



GLOBAL PET
INDUSTRIES LIMITED

FULLY AUTOMATIC PET STRETCH BLOW MOULDING MACHINE





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)

Segment	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	Nos.	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Commercial	Household	Household / Commercial	Confectionaries	
MOULDING	Number of Cavities		2	2	2	2	2	4	4	1	1	2	
	Cavity Pitch	mm	100	110	100	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	170	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	430	430	450	450	450	50
	Bottom Stroke	mm	50-75	50-75	50-75	50-75	50-75	50-75	100	100	50	75	72
	Preform Holders	Nos.	128	56	128	128	164	60	60	40	38	38	83
	Max Neck Diameter	mm	25-30	25-30	25-30	25-30	25-30	25-30	25-30	83	110	120	125
	Max Product Diameter	mm	75	78	75	100	110	110	110	125	140	190	125
CONTAINER	Min Volume	ML	200	100	200	200	200	200	200	100	250	100	
	Max Volume	ML	500	1000	1000	2000	2000	2000	2000	3500	5000	3500	
	Max Height	mm	240	280	280	340	340	340	340	350	360	350	
	Theoretical Production	B / Hr.	3000-3200	PP 1800-2000	3000-3200	2600-2800	2400-2500	3800-4800	3600-4000	1000-1200	1000-1200	900-1000	1800-2000
		J / Hr.	-	PET 3300-3500	-	-	-	-	-	900-1100	900-1000	700-900	1800-2000
ELECTRICAL POWER CONSUMPTION	Length of Heating Module	mm	1100	1300	1300	1400	1100	1440	1440	1300	1600	1100	
	Number of Heating Module	No.	2	4	2	2	2	4	4	2	3	2	
	Number of Heating Zones	Nos.	7	7	7	8	8	8	8	8	8	8	
	Number of IR Heaters	Nos.	14	28	14	16	16	32	32	16	16	16	
	Max Heating Power	KW	21	42	21	24	28	48	48	24	24	45	
	HYD Pump Motor	KW	3.75	5.5	5.5	5.5	5.5	11.25	11.25	5.5	5.5	7.5	
	Other Supporting Motors	KW	1	1	1	1	1	1	1	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	8-10
	AIR CONSUMPTION	LP Air Consumption	CFM	46-50	44-48	46-50	46-50	46-50	96-100	108-112	36-40	38-42	46-50
Blowing Pressure (HP)		Bar	25-35	25-30	25-35	25-35	25-35	25-35	25-35	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	
CHILLED WATER	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	
	Capacity	Ton	3	3	3	3	3	6	6	3	3	5	
Machine Dimensions & Weight 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	2600 X 2150 X 2500	2750 X 2150 X 2500	3000 X 2500 X 2585	
	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	-	-	-	
Preform Storage Hopper	Weight of the Machine	Ton	2.5	2.5	2.5	2.5	2.5	4	4	2.5	3	2.5	
Machine Dimensions & Weight With Preform Storage Hopper	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.





**GLOBAL PET
INDUSTRIES LIMITED**



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



Self Gripping Edible Oil Handle Type Jars



Liquid Detergent Products



Liquor & Distilleries



PET Fridge Bottles





Confectionary Jars



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