



## *Semi Automatic Blow Molding Machine JKA-series*



### **Features:**

Semi- automatic blow molding machine is the latest model developed by our company. It is suitable for blowing PET bottles all the machine movements are controlled by computer, pneumatic transmission. High precision of time delay, high reliable operation, strong resistance for disturb, easy for setting time and long service life. Digital automatic temperature adjusting instrument; Two operation modes: single action, and semi-automatic Oven adopts the method of heating by far infrared quartz lamps. Controlling temperature of electro thermal lamps using electronic voltage-adjust, that is using bicolor LED digital controlled silicon to adjust its voltage.

### **Bottle blowing device:**

The two sets of bottle blowing device are located at the upper front of the machine frame. It is composed of extending bar cylinder, bottle-mouth pressing cylinder, blowing pressing-lump and extending bar, etc. When compressed air comes in, the pistons of extending bar cylinder and bottle-mouth pressing cylinder will go down at the same time, the blowing lump will press the bottle mouth very tightly by adjusting itself according to the height of the bottle mouth. Thus there will be no air leak while blowing, the final product turn to be crystal bright.

### **Mould-closing device**

It is located in the middle part of the machine and is composed of mould-closing cylinder, moving template and fixed template, etc. Two halves of the mould is fixed on the fixed template and moving template respectively. Mould-closing cylinder drives moving template and mould move to and from by connecting bar in order to fulfill the action of mould opening & closing.

### **Operation part:**

The operation part of main machine is located at the right front of the machine, equipped with electric control box, where all electric devices are installed. There are power key-switch, power pilot lamp, manual & semi-automatic selection switch, semi-automatic start push-button, up & down switch of extending rod And blowing pressing-lump, blowing & discharge push-button on the panel of control box. So, it is easy to control.

### Air passage system:

The air source can be supplied by centre of pump station or single compressor. This machine has two 2-position 5-way electromagnetic valves which control opening & closing mould, up & down of extending bar, up & down of piston of bottle-mouth pressing cylinder. Two 2-position 2-way electromagnetic valves control the air blowing & discharge towards the mould.

### Configuration:

PLC: MITSUBISHI

Interface & touch screen: MITSUBISHI or HITECH

Solenoid: BURKERT or EASUN

Pneumatic cylinder: FESTO or LINGTONG

Filter regulator/lubricator combination: FESTO or SHAKO

Electric component: SCHNEIDER or DELIXI

Sensor: OMRON or DELIXI

Inverter: ABB or DELIXI or DONGYUAN

### Technical Specification:

ITEM	DESCRIPTION	JKA-2	JKA-2A	JKA-5	
Capacity	Max. Bottles/hour	600-800	1000-1600	300-400	600-700
Bottle	Max. Volume (L)	2	2	5	2
	Max.Diameter (mm)	105	105	190	110
	Max. Height (mm)	330	330	350	350
Blow Mold	Cavity	2	2	1	2
	Thickness (mm)	155~160	155~160	260	
Preform	Neck Size (mm)	Φ28-Φ32	Φ28-Φ32	Φ28-Φ130	
Max. opening stroke	(mm)	135~150	135~150	230	
Max. stretch length	(mm)	340	340	330	
Heating Power	(kW)	4.2	4.2	~8	
General Power	(kW)	11.2	11.2	~15	
Max. Air Pressure	(MPa)	0.8	0.8	0.8	
Max Blow air. Pressure	(MPa)	3	3	3	
Main machine	Unpacked (m)	1.14*0.55*1.65	1.06*0.54*1.6*2	1.7*0.7*2.19	
Dimensions					
Heating Unit	Unpacked (m)	1.60*0.68*1.62	1.60*0.68*1.6*2	1.73*0.68*1.62	
Machine weight	N.W. (Kg)	350	700	1000	
Heating Unit	N.W. (Kg)	200	200	400	

ITEM	DESCRIPTION	JKA-20	JKA-20H	JKA-5A	
Capacity	Max. Bottles/hour	40~45	80~100	600-800	1200-1400
Bottle	Max. Volume (L)	20	20	5	2
	Max. Diameter (mm)	280	280	110	110
	Max. Height (mm)	520	520	350	350
Blow Mold	Cavity	1	1	1	2
	Thickness (mm)	360	360	260	
Preform	Neck Size (mm)			Φ28-Φ130	
Max. opening stroke	(mm)	390	390	230	
Max. stretch length	(mm)	540	540	330	
Heating Power	(kW)	8	~17.2	~8	
General Power	(kW)	8	~32.2	~15	
Max. Air Pressure	(MPa)	0.8	0.8	0.8	
Max Blow air. Pressure	(MPa)	3	3	3	
Main machine	Unpacked (m)	2.40*0.84*2.86	2.50*0.86*3.02	1.7*0.7*2.19*2	
Dimensions					
Heating Unit	Unpacked (m)	1.44*0.86*1.51	2.25*1.17*1.95	1.73*0.68*1.6*2	
Machine weight	N.W. (Kg)	2800	2800	2000	
Heating Unit	N.W. (Kg)	1000	1200	400	