



GLOBAL PET
INDUSTRIES LIMITED



**FULLY AUTOMATIC PET STRETCH
BLOW MOULDING MACHINE**

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Technical Features

- **GPSB Series Machines** - Two Stage Process Linear type Stretch Blow Moulding Machine with simple & unique designs.
- **Schneider PLC** - Controlled by high-performance Schneider Electric Modicon M340 PLC with 4MB SD card memory and rugged construction operated by HMI with TFT 7" colour touch screen, supporting more than 2000 recipes and Ethernet/USB ports for connectivity.
- **Hydraulic Mould Clamping System** - Ensures less than hair parting line in the bottles. Hydraulic Check Valve in Mould holding while blowing process for saving up to 25% electrical power.
- **Pneumatic Mould Clamping Unit** - Ensures less than hair parting line in the bottles, Pneumatic System and Compensation System is used for operating clamping System with less Air Consumption.
- **Infra-Red Heater reflector with Air Circulating System** - Ensures uniform heating of Thick wall Preforms.
- **Sensors & Multiple Security Devices** - Highly sensitive Sensors are provided to ensure safety of the operator as well as Machine.
- **Cooling System** - In Built cooling system for cooling of preform neck, Mould & Hydraulic Oil to avoid Neck deformation, Filling Volume Shrinkage & maintain Hydraulic Oil ambient Temperature.



FULLY AUTOMATIC PET STRETCH BLOW MOULDING MACHINE FOR BOTTLES & JARS (VOLUME 100 ML Upto 5000 ML)														
	TECHNICAL DETAILS			Machine Model	GPSB-2/500 (100 CTC) 50 BPM (Hydraulic)	GPSB-2/1000 (100 CTC) 45 BPM (Hydraulic PP & PET)	GPSB-2/1000 (100 CTC) 55-60 BPM (Pneumatic PET)	GPSB-2/2000 (115 CTC) 45-50 BPM (Pneumatic)	GPSB-2/2000 (130 CTC) 40 BPM (Hydraulic)	GPSB-4/2000 (115 CTC) 80 BPM (Hydraulic)	GPSB-4/2000 (130 CTC) 70 BPM (Hydraulic)	GPSB-BJ-1/2000 (110N)	GPSB-BJ-1/5000 (120N)	GPSB-BJ-2/2000(160 CTC)
Segment			Units	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Household	Household / Commercial	Confessionaries
MOULDING	Number of Cavities		Nos.	2	2	2	2	2	2	4	4	1	1	2
	Cavity Pitch		mm	100	110	100	130	130	130	115	130	-	-	160
	Mould Thickness		Min (mm)	160	160	160	160	160	160	160	160	210	270	220
			Max mm	170	170	160	160	160	170	170	170	220	280	225
	Clamping Stroke		mm	190	190	190	190	190	190	190	190	190	240	190
	Stretching Stroke		mm	350	400	400	450	450	450	430	430	450	450	
CONTAINER	Bottom Stroke		mm	50-75	50-75	50-75	50-75	50-75	100	100	50	50	75	50
	Preform Holders		Nos.	128	56	128	128	56	164	60	38	38	72	
	Max Neck Diameter		mm	25-30	25-30	25-30	25-30	25-30	25-30	25-30	110	120	83	
	Max Product Diameter		mm	75	78	75	100	100	100	110	125	140	190	125
	Min Volume		ML	200	100	200	200	200	200	200	100	100	250	100
	Max Volume		ML	500	1000	1000	2000	2000	2000	2000	3500	4000	5000	3500
OUTPUT	Max Height		mm	240	280	280	340	340	340	340	340	350	360	350
	Theoretical Production		B / Hr.	3000-3200	PP 1800-2000 PET 3300-3500	3000-3200	2600-2800	2400-2500	3800-4800	3600-4000	1000-1200	1000-1200	900-1000	
			J / Hr.	-	-	-	-	-	-	-	900-1100	900-1000	700-900	1800-2000
	Length of Heating Module		mm	1100	1300	1300	1400	1100	1440	1440	1100	1300	1600	1100
	Number of Heating Zones		No.	2	4	2	2	2	4	4	2	2	3	2
	Number of IR Heaters		Nos.	7	7	7	8	8	8	8	8	8	10	8
ELECTRICAL POWER CONSUMPTION	Number of IR Heaters		Nos.	14	28	14	16	16	32	32	16	16	30	16
	Max Heating Power		KW	21	42	21	24	28	48	48	24	24	45	30
	HYD Pump Motor		KW	3.75	5.5			5.5	11.25	11.25	5.5	5.5	7.5	7.5
	Other Supporting Motors		KW	1	1	1	1	1	1	1	0.5	0.5	0.5	0.5
	Total Connected Power		KW	25.5	48.5	22	25	34.5	60	60	30	30	53	40
		Operating Pressure (LP)		Bar	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10	8-10
AIR CONSUMPTION	LP Air Consumption		CFM	46-50	44-48	46-50	46-50	46-50	96-100	108-112	38-42	38-42	46-50	40-45
	Blowing Pressure (HP)		Bar	25-35	25-30	25-35	25-35	25-35	25-35	25-35	25-30	25-30	25-30	25-30
	HP Air Consumption		CFM	40-50	80-90	80-90	120-130	110-120	200-210	190-200	70-75	70-75	100-110	100-120
	Temperature		°C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C	8 - 12 °C
	Capacity		Ton	3	3	3	3	3	6	6	3	3	3	5
Machine Dimensions Without Preform Storage Hopper	Size (LXHXW)		mm	2570 X 2295 X 2300	2585 X 2145 X 2310	2570 X 2295 X 2300	2600 X 2650 X 2450	2600 X 2650 X 2450	3062 X 3385 X 2815	3100 X 3510 X 2824	2750 X 2150 X 2500	3000 X2500 X 2585		
	Machine Dimensions & Weight With Preform Storage Hopper	Size (LXHXW)	mm	6015X 3320 X 3153	6030 X 3320 X 3153	6015X 3320 X 3153	6077X3430 X3153	6077X3430 X3153	6343 X 4039 X 3464	6381 X 4234 X2824	-	-	-	-
		Weight of the Machine	Ton	2.5	2.5	2.5	2.5	2.5	2.5	4	4	2.5	3	2.5
		Segments		-	PHARMA & LIQUOR	PP & PET	BEVERAGE	BEVERAGE	HOUSEHOLD,OIL PESTICIDES	BEVERAGE	38MM OIL BOTTLE	JAR,HOUSEHOLD, CONFECTIONARIES,PESTICIDES	JAR,HOUSEHOLD, CONFECTIONARIES,PESTICIDES	JAR,HOUSEHOLD, CONFECTIONARIES,PESTICIDES

