



**EPS PACKING PROJECT
FOR NIKSUN SANAT OF IRAN**

www.fang-yuan.com

Fangyuan energy-saving styrofoam production machine



PRODUCT DESCRIPTION ▼

Product Description

Main Features:

This kind of the EPS moulding machine has many improvements compared to the basic type shape molding machine and the features of the EPS shape moulding machine are as follows.

1. Machine structure:

- a. All frame of the automatic moulding machine with vacuum are welded onto 16/20mm steel plate with high machines legs. This greatly improves the polystyrene molding machine's machine strength.
- b. High machine legs are made by strong "H" type profile. It is easy for the client to install the EPS moulding machine (only prepare floor foundation).

2. Filling system: Adopts normal pressure, vacuum for high pressurized filling. Material filling of the styrofoam moulding machine is controlled by level sensor with double rotation chamber discharge and has 44 filling outlets.

3. Steam system: Adopts balance PID control valve with German gauge. This greatly improves steam accuracy of the EPS styrofoam moulding machine and reduces consumption by around 20% compared with A/B type.

4. Cooling system of the shape molding machine: Big vacuum pump with vertical tank, equipped with vertical vacuum cooling water spray on the top. The vacuum cooling of the EPS molding machine will be used as main cooling instead of water cooling (normally water cooling will be set up only 8-12s), which will keep the water content of product less than 10%.

5. Drainage system: Increased large for inlet and outlet of mould of the polystyrene automatic moulding machine, adopts 8-1" inlet for steam, ensuring fast cycle time, 6/8-2" outlet for drainage system, 6" big drainage pipe is controlled by butterfly valve, Together they greatly increase heating and drainage speed.

6. Control system:

- a. Adopts PLC (Mitsubishi) and touch screen (Schneider) making operation of the EPS automatic moulding machine easy.
- b. All electronic components are from famous brands, which greatly improve the styrofoam molding machines stability.
- c. The air cooling, steam, de-mould, pressure of filling of the polystyrene molding machine are controlled by long-distance balance valve.



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Styrofoam Machine Expand Machine EPS Raw Material Batch Pre-expander

PRODUCT DESCRIPTION ▼

The accuracy eps polystyrene foam beads making machine is an energy - saving equipment. It is applied to expand for EPS polystyrene. Our eps polystyrene foam beads making machine cover a whole range of pre-expanders for all thermoplastic foam processing requirements. The eps polystyrene foam beads making machine will save the material cost and the energy cost as much as possible.

Main Features:

The foam beads making machine includes stainless steel dryer bed, screw conveyer, filling, sieving device, etc.

Steam system: The accurate pressure reducer and PID control system of the accuracy batch polystyrene pre-expander machine to keep very stable and accurate steam, ensure material variation.

Pressure control: There is pressure sensor in the polystyrene batch expander machine, the pressure sensor with multi-steam exhausting system to keep expansion chamber pressure stable, as well as reduces the steam consumption.

Temperature control: The temperature sensor and compressed air proportional valve maintains accurate expansion temperature, which is suitable for high density expansion, resulting in less broken beads. The temperature control equipment of thermocol batch expander machine can also save the heat energy.

Material level control: The styrofoam batch expander machine can keep accurate weighing scales and vibrated level sensor control, ensuring less density tolerance.

Material filling system: Set filling weight in touch screen and electronic weighing filling to make the batch expander machine realize filling accurately and automatically.

Electric control: The PLC touch screen, electronic parts and valves are from reputed brands, which make the whole working procedure of polystyrene batch expander machine automatic and stable.

Notes:

- ❖ The auto density-weighing system of accuracy batch polystyrene pre-expander machine is optional.
- ❖ Secondary expansion device for SPJ130, SPJ160 is optional