

DUNAMIS MACHINES INTERNATIONAL PVT. LTD.

— FUTURE TECHNOLOGY FOR NEXT GENERATION —



**Delivering Advanced Technology with
high productivity at lower Production cost**

Complete Machinery Solution For Food & Beverages Industries

1 We are one of the leading manufacturers, exporters and suppliers of wide range of PET Blow Moulding Machines, Jar Blowing Machines, Filling Machines, Labelling Machines, Shrink Wrapping Machines for the application of Water, Juice, Oil, Soda, Goli Soda (Goti/Banta). Our machines are highly appreciated by our clients for their extraordinary features such as Optimum Performance, High Productivity, Durability, Low Maintenance and Affordable Price.

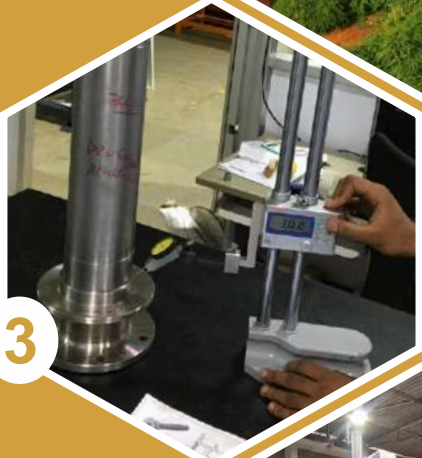
2 We have an advanced and well-equipped infrastructure, which is spread over 25,000 square feet and leads us towards the effective production of our range with enhanced productivity. We have set up a state-of-the-art infrastructure facility in Chennai (India). Our facility is outfitted with cutting-edge machinery & equipment and fulfills the requirements of an ultra-modern production setup enabling fast, cost-effective, and maximum production of our range. To enable the complete operation in an organized manner, we have employed a dexterous team of technocrats, who are highly skillful & experts in their respective domain. We have adopted the most advanced technologies and production methods for making our range world-class and have equipped them with advanced features.

3 Our quality engineers conduct stringent tests at all stages of production in order to ensure the delivery of best products to our customers. Furthermore we are ISO 9001-2015 certified, our expert team of professionals comprises people with exemplary background and experience in this domain. Their hands-on experience in this industry promises expertise in using highly sophisticated Machines and their technologies. Our strict adherence to international standards of quality has helped us in garnering a widespread clientele, who are spread across the global market. In addition, our logistics' staff guarantee timely delivery of our products to our clients.

4 Big things come in small packages by our simple Innovative design, by ultimate energy saving and use of advanced technologies. Incorporating all special features, we have paved the path for you to earn more. The uniqueness of our machines can be easily differentiated by the following features.

- The unique technology of book type mould closing method in our blowing machines reduces power consumption, increases productivity and the blowing cost is reduced to only 7 paise per bottle.
- The special design of rinsing distribution, high speed & reliable filling valves and easily adjustable torque control feature for capping makes our filling machines unique and trouble free operation with higher productivity & low power consumption.
- Focusing on every nook and cranny our Labelling Machine, is transformed into ultra compact one with minimum power consumption and space saving without compromising quality.
- With the help of latest technologies and the easily adjustable guides, our Shrink Wrapping Machine gives the assurance of perfect product alignment & rigidity for the final package.

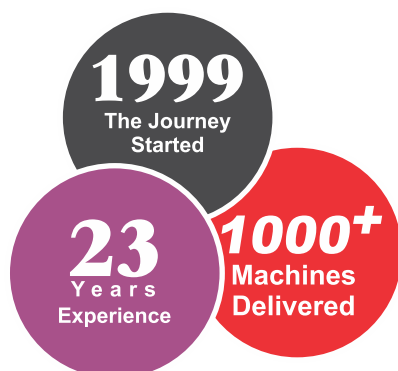
5 We have 23 + years of Experience in this field and we have a Team of Well-Experienced Engineers who will provide the timely after Sales & Service. Any doubts or clarifications will be instantly cleared by our technical team via phone, video calls and direct visit.



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Our Milestone



Dunamis Machines International Pvt Ltd. Manufactures a complete range of Blowing, Filling, Labelling & Shrink Wrapping Machines and has a modern in-house facilities for manufacturing & testing their products. It's located at Redhills, Chennai State of Tamil Nadu, India.

Dunamis Machines International Pvt Ltd, has a qualified team of professionals having experience in related fields who are led by Mr. Benjamin Doss. Managing Director, an ingenious & pioneer, having more than two decades of progressive experience in the industry. What began in a garage with two employees has developed into an international provider with over 120 employees.

The main objective of the company is growth & customer satisfaction, which it has achieved by consistent efforts towards quality improvement and product development. Innovation in design and advanced manufacturing techniques have been the forte of the organization.

We inspire our customers around the world with short delivery times, an efficient customer support and highest quality standards. We are a leading supplier of Blowing Machines. Advanced Technology, innovative strength and high-quality standards, coupled with a consistent focus on customer needs, is the secret of Dunamis Machine's success.

1999

- We came up with the ideas of developing machines, conducted researches and studies in the field of Electrical and Mechanical.

2000

- Introduced a Revolutionary Technology change in machine industry by changing the relay Logic panel to PLC panel. This led into the change of large panel sizes into smaller ones. This shook the entire machine industry.

2004

- Automatic conveyers & Miniature Machines such as Pool Proof System, Auto Test Benches are delivered to Hyundai, Ford, Valeo lighting etc..

2007

- Launched SPM (Special Purpose Machines) such as Hanger Hooking Machine, Match Stick Machine, Brick Making Machine and Assembly Machine.

2009

- Implemented Water Plant machines such as Automatic 20L Jar Washing, Filling and Capping Machine, 40BPM RFC Machine (Rinsing, Filling and Capping) for water bottle.

2011

- Launched PET Bottle Blowing Machine of 2 Cavity Semi Automatic Standard Machine at the output rate of 1200 BPH.

2012

- Invented the new unique Book Type Blow Moulding Machine and implemented the concept of power saving in the Industry with increased productivity of 1600 BPH.

2013

- Launched 2 Cavity Automatic Blow Moulding Machine with Book Type at an output rate of 2000 BPH.

2014

- Maximised the Production Capacity of 2 Cavity Machine to 2400 BPH.

2015

- Increased the output of 2 Cavity Semi Automatic Machine to 1800 BPH.

2016

- RFC Machine was improved for high productivity and exceptional quality providing an output of 90 BPM.

2017

- 2 Cavity Automatic Machine's productivity was increased further to 2700 BPH.

2018

- Launched 3 Cavity Automatic Machine at the output rate of 3200 BPH.

2019

- Launched 4 Cavity Automatic Machine at the output rate of 4200 BPH.

2020

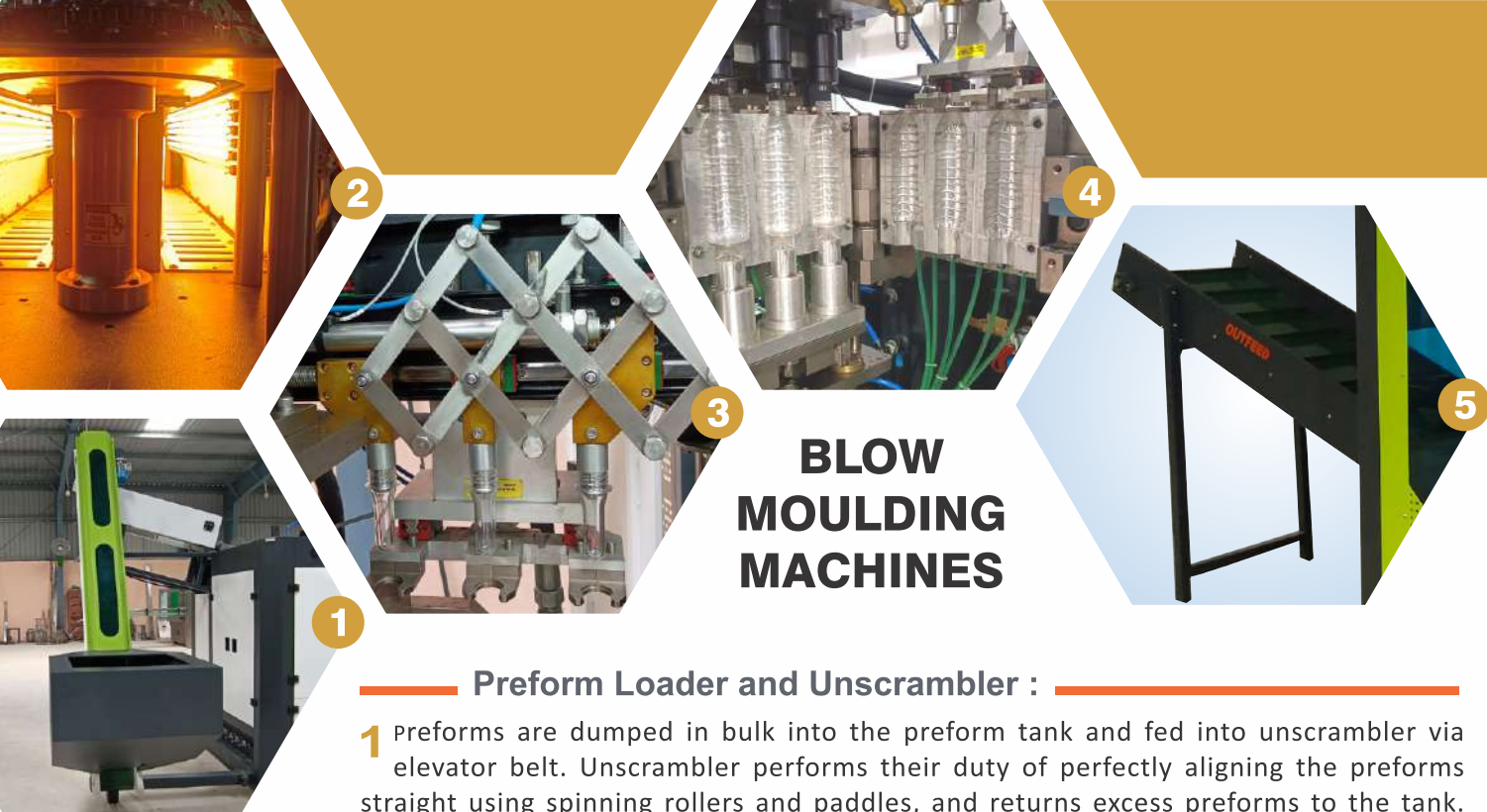
- R&D Work for 4 Cavity High Speed Online Machine @ 6000 BPH, 6 Cavity High Speed Online Machine @ 9000 BPH, Labelling Machines, Shrink Wrapping Machine was undertaken.

2021

- R&D work under taken for Carbonated Soda Filling Machines & Juice Filling Machines. We Patented our inventions.

2022

- Launched RFC Machines for Soda, BOPP Labelling Machines, Shrink Wrapping Machines with capacity upto 120 BPM.



BLOW MOULDING MACHINES

Preform Loader and Unscrambler :

1 Preforms are dumped in bulk into the preform tank and fed into unscrambler via elevator belt. Unscrambler performs their duty of perfectly aligning the preforms straight using spinning rollers and paddles, and returns excess preforms to the tank. These aligned preforms are carried using the neck ring through the inclined rails, which is called chute, to the entrance of the heating oven module.