Please note: FOR ALL THE ABOVE MACHINE MODEL POWER CONSUMPTION WILL NOT MORE THAN 60%

Automatic Preform Feeding System

- Fully Automatic preform feeding system reducing Man Power.
- Capacity of up to 7000 performs at a time ensuring uninterrupted Production for at least 1.5 hours.
- Option of 2 to 6 preform feeding at a time.

Integrated Online Air Conveyor System for RFCL Line

- Air conveyors are designed to convey the empty blown PET bottles directly to Rinsing Filling Capping (RFC) Machine from the blowing machine without any Manual / Human intervention.
- To eliminate Manual / Human Intervention, we provide Bottle Discharge Table & Take-Off unit with Integrated 1 Metre Stainless Steel Air Conveyor with Blower along with Pre-filters & Blower suitable to carry Bottle up to 5 Metres for Online Bottle Rinsing Filling Capping Line..

Moulds

- **Versatile range of Moulds :**
Variety of machine models ranging from 1-6 Cavity of narrow to wide mouth Preforms.

- **Material Selection :**
Choice in use of Aluminum Alloy 6082 (He30), Alumec 89, Alumec 99, C45 Steel, R2 Steel with Diamond Polish and Hard Chrome plating to ensure excellent Bottle finish.

- **Integrated Cooling System :**
Fully integrated Mould Cooling system for minimum Shrinkage ensuring of accuracy in\ Bottle Volume.

Fully Automatic Jar Machine Both Single & Double Cavity Capacity Upto 5 Ltr.





We provide PET Stretch Blow Mouldings Solutions from 100ml to 5000ml in Fully Automatic Machines.



Mineral Water Bottles



Mineral Water Jars



Carbonated Soft Drink



Hot Fill Juice



Edible Oil Bottles



Pesticides & Pharma Bottles



Liquid Detergent Products



Liquor & Distilleries



PET Fridge Bottles



Confectionary Jars



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