

EXTRUSION

Foamed - Plastics Extrusion Machine

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PITAC (Plastic Industry Technology) was established in 1998. With comprehensive expertise in organization of production lines and machine design, we have been dedicating ourselves in the field of Plastic Extrusion Process more than a decade.

For Plastic Foaming Extrusion process, Freon blowing agent has been replaced by Butane in Pitac's extrusion systems since 1985. Moreover, PITAC constantly develops new kind of blowing agents and processes in an effort to make production safer, more efficient as well as more economic.

COMPANY PROFILE

PITAC has never ceased in researching new technology and challenges. Service and Quality are our utmost principles. From the very beginning to fully understand customers' requirements to deliver equipments, we meanwhile provide our customers with complete package of plant setting & production know-how & training courses.

All machines supplied by PITAC are guaranteed to have our best



after-service. PITAC is extending service centers around the world so as to facilitate the fastest & best services for our customers.



SERVICE & TECHNOLOGY SUPPORT

"SERVICE ABOVE ALL" & "ESTEEM FOR CUSTOMER" are our managing policies. From R & D Development, Components

Processing, Devices Assembly to Pilot run, we have assigned qualified professional engineers to take care to meet customers outstanding demand.

With plenty of whole plant exporting experience for years, we are in the position to provide our customers organizing the factory running, installing facilities & side equipment and Know-How of Chemical Formula. It'll enable our customers to shorten the lead time of installment and make profits immediately.

(XPS Sheet) Extrusion Insulation Sheet Making Machine

MODEL NO.	PT-180PSB	PT-250PSB	PT-450PSB
Raw Material	Polystyrene	Polystyrene	Polystyrene
Blowing Agent	Butane or HFC	Butane or HFC	Butane or HFC
Capacity	200 kg/hr	300 kg/hr	450kg/hr
Products Thickness (max.)	45mm	65mm	100mm
Products Width (max.)	1000mm	1200mm	1200mm
Occupation Area	50M(L)x6M(W)x5M	55M(L)x8M(W)x5M	70M(L)x8M(W)x5M
Shipping	40'Container x 4	40'Container x 5	40'Container x 6
EXTRUDER UNIT			
Extruder Type	Tandem Type	Tandem Type	Tandem Type
First Extruder Screw Dia.	90mm	120mm	130mm
First Extruder Motor	75 HP	150 HP	250HP
Second Extruder Screw Dia.	120mm	150mm	180mm
Second Extruder Motor	100 HP	150 HP	200HP
Heating Capacity	32 KW	50 KW	70KW
Blowing Agent Injection	Pressure Pump	Pressure Pump	Pressure Pump
Screen Changer	Two-shift Changed	Two-shift Changed	Two-shift Changed
Cooling System	Air & Water	Air & Water	Air & Water
Auto-Thermal Control	17 zones	17 zones	23 zones
T-Die	1 Set	1 Set	1 Set
Motor Control Panel	1 Set	1 Set	1 Set
Thermal Control Panel	1 Set	1 Set	1 Set
CALIBRATOR			
Driving Type	By Hydraulic	By Hydraulic	By Hydraulic
Heating & Cooling System	By Oil	By Oil	By Oil
Static-Electricity Eraser	2 Set	2 Set	2 Set
TAKE-OFF UNIT			
Roller Width	1200mm	1300mm	1300mm
Driving Motor	7.5 HP	7.5 HP	10HP
Width Cutter	1 Set	1 Set	1 Set
Length Cutter	1 Set	1 Set	1 Set
OTHER EQUIPMENT			
Cooling Tower	30 Tons x 1 Set	40 Tons x 1 Set	50 Tons x 1 Set
Air Compressor	10 HP x 1 Set	20 HP x 1 Set	20HP x 1 Set
Material Mixer & Feeder	1 Set	1 Set	1 Set

APPLICATION

Raw material is processed in consequent extruding to foam up the output. The interior construction of the output is foamed to be blocked cells which could offer super heating insulation, water absorbing and easy for trimming benefit.

The machinery is activity to churn out various products. The output shall be in various size, densities and colors by adjusting the performing conditions during the processes.

