other wide verity of containers.



Model	NFE-06CMT	NFE-08CMT	NFE-10CMT
Capacity Base on 500 ml bottle (BPM)	5000	7500	9000
Speed of conveyor Belt, mm/min	250-300	300-400	400-500
Water re-circulation (lit/hr)	15000	25000	32000
Steam Pressure (warmer only) bar	3.5	3.5	3.5
Machine Dimension (LxWxH)	6000 x 1350 x 1850	8000 x 1750 x 1850	10000 x 1750 x 1850

160A GRAIN VERTICAL AUTO PACKAGING MACHINE

Item No:	NFE 160A
Measuring Range	50-300 ml
Max Film Width	325 mm
Bag Size	L: 30-200mm W: 50-150mm
Packing Speed	30-50 bags/min
Power	220V, 50HZ, 2 KW
Sealed Bags	3 Sides, 4 Sides
Weight	350 KW

Applications:

Suitable for packing puffed food, fragile materials, potato chips, crispy rice, apple flakes, fruit jelly etc.



160F POWDER PACKING MACHINE

Item No:	NFE 160F
Measuring Range	50-200 ML
Max Film Width	50-200 ML
Bag Size	L: 30-200mm W: 50-150mm
Packing Speed	30-70 bags/min
Power	220V, 50HZ, 2.4 KW
Sealed Bags	Back Sides
Weight	300 KG

Applications:

Suitable for those goods which not sticky, and good flowing property, such as: bean flour, wheat flour, pepper, feedstuff powder, milk powder etc.



160L LIQUID VERTICAL AUTO PACKAGING MACHINE

Item No:	NFE 160A
Measuring Range	50-300 ML
Max Film Width	325 MM
Bag Size	L: 30-200mm W: 50-150mm
Packing Speed	30-50 bags/min
Power	220V, 50HZ, 2 KW
Sealed Bags	3 Sides, 4 Sides
Weight	350 KG

Applications:

Suitable for packaging shampoo, shower gel, skin lotion, tooth paste, cosmetic, cream, mayonnaise, fruit jam, edible oil, soy sauce, vinegar, ketchup, spaghetti sauce, etc.



CONFECTIONERY



We provide confectionary plants for the following products:

- **JELLY CANDY** - 250 Kg/hr, 500Kg/hr, 1000Kg/hr plant
- **HARD BOILED CANDY** - 250 Kg/hr, 500 Kg/hr, 1000Kg/hr
- **LOLLIPOPS** - 250 Kg/hr, 500 Kg/hr, 1000Kg/hr

JELLY CANDY

NIHIRA supplies complete jelly candy production line for manufacture of Jelly mass by using pectin starch, gum arabic, agar agar or combination of them.

The use of real fruit puree along with vitamin in the formulation is easily possible. Our best innovation for manufacturing jelly candy without starch. Facilitate production cost reduction, better quality and appearance of candy, which also maintains high quality hygiene in the production area.

Our complete jelly plant solution include :

- Glucose Handling System.
- Automatic sugar syrup preparation without hand touch process.
- Vacuum skid - Which gives candy without burn flavour and improve texture.
- Servo depositors with latest push fit type of book moulds that contribute greatly in seamless production process.
- Auto drying system.
- High speed wrapping machine for candy
- Secondary packing of candy in:
 - 1. Pouches by numbers or weight.
 - 2. PET Jar by numbers or weight.



HARD BOILED CANDY / LOLLIPOPS

NFE 500/1000 - Continuous Vacuum Rotor Cooker

Applications:

Candy with milk, toffees, fruity masses, masses for deposited candies, transparent masses.

Features:

- Cooking of heat sensitive masses
- High heat transfer coefficient
- Short residence time
- Maintenance free
- Modular design (Single or two cooking system in parallel can be possible)
- Cooking under vacuum and over pressure possible. Continuous vacuum rotor cooker is advanced syrup cooker which has flash cooking and vacuum continuously. The mass is conveyed from bottom to top with even residence time.



