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## Experience Bottling & Packaging Product Catalogue **2016**

### Office

C-163, PHASE-II  
INDUSTRIAL AREA,  
MAYAPURI,  
NEW DELHI-110064

### Unit I

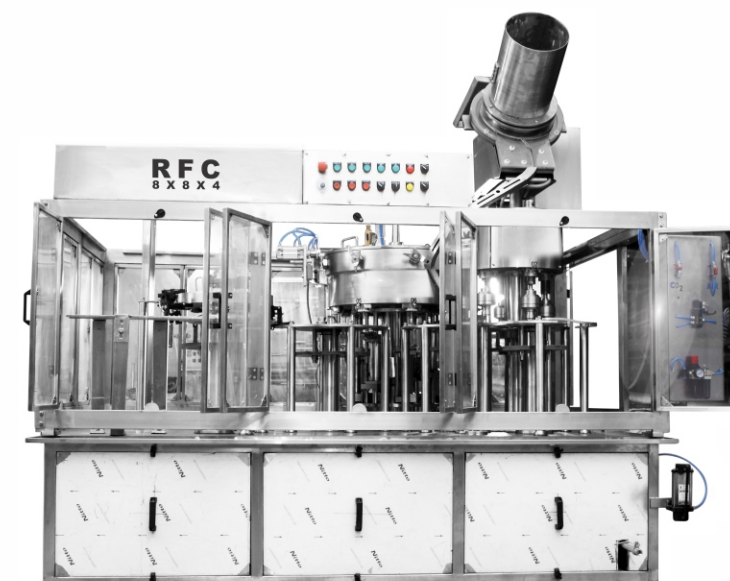
PLOT NO. 3,  
GALI NO 8, INDUSTRIAL AREA,  
KADIPUR, GURGAON-122001,  
HARYANA

### Unit I

PLOT NO. 5, GALI NO. 8,  
LANE 2, INDUSTRIAL AREA,  
KADIPUR, GURGAON-122001,  
HARYANA

**Let's** Speak +91-11-45141330  
Mail [info@jpengineers.in](mailto:info@jpengineers.in), [jpengg2001@gmail.com](mailto:jpengg2001@gmail.com)

*Note: due to constant upgradation of technology, the specifications and design are subject to change without prior notice.*





**J**P Engineers came into existence by Mr. Pratap Kumar Singh in 2001 as manufacturers of Water Treatment plants, bottling and packaging machinery for Soft Drink, Brewery, Natural Fruit Juices, Packaged Drinking Water, Pharmaceutical, Mustard Oil and Dairy Industries.

Since its establishment, JP Engineers has developed, designed, manufactured and installed complete bottling plants for Soft Drinks, Mineral / Packaged Drinking Water, Natural Fruit Juice, High Viscosity Liquids and Brewery. To ensure quality, all critical components are manufactured in-house. To improve constantly and maintain technological superiority are the primary goals of JP Engineers.

The company has well established facilities and expertise to support projects and provide a wide range of engineering and construction services for clients. It has three equipped Manufacturing units at Gurgaon, Haryana.

JP Engineers possesses a highly skilled, professionals and competent team of technocrats having decades of experience in relevant industry. JP Engineers have the capability to conceptualize, design and set-up integrated plants and machineries. Due to their renowned features such as durability, superior quality, excellent performance and easy maintenance, these machineries are widely appreciated in the Domestic and international market segments. Being a client centric organization, it is our aim to understand the diverse needs of our clients and offer suitable range of products. Thus, we have the ability to gain the goodwill and confidence of our client base spread across the national and international arena.

## TECHNOLOGIES & PRODUCTION LINES

The Design & Production of machines are implemented by highly qualified & experienced engineers. We use CAD / CAM based design & drawing for the manufacturing & fabrication for complete installation of plants like Mineral Water, Soft Drinks, Fruit Juice, Mustard Oil & viscus products like Syrups & Oil etc. Our Company possess ability to supply you with hi-tech turnkey solutions.