- Heating Insulation
- Anti-Impact stuffs
- Major Construction Elements Sandwich Door
Floor insulation / Decoration
- Others -- Advertising signboard

Characteristic of the Insulation Sheet can be applied for many aspects as highlighted above. It saves huge of energy either in the Tropic Zone for housing or Polar Zone for oil conveyer. It also saves a great deal of electricity when it is utilized for major construction elements such as sandwich door or floor insulation / decoration etc. Besides, it creates some other application like promotion business in consideration of it weather stability, high strength and easy trimming, as well as far less cost than Acrylic or ABS.



Insulation
Sheet

Insulation
Application

**Picture of
Machines**



Proceeding

PROCESSING

Blow-agent storage tank

Blow-agent transiting

Blow-agent injecting

Raw material mixing

Raw material feeding

Raw material melting
&
foaming (1st extruder)

Impurity filtering

Uniform mixing
&
extruding (2th extruder)

Extruder by T-Die

Shape Fixing

Take-off
Width & length cutting

Packing

Waste material
Recycling



Extruder Unit

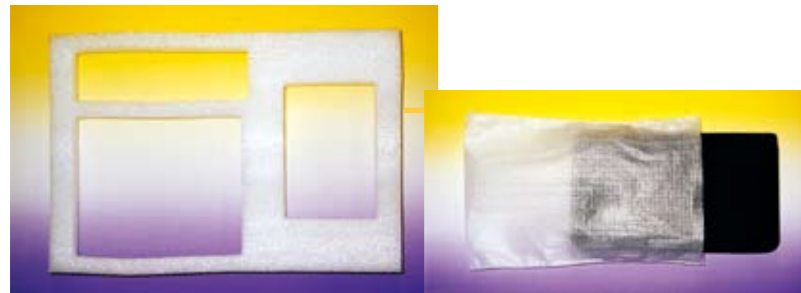


**Blowing-agent injection
Device**



**Screen
Changer**

MACHINES



**Applicable
Products**

LDPE / Polystyrene Foamed Sheet Making Machine

MODEL NO.	PT-90120PS/E
Raw Material	Low density Polyethylene/General purpose Polystyrene
Blowing Agent	Butane // New type of Freon (environment protected)
Sheet Thickness	1mm - 10mm
Sheet Width	1500mm (max.)
Production Capacity	Polyethylene / 120kg/hr, Polystyrene / 200kg/hr
Occupation Area	4M (W) x 25M (L) x 3M (H)
Machines Weight	5600 kgs
Power Consumption	170KW (full loading)
Shipping	40 foot containerx1 set & 20 foot containerx1set
Operator	2 person
1ST. EXTRUDER	
Screw Diameter	90 mm
L/D Ratio	24 : 1
Gear Box	Reduced ratio =1/10, with oil cooling & filtering system
Driving Motor	100 HP motor
Hopper	500 litter (with low-level alarm)
Heating System	By electric stainless heater
Cooling System	By blower cooling
Thermal Control	5 zones
Heater Capacity	20 KW
Pressure Meter	1 set (500 kg/cm2 max.)
2ND. EXTRUDER	
Screw Diameter	120 mm
L/D Ratio	26 : 1
Gear Box	Reduced ratio =1/10, with oil cooling & filtering system
Driving Motor	75 HP motor
Heating System	By aluminium electric heater
Cooling System	By water circulating cooling
Thermal Control	5 zones
Heater Capacity	24 KW
Pressure Meter	1 set (working pressure 500 kg/cm2 max.)
BLOWING AGENT INJECTING UNIT	
Injecting Pump	LEWA pump, Diaphragm type (made in Germany)
Pump Working Pressure	500 kg/cm2 (max.)
Pump Output	30 litter per hour (max.)
Pump Driving Motor	5 HP explosive-proof motor
Injecting Check-valve	1 set
SCREEN CHANGER	
Type	Two-shift changing (extruder non-stop)
Driving	By hydraulic cylinder
Hydraulic Pump	3 HP (with pressure retaining unit)
EXTRUSION DIE	
Type	Circular die
Thermal Control	2 zones
Heater Capacity	3.2 KW
Thickness	Adjustable
SHEET SETTING & CUTTING UNIT	
Type	Single sheet // double sheets (PS sheet only)
Width Setting	By aluminium circular tank
Cooling	By water circulating cooling
Cutting Type	By knife
TAKE-UP UNIT	
Type	Single sheet // double sheets (PS sheet only)
Roller Width	1650mm
Driving Motor	7.5 HP motor
Line Speed	50 M/min (max.)
WINDER	
Type	Two roller exchanging
Driving Motor	1 kg-m torque motor
Winding Length Setting	By microcomputer (with alarm)