Heating Oven Module:

2 The preforms from chute are picked up by preform mandrels transferred to the next module and simultaneously rotated axially to achieve uniform heating by modern NIR heating lambs. The design of heating oven ensures the optimum heating profile of preform using lamps and blowers. To make the unit flexible to adapt any type of preforms, easy adjustment of the positions of heating lamps and their temperature values are provided. To maintain uniform temperature, oven is equipped with controlling the speed of the blowers. Even the complex shaped bottles can be blown with exceptional quality, adjusting their temperatures individually in the HMI screen.

Preform Pick and Place Module:

3 This module is used to transfer the preform from heating oven module to blowing station at high speed. This module is designed and constructed based on pantograph mechanism which means number of mechanical linkage connected in a manner based on parallelograms so that the pick and place point accuracy shall be attained even at high speed with minimum required force.

Reheat Stretch Blow Moulding Station:

4 This is the very significant module which gives the final elegant shape and accurate size of bottle. Here, mould halves are closed through pneumatic or servo drives linearly. Like closing and opening of a book (Book Type). A high speed stretching system stretches the evenly heated preform and the compressed air is blown in two levels which are called as low blow and high blow. A pressure compensation system is used to compensate the pressure and to eliminate the lining in the bottle. Patented high pressure valves are used to blow the bottle at very high speed. Air recovering systems are used to reuse the blown air which consequently saves the power. At the end of blowing, bottles are cooled in the mould holder itself to retain its original shape.

Bottle Unloading System:

5 The blown bottles are automatically ejected from the blow moulding station to out-feed conveyor in two methods as mentioned below. In offline method the bottles are elevated to the required height using elevator and they can be collected easily using bags or by any means. In online method the bottles are directly moved to the top horizontal conveyor where you can connect the conveyor directly to filling machine.

BLOW MOULDING MACHINES ECONOMIC SERIES :

Our machines have **simple, innovative design** and **ultimate energy saving**. It is engineered for **efficiency and maximum production** speed.

- » Multiple products like mineral water bottles, carbonated soft drinks bottles, Hot fill Juice Bottles Oil bottles can be blown at low investment.
- » No manpower is needed for preform feeding .
- » Advanced design of unscrambler unit ensures an uninterrupted feeding of preforms to heating oven.
- » Preform recovery duct recirculates all disoriented preforms for high volume machines.
- » Advanced infrared preheating system is used for power saving upto 30%.
- » All NIR lamps can be individually adjusted vertically & horizontally for optimum and efficient heating in high speed machines.
- » Incremental heater settings are used for individual lamps by 1% to 199% for accurate preform heat setting.
- » The perfect dual neck cooling system is used to protect the preform neck from heating.
- » Rapid high-pressure valves are used for the fastest blowing and higher output.
- » Blowing mould holder system is designed for easy and lesser mould changing time (Max. 10 min).
- » Air recovery system is used to recover & reuse the blown air which contributes power saving upto 20% .
- » Air & Water lines are of push-pull system and are enabled for easy maintenance.
- » Long life PU seal cylinders and higher accuracy valves are used for low pressure control system.
- » After blowing, orientated ready bottles can be collected automatically by using belt conveyor or can be connected directly to filling machines for automatic feeding.
- » IP 67 Grade sensors are used for higher accuracy & long life.
- » PLC based system with 10" multicolour touch screen, HMI production display unit is used to graphically display all the input and output parameters for easy man machine interfacing and higher machine performance.
- » Machine can store 50 mould recipe parameters. So, the time required for parameters settings is completely eliminated.
- » Easy Operation & Easy Maintenance.
- » High Productivity with Low Power Consumption.
- » Compact Structure and Low Maintenance Cost.

Overall our machines are designed for safe, hygienic & high quality PET bottles with cost effective production at High Speed.

FUTURE TECHNOLOGY FOR NEXT GENERATION

2 Cavity High Speed Semi Automatic PET Blow Moulding Machine

DM-BKHSE2 (2000BPH)



Machine Specifications

Machine Model	- DM-BKHSE2
Machine category	- High Speed Semi Automatic
No of Cavities	- 2 Cavity
Production Capacity (Bottles/Hour)	- 2000 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 2000ml
Type of Bottles Blowing	- Water, Juice & CSD
Types of Preform	- Alaska & PCO
Bottle Outlet	- Auto Drop
Size of the Mould (W x T)	- 120mm x 125mm (Each)

Container Specifications

Neck Diameter	- 28mm
Max. Diameter of Bottle	- 102mm
Max. Height of the Bottle	- 340mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 8 Nos
Heater Capacity	- 2000 Watts
Machine Connected Power	- 4.5KW, 3 Phase
Machine with Accessories Connected Power	- 24 KW, 3 Phase
Total Power Consumption with Accessories	- 17 KWH (units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 38CFM

Required Accessories

High Pressure Compressor	- 20HP/25Bar/ 54CFM
Air Dryer	- 60CFM/30bar
Water Chiller	- 2.5Ton@10°C
Cooling Tower	- 15TR

3 Cavity Automatic PET Blow Moulding Machine

DM-BKAE3 (3200BPH)



Machine Specifications

Machine Model	- DM-BKAE3
Machine category	- Automatic Blowing
No of Cavities	- 3 Cavity
Production Capacity (Bottles/Hour)	- 3300 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 1000ml
Type of Bottles Blowing	- Water, Juice & CSD
Types of Preform	- Alaska & PCO
Bottle Outlet	- Through Belt Conveyor
Size of the Mould (W x T)	- 120mm x 310mm

Container Specifications

Neck Diameter	- 28mm
Max. Diameter of Bottle	- 82mm
Max. Height of the Bottle	- 270mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 6 Nos
Heater Capacity	- 3000 Watts
Machine Connected Power	- 6.5KW, 3 Phase
Machine with Accessories Connected Power	- 32KW, 3 Phase
Total Power Consumption with Accessories	- 22.5 KWH (units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 64CFM

Required Accessories

High Pressure Compressor	- 25HP/25Bar/ 72CFM
Air Dryer	- 100CFM/30bar
Water Chiller	- 3.5Ton@10°C
Cooling Tower	- 20TR

2 Cavity Fully Automatic PET Blow Moulding Machine

DM-BKFAE2 (2400BPH)



Machine Specifications

Machine Model	- DM-BKFAE2
Machine category	- Fully Automatic
No of Cavities	- 2 Cavity
Production Capacity (Bottles/Hour)	- 2400 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 2000ml
Type of Bottles Blowing	- Water, Juice & CSD
Types of Preform	- Alaska & PCO
Bottle Outlet	- Through Belt Conveyor
Size of the Mould (W x T)	- 120mm x 125mm (Each)

Container Specifications

Neck Diameter	- 28mm
Max. Diameter of Bottle	- 102mm
Max. Height of the Bottle	- 340mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 8 Nos
Heater Capacity	- 2000 Watts
Machine Connected Power	- 6KW, 3 Phase
Machine with Accessories Connected Power	- 25 KW, 3 Phase
Total Power Consumption with Accessories	- 18 KWH (units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 47CFM

Required Accessories

High Pressure Compressor	- 20HP/25Bar/ 54CFM
Air Dryer	- 60CFM/30bar
Water Chiller	- 2.5Ton@10°C
Cooling Tower	- 15TR

3 Cavity Fully Automatic PET Blow Moulding Machine

DM-BKFAE3 (3600BPH)



Machine Specifications

Machine Model	- DM-BKFAE3
Machine category	- Fully Automatic
No of Cavities	- 3 Cavity
Production Capacity (Bottles/Hour)	- 3600 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 1000ml
Type of Bottles Blowing	- Water, Juice & CSD
Types of Preform	- Alaska & PCO
Bottle Outlet	- Through Belt Conveyor
Size of the Mould (W x T)	- 120mm x 310mm

Container Specifications

Neck Diameter	- 28mm
Max. Diameter of Bottle	- 82mm
Max. Height of the Bottle	- 270mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 12 Nos
Heater Capacity	- 2000 Watts
Machine Connected Power	- 9KW, 3 Phase
Machine with Accessories Connected Power	- 38KW, 3 Phase
Total Power Consumption with Accessories	- 26KWH (units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 70CFM

Required Accessories

High Pressure Compressor (Duplex)	- 30HP/25Bar/84CFM
Air Dryer	- 100CFM/25bar
Water Chiller	- 3.5Ton@10°C
Cooling Tower	- 30TR

3 Cavity Fully Automatic Online PET Blow Moulding Machine

DM-BKFAE3L (3600BPH)



Machine Specifications

Machine Model	- DM-BKFAE3L
Machine category	- Fully Automatic Online
No of Cavities	- 3 Cavity
Production Capacity (Bottles/Hour)	- 3600 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 1000ml
Type of Bottles Blowing	- Water, Juice & CSD
Types of Preform	- Alaska & PCO
Bottle Outlet	- Through Air Conveyor
Size of the Mould (W x T)	- 120mm x 310mm

Container Specifications

Neck Diameter	- 28mm
Max. Diameter of Bottle	- 82mm
Max. Height of the Bottle	- 270mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 12 Nos
Heater Capacity	- 2000 Watts
Machine Connected Power	- 9.5KW, 3 Phase
Machine with Accessories Connected Power	- 39KW, 3 Phase
Total Power Consumption with Accessories	- 27KWH (Units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 74CFM

Required Accessories

High Pressure Compressor	- 32HP/25Bar/80CFM
Water Chiller	- 3.5Ton@10°C
Cooling Tower	- 30TR

3 Cavity Fully Automatic PET Blow Moulding Machine

DM-LNFAE3L



Machine Specifications

Machine Model	- DM-LNFAE3L
Machine category	- Fully Automatic Linear Online
No of Cavities	- 3 Cavity
Production Capacity (Bottles/Hour)	- 3600 BPH (for 1000ml)
Blowing Capacity (Min-Max)	- 100ml – 2000ml
Type of Bottles Blowing	- Water, Juice & Soda
Types of Preform	- Alaska & PCO
Bottle Outlet	- Through Air Conveyor
Size of the Mould (W x T)	- 120mm x 385mm (Each)

Container Specifications

Neck Diameter	- 28mm - 36mm (Anyone Size)
Max. Diameter of Bottle	- 105mm
Max. Height of the Bottle	- 340mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 16 Nos
Heater Capacity	- 2000 Watts, 220V AC
Machine Connected Power	- 12KW, 3 Phase
Machine with Accessories Connected Power	- 44 KW, 3 Phase
Total Power Consumption with Accessories	- 31KWH (units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 72CFM

Required Accessories

High Pressure Compressor Air Station	- 32HP/25Bar/80CFM
Water Chiller	- 3.5Ton@10°C
Cooling Tower	- 30TR

1 Cavity Semi Automatic 20Ltr. Jar Blowing Machine

DM-JRSE1 (120JPH)



Machine Specifications

Machine Model	- DM-JRSE1
Machine category	- Semi Automatic
No of Cavities	- 1 Cavity
Production Capacity (Bottles/Hour)	- 120 Jars/Hour
Blowing Capacity (Min-Max)	- 20 Ltr
Bottle Outlet	- Manual
Size of the Mould (W x T)	- 340mm x 330mm

Container Specifications

Type of Bottles Blowing	- Water
Types of Preform	- Plain & Jar Type
Max. Neck Diameter	- 55 mm
Max. Diameter of Bottle	- 275 mm
Max. Height of the Bottle	- 540 mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 16 Nos
No of Pipe Heaters	- 2 Nos
No of Inner Heaters	- 1 Nos
IR Heater Capacity	- 1500 Watts, 220V AC
Machine Connected Power	- 10KW, 3 Phase
Machine with Accessories Connected Power	- 34KW (46HP), 3 Phase
Total Power Accessories Consumption (Incl. Ass)	- 22KWH (Units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 55CFM