## OUR RESOURCES



### Water Treatment

- Ultra Filtration / RO System
- Juice Plants
- Soda / Soft Drink Plants

### Filling Machines

- Trio block Automatic Filling (Gravity, Counter Pressure, Viscus & Vacuum)

### Process Equipment's & Tanks

- Syrup Room Equipment
- Filter Press
- Mixing Tank
- Homogenizer
- Pasteurizer
- CIP System
- Intermix
- Carbonators

### Jar 20 Liters

- Fully Automatic Jar Washer
- Semi-Automatic Jar Washer
- Jar Scrubber
- Automatic Jar Filling Machine Rotary / Linear

### Labeling Machine

- Shrink Sleeve Applicator
- Shrink Wrapping Machine
- BOPP Labeling Machine

### Warmer & Coolers

### Automatic Blow Moulding Machine

## WHY JP ENGINEERS ?

- JP Engineers product, service and support are renowned for top quality, technology & reliability.
- State of art manufacturing facilities and machinery
- Efficient Technical Support for use of JP Engineers products.
- Strict delivery as per the time lines of the client.
- JP Engineers is producing super products with Zero defect concept.



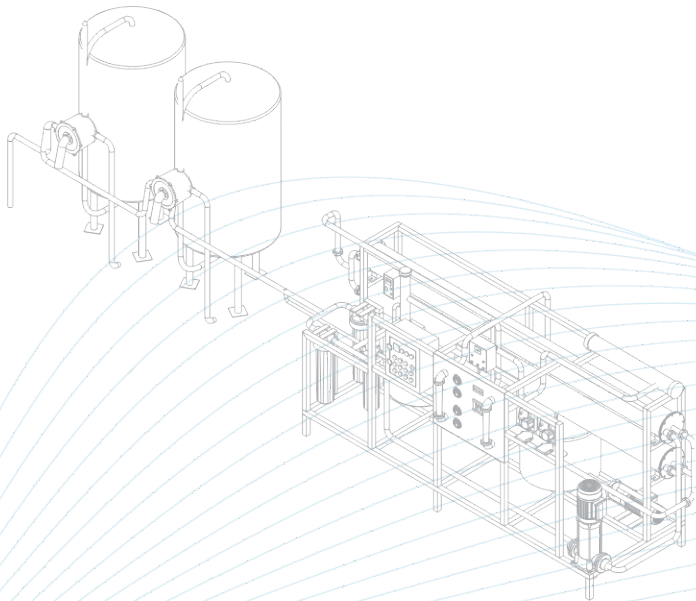


► Water Treatment Plants

Ultra Filtration &  
Reverse Osmosis System

The Product is exclusive  
design & engineered for

- Pakaged Drinking Water Plant
- Juice Plant
- Soda Plant
- Soft Drink Plant
- Natural Water Plant etc...



**Reverse Osmosis (RO)** is a process of physical separation of dissolved solids and minerals present in water. This technology uses the principle of osmosis, wherein the mineral concentration of raw water is reduced by applying high pressure through a semi-permeable membrane, we are manufacturing the RO Plants with Post Treatment such as, **Ozonation & UV** With the capacity of **1000 LPH up to 25000 LPH** as per requirement of our clients.



► Filling Machines



Automatic Rinsing, Filling & Capping Machine  
(Gravity, Counter Pressure, Viscus & Vacuum)

The term TRIO BLOCK is used for a combination of Rinser, Filler & Capper Equipment. It incorporates Rinsing, any type of Filling & Capping system. Various combinations are possible depending upon the type of product, container, capper, & capacity required. Neck superstar is an innovative technology of Rinsing, Filling, Capping & bottle handling of international standard. It allows handling without equipment change over, for bottles with different sizes & diameters.