XPS / XPE Foam Sheet Making Machine

Model No. : PT-90120PS/E
 Machine type : Tandem Extrusion
 Capacity : 200 kgs/hr
 Operator : 2 persons
 Raw Material : Polystyrene/Polyethylene
 Blow Agent : Butane/New Type Freon
 Sheet Thickness : 1-10mm
 Sheet Width : 1500mm(max.)
 Power Consumption : 170kw
 Occupation Area : 4M(W) x 25M(L) x 3M(H)



**Applicable Products
(Disposable Tableware)**



**Applicable
Products**

LDPE Foamed Tube Making Machine

MODEL NO.	PT-90TUBE
Raw Material	Low density Polyethylene
Blowing Agent	Butane // New type of Freon (environment protected)
Production Capacity	30 kg per hour
Occupation Area	3M (W) x 15M (L) x 3M (H)
Machines Weight	4,200 kgs
Power Consumption	60KW (full loading)
Shipping	20 foot container x 1 set
Operator	1 person

Detail Specifications

EXTRUDER	
Screw Diameter	90 mm
L/D Ratio	38 : 1
Gear Box	Reduced ratio =1/10, with oil cooling & filtering system
Driving Motor	50 HP motor
Hopper	50 litter (with low-level alarm)
Heating System	By electric stainless heater & aluminium heater
Cooling System	By blower & circulating water cooling
Thermal Control	5 zones
Heater Capacity	15 KW
Pressure Meter	1 set (500 kg/cm2 max.)
BLOWING AGENT INJECTING UNIT	
Injecting Pump	LEWA pump, Diaphragm type (made in Germany)
Pump Working Pressure	500 kg/cm2 (max.)
Pump Output	30 litter per hour (max.)
Pump Driving Motor	5 HP explosive-proof motor
Injecting Check-valve	1 set
SCREEN CHANGER	
Type	Two-shift changing
Driving	By hydraulic cylinder
Hydraulic Pump	3 HP
EXTRUSION DIE	
Type	Circular die
Thermal Control	2 zones
Heater Capacity	2.8 KW
Tube Outsize Diameter	15mm - 50mm (adjustable)
WATER SPRAY COOLING TANK	
Tank Length	3000mm
Tank Material	6061 Aluminium
Water Circulation Pump	2 HP
Tank Moving	Three-direction
TAKE-UP UNIT	
Type	By belt pulling
Working Length	400mm
Working Width	150mm
Working Height	150mm (max.) adjustable
Line Speed	10 - 80 M/min
Speed Control	By microcomputer
CUTTING UNIT	
Cutting Type	By knife
Driving	By air clutch
Cutting Length Setting	a.Manual b.By time cycle c.By length