NFE – 5V LABORATORY CANDY BATCH COOKER

Applications:

Versatile use in R&D Fillings, caramel, toffees, Pectin Jelly, Gummy Jelly, Hard candy etc.

Specifications:

Batch Size: 5Kg

MOC: SS304

Steam Consumption: 22kg/hr

Power: 5KW, 415 V, 3Phase, 50Hz

Weight: 350 Kg

Vacuum Pump: water ring type

Features:

- Very Compact in design
- Vacuum pump with scrappers offers wide range of cooking 5kg bath.
- Used in laboratory as well as small scale production
- Complete safety operation
- Easy to operate.



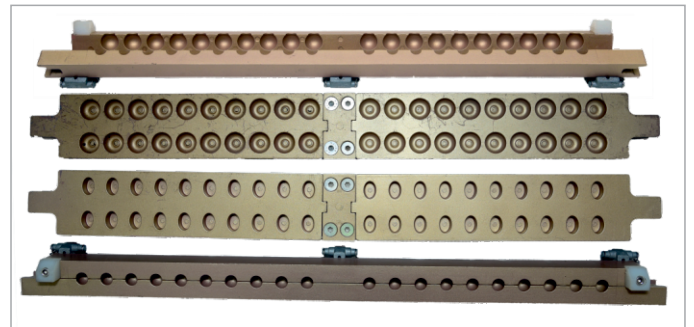
NFE 250S - JELLY DEPOSITOR



We at Nihira Food Pioneer in manufacturing of JELLY DEPOSITOR with several years Experience in PECTIN Jelly Depositing. We used only SERVO Driven Depositor with latest type of Moulds Like 2D or 3D. These are latest developed mould with tool less fitting on the chain Bracket. The depositor mainly consist of Depositing head, cooling tunnel and Demoulding. All these operations are control with electric control panel with 7.5" HMI.

This Depositor can produce high quality of jelly with single color , double color, two layer with 2D and 3D molds. The depositor has several feature over traditional depositor

- Less than 1 % wastage
- Special Engineering plastic chain guide thereby chain can last longer
- Machine is heavy duty and maintenance free
- Refrigeration system is accommodated within cooling tunnel so it is very compact design
- Easy to adjust from the HMI
- Easy demolding
- Less manpower is needed.



Model	NFE 250	NFE 500
Capacity (4 G Candy)	250 KG/h	500 KG/h
Power Consumption (Depositor)	17 KW	19 KW
Compressed Air Consumption	12 CFM	17 CFM
Compressed Air Pressure	8 BAR	8 BAR
Water Consumption	400 L/h	400 L/h
Size (L*W*H)	13500*2000*2200MM	13500*2500*2200MM

DOUBLE LAYER HARD CANDY DEPOSITOR AND LOLLIPOP DEPOSITOR



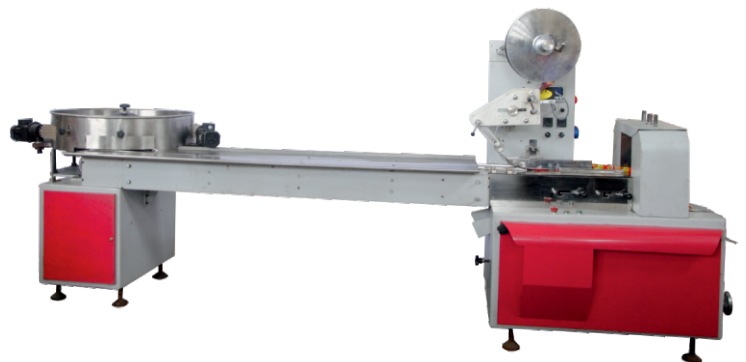
NFE series double layers candy depositing production line is flexible and convenient equipment that design for double layers hard candy product speciality. In this depositor system it is possible to deposit two different flavour in two distinct layers. NFE series double depositor gives high productivity convertible and easy fixing moulds.