Salient Features of Filling Machine:

- "Unique designs for pet handling.
- Change parts required except at out feed.
- Height adjustments required for different pack sizes.
- No physical contact between bottle & washing nozzles.
- Adjustable vent tube for different fill height.
- Collapsible capping head.
- Adjustable permanent magnet torque head.
- Non lubricating gear train, bushes & capper turret.

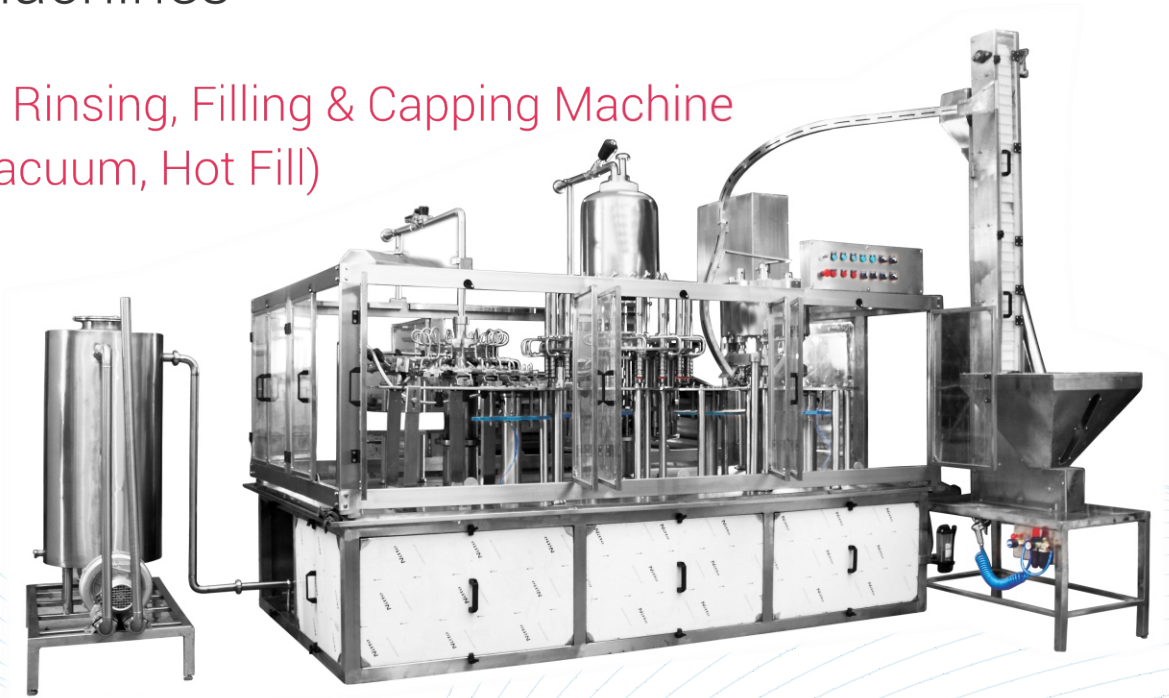


Application	For CARBONATED SOFT DRINK & SODA (COUNTER PRESSURE FILLING)					
Configuration	8 x 8 x 4	12 x 12 x 6	18 x 18 x 8	24 x 24 x 8	30 x 30 x 10	40 x 40 x 12
Capacity for 600 ML	30 BPM	60 BPM	90 BPM	120 BPM	150 BPM	250 BPM



# ► Filling Machines

## Automatic Rinsing, Filling & Capping Machine (Gravity, Vacuum, Hot Fill)



Application	For PACKAGED DRINKING WATER & JUICES (GRAVITY, VACCUM, HOT FILL)					
Configuration	8 x 8 x 4	12 x 12 x 6	18 x 18 x 8	24 x 24 x 8	30 x 30 x 10	40 x 40 x 12
Capacity for 1000 ML	30 BPM	60 BPM	90 BPM	120 BPM	150 BPM	250 BPM