Required Accessories

Compressor Capacity (High Pressure)	- 25HP/25Bar/72CFM
Air Dryer Capacity	- 100CFM@25Bar
Water Chiller Capacity	- 2.5Ton@10°C
Cooling Tower	- 20TR

2 Cavity Automatic PET Jar Blow Moulding Machine

DM-JRA2 (1800JPH)



Machine Specifications

Machine Model	- DM-JRA2
Machine category	- Automatic
No of Cavities	- 2 Cavity
Production Capacity (Bottles/Hour)	- 1800 BPH (for 300 ml)
Blowing Capacity (Min-Max)	- 100ml – 1000ml
Bottle Outlet	- Auto Drop
Size of the Mould (W x T)	- 300mm x 150mm

Container Specifications

Type of Bottles Blowing	- Wide Mouth Jars & Other PET Bottles
Types of Preform	- Alaska, PCO, ROPP & CTC
Max. Neck Diameter	- 28 mm - 83 mm
Max. Diameter of Bottle	- 115 mm
Max. Height of the Bottle	- 250 mm

Electrical Specifications

Pre-Heating System	- Near Infrared
No of Heaters	- 12 Nos
Heater Capacity	- 2000 Watts
Machine Connected Power	- 9KW, 3 Phase
Machine with Accessories Connected Power	- 35 KW, 3 Phase
Total Power Accessories Consumption (Incl. Ass)	- 25KWH (Units)

Pneumatic Specifications (Air System)

Blowing Pressure	- 20Bar
Working Pressure	- 6Bar
Air Consumption	- 56CFM

Required Accessories

Compressor Capacity (High Pressure)	- 25HP/25Bar/72CFM
Air Dryer Capacity	- 100CFM/25Bar
Water Chiller Capacity	- 3.5Ton@10°C
Cooling Tower	- 20TR

FILLING MACHINES



Air Conveyor: The blown bottles from blow moulding machine can be fed automatically or manually through air conveyor. Air blowers and adjustable guides are used to transfer the bottles, carried by their neck ring, to the transfer wheel effectively and smoothly.

Rinsing Unit: As washing of the bottles are essential for hygienic usage, this unit is developed to rinse the bottles using cold or hot liquid as per the user requirement. The bottles are smoothly picked by their neck and rotated upside down as if they are ready to be washed. Then every bottles are washed by the fast liquid spray nozzles when their turn come. The rinsing liquid distributing system, only allows the liquid in certain angle such that liquid wastage is completely eliminated.



Filling Unit: This unit is used to fill the bottle with required liquid such as Water, Soda, etc. to the brim or until the specific required level. Specially designed high speed filling valves are used to fill the liquid efficiently and effectively. Unique shaped orings are used to arrest leakage of filling valves. Filling tank with automatic level maintaining control is used to fill the tank and replenish it to maintain the required head. Hence it is easy to achieve the high speed filling using gravity filling method without the requirement of any complex methods.

Capping Unit: As the name suggest capping unit is used to apply caps for the closure or sealing of the bottles. The caps are dumped into the capping tank, and they are lifted up by the elevator belt. The wrong aligned caps are fallen down and only the proper positioned caps are taken to the elevator top and thanks to the centroid position of the caps. From the top of the elevator they will move down to the capping transfer plate through chute. Then they are taken up by the clutch assembly and applied on the bottles. The clutch assembly is a crucial one, which ensures the tightening of the cap using their proper easily adjustable torque feature. Properly adjusting the torque we can use the clutch to suit any type of standard caps without modifications in clutch assembly.



Bottle Transfer and Out-feed: FILLING MACHINE Transfer section will contain adjustable transfer wheels and plates, which move bottles from air conveyor to the out-feed conveyor. They are intermediate wheels between one station to next station and they ensures the bottles movement to be smooth and without shaking. There are easy change parts for the containers at the out-feed to perfectly transfer the bottles to the conveyor even at high speed. The speeds of the main drive and conveyor are synchronised to achieve efficient transfer of the bottles. Inspection lamps are provided to ensure the liquid without contaminated particles. Shrink tunnel for sleeve may be added if requires at the out-feed conveyor. The bottles can be further connected to the next machine via conveyor or can be collected from collection tray.

FILLING MACHINES ECONOMIC SERIES :

Our machines have **simple, innovative design** and **ultimate energy saving**. It is engineered for **efficiency and maximum production** speed.

- » No Bottle No Filling & No Bottle No Capping methodology is used
- » Specially made grippers are used to hold the bottles effectively to prevent the falling & damaging of bottles during rinsing and filling processes.
- » High speed service free progressive gravity filling valves are used.
- » Self lubricated and imported plain bearings are used in filling levers to provide noise free and maintenance free operation as well as for longer life.
- » The unique shape of the filling reservoir tank ensures the high speed filling & zero water presence after draining.
- » Filling Tank level is maintained by Sensor based Automatic Float System.
- » Automatic Drain Option is provided in HMI to drain and clean the Filling reservoir tank.
- » Two way rotary actuator ball valve is used for opening and closing of water line valves, hence the hammering of water is avoided, which ensures the safety of pipeline.
- » Easy and Fine Torque Adjustable Capping Clutch is used for smooth & rigid applying of cap.
- » Cap Knock-out System is used to eject the damaged caps automatically.
- » Oil seals are installed in housings to protect the bearings from corrosion and grease from contamination. Hence, the overall duty life is increased.
- » Noiseless Operation of gears & bearings is ensured.
- » All product surfaces are in highly polished SS 304.
- » After filling, orientated ready bottle can be collected at collection tray or can be connected directly to labelling machine.
- » Double side UV treated poly carbonated sheets are used in machine coverings and doors. They are more hygiene for manufactured products they are safe, long lasting and of good strength.
- » IP 67 Grade Sensors are used for high accuracy and speed.
- » Electrical and Electronic Control Panel with low voltage circuitry as well as programmable Advanced Automatic Control Panel.
- » PLC based system with 10" multicolour touch screen HMI production display unit is used to graphically display all the input and output parameters for easy man machine interfacing and higher machines performance.
- » Very High Productivity with Very Low Power Consumption.
- » Compact Structure and Simple Innovative Design.

Overall our machine are designed for safe, hygienic & high quality with Cost effective Production at very high speed.

FUTURE TECHNOLOGY FOR NEXT GENERATION

Fully Automatic Rinsing, Filling & Capping Machine

DM -WF60E



Machine Specifications

Machine Model	- DM-WF60E
Machine category	- Fully Automatic
Types of Operation	- Rinsing, Filling & Capping
Production Capacity	- 3600 BPH - 4500 BPH
Bottle Feeding	- Through Air Conveyor
Air Conveyor Length	- 3 Mtrs
Number of Rinsing Nozzles	- 10 Nos
Filling Volume	- 150ml – 2000ml
Number of Filling Valves	- 8 Nos
Number of Capping Head	- 4 Nos
Out feed Conveyor Length	- 6 Mtrs
Shrink Tunnel	- Electrical Type

Container Specifications

Types of Bottles Filling	- Water Bottle
Bottle Neck Dia	- 28mm, Alaska Neck
Max Container Dia	- 105mm
Max Container Height	- 350mm

Electrical Specifications

Machine Connected Power (Include Shrink Tunnel)	- 8HP / 6KW, 3Phase
Machine Power Consumption	- 5KWH
Type of Electrical Panel	- PLC Based Control Panel with HMI
Electrical Supply	- 3 Phase with Neutral, 415Volt, 50 HZ

Fully Automatic Rinsing, Filling & Capping Machine

DM -WF120E



Machine Specifications

Machine Model	- DM-WF120E
Machine category	- Fully Automatic
Types of Operation	- Rinsing, Filling & Capping
Production Capacity	- 7200 BPH - 9000 BPH
Bottle Feeding	- Through Air Conveyor
Air Conveyor Length	- 6 Mtrs
Number of Rinsing Nozzles	- 18 Nos
Filling Volume	- 150ml – 2000ml
Number of Filling Valves	- 12 Nos
Number of Capping Head	- 8 Nos
Out feed Conveyor Length	- 9 Mtrs
Shrink Tunnel	- Electrical Type

Container Specifications

Types of Bottles Filling	- Water Bottle
Bottle Neck Dia	- 28mm, Alaska Neck
Max Container Dia	- 105mm
Max Container Height	- 350mm

Electrical Specifications

Machine Connected Power	- 12.5HP / 9.5KW, 3Phase
(Include Shrink Tunnel)	
Machine Power Consumption	- 7.5KWH
Type of Electrical Panel	- PLC Based Control Panel with HMI
Electrical Supply	- 3 Phase with Neutral, 415Volt, 50 HZ

Fully Automatic CSD Filling Machine (For Soda & Carbonated Soft Drinks)

DM -CAF60



Machine Specifications

Machine Model	- DM-CAF60
Machine category	- Fully Automatic
Types of Operation	- Rinsing, Filling & Capping
Production Capacity	- 3600 BPH - 4000 BPH
Bottle Feeding	- Through Air Conveyor
Air Conveyor Length	- 3 Mtrs
Number of Rinsing Nozzles	- 10 Nos
Filling Volume	- 150ml – 2000ml
Number of Filling Valves	- 12 Nos
Number of Capping Head	- 4 Nos
Out feed Conveyor Length	- 6 Mtrs
Machine Inlet	- Product line, Water line, Air line & Electrical Power Line

Container Specifications

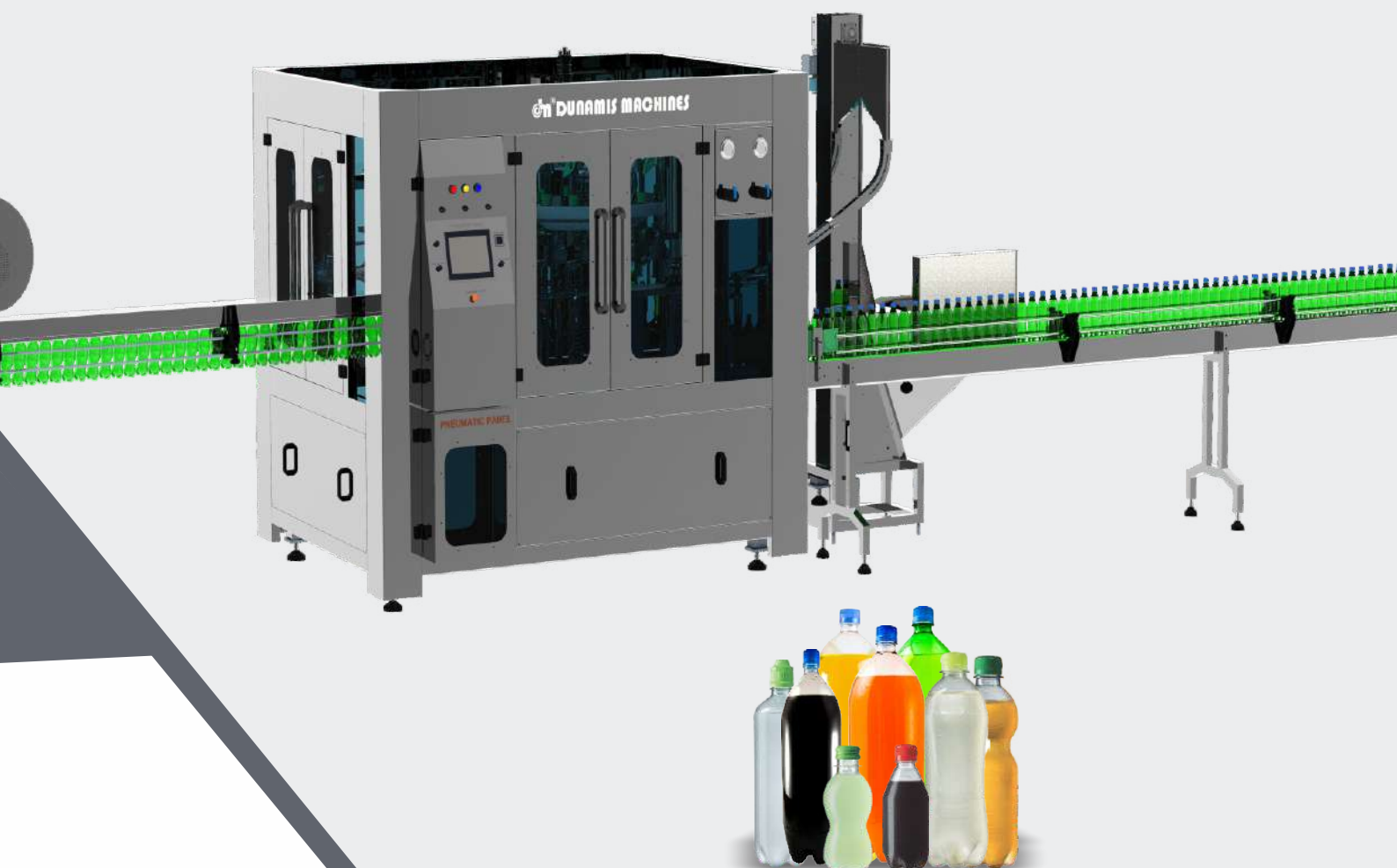
Types of Bottles Filling	- CSD PET Bottle
Bottle Neck Dia	- 28mm, PCO Neck
Max Container Dia	- 105mm
Max Container Height	- 360mm