Specifications:

Model	NFE 300	NFE 500
Capacity (5 G Candy)	300 KG/h	500 KG/h
Power Consumption (Cooker)	16 KW	23 KW
Power Consumption (Depositor)	17 KW	19 KW
Compressed Air Consumption	0.5 m ³ /min	0.5 m ³ /min

NFE-800C/200L- HIGH SPEED AUTOMATIC PILLOW TYPE CANDY PACKING MACHINE

This Machine can pack different shape such as rectangle, square, ellipse, round candies, etc, also can pack Jelly, Candy, Hard boiled candy, Ball lollipops.



Model	NFE 800 C	NFE 200 L
Application	Jelly Candy, Hard Candy	Lollipop
Capacity	500 Pcs/min for Jelly 800 Pcs/min for Hard Candy	200 Pcs/min
Packing Size	15 mm- 20mm	20 mm- 30mm
Power	3.5 KW 220 V, 50 Hz	3.5 KW 220 V, 50 Hz
Total Weight	900 KG	900 KG
Packing Length	40 mm-80 mm	95 mm-120 mm

COMPLETE AUTOMATED VACUUM FRUIT JAM PLANT

Capacity - 500 kg/hr, 1000 Kg/hr, 2000 Kg/hr.

NIHIRA's last 20 years cooked expertise will give right solution to your needs in manufacturing of Jam. We manufacture turnkey jam plant having capacity 500Kg/hr to 2MT/hr with no human touch, all process like syrup making, weighing of syrup and fruit puree, transferring, vacuuming, cooking, final brix measurement all set on touch screen panel. The final product will have excellent organoleptic qualities, such as color, texture, aromas, etc.



COMPLETE AUTOMATED TOMATO KETCHUP PLANT

Capacity - 500 kg/hr, 1000 Kg/hr, 1500Kg/hr, 2000 Kg/hr.

NIHIRA manufacture fully customised to match customer recipe and as per the stringent International protocols and requirement.

Our solutions to manufacture wide range of Ketchup and vegetable sauces from tomato paste are unique and modular.

These modular plant having capacities of 500Kg/hr, 1000Kg/hr, 1500Kg/hr & 2000Kg/hr. The equipment consists of, tomato paste handling, auto weighing and dozing of all ingredients like syrup, tomato paste, vinegar, spices, brine, etc. The blending, heating, transferring, deaeration, pasteurisation process are all continuous and controlled.



MAYONNAISE MAKING PLANT

Mayonnaise is an emulsion of oil in water phase, manufacturing process need precise context of dozing of various ingredients and right kind of homogenisation.

Model	NFE 100	NFE 200
Capacity/Batch	100 KG	200 KG
Power KW	20	28
Weight	1100 KG	1400 KG
Dimension	2200x1500x2000	2500x1000x2100

Features:

- Precise and effective homogenisation.
- Short batch time
- Maximum yield.
- Simple in operation
- Process parameters are set on touch screen
- CIP Compatible



BEVERAGE PROCESSING AND BOTTLING LINES

NIHIRA acquired substantial expertise in the area of nonalcoholic beverages such as fruit juices and carbonated beverages.

We offer customized lines or our standard modular lines such as 500 Ltr/hr, 1000 Ltr/hr, 2000 Ltr/hr with complete end to end solution. Our special expertise in project engineering provide added advantage to our customer in setting of their modern RTS plant, incorporating international food safety standards, right at design phase.



SUGAR SYRUP PREPARATION



BLENDING AND HOMOGENISER



PASTEURISER



CIP

NFE SERIES 3 IN 1 HOT JUICE FILLING LINES

NIHIRA NFE Series of machine used in HOT filling of juice beverages with 3 in 1 Rinsing - Filling and capping of PET Bottles.



