

PS Foam Extrusion Line

High Output Line for Expanded Polystyrene Sheet



Key Features:

- Extrusion Output ~ 700 kg/h
- Innovative cooling screw guarantees uniform melt temperature distribution
- CO₂ can be blended with butane
- Thickness range of 1.2 mm - 5.0 mm

Applications:

- Food packaging
 - Meat trays
 - Fruit & vegetable trays
 - Egg cartons
 - Clamshell packaging
 - Plates, cups, bowls

Macro's PS Foam Extrusion Line is a tandem extruder system that produces expanded polystyrene sheet (EPS) at output rates up to 700 kg/h.

The key feature of the line is a newly designed innovative cooling screw that guarantees efficient cooling of the melt and highly uniform melt temperature distribution in the secondary extruder. This not only allows extrusion to occur at elevated outputs but also creates advantageous properties within the foam structure, such as an increased proportion of closed-cells, improving the overall strength of the foamed sheet.

The die is designed so die lip gap adjustments can be performed without shutting down the line, saving costs on material and labour.

The line is equipped with a loss-in-weight feeding system that regulates an accurate blending ratio. The gas injection system can work with a range of physical blowing agents, and more than one agent can be injected simultaneously, if needed.

Along with the line, Macro provides the know-how to operate it; Macro supplies the complete recipe along with process training, and stands behind the machinery with industry-leading after sales support.

As with all Macro machinery, the line is constructed using the latest technology, highest quality materials and superior workmanship.

PS Foam Extrusion Line

High Output Line for Expanded Polystyrene Sheet



Specifications:

Layflat Width (mm)	2 x 1080 2 x 1270
Sheet Thickness (mm)	1.2 – 5.0
Raw Materials	Polystyrene
Maximum Extrusion Output* (Kg/h)	700
Resin Blending and Feeding System	Yes, direct feeding of talc powder
Primary Extruder Diameter (mm)	150
Secondary Extruder Diameter (mm)	180
Screen Changer System	Yes, hydraulic
Die Diameter (mm)	180 200
Die Gap Adjustment with Digital Readout	Yes, adjustable during operation
Blowing Agent Metering System	Yes
Hydrocarbon Safety Sensors	Yes, 3
Internal & External Die Lip Air Ring	Yes
External Air Ring on Cooling Drum	Yes
Cooling/Sizing Drum Diameter (mm)	705 814
Winders	Center Turret
Maximum Roll Diameter (mm)	2000
Core Inner Diameter (mm)	305

* Maximum output can be varied by many factors including, but not limited to, melt index of resin, material formulation, sheet thickness, foam density and temperature/pressure profile.



www.macroeng.com | sales@macroeng.com

Head Office Canada - Tel: +1(905)507-9000 | Fax: +1(905)507-3000
Asia China - Tel: +86-411-86698162 | Fax: +86-411-86641431