

Fully Automatic PET Stretch Blow Molding Machine All Electric Servo Series

2400 to 12000 BPH



Where Innovation
Meets Excellence



BLOWMECH AND ALLIED MACHINERIES

www.blowmech.com

ABOUT US

Leading Innovation Blowmech and Allied Machineries

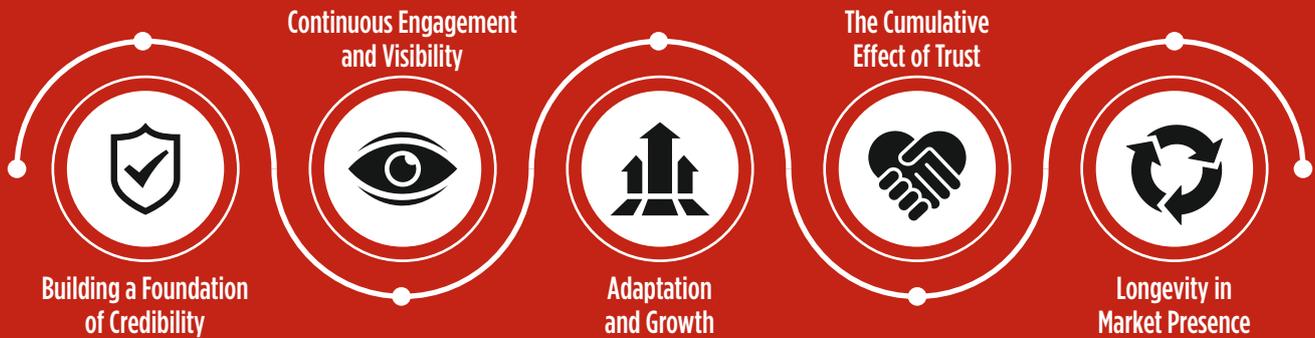
Welcome to **BLOWMECH AND ALLIED MACHINERIES**,

Where Innovation Meets Excellence.

Dedicated to supremacy, we specialize in the production of high-quality Fully Automatic PET Stretch Blow Molding Machine All Electric Servo Series Machines that are aimed at driving success and satisfaction for our clients. Our success is driven by a dynamic leadership team comprising three distinguished directors, each bringing a wealth of experience and expertise to our organization. The cohesive leadership team of directors is dedicated to guiding BLOWMECH AND ALLIED MACHINERIES to new levels by developing state-of-the-art Fully Automatic PET Stretch Blow Molding machines that cater to the evolving needs of modern plastic product manufacturers.



OUR VISION AND MISSION



OUR INFRASTRUCTURE

Precision Manufacturing Hub for Blow Molding Machines

Our total production facility spans 100,000 square feet and includes dedicated areas for:

- Fabrication
- Assembly
- Painting
- Panel Wiring
- Storage of Raw Materials & Components

Our manufacturing capabilities for Blow Molding Machine components include:

- CAD/CAM Softwares 2D & 3D
- Drilling, Milling, Boring & Planer Machines
- ERP & Inventory Management
- Profile, Plasma Cutting, & Bending Machines
- Lathe, CNC, & VMC Machines
- Blasting, Painting & Powder Coating Plants



TECHNICAL FEATURES OF MACHINE

Electric Servo Stretching Unit

- For Perfect centring & formation of bottle
- Servo stretching as a standard feature provides flexibility & easy setting
- Fast & energy efficient
- Steples programming of stretching speed & position
- Accurate & repeatable
- No mechanical settings required for different bottle sizes
- Smooth and silent operation with no jerks & vibrations
- Maintenance free

Clamping Unit

- Penumatic/Eletric mold clamping unit
- High pressure wedge locking, compensation system
- Avoiding parting line during production
- Fast production

Best in class air recovery & management system

- Optimized & sophisticated air recovery & management
- system for guaranteed lowest air consumption.
- Hence power saving.

Direct feed to air conveyor. No cumbersome bottle tilting or re-orientation required

- Feeds the air conveyor directly
- Bottles are blown neck up & hence no inversion of bottles required
- The bottles exit from the mold & are free directly into the air conveyor
- High speed servo motor controlled
- pick & place unit for discharge & feeding into the air conveyor
- Maintenance free operation

Norgren Valve Manifold for Blowing

- Advanced high pressure seal technology
- Robust compact & light weight design proven
- Reliable technology & maintenance free
- Higher flow rate
- Excellent response time & repeatability
- Lower power consumption (2 W)

Industry 4.0 Ready

- Our advanced sophisticated 4.0 controller is ready
- As an optional feature
- Customers can now monitor their machine performances with production data.
- Downtime, uptime, alarms, OFE etc.
- Data is pushed to the cloud & can be accessed on a daily, weekly or monthly basis on simple graphical dashboards either on PC's or smartphones

Powerful oven to give very good bottle quality & quick start-up

- Processing is now easier
- Consistent preheating of preforms due to centralised heating system 2 phase
- Precise temperature control of preform
- Powerful oven with pre-heater to blow entire range preforms
- Pre-heater oven separated to give best results with preforms due to single & double coated IR lamps Very easy to process bottle

WHY CHOOSE US?