**LDPE
Foamed
Tube Making
Machine**

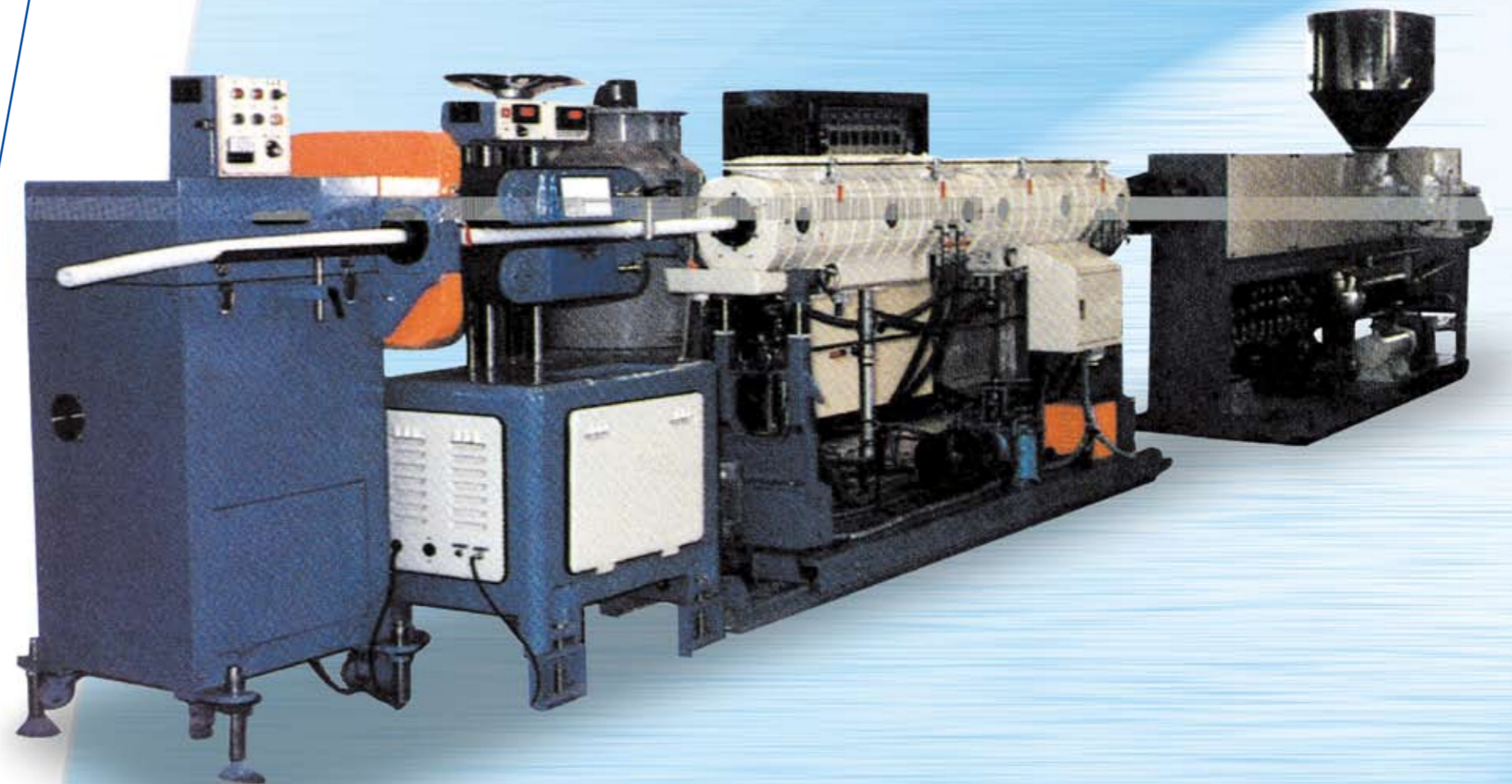
Model No. : PT-90TUBE

Specifications:

Raw Material : LDPE
Blow Agent : Butane / New Type Freon
Capacity : 30kgs/hr (Standard Type)
Power Consumption : 60kw

Applications:

1. Shockproof packing material
2. Soundproof material
3. Thermal against
4. Sports equipment packing material.....





**Applicable
Products**

LDPE Foamed Net Making Machine

Model No. : PT-60NET

Specifications:

Raw Material : LDPE

Blow Agent : Butane / New Type Freon

Capacity: 20kgs/hr (Standard Type)

Foaming Ratio: 12-30

Power Consumption : 30kw

LDPE Foamed Net Making Machine

MODEL NO.	PT-60NET
Raw Material	Low density Polyethylene
Blowing Agent	Butane // New type of Freon (environment protected)
Production Capacity	20 kg per hour
Occupation Area	3M (W) x 10M (L) x 3M (H)
Machines Weight	3,750 kgs
Power Consumption	30KW (full loading)
Shipping	20 foot container x 1 set
Operator	1 person