Electrical Specifications

Machine Connected Power	- 10HP / 7.5KW, 3Phase (Include Shrink Tunnel)
Machine Power Consumption	- 6KWH
Type of Electrical Panel	- PLC Based Control Panel with HMI
Electrical Supply	- 3 Phase with Neutral, 415Volt, 50 HZ

Fully Automatic CSD Filling Machine (For Soda & Carbonated Soft Drinks)

DM -CAF120



Machine Specifications

Machine Model	- DM-CAF120
Machine category	- Fully Automatic
Types of Operation	- Rinsing, Filling & Capping
Production Capacity	- 7200 BPH - 8000 BPH
Bottle Feeding	- Through Air Conveyor
Air Conveyor Length	- 6 Mtrs
Number of Rinsing Nozzles	- 16 Nos
Filling Volume	- 150ml – 2000ml
Number of Filling Valves	- 20 Nos
Number of Capping Head	- 8 Nos
Out feed Conveyor Length	- 9 Mtrs
Machine Inlet	- Product line, Water line, Air line & Electrical Power Line

Container Specifications

Types of Bottles Filling	- CSD PET Bottle
Bottle Neck Dia	- 28mm, PCO Neck
Max Container Dia	- 105mm
Max Container Height	- 360mm

Electrical Specifications

Machine Connected Power	- 18HP / 13.5KW, 3Phase (Include Shrink Tunnel)
Machine Power Consumption	- 10KWH
Type of Electrical Panel	- PLC Based Control Panel with HMI
Electrical Supply	- 3 Phase with Neutral, 415Volt, 50 HZ

BOPP LABELLING MACHINES

Reel and Label Transfer unit:

1 The label roll is placed on the reel (unwinding wheel) and the reel can be easily adjusted to match the height of the bottle's label applying position. Tension adjustment has been provided for smooth stopping of the label. The label web is placed among the transfer rollers, label tensioner, label retainer and feed rollers. Tensioner ensures proper tension to eliminate stretching and slacking of the label. Feed roller feeds the labels accurately using servo motor.

Cutter Unit:

2 Cutter Unit cuts the labels accurately at the specified position and transfers the labels from feed roller to vacuum drum. To hold the label from falling down, it is a common technique to use vacuum holes around the surface of the cutter. The special design ensures the vacuum to be used only on the area where the label web is available and saves power by not using the vacuum at all other places as well as ensures the stable position of the label even at higher speed. Specially manufactured stationary and rotary knives are used to cut the label web for long lasting life.

Drum Unit:

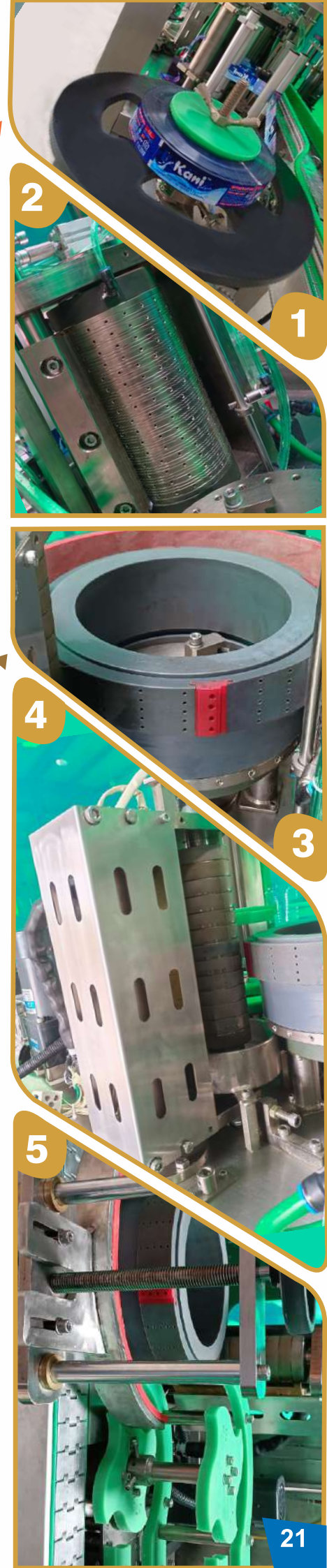
3 The labels are moved to weightless vacuum drum and are perfectly aligned at leading and trailing edge of the label at their corresponding vacuum pads. The label is transferred from cutter unit to label applying place, via glue applying unit, carried by the outer surface of the drum.

Glue Unit:

4 In this unit, the glue tank which contains glue is heated to obtain proper viscosity of glue. Then the glue is transferred to glue bar. This glue bar applies necessary glue to glue roller. Excess glue applied on the glue roller is removed. Also, this glue roller design ensures not dumping the glue even at higher speed. This method is related to gravure roller technology, which is used for coating. Hence, we can achieve very minute film thickness of glue which is applied on the leading and trailing edge of the label, which ensures less consumption of glue and power. Ultimate result is low cost and power savings. Also the speed of the glue roller and drum are exactly matched to remove common wrinkle which occurs on label.

Bottle Transfer and Out-feed:

5 After applying glue to the label web, the vacuum drum arrives to the label applying position, simultaneously the conveyor and the in-feed star wheel transfer the bottle to the same position, from where the label starts to stick on the bottle. Then the label is continuously applied until the end of the label as the roll-on-pad helps the bottle to rotate without slippage. After applying the labels smoothly without wrinkles, the bottle is moved to the out-feed conveyor and can be collected or can be connected directly to the shrink wrapping machine.



BOPP LABELLING MACHINES ECONOMIC SERIES :

Our machines have **simple, innovative design** and **ultimate energy saving**. It is engineered for **efficiency and maximum production** speed.

- » No Bottle No Labelling System is used.
- » Multiple products can be labelled like Mineral water bottles, carbonated soft Drinks bottles, hot fill juice bottles at low investment.
- » Height and tension of reel can be adjusted easily in our uninterrupted label feeding system.
- » All the units are designed, so as to utilize the vacuum in an effective and efficient way, especially cutter unit. In our machine, vacuum is only used wherein it is required, and is shut off in all other places, which saves enormous power and solves the problem of label slipping from cutter shaft.
- » High grade steel cutting knife is used for long lasting life.
- » Labelling Accuracy is increased for uniform cutting of label web.
- » Due to compact size and the use of in-built tank, huge power requirement is reduced, which is required for heating.
- » Roll-On-Pad height adjustment is made very easy due to attached hand wheels.
- » Change over time for various containers are reduced to minimum and made easy due to compact size and their easy mounting methods and the use of weightless accessories.
- » Orientated bottle output made it easy to connect with Shrink Wrapping Machine.
- » Non contact IP 67 Grade Eye Mark Sensors are used for high accuracy in label sensing.
- » PLC based system with 10" multicolour touch screen HMI production display unit is used to graphically display all the input and output parameters for easy man machines interfacing and higher machines performance.
- » Easy Operation & Easy Maintenance.
- » Auto Fault Display is used for Quick Troubleshooting.
- » High Productivity with Low Power Consumption.
- » Simple Unique, Compact machine with Low Maintenance Cost.

Overall our machines are designed for safe, hygienic & high quality with Cost effective Production at very high speed.

Fully Automatic BOPP Labelling Machine

DM-LAB60



Machine Specifications

Machine Model	- DM-LAB60
Machine category	- Automatic
Bottle Feeding	- Automatic from Filling Machine Conveyor
Production Capacity	- 3600 BPH - 4500 BPH
Cutting & Gluing	- Automatic
Conveyor Length	- 2.5 Mtrs

Container Specifications

Type of Bottles	- Same Size and Height
Max. Bottle Volume	- 2000ml
Diameter of Bottle	- 45mm - 105mm
Max. Height of the Bottle	- 350

Electrical Specifications

Type of Heaters	- SS Pipe heaters, Rope Heaters & Plate Heater
Total No. of Heaters	- 4 Nos
Total Heaters Power	- 3000 Watts, 1 Phase
Total Motors Power	- 3.75HP, 3 Phase
Machine Connected Power	- 5KW, 3 Phase
Total Power Consumption (Include Accessories)	- 4KWH (Unit)

Pneumatic Specifications (Air System)

Working Pressure	- 6Bar
Air Consumption	- 4CFM Aprox
Required Compressor Capacity	- 3HP/12Bar/8CFM

Fully Automatic BOPP Labelling Machine

DM-LAB120



Machine Specifications

Machine Model	- DM-LAB120
Machine category	- Automatic
Bottle Feeding	- Automatic from Filling Machine Conveyor
Production Capacity	- 7200 BPH - 9000 BPH
Cutting & Gluing	- Automatic
Conveyor Length	- 3 Mtrs