## Automatic Filling & Capping Machine (Viscus, Piston Filling)

For MUSTARD OIL EDIBLE OIL (VISCUS)	
Configuration	Capacity 1000 ML
8 x 4	40 BPM
12 x 6	60 BPM
18 x 8	90 BPM
24 x 8	120 BPM
30 x 10	150 BPM
40 x 12	250 BPM



Filling Machines ◀

# ► Process Equipments' and Tank



## Syrup Room Equipment

We offer a complete range of Syrup Room Equipments set up for Natural juices (RTS RTD) and Synthetic juice plants. These equipment are available in different capacities and specifications, with or without carbonation. Moreover, these are fabricated as per the set industry standards using cutting edge production techniques and premium grade raw materials, and we also conduct various essential quality tests on the machines before their final delivery.



## Storage Tank / Product Tank / Mixing Tank Agitator Tank

We facilitated with the state of art infrastructure for manufacturing of storage Tanks, Mixing Tanks Agitator & Radial jet mixing in different Capacity & Application.



## Filter press

**Application:** Horizontal Plate Filter Press is used by several industries for a variety of applications. Main Application of the filter press is to filter solids from liquids.

**Plates** : 12,18,22 & 40" Dia.



## ▶ Process Equipments' and Tank

### Pasteurizer

Automatic plate type pasteurizer are designed for heating, pasteurization, holding and cooling of liquids like milk, juice and other beverages to prolong their shelf life.

The equipment is skid mounted and incorporates balance tank, water heating system, pasteurizer plate-pack, holding tubes, cooling section. The system is controlled through PID, flow pneumatic diversion valve and steam flow control valve.

Capacity: From 200 L/hr to 10000 L/hr.

#### Salient Features

- Plates made of SS316, highly acid and corrosion resistant
- Economical, compact, flexible unit compared to conventional heat exchanger.
- High regeneration efficiency up to 90%
- Low hold-up liquid volume thereby giving quick process time.
- Ease of maintenance



### Homogenizer



Homogenizers are used to blend mutually related substances, to form a constant of different insoluble phase to attain a suspension or emulsion. These homogenizers are driven with the help of high pressure pump along with a special excenter, used in various industries such as Food, Pharmaceuticals, Cosmetics, Bio & Environmental Technology

#### Salient Features

- Splash lubrication system with patented integrated oil cooling system
- Stainless steel compression head of high mechanical and corrosion resistance
- Low noise level
- Capacity of 3000 L/H
- Easy maintenance
- Direct transmission system with pulleys & belts
- Overpressure discharge valve

## CIP System

The full form of CIP System is cleaning in Place System. CIP system is used to clean product handling equipment's, interconnecting pipes & fittings to maintain hygiene & sanitary standards in place.

Depending upon the number of cleaning stages. it can be classified as Tank CIP System.

#### Salient Features:

- Semi Automatic
- Wall System
- Display for Main Machine Interface
- Skid mounted modules available
- Heating through STEAM
- Different temperature maintained using steam control valves online