Detail Specifications

EXTRUDER	
Screw Diameter	60 mm
L/D Ratio	42 : 1
Gear Box	Reduced ratio = 1/8, with oil cooling & filtering system
Driving Motor	15 HP motor
Hopper	300 litter (with low-level alarm)
Heating System	By electric stainless heater & aluminum heater
Cooling System	By blower & circulating water cooling
Thermal Control	5 zones
Heater Capacity	15 KW
Pressure Meter	1 set (500 kg/cm2 max.)

BLOWING AGENT INJECTING UNIT	
Injecting Pump	LEWA pump, Diaphragm type (made in Germany)
Pump Working Pressure	500 kg/cm2 (max.)
Pump Output	30 litter per hour (max.)
Pump Driving Motor	5 HP explosive-proof motor
Injecting Check-valve	1 set

SCREEN CHANGER	
Type	Two-shift changing
Driving	By hydraulic cylinder
Hydraulic Pump	3 HP

EXTRUSION DIE	
Type	Multi-hole rotary die
Driving Motor	5 HP Inverter-duty motor
Thermal Control	2 zones
Heater Capacity	3 KW
Die Rotation Speed Control	By Inverter controlled

TAKE-UP & CUTTING UNIT	
Take-up Roller	2 rubber rollers
Driving Motor	1/2 HP Inverter-duty motor
Taking Speed Control	By Inverter controlled
Cutting Type	By rotary cutting
Cutting Length	Adjustable





EPS / EPE / EPP Pack Material

Foam Plastic Recycling & Pelletizing Machine

MODEL NO.	EXP-200
Raw Material	Expanded Polystyrene / Polyethylene / Polypropylene
Production Capacity	200 kg per hour
Occupation Area	5M (W) x 10M (L) x 2M (H)
Machines Weight	2,800 kgs
Power Consumption	70KW (full loading)
Shipping	20 foot container x 1 set
Operator	1 person

Detail Specifications

MAIN EXTRUDER

Screw Diameter	150 mm
Gear Box	Reduced ratio = 1/8, with oil cooling & filtering system
Driving Motor	40 HP
Material Inlet Size	1300mm (L) x 600mm(W)
Heating System	By electric stainless heater
Cooling System	By blower
Thermal Control	4 zones
Heater Capacity	12 KW

SCREEN CHANGER

Type	Two-shift changing
Driving	By hydraulic cylinder
Hydraulic Pump	3 HP

SUB-EXTRUDER

Screw Diameter	100 mm
Gear Box	Reduced ratio = 1/6, with oil cooling & filtering system
Driving Motor	20 HP motor
Heating System	By electric stainless heater
Thermal Control	4 zones
Heater Capacity	8 KW

SCREEN CHANGER (SUB-EXTRUDER)

Type	Two-shift changing
Driving	By hydraulic cylinder
Hydraulic Pump	2 HP

COOLING TANK

Tank Size	450mm (W) x 3000mm(L) x 300mm(H)
Cooling System	By water circulation
Water Pump	1/2 HP
Cutting Type	By rotary cutting

PELLETS GRANULATOR

Driving Motor	5 HP motor
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Foam Plastic Recycling & Pelletizer Equipment

Model no. : EXP-200

Specifications:

Raw Material : PS, PE, PP expanded material
 Capacity : 200 kgs/hr
 Driving Power : 70HP (MAX)
 Using Floor Space : 5M(W)x10M(L)
 Operator : 2 People
 Inlet Size : 600mm(W)x1300mm(L)

Feature:

- Simple process, all in on design, including CRUSHER, FEEDER, EXTRUDER and PELLETIZER.
- All impurity will be filtered by Auto-Screen Changer, keep pellets clean.
- High Capacity and low electric cost.
- High performance and low maintenance cost.
- Feeder speed can be adjusted in difference expanded ratio material, maintain stable capacity.
- Using less space and operator.