Container Specifications

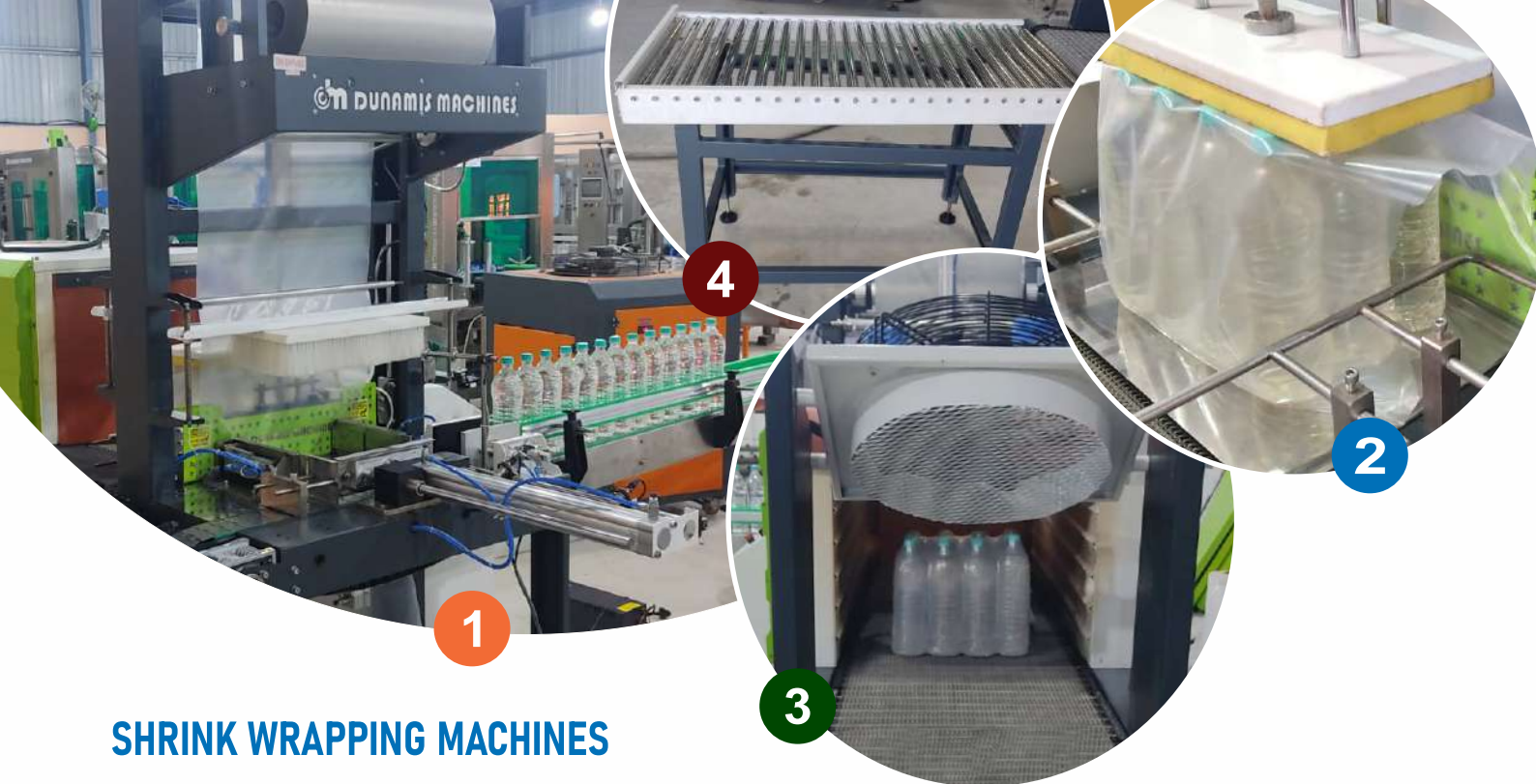
Type of Bottles	- Same Size and Height
Max. Bottle Volume	- 2000ml
Diameter of Bottle	- 45mm - 105mm
Max. Height of the Bottle	- 350

Electrical Specifications

Type of Heaters	- SS Pipe heaters, Rope Heaters & Plate Heater
Total No. of Heaters	- 4 Nos
Total Heaters Power	- 3000 Watts, 1 Phase
Total Motors Power	- 5.25HP, 3 Phase
Machine Connected Power	- 6KW , 3 Phase
Total Power Consumption (Include Accessories)	- 5KWH (Unit)

Pneumatic Specifications (Air System)

Working Pressure	- 6Bar
Air Consumption	- 4CFM Aprox
Required Compressor Capacity	- 3HP/12Bar/8CFM



SHRINK WRAPPING MACHINES

Auto Collating Section:

1 Assembling the package as bundle matrix without slag and with uniform shape is crucial in shrink wrapping machine, this unit is specially designed to achieve the proper matrix with the help of sensors, adjustable guides and pneumatic actuators. Flat top chain conveyor gathers the bottles to auto collating section using the main drive, of which speed can be controlled easily using HMI screen. The final matrix is achieved by two main devices and are called the bottle stopper and the bottle pusher. The number of required rows and columns can be varied easily using HMI screen. The easily adjustable guides are adjusted properly to get the expected matrix bundle in a perfectly aligned shape.

Wrapping & Sealing Section:

2 This machine uses Double-Roll Wrapping method for wrapping. As the name implies, there are two rolls of film for wrapping the matrix bundle from above and below of the matrix bundle. The ends of the film rolls are sealed together to form a wall or curtain before accepting the first matrix bundle. As it passes through the web sealer, the films start to unwind from the rolls and start to envelope the front, top and bottom of the matrix bundle. When the film rollers are unwound, Gravity-Loaded Dancer Rolls do their duty of perfectly maintaining a constant film tension. After completing the pushing, the pusher retracts to form next matrix bundle, and simultaneously the sealing jaw comes from the top to seal the two films from above and below to seal and to cut the film. Upon the completion of the sealing, the film curtain will be re-positioned for receiving the next bundle.

Shrink Tunnel Section:

3 Inside the tunnel section, the air is heated by heaters. Two high speed blowers are used to reticulate the hot air and to maintain the uniform temperature. This hot air is circulated all-over the bundle, gives tightness to the bundle by shrinking the loose film. All the shrunk bundles which are coming out of the tunnel, gets cooled by high speed axial fan and gives more rigidity to the bundle.

Roller Conveyor :

4 Roller conveyor made of stainless steel rollers are attached at the end of the shrink tunnel unit. The bundles, delivered from the tunnel section, are temporarily accumulated in this roller conveyor until they reach the ambient temperature.

SHRINK WRAPPING MACHINES ECONOMIC SERIES :

Our machines have **simple, innovative design** and **ultimate energy saving**. It is engineered for **efficiency and maximum production** speed.

- » Multiple Products can be wrapped like Mineral water bottles, carbonated soft Drink Bottles, Hot fill Juice Bottles at low Investment.
- » Infeed stopper fixed on the infeed conveyor ensures the required load to be applied at the entry.
- » The line-up guide steep help the bottles not to be fallen while forming rows.
- » The stroke of pusher cylinder is equipped for easy adjustment.
- » Advanced heating system for power saving upto 20%.
- » Incremental heater settings are used for accurate heat setting.
- » Imported Nichrome Wire is used for vertical installation. SS Tube Fin Type Heater is used inside the tunnel.
- » Unique design of shrink tunnel, not only enables the hot air to flow around the bundle, but also enables the hot air to flow through the bottom of the conveyor and gives rigidity to the bottom of the wrapped matrix.
- » Film Shrinkage Level can be easily controlled by varying the tunnel drive speed and the heater temperature on HMI Screen.
- » The shrink tunnel conveyor is made of SS wire mesh belt.
- » At the end of the each shift, the cooling fans' position can be easily varied for cooling the tunnel conveyor in order to completely shut down the machine in less time.
- » Long life PU seal cylinders and higher accuracy valves are used for low pressure control system.
- » Air lines are of push pull system and are enabled for easy maintenance.
- » IP 67 Grade Sensors are used for higher accuracy & long life.
- » PLC based system with 10" multicolour touch screen HMI production display unit is used to graphically display all the input and output parameters for easy man machines interfacing and higher machines performance.
- » Easy Operation & Easy Maintenance.
- » High Productivity with Low Power Consumption.
- » Compact Structure and Low Maintenance Cost.

Overall our machines are designed for safe, hygienic & high quality with Cost effective Production at very high speed.

FUTURE TECHNOLOGY FOR NEXT GENERATION

Fully Automatic Shrink Wrapping Machine

DM-SWFA60



Machine Specifications

Machine Model	- DM-SWFA60
Machine category	- Fully Automatic
Production Capacity	- 4 - 6 Shrunk Boxes 3600 BPH - 4200 BPH
Matrix Size (Changeable)	- 6 x 8 (300ml) 4 x 6 (500ml) 4 x 3 (1000 ml) 3 x 3 (2000 ml)
Bottle Collateral System	- Automatic
Shrunk Box Outlet	- Through Roller Conveyor

Container Specifications

Type of Bottles	- Same Size and Height
Max. Bottle Volume	- 2000ml
Max. Diameter of Bottle	- 102mm
Max. Height of the Bottle	- 350mm

Electrical Specifications

Type of Heaters	- SS Tube Porcelain Heater
No. of Heaters	- 9 Nos
Heaters Power	- 3000 Watts, 1 Phase
Machine Connected Power	- 12.5 KW , 3 Phase
Total Power Consumption (Include Accessories)	- 10 KWH (Unit)

Pneumatic Specifications (Air System)

Working Pressure	- 6Bar
Air Consumption	- 12CFM Aprox
Required Compressor Capacity	- 5HP/12Bar/14CFM

Fully Automatic Shrink Wrapping Machine

DM-SWFA120



Machine Specifications

Machine Model	- DM-SWFA120
Machine category	- Fully Automatic
Production Capacity	- 8 - 12 Shrunk Boxes 7200 BPH - 8000 BPH
Matrix Size (Changeable)	- 6 x 8 (300ml) 4 x 6 (500ml) 4 x 3 (1000 ml) 3 x 3 (2000 ml)
Bottle Collateral System	- Automatic
Shrunk Box Outlet	- Through Roller Conveyor

Container Specifications

Type of Bottles	- Same Size and Height
Max. Bottle Volume	- 2000ml
Max. Diameter of Bottle	- 102mm
Max. Height of the Bottle	- 350mm

Electrical Specifications

Type of Heaters	- SS Tube Porcelain Heater
No. of Heaters	- 9 Nos
Heaters Power	- 4500 Watts, 1 Phase
Machine Connected Power	- 18 KW , 3 Phase
Total Power Consumption (Include Accessories)	- 15 KWH (Unit)

Pneumatic Specifications (Air System)

Working Pressure	- 6Bar
Air Consumption	- 18CFM Aprox
Required Compressor Capacity	- 7.5HP/12Bar/21CFM



TURNKEY PROJECT SERIES :

Our machines have **simple, innovative design** and **ultimate energy saving**. It is engineered for **efficiency and maximum production** speed.

- » **Advanced PLC Based System with Multi colour HMI Unit** used for Easy Man Machine Interfacing and Higher Machine Performance
- » **Recipe Parameters Settings** for easy production.
- » Programmable based advanced automatic control panels.
- » **Every machine is Synchnanized** with each other through high speed sensors.
- » Very **High productivity** with Very **Low Power Consumption**
- » **Compact Structure** and low maintenance cost.
- » **Easy operation & Easy maintenance.**
- » **Our state of the art technology reduces the time to change Mould, Change parts and Parameter setting time**
- » **IP67 Grade Sensors** used for Higher Accuracy & Speed.
- » Special made **double side UV treated poly carbonated sheets** are used in machine, which is more hygienic, long-lasting and gives more strength to door.
- » Noiseless Gears & Bearings.
- » Electrical and electronic control panel with low voltage circuitry.

Overall our machines are designed for safe, hygienic & high quality with Cost effective Production at very high speed.

