Linear Full Servo Automatic Blow Molding Machines HB-4/5/6M

Machine Advantages

1. Energy saving over 50%, benefit from minimum preform heating pitch;
2. Structures with optimized design enable a higher per cavity output, with stable running;
3. Comparing with standard normal machine, few air cylinders in use, less maintenance cost;
4. Equipped with servo motors, faster action, no separate low pressure air input required;

Main Features

1. Preform Feeding

1）Rotary dial plate design enable continuous and high speed preform feeding;
2）No pneumatic claws, more reliable and less maintenance;
3）Multiple protection device for precise preform feeding.

2. Transfer and heating

1）Horizontal rotation transfer style, no preform turnover, simple structure;
2）Compact preform heating pitch for less energy consumption;
3）Cooling channel applied in neck area to guarantee no deform of preform neck;
4）Optimized ventilation to ensure heating consistency;
5）Equipped with function of preform temperature detection.

3. Transfer and bottle out

1）Servo motor driving for preform transfer and location with quick and precise action；

2）No pneumatic clampers were used for bottle taking out, less maintenance in future, less running cost.

4. Clamping and stretching blow molding

1）Servo motor clamping system with synchronized base blow mould for fast response operatio;
2）Precision electromagnetic blowing valve group for fast and high productivity;
3）No link rod, no toggle structure, simple and reliable clamping system. Less maintenance required

5. Controlling

Siemens controlling system with 9 inch touch screen for simple and stable operation.

6. Others

1）Simplified construction, quick mould change design;
2）Low power and air consumption, longer life-span and lower wear, more clean structure.
3）Be able to be connected directly to air conveyor to bottling production line easily

Technical Data

Model			**HB-4**	**HB-5**	**HB-6M**
Theoretical production capacity		BPH	6000	7500	9000
Number of mold cavity		PC	4	5	6
CONTAINER	Max.Bottle Volume	L	2.5	1.5	0.75
	Max. Neck Diameter	mm	30	30	30
	Max.bottle Diameter	mm	110	95	75
	Max. bottle height	mm	350	350	280
MOLDING	Spindle Chain Pitch	mm	38.1	38.1	38.1
	Cavity Pitch	mm	120	105	85
Power	Max.heating power	KW	50	40	40
	Motor power	KW	9.75	9.75	9.75
	Total Power	KW	63	54	54
	Actual power consumption	KW	18	15	15
	Voltage/Frequency	V/HZ	380/220V±10% 50/60HZ		
AIR SYSTEM	Blowing pressure	bar	35	35	35
	High Pressure Consuming	L/min	8500	8500	5000
MOLD COOLING WATER	Operating Pressure	Bar	3-5	3-5	3-5
	Temperature Range	℃	10-12	10-12	10-12
	Flow Rate	L/min	50	50	50
	Cooling capacity	HP	5	5	5
HEATER COOLING WATER	Operating Pressure	bar	3-5	3-5	3-5
	Temperature Range	℃	10-12	10-12	10-12
	Flow Rate	L/min	50	50	50
	Cooling capacity	HP	5	5	5
Machine	Measurement(LxWxH)	m	4.0*1.4*2.2	4.0*1.4*2.2	4.0*1.4*2.2
	Weight	KG	4400	4400	4400