

## *Plastic PP PS PET PLA Thermoforming Machine*



### **Feature:**

High-efficiency programmable pneumatic thermoforming machine for plastics is an integrated design of gathering machine, electricity and gas, which is controlled by micro-computer and industrial programmable logic controller (PLC) with the latest international plastic sheet forming technology. The whole system is HMI (man-machine interface). Square tunnel type imported radiation heater, punch and concave die can be formed. Laser blade punching, heating, forming, punching, stacking are divided into four working stations. At the same time, advanced technology such as sheet feeding, heating, forming, punching, stacking is completed at one time. Reduce manual work, easy operation, improve production efficiency, reliability, high degree of automation, dedicated to hot forming and product automatic punching water

### **Applications of Machine:**

Thermoforming packaging containers, such as cups, boxes, bowls and other thin-walled containers, such as milk cups, jelly cups, ice cream cups, disposable drinking cups, instant noodle bowls, fast food boxes, etc.

Welded or spliced with steel structural profiles, used to install moulding, heating, hot closing, punching and auxiliary devices. Integral steel frame has enough strength and stiffness. All metal surfaces are treated with anti-rust treatment and sprayed with anti-rust paint on the bottom layer. Universal parts and standard parts are used in the structure to facilitate later maintenance and replacement of all parts.

**General Conditions of Machine:**

Forming Sheet Material:	ABS, PP, HIPS, PVC, PET, PE, PLA, PC, etc.
Sheet thickness & Width:	0.2mm-2.0mm; Max.820mm- Min.500mm
Forming size:	780mm (W) x 600mm (L) MAX / 460mm(W) x 600mm (L) MIN
Forming deep:	100 mm
Forming capacity:	1200shot/hr (2.4 sec/cycle) (it depends on the sheet material and thickness)
Forming method:	pressure with Vacuum forming
Forming motor:	AC Servo 7.5 kw: 2 units
Table moving:	Upper & lower forming table moving by AC Servo Motor & cam type system
Machine Size:	1100mm (L) x 220mm (W) x 2800mm (H)
Electric:	Main - AC380V $\pm$ 10% ,3Phase, 50HZ Control - DC24V
Electric installation:	150.0Kw (Forming 15Kw, vacuum: 9Kw , Heater 120Kw )
Air Compressor:	pressure -Min 8 Kg/cm <sup>2</sup> ( dry air ) consumption - over 4000 $\ell$ /min ( with Forming body )
Cooling water:	100 $\ell$ /min Clamp & jacket (40 $\ell$ ), Mold cooling water (20 $\ell$ ), chain guide (40 $\ell$ )
Control Method:	Siemens PLC 12" (touch screen Monitor)