Turnkey Project - Fully Automatic Filling Line 60BPM for Water (Upto 1000ml)

DM-BKFAE3L (3600BPH)

DM -WF60E

DM-LAB60

DM-SWFA60

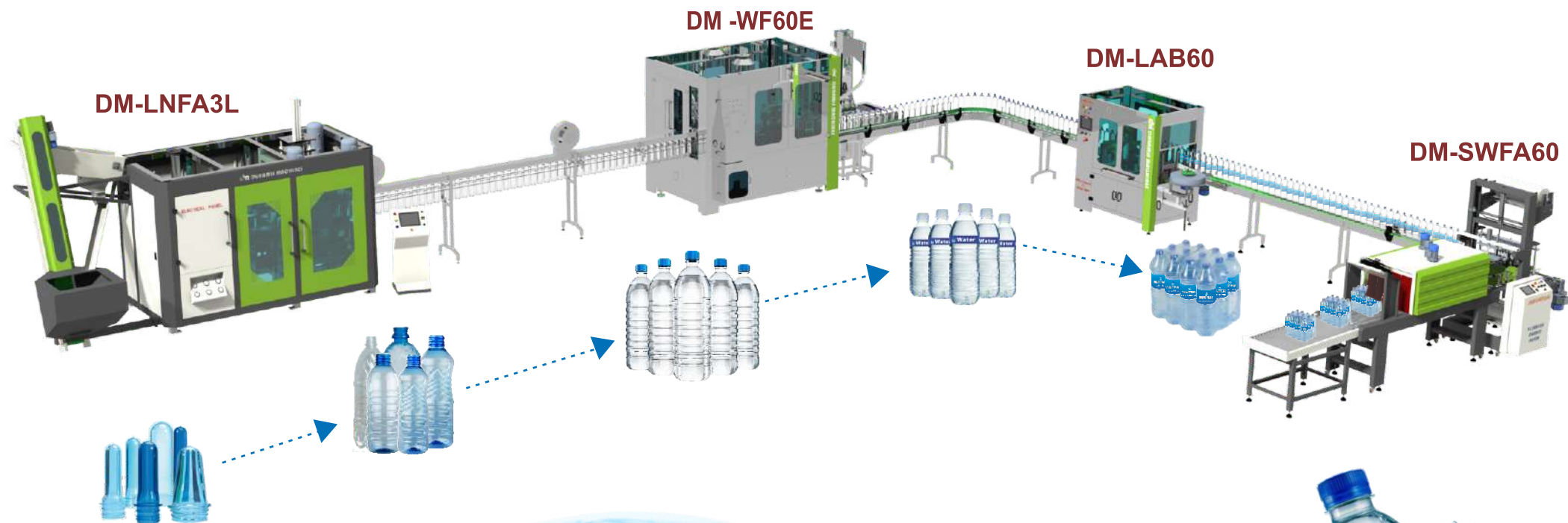


FUTURE TECHNOLOGY FOR NEXT GENERATION

Turnkey Project - Fully Automatic Filling Line **60BPM** for Water (Upto 1000ml)

SPECIFICATION	DM-BKFAE3L	DM -WF60E	DM-LAB60	DM-SWFA60
Machine Specifications	Machine Model - DM-BKFAE3L Machine category - Fully Automatic Online No of Cavities - 3 Cavity Production Capacity - 3600 BPH (Bottles/Hour) Blowing Capacity (Min-Max) - 100ml – 1000ml Type of Bottles Blowing - Water, Juice & CSD Types of Preform - Alaska & PCO Bottle Outlet - Through Air Conveyor Size of the Mould (W x T) - 120mm x 310mm	Machine Model - DM-WF60E Machine category - Fully Automatic Types of Operation - Rinsing, Filling & Capping Production Capacity - 3600 BPH - 4500 BPH Bottle Feeding - Through Air Conveyor Air Conveyor Length - 3 Mtrs Filling Volume - 150ml – 2000ml Out feed Conveyor Length - 6 Mtrs	Machine Model - DM-LAB60 Machine category - Automatic Production Capacity - 3600 BPH - 4500 BPH Cutting & Gluing - Automatic Conveyor Length - 2.5 Mtrs	Machine Model - DM-SWFA60 Machine category - Fully Automatic Production Capacity - 4 - 6 Shrunk Boxes 3600 BPH - 4200 BPH Matrix Size - Changeable Bottle Collateral System - Automatic Shrunk Box Outlet - Through Roller Conveyor
Container Specifications	Neck Diameter - 28mm Max. Diameter of Bottle - 82mm Max. Height of the Bottle - 270mm	Types of Bottles Filling - Water Bottle Bottle Neck Dia - 28mm, Alaska Max Container Dia - 105mm Max Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm
Electrical Specifications	Pre-Heating System - Near Infrared No of Heaters - 12 Nos Heater Capacity - 2000 Watts Machine Connected Power - 9.5KW, 3 Phase Machine with Accessories - 39KW, 3 Phase Connected Power Total Power Consumption - 27KWH (Units) with Accessories Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Machine Connected Power - 4.5HP / 3.5KW, (without Shrink Tunnel) 3Phase Machine Power Consumption - 3KWH (Units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Pipe heaters, Rope Heaters & Plate Heater Total No. of Heaters - 4 Nos Total Heaters Power - 3000 Watts, 1 Phase Total Motors Power - 3.75HP, 3 Phase Machine Connected Power - 5KW, 3 Phase Total Power Consumption - 4KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Tube Porcelain Heater No. of Heaters - 9 Nos Heaters Power (Each) - 3000 Watts, 1 Phase Machine Connected Power - 12.5 KW , 3 Phase Total Power Consumption - 10 KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ
Pneumatic Specifications (Air System)	Blowing Pressure - 20Bar Working Pressure - 6Bar Air Consumption - 74CFM	Working Pressure - 6Bar Air Consumption - 6CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 4CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 15CFM (Aprox)
Required Accessories	High Pressure Air Station - 32HP/25Bar/80CFM Water Chiller - 3.5Ton@10°C Cooling Tower - 30TR	Low Pressure Compressor - 10HP/12Bar/30CFM		

Turnkey Project - Fully Automatic Filling Line **60BPM** for Water (Upto 2000ml)

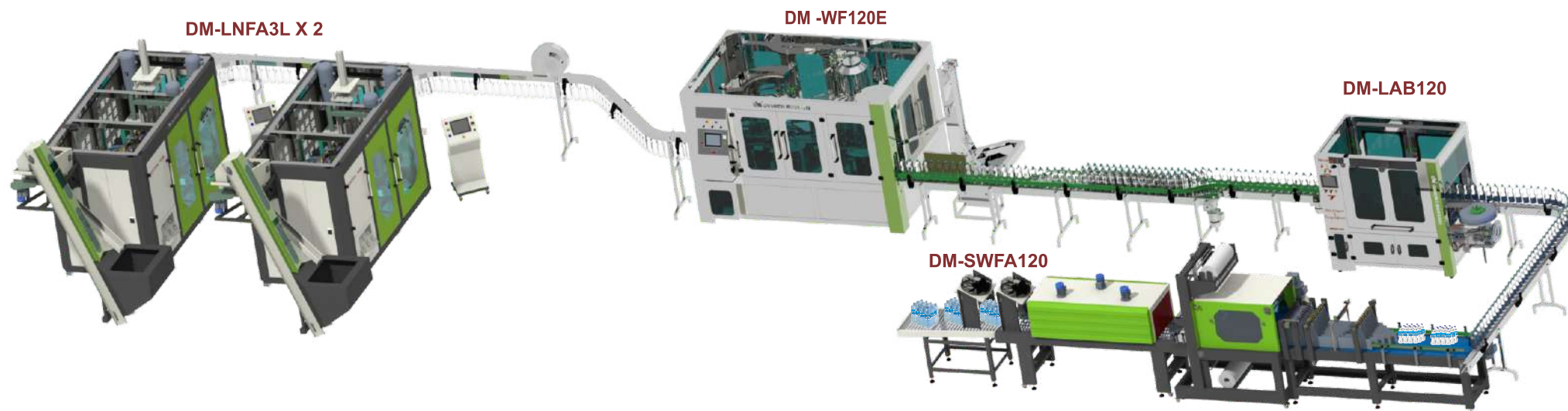


FUTURE TECHNOLOGY FOR NEXT GENERATION

Turnkey Project - Fully Automatic Filling Line **60BPM** for Water (Upto 2000ml)

SPECIFICATION	DM-LNFA3L	DM -WF60E	DM-LAB60	DM-SWFA60
Machine Specifications	Machine Model - DM-LNFA3L Machine category - Fully Automatic Linear Online No of Cavities - 3 Cavity Production Capacity (Bottles/Hour) - 3600 BPH Blowing Capacity (Min-Max) - 100ml – 2000ml Type of Bottles Blowing - Water, Juice & Soda Types of Preform - Alaska & PCO Bottle Outlet - Through Air Conveyor Size of the Mould (W x T) - 120mm x 385mm (Each)	Machine Model - DM-WF60E Machine category - Fully Automatic Types of Operation - Rinsing, Filling & Capping Production Capacity - 3600 BPH - 4500 BPH Bottle Feeding - Through Air Conveyor Air Conveyor Length - 3 Mtrs Filling Volume - 150ml – 2000ml Out feed Conveyor Length - 6 Mtrs	Machine Model - DM-LAB60 Machine category - Automatic Production Capacity - 3600 BPH - 4500 BPH Cutting & Gluing - Automatic Conveyor Length - 2.5 Mtrs	Machine Model - DM-SWFA60 Machine category - Fully Automatic Production Capacity - 4 - 6 Shrunk Boxes 3600 BPH - 4200 BPH Matrix Size - Changeable Bottle Collateral System - Automatic Shrunk Box Outlet - Through Roller Conveyor
Container Specifications	Neck Diameter - 28mm - 36mm (Anyone Size) Max. Diameter of Bottle - 105mm Max. Height of the Bottle - 340mm	Types of Bottles Filling - Water Bottle Bottle Neck Dia - 28mm, Alaska Max Container Dia - 105mm Max Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm
Electrical Specifications	Pre-Heating System - Near Infrared No of Heaters - 16 Nos Heater Capacity - 2000 Watts, 220V AC Machine Connected Power - 12KW, 3 Phase Machine with Accessories Connected Power - 44 KW, 3 Phase Total Power Consumption with Accessories - 31KWH (units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Machine Connected Power (without Shrink Tunnel) - 4.5HP / 3.5KW, 3Phase Machine Power Consumption - 3KWH (Units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Pipe heaters, Rope Heaters & Plate Heater Total No. of Heaters - 4 Nos Total Heaters Power - 3000 Watts, 1 Phase Total Motors Power - 3.75HP, 3 Phase Machine Connected Power - 5KW, 3 Phase Total Power Consumption (Include Accessories) - 4KWH (Units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Tube Porcelain Heater No. of Heaters - 9 Nos Heaters Power (Each) - 3000 Watts, 1 Phase Machine Connected Power - 12.5 KW , 3 Phase Total Power Consumption (Include Accessories) - 10 KWH (Units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ
Pneumatic Specifications (Air System)	Blowing Pressure - 20Bar Working Pressure - 6Bar Air Consumption - 75CFM	Working Pressure - 6Bar Air Consumption - 6CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 4CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 15CFM (Aprox)
Required Accessories	High Pressure Compressor - 32HP/25Bar/80CFM Air Station Water Chiller - 3.5Ton@10°C Cooling Tower - 30TR	Low Pressure Compressor - 10HP/12Bar/30CFM		