Trustworthy



Innovations



Customer-Centric



Global Reach

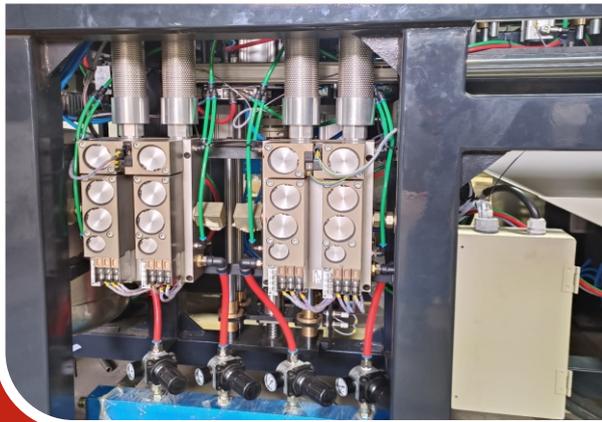


Sustainability



Integrity

Fully Automatic PET Stretch Blow Molding Machine
All Electric Servo Series



Blowing Valves Manifold



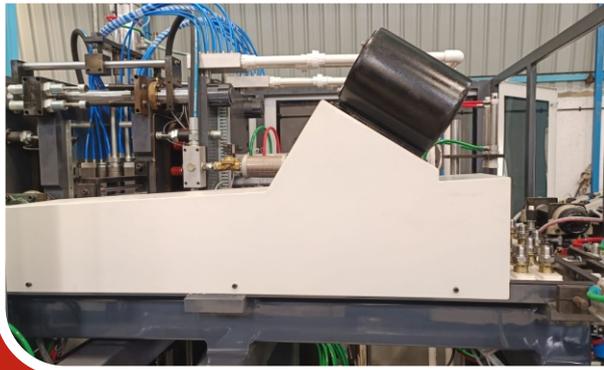
Bottle Ejector



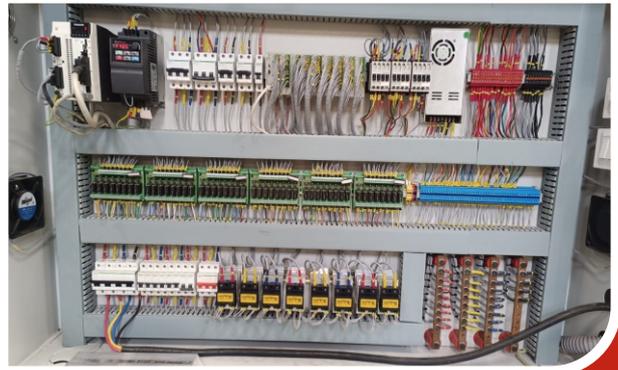
Mold Clamping Unit



Bottle Ejector & Takeoff Unit



Air Cooling Tunnel



Electrical Control Panel



Preforms Hopper



Infrastructure



PET Bottles Blow Molds



SS Air Tanks



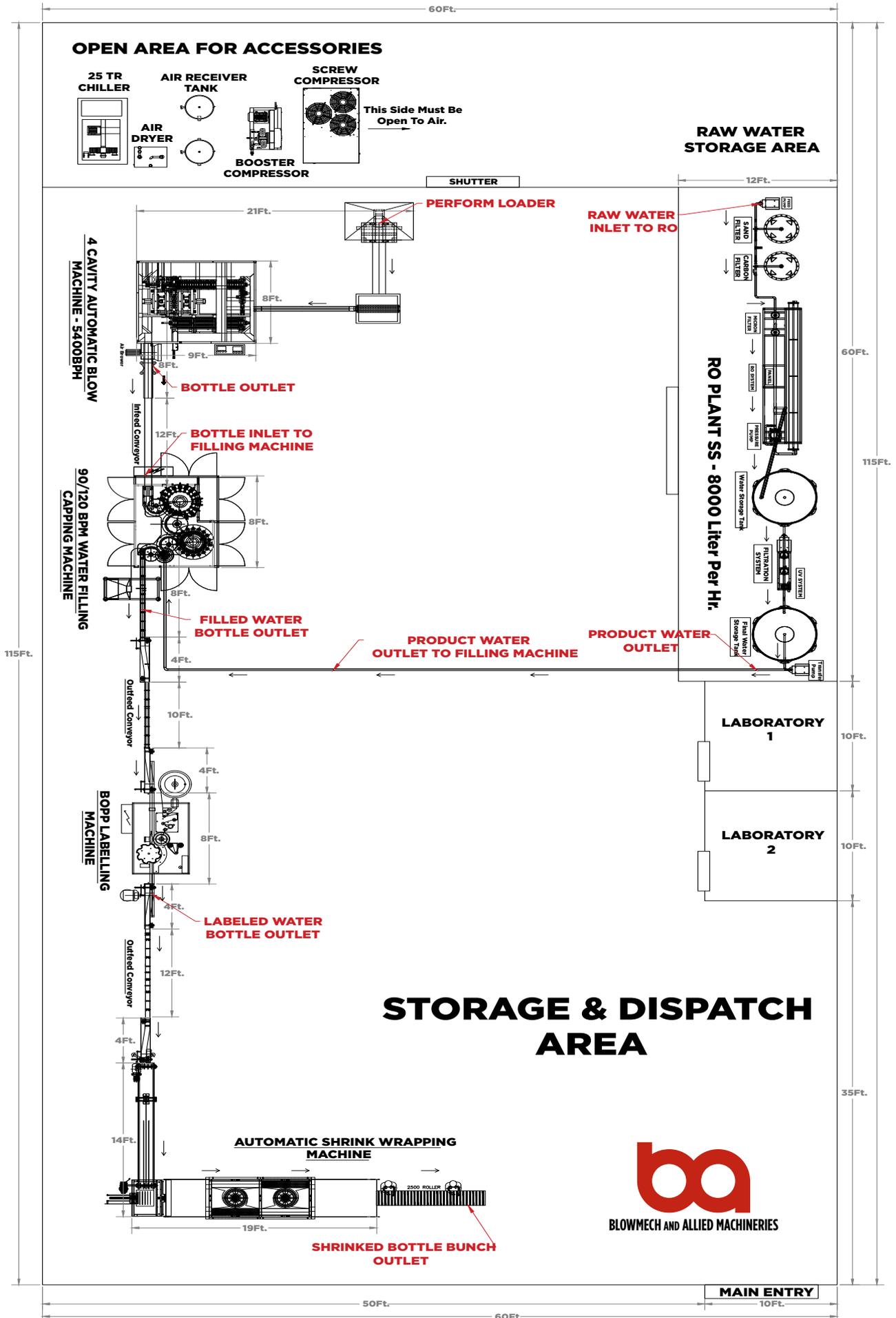
Motorised Lubrication Pump

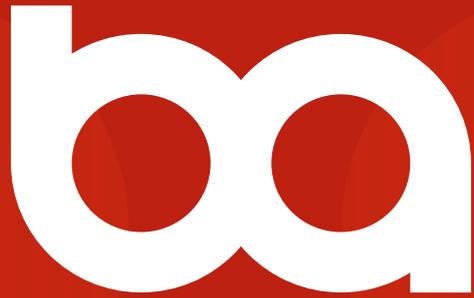
TECHNICAL SPECIFICATIONS

	TECHNICAL DETAILS	UNITS	BAM-2/1000 Singal Axis Electric Servo	BAM-4/1000 Singal Axis Electric Servo	BAM-4/1000 All Electric Servo
Machine Details	Number Of Cavity	Nos.	2	4	4
	Cavity Pitch	mm	100	110	100
	Mould Thickness	mm	180	180	180
	Stretching Stroke	mm	450	450	450
	Clamping Stroke	mm	70	70	70
	Min - Max Neck Outer Dia	mm	25-30	25-30	25-30
Container	Max. Product Diameter	mm	80	80	80
	Max. Height	mm	280	280	280
	Min - Max. Volume	mm	200-1000 ml	200-1500 ml	200-1000 ml
Production Output (Bph)	200ml To 1000ml	Bph	3600 @ 1Ltr	5400 @ 1Ltr	7200 @ 1Ltr
