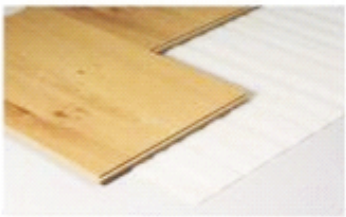
# FUTURE PACKS

Site No. 48, Eachanari to Chettipalayam Road, Podanur (Post), Coimbatore - 641 023. Tamilnadu
Mobile : +91 99943 19456, +91 90435 71110 E-mail : info.futuremachines@gmail.com Web : www.futureenterprises.co.in

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)



Polyethylene foam sheet(film), also named as pearl cotton, is a kind of new-type packing material with the features of dampproof, shockproof, sound insulation, heat preservation and good plasticity. It is an ideal substitute of traditional packing materials and used widely in the packing of electronic product, commodity, glass, pottery, electrical household appliances, spraying, furniture, hardware product, toy, etc.

## PRODUCT SPECIFICATION

| Model | UNIT | FP - EPE90 | FP - EPE105 | FP - EPE120 | FP - EPE135 | FP - EPE150 | FP - EPE170 | FP - EPE200 |
|---|---|---|---|---|---|---|---|---|
| Screw Diameter/L/D | | 90/55:1 | 105/55:1 | 120/55:1 | 150/55:1 | 150/55:1 | 170/55:1 | 200/55:1 |
| Screw Speed | r/min | 5-45 | 5-45 | 5-45 | 5-45 | 5-45 | 5-45 | 5-45 |
| Foam ratio | | 20-48 | 20-48 | 20-48 | 20-48 | 20-48 | 20-48 | 20-48 |
| Width of product | mm | 1000-1400 | 1000-1800 | 1000-2000 | 1000-2000 | 1000-2000 | 1000-2000 | 1000-2000 |
| Thickness of Product | mm | 0.3-4.5 | 0.3-6.5 | 0.8-8 | 1-10 | 1-12 | 2-16 | 3-20 |
| Cooling method | | Water cooling | | | | | | |
| Capacity | Kg/h | 70-100 | 80-120 | 120-200 | 200-300 | 260-400 | 400-500 | 500-650 |
| Total Power (approx) | KW | 110 | 130 | 170 | 200 | 240 | 285 | 350 |
| Overall Size (LxWxH) | M | 22x2.3x2.2 | 23x2.3x2.2 | 25x2.