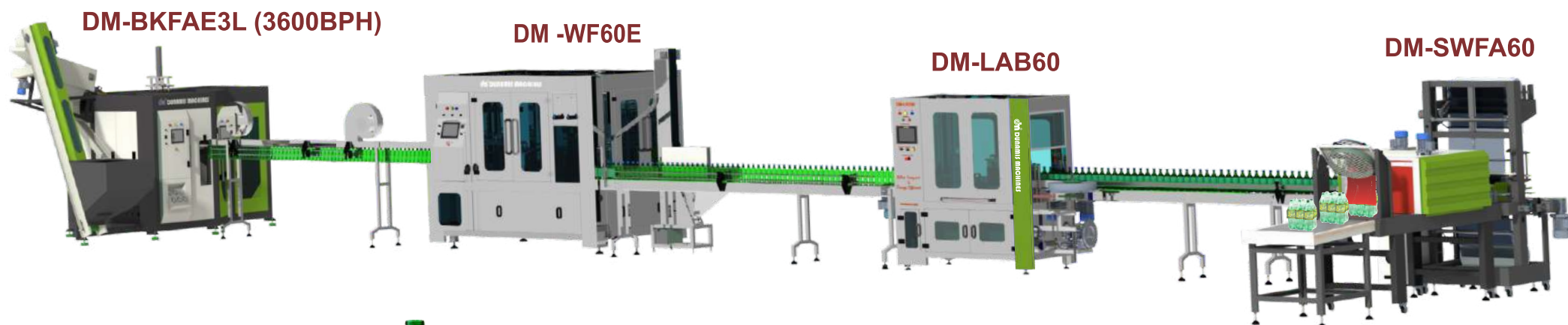
Turnkey Project - Fully Automatic Filling Line 120BPM for Water (Upto 2000ml)



Turnkey Project - Fully Automatic Filling Line **120BPM** for Water (Upto 2000ml)

SPECIFICATION	DM-LNFA3L (2 Nos)	DM -WF120E	DM-LAB120	DM-SWFA120
Machine Specifications	Machine Model - DM-LNFA3L Machine category - Fully Automatic Linear Online No of Cavities - 3 Cavity Production Capacity - 3600 BPH (Bottles/Hour) Blowing Capacity (Min-Max) - 100ml – 2000ml Type of Bottles Blowing - Water, Juice & Soda Types of Preform - Alaska & PCO Bottle Outlet - Through Air Conveyor Size of the Mould (W x T) - 120mm x 385mm (Each)	Machine Model - DM-WF120E Machine category - Fully Automatic Types of Operation - Rinsing, Filling & Capping Production Capacity - 7200 BPH - 9000 BPH Bottle Feeding - Through Air Conveyor Air Conveyor Length - 6 Mtrs Filling Volume - 150ml – 2000ml Out feed Conveyor Length - 9 Mtrs	Machine Model - DM-LAB120 Machine category - Automatic Production Capacity - 7200 BPH - 9000 BPH Cutting & Gluing - Automatic Conveyor Length - 3 Mtrs	Machine Model - DM-SWFA120 Machine category - Fully Automatic Production Capacity - 8 - 12 Shrunk Boxes 7200 BPH - 9000 BPH Matrix Size - Changeable Bottle Collateral System - Automatic Shrunk Box Outlet - Through Roller Conveyor
Container Specifications	Neck Diameter - 28mm - 36mm (Anyone Size) Max. Diameter of Bottle - 105mm Max. Height of the Bottle - 340mm	Types of Bottles Filling - Water Bottle Bottle Neck Dia - 28mm, Alaska Max Container Dia - 105mm Max Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm
Electrical Specifications	Pre-Heating System - Near Infrared No of Heaters - 16 Nos Heater Capacity - 2000 Watts, 220V AC Machine Connected Power - 12KW, 3 Phase Machine with Accessories - 44 KW, 3 Phase Connected Power Total Power Consumption - 31KWH (units) with Accessories Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Machine Connected Power - 7HP / 5.5KW, (without Shrink Tunnel) 3Phase Machine Power Consumption - 4.5KWH (Units) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Pipe heaters, Rope Heaters & Plate Heater Total No. of Heaters - 4 Nos Total Heaters Power - 3000 Watts, 1 Phase Total Motors Power - 5.25HP, 3 Phase Machine Connected Power - 6KW, 3 Phase Total Power Consumption - 5KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Tube Porcelain Heater No. of Heaters - 9 Nos Heaters Power (Each) - 4500 Watts, 1 Phase Machine Connected Power 18 KW , 3 Phase Total Power Consumption - 15 KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ
Pneumatic Specifications (Air System)	Blowing Pressure - 20Bar Working Pressure - 6Bar Air Consumption - 75CFM	Working Pressure - 6Bar Air Consumption - 8CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 4CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 15CFM (Aprox)
Required Accessories	High Pressure Compressor - 32HP/25Bar/80CFM Air Station Water Chiller - 3.5Ton@10°C Cooling Tower - 30TR	Low Pressure Compressor - 10HP/12Bar/30CFM		

Turnkey Project - Fully Automatic CSD Filling Line 60BPM (For Soda & Carbonated Soft Drinks)

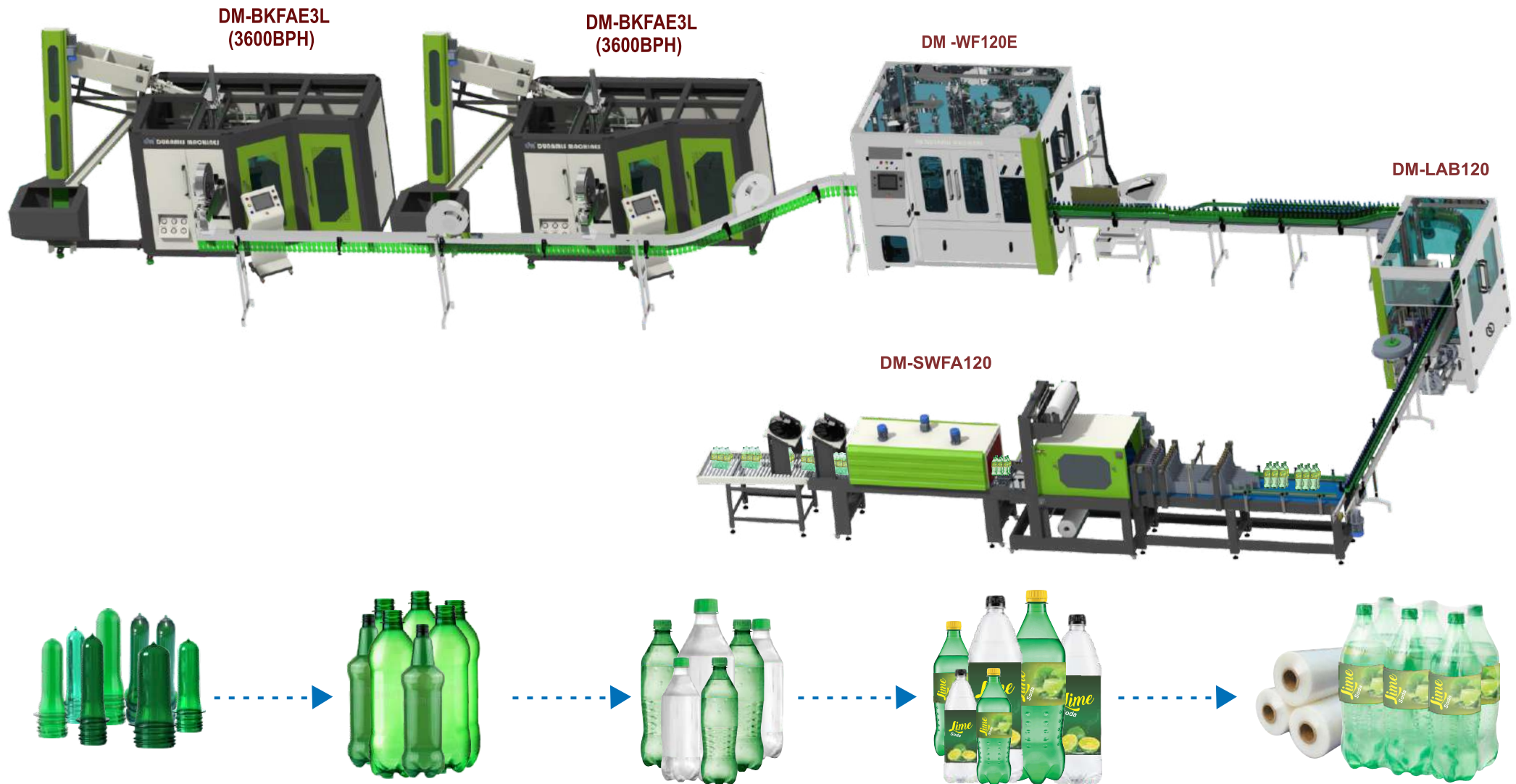


FUTURE TECHNOLOGY FOR NEXT GENERATION

Turnkey Project - Fully Automatic CSD Filling Line **60BPM** (For Soda & Carbonated Soft Drinks)

SPECIFICATION	DM-BKFAE3L	DM -CAF60	DM-LAB60	DM-SWFA60
Machine Specifications	Machine Model - DM-BKFAE3L Machine category - Fully Automatic Online No of Cavities - 3 Cavity Production Capacity (Bottles/Hour) - 3600 BPH Blowing Capacity (Min-Max) - 100ml – 1000ml Type of Bottles Blowing - Water, Juice & CSD Types of Preform - Alaska & PCO Bottle Outlet - Through Air Conveyor Size of the Mould (W x T) - 120mm x 310mm	Machine Model - DM-CAF60 Machine category - Fully Automatic Types of Operation - Rinsing, Filling & Capping Production Capacity - 3600 BPH - 4000 BPH Bottle Feeding - Through Air Conveyor Air Conveyor Length - 3 Mtrs No. of Rinsing Nozzles - 10 Nos Filling Volume - 150ml – 2000ml Number of Filling Valves - 12 Nos Number of Capping Head - 4 Nos Out feed Conveyor (L) - 6 Mtrs Machine Inlet - Product line, Water line, Air line & Electrical Power Line	Machine Model - DM-LAB60 Machine category - Automatic Production Capacity - 3600 BPH - 4500 BPH Cutting & Gluing - Automatic Conveyor Length - 2.5 Mtrs	Machine Model - DM-SWFA60 Machine category - Fully Automatic Production Capacity - 4 - 6 Shrunk Boxes 3600 BPH - 4200 BPH Matrix Size - Changeable Bottle Collateral System - Automatic Shrunk Box Outlet - Through Roller Conveyor
Container Specifications	Neck Diameter - 28mm Max. Diameter of Bottle - 82mm Max. Height of the Bottle - 270mm	Types of Bottles Filling - CSD PET Bottle Bottle Neck Dia - 28mm, PCO Neck Max Container Dia - 105mm Max Container Height - 360mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm
Electrical Specifications	Pre-Heating System - Near Infrared No of Heaters - 12 Nos Heater Capacity - 2000 Watts Machine Connected Power - 9.5KW, 3 Phase Machine with Accessories - 39KW, 3 Phase Connected Power Total Power Consumption - 27KWH (Units) with Accessories Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Machine Connected Power - 7HP / 5KW, 3Phase (Without Shrink Tunnel) Machine Power - 4KWH Consumption Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Pipe heaters, Rope Heaters & Plate Heater Total No. of Heaters - 4 Nos Total Heaters Power - 3000 Watts, 1 Phase Total Motors Power - 3.75HP, 3 Phase Machine Connected Power - 5KW, 3 Phase Total Power Consumption - 4KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Tube Porcelain Heater No. of Heaters - 9 Nos Heaters Power (Each) - 3000 Watts, 1 Phase Machine Connected Power - 12.5 KW , 3 Phase Total Power Consumption - 10 KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ
Pneumatic Specifications (Air System)	Blowing Pressure - 20Bar Working Pressure - 6Bar Air Consumption - 74CFM	Working Pressure - 6Bar Air Consumption - 6CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 4CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 15CFM (Aprox)
Required Accessories	High Pressure Air Station - 32HP/25Bar/80CFM Water Chiller - 3.5Ton@10°C Cooling Tower - 30TR	Low Pressure Compressor - 15HP/12Bar/45CFM		