Features:

- Air in feed conveyor.
- A Easy and smooth in feed star wheel. We also provide neck held technology for bottles in feed star wheel.
- Rinsing is completely stainless steel, robust and durable.
- It won't touch screw part of bottle which minimises contaminating.
- Direct connection between pasteuriser and mono block, complete wash down system and CIP can be connected directly to machine.
- Filler having special nozzles for accurate filling.
- Caps are fed by caps elevator which gives uninterrupted capping operation.
- Special and long lasting magnetic tool is used to provide equal torque and easy settling.

Specifications:

Model	NFE -16-12-6	NFE-18-18-6	NFE-24-24-8
Capacity Ref. 500 ml BPH	4000	6000	8000
Washing Head	16	18	24
Filling Head	12	18	24
Capping Head	6	6	8
Bottle Size	50-60 mm 150-300 mm ht	50-60 mm 150-300 mm ht	50-60 mm 150-300 mm ht
Power KW	3.5	4	5.6
Dimensions	2350x1700x2300	2500x1900x2300	4200x2300x2300
Weight	2500 KG	3000 KG	4000KG

MODIFIED ATMOSPHERE (MAP) TRAY SEALER

Modified Atmosphere packaging (MAP) as packing system which extends self life of fresh food products. The technology substitutes air inside the package with mixture of gases (CO₂, N₂ O₂). NFE 300 & NFE 500 Series of machine includes following models.

NFE 300 VGS (Vacuum + Gas + Sealing) - Tray with product has to be placed in mould, then packing cycle starts first vacuum is created in the tray by vacuum pump and then gas mixture (N₂+CO₂) has injected into tray, then tray is sealed by special film and the film is cutting desired shape, the mould is then automatically come out and trays are pop up to easy removal.

NFE 300 GS (Gas + Sealing) - This type of tray sealer operations like gas (N₂ normally or N₂ + O₂) flush the tray and then trays are sealed. Tray Material - C-PET, A-PET, Polypropylene , PUC Lidding material - Co-extended and laminated polyester films and Al foils.

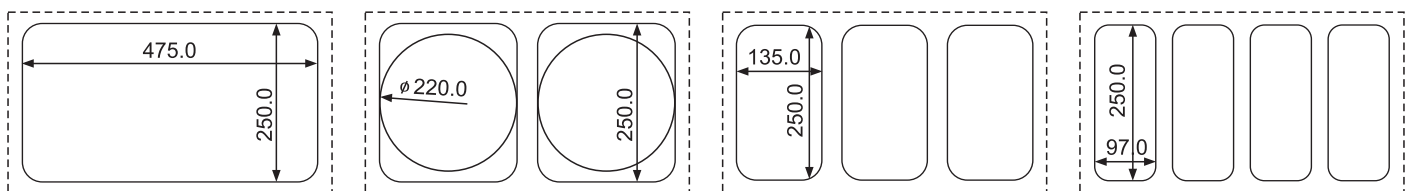
NFE 500 VGS Series Modified Atmosphere Tray Sealer - This type of tray sealer is inline and used to put tray on to machine conveyor, conveyor carries tray to enter into machine mould, the operations like Vacuum + gas + sealing performs in sequence and then these trays are carried forward.

Applications:

Pomegranate arils, fresh cut salads, cut vegetables, processed food, breads, sweets and dairy products.

Specifications:

Model	NFE -300VGS	NFE-300GS	NFE-500VGS
MAP Tray Dimension (mm)	475x250x100	475x200x100	475x200x100
Packing Cycle/min	4-6	8-10	4-8
Power	3 KW/220V/50Hz	2 KW/220V/50Hz	5.2 KW/220V/50Hz
Air Required	5 CFM @7 bar	5 CFM @7 bar	8 CFM @7 bar
Vaccum Pump (m ³ /hr)	40	-	60
Machine Weight (Kg)	300	250	1000
Machine Dimensions	800x700x1500	800x700x1500	4000x1050x1 500



The above dimensions are of standard machine. We can custom built the machine as per the requirement.





Complete Turnkey Projects for Fruit Jam Tomato Ketchup/sauces and Fruit Juices

OUR CLIENTELE



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