Connected Power	Length Of Each Heating Module	mm	628 x 2	628 x 2	950 x 4
	Number Of Heating Module	No s	2	2	4
	Number Of IR Heaters	No s	14	14	24
	Total Heating Power	Kw	21	28	48
	Conveyer Motor & Blower	Kw	1.5	1.5	1.5
	Total Connected Load	Kw	22.5	29.5	49.5
Consumption Power	Actual Power Consumption 55%	Kw	13.5	17.5	27
	Operating Pressure (Lp)	Bar	8-10	8-10	8-10
Air Consumption	LP Air Consumption	Bar	60	80	80
	Blowing Pressure (Hp)	Bar	30-35	30-35	30-35
	HP Air Consumption @ 1Ltr	Cfm	125	187	250
Chilled Water	Temperature	C	8-12° C	8-12° C	8-12°C
	Capacity	Ton	5 TR	6 TR	6 TR
Space Required for Machine Dimensions	Weight Of Machine	Ton	TON	4TON	5TON
	Machine + Preform Hopper	mm	5245 (L)	5245 (L)	5310 (L)
	Loader (L x W x H)		3480 (W)	3470 (W)	
			3660 (H)	3660 (H)	

Note : Customised Machines Can Be Also Designed For Bottles & Wide Mouth Container

LAYOUT FLOOR PLAN FOR WATER LINE PROJECT





BLOWMECH AND ALLIED MACHINERIES



Manufacturing Address :

Gala No-3, Ground Floor, KT Emreld-1, Near Vinayak Hardware, Gorai Pada,
Vasai East, Dist. Palghar (MH) - 401208 , India.

Contact : +91 7486860683

Find us on :



purchase@blowmech.com | www.blowmech.com



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