Turnkey Project - Fully Automatic CSD Filling Line 120BPM (For Soda & Carbonated Soft Drinks)



Turnkey Project - Fully Automatic CSD Filling Line **120BPM** (For Soda & Carbonated Soft Drinks)

SPECIFICATION	DM-BKFAE3L (2 Nos)	DM -CAF120	DM-LAB120	DM-SWFA120
Machine Specifications	Machine Model - DM-BKFAE3L Machine category - Fully Automatic Online No of Cavities - 3 Cavity Production Capacity - 3600 BPH (Bottles/Hour) Blowing Capacity (Min-Max) - 100ml – 1000ml Type of Bottles Blowing - Water, Juice & CSD Types of Preform - Alaska & PCO Bottle Outlet - Through Air Conveyor Size of the Mould (W x T) - 120mm x 310mm	Machine Model - DM-CAF120 Machine category - Fully Automatic Types of Operation - Rinsing, Filling & Capping Production Capacity - 7200 BPH - 8000 BPH Bottle Feeding - Through Air Conveyor Air Conveyor Length - 6 Mtrs Number of Rinsing Nozzles - 16 Nos Filling Volume - 150ml – 2000ml Number of Filling Valves - 20 Nos Number of Capping Head - 8 Nos Out feed Conveyor Length - 9 Mtrs Machine Inlet - Product line, Water line, Air line & Electrical Power Line	Machine Model - DM-LAB120 Machine category - Automatic Production Capacity - 7200 BPH - 9000 BPH Cutting & Gluing - Automatic Conveyor Length - 3 Mtrs	Machine Model - DM-SWFA120 Machine category - Fully Automatic Production Capacity - 8 - 12 Shrunk Boxes 7200 BPH - 9000 BPH Matrix Size - Changeable Bottle Collateral System - Automatic Shrunk Box Outlet - Through Roller Conveyor
Container Specifications	Neck Diameter - 28mm Max. Diameter of Bottle - 82mm Max. Height of the Bottle - 270mm	Types of Bottles Filling - CSD PET Bottle Bottle Neck Dia - 28mm, PCO Neck Max Container Dia - 105mm Max Container Height - 360mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm	Type of Bottles - Same Size and Height Max. Bottle Volume - 2000ml Max. Container Dia - 105mm Max. Container Height - 350mm
Electrical Specifications	Pre-Heating System - Near Infrared No of Heaters - 12 Nos Heater Capacity - 2000 Watts Machine Connected Power - 9.5KW, 3 Phase Machine with Accessories - 39KW, 3 Phase Connected Power Total Power Consumption - 27KWH (Units) with Accessories Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Machine Connected Power - 12HP / 9KW, 3Phase (Without Shrink Tunnel) Machine Power - 7KWH Consumption Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Pipe heaters, Rope Heaters & Plate Heater Total No. of Heaters - 4 Nos Total Heaters Power - 3000 Watts, 1 Phase Total Motors Power - 5.25HP, 3 Phase Machine Connected Power - 6KW, 3 Phase Total Power Consumption - 5KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ	Type of Heaters - SS Tube Porcelain Heater No. of Heaters - 9 Nos Heaters Power (Each) - 4500 Watts, 1 Phase Machine Connected Power 18 KW , 3 Phase Total Power Consumption - 15 KWH (Units) (Include Accessories) Type of Electrical Panel - PLC Based Control Panel with HMI Electrical Supply - 3 Phase with Neutral, 415Volt, 50 HZ
Pneumatic Specifications (Air System)	Blowing Pressure - 20Bar Working Pressure - 6Bar Air Consumption - 74CFM	Working Pressure - 6Bar Air Consumption - 20CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 4CFM (Aprox)	Working Pressure - 6Bar Air Consumption - 15CFM (Aprox)
Required Accessories	High Pressure Air Station - 32HP/25Bar/80CFM Water Chiller - 3.5Ton@10°C Cooling Tower - 30TR	Low Pressure Compressor - 15HP/12Bar/45CFM		



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पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 of The Patents Rules)

क्रमांक : 044143434
SL No :



पेटेंट सं. / Patent No. : 402823
आवेदन सं. / Application No. : 202141044265
फाइल करने की तारीख / Date of Filing : 29/09/2021
पेटेंटी / Patentee : DUNAMIS MACHINES INTERNATIONAL PRIVATE LIMITED

प्रमाणित किया जाता है कि पेटेंटी को, उपरोक्त आवेदन में यथाप्रकटित A CAP-ASSEMBLY FOR CARBONATED BEVERAGE CONTAINER AND A METHOD OF SEALING CARBONATED BEVERAGE CONTAINER नामक आविष्कार के लिए, पेटेंट अधिनियम, 1970 के उपबंधों के अनुसार आज तारीख सितम्बर 2021 के उन्नीसवें दिन से बीस वर्ष की अवधि के लिए पेटेंट अनुदान किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled A CAP-ASSEMBLY FOR CARBONATED BEVERAGE CONTAINER AND A METHOD OF SEALING CARBONATED BEVERAGE CONTAINER as disclosed in the above mentioned application for the term of 20 years from the 29th day of September 2021 in accordance with the provisions of the Patents Act, 1970.



अनुदान की तारीख : 02/08/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, सितम्बर 2023 के उन्नीसवें दिन को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।
Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 29th day of September 2023 and on the same day in every year thereafter.



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सत्यमेव जयते

भारत सरकार
GOVERNMENT OF INDIA

पेटेंट कार्यालय
THE PATENT OFFICE

पेटेंट प्रमाणपत्र
PATENT CERTIFICATE
(Rule 74 Of The Patents Rules)

क्रमांक : 044140724
SL No :



पेटेंट सं. / Patent No. : 395648
आवेदन सं. / Application No. : 202141040654
फाइल करने की तारीख / Date of Filing : 08/09/2021
पेटेंटी / Patentee : DUNAMIS MACHINES INTERNATIONAL PRIVATE LIMITED

प्रमाणित किया जाता है कि पेटेंटी को उपरोक्त आवेदन में यथाप्रकटित COMBINED PET BLOWING VALVE ASSEMBLY FOR BLOW MOLDING MACHINES नामक आविष्कार के लिए, पेटेंट अधिनियम, १९७० के उपबंधों के अनुसार आज तारीख 8th day of September 2021 से बीस वर्ष की अवधि के लिए पेटेंट अनुदत्त किया गया है।

It is hereby certified that a patent has been granted to the patentee for an invention entitled COMBINED PET BLOWING VALVE ASSEMBLY FOR BLOW MOLDING MACHINES as disclosed in the above mentioned application for the term of 20 years from the 8th day of September 2021 in accordance with the provisions of the Patents Act, 1970.

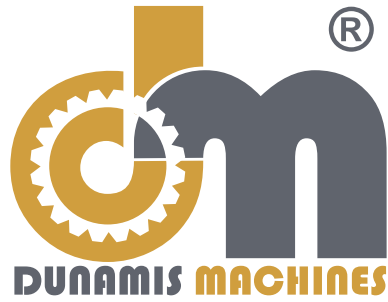


अनुदान की तारीख : 28/04/2022
Date of Grant :

पेटेंट नियंत्रक
Controller of Patent

टिप्पणी - इस पेटेंट के नवीकरण के लिए फीस, यदि इसे बनाए रखा जाना है, 8th day of September 2023 को और उसके पश्चात प्रत्येक वर्ष में उसी दिन देय होगी।

Note. - The fees for renewal of this patent, if it is to be maintained will fall / has fallen due on 8th day of September 2023 and on the same day in every year thereafter.



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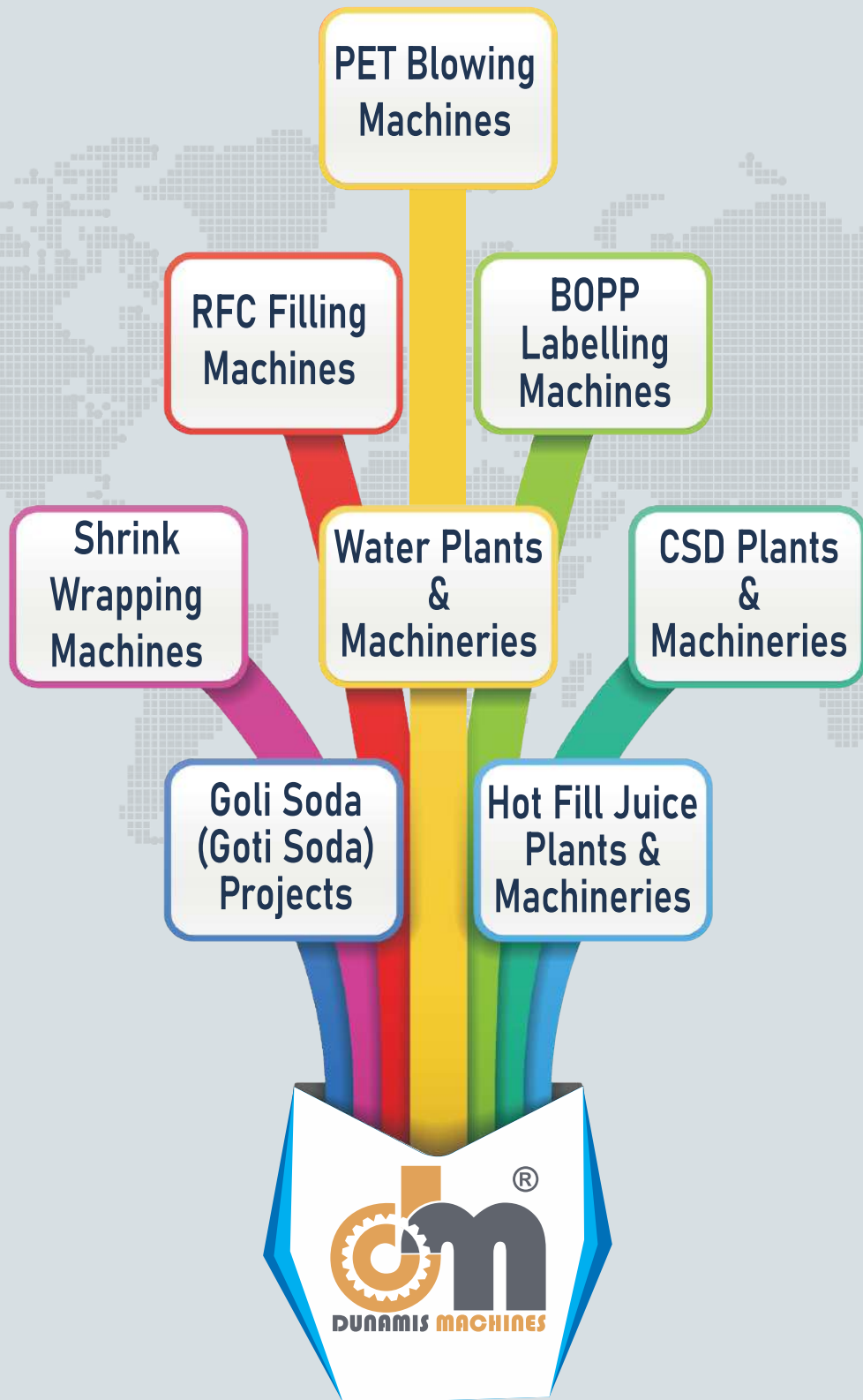
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