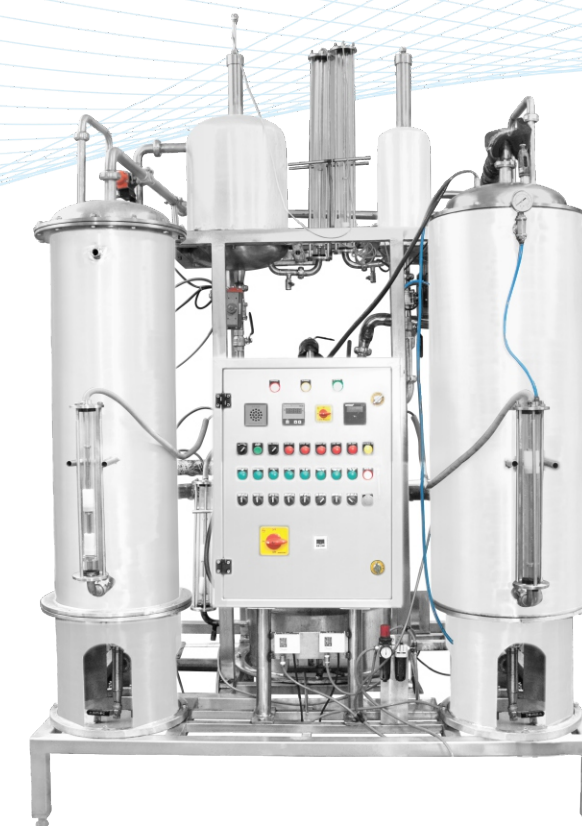
## Intermix

Intermix units are Designed for the production of Soft drinks containing Carbon Dioxide. In this process, water is de-aerated under a high vacuum and then carbonated with CO2 and doses in any desired proportion with syrup. The finished product is then carefully fed by adjustable CO2 overpressure to the bottle filler.

The Main advantage of the process lies in the mixing of syrup with water already containing Carbon Dioxide, by this means the carbonation vessel remains free of syrup, washing out can be done particularly quickly and effectively.

The wide range of models for hourly outputs from 1,000 to 6,000 liters of finished product ensures that there is an INTERMIX to meet practically all requirement.

The CO2 is mixed in proper proportion though and electro-pneumatically controlled system based on temperature of product and flow of CO2. Thus maintaining the gas volume in the final product. After production is finished the System is cleaned / Sterilized through the product pipes.





## ► Process Equipments' and Tank

### Carbonators

**Application** : Widely used for Soda & Soft Drink  
**Washing Station** : 4, 8, 12  
**Washing Zone** : 2, 4, 6  
**Construction** : SS 304  
**Air Requirement** :  
**Capacity** : 1000 LPH to 3,000 LPH

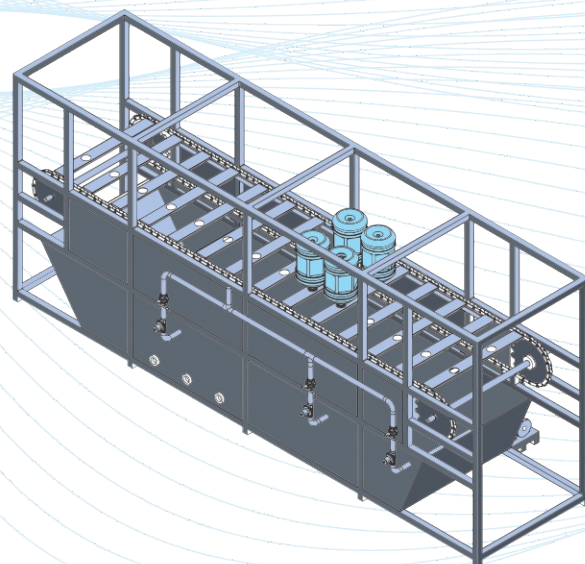


Process Equipments' and Tank ◀

## ► Jar 20 Ltrs.

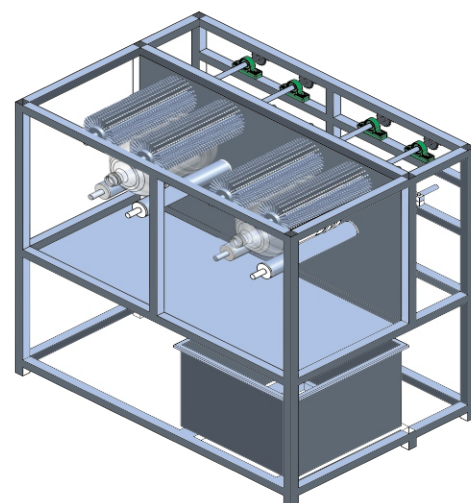
### Jar Washer Fully Automatic / Semi Automatic

**Application** : Washing Drinking Water  
Jars - 20 Ltrs.  
**Washing Station** : 4, 8, 12  
**Washing Zone** : 2, 4, 6  
**Construction** : SS 304  
**Air Requirement** : 10 CFM at 5 KG  
**Capacity** : 2-10 Jar Per Minute



### Jar Scrubber

**Application** : Washing & Brushing  
Mineral Water Jars of 20 Ltrs.  
**Washing Station** : 2  
**Washing Zone** : 2  
**Construction** : SS 304  
**Air Requirement** : 1 CFM at 5 KG  
**Capacity** : 2-4 Jar Per Minute



## ► Jar 20 Ltrs.

### Fully Automatic 20 Ltr. Jar Washing, Capping and Filling Machine (Rotary / Linear)

The entire body and parts is made up of SS 304 sheets channels, angles and grids. The gears, sprockets, carrier chains and drive arrangements are made of MS and Alloys steel, duly painted/ power coated. The guide and brackets of Jar Handling system are made up of nylon and UHMW HDPE. The machine is driven by variable frequency main drive and gear - box. The machine covered with stainless steel covers at the bottom/top and upper sides are covered with Stainless frame and transparent acrylic steel.

The jar carrying brackets are mounted on the steel chain / roller system, which is moved by the drive mechanism of the machine.

**Application** : Widely used for Packaged Drinking Water and Natural Mineral Water  
**Construction** : SS 304  
**Capacity** : 150 JPH to 2000 JPH



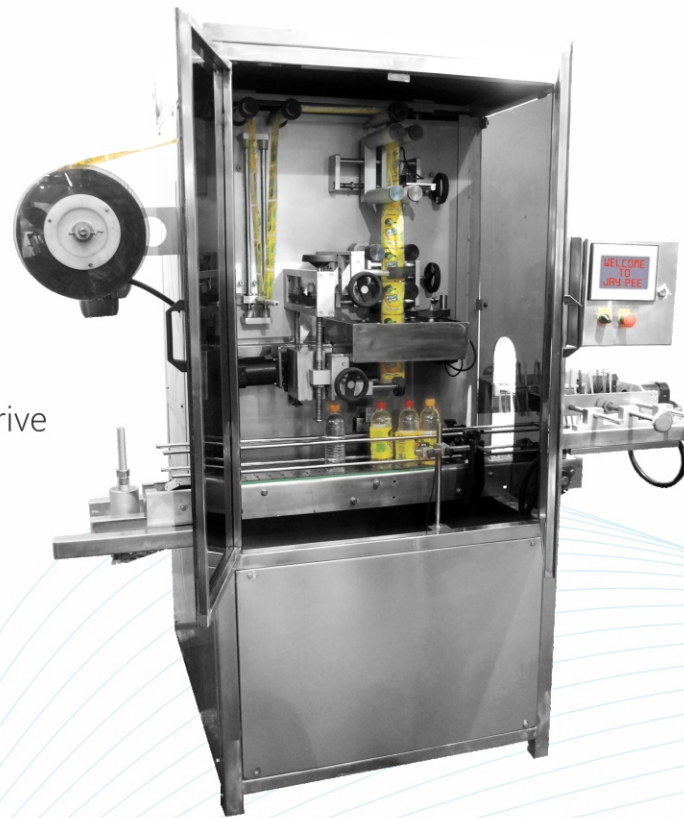
Jar 20 Ltrs. ◀



## ► Labeling Machine

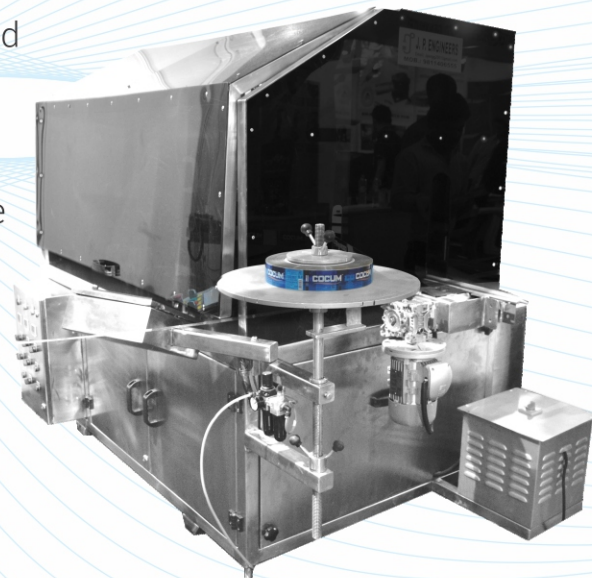
### Shrink Sleeve Applicator

Application	: labeling round bottles of Packaged drinking water & RTS Juice
Drive Label	: Drive Label feed using servo drive
Construction	: MS duly Cladded with SS 304 Contact parts are made out SS 304 and Aluminum
Capacity	: 60-250 bottles per minute.



### BOPP Labeling Machine

Application	: labeling round bottles of packaged drinking water & soft drink and mustard oil using BOPP labels.
Drive Label	: Drive Label feed using servo drive
Construction	: MS duly Cladded with SS 304 Contact parts are made out SS 304 and Aluminum
Air Requirement	: 10 CFM at 8 KG
Capacity	: 60-250 bottles per minute.



### Shrink Wrapping Machine Automatic / Semi Automatic

Chamber Size	: 48" x 22" x 16"
Machine Size	: 84" x 30" x 58"
Power	: 3Ph+N
Speed	: Variable
Blower	: Double
System	: Digital PLC System



Labeling Machine ◀

## ► Warmer & Coolers

### Warmer & Coolers

Application	: used for normalizing the temperature of Filling Bottle
Warming Process	: 2
Cooling Process	: 4
Temperature	: Interlocking of all Zones.
Construction	: SS 304
Air Requirement	: 10 CFM at 8 KG
Capacity	: 60-250 bottles per minute.

Warmer & Cooler Widely used for normalizing the temperature of Filling Bottle, used for Soft Drink Filling Process and the Cooler suitable for Hot Juices Filling Process.

Note: Cooling or warming zone can be customized as per customer requirement  
Different principle of cooling & warming can be used depending upon products.



Warmer & Cooler ▶



## ► Blow Molding Machine

### Automatic Blow Molding Machine

Model Name	JP 500 2B	JP 1000 2B	JP 2000 2B	JP 5000 1B
Product Volume	10 ml - 500 ml	200 ml - 1 ltr	500 ml - 2 ltr	2 ltr - 5 ltr
Production Capacity BPH	2500 - 2800	1900 - 2400	1700 - 2000	600 - 800
Working Air Pressure Kg/cm <sup>2</sup>	6 - 8	6 - 8	6 - 8	8
Blowing Air Pressure Kg/cm <sup>2</sup>	12	15	22	30
Clamping Force (Locking) Ton	12	12	20	30
Air Consumption CFM	50	60	70	70
Tie Bar Distance mm	285 mm	285 mm	350 mm	450 mm
Max Mould Opeing Strock	100 mm	100 mm	150 mm	250 mm
Mould Cavity No	2	2	2	1
Mould Thickness mm	140	140	180	250
Neck Diameter	19 / 30 mm	19 / 30 mm	19 / 30 mm	46/ 120 mm
Operating	Pneumatic	Pneumatic	Pneumatic	Pneumatic
Heater	15 kw	24 kw	24 kw	24 kw
Machine Weight	1500 kg	1700 kg	2000 kg	2500 kg
Chiller TR	3	3	5	5
Length mm	2500 mm	2800 mm	2800 mm	3000 mm
Height mm	2200 mm	2500 mm	3000 mm	3500 mm
Width mm	1600 mm	1800 mm	2000 mm	2200 mm



“trust and respect are the two important accomplishments we have earned all through our journey”



Bisleri



Campa Cola



EUREKA FORBES  
Your friend for life



Hello (Packaged Drinking Water)

KINGFISHER

Mango  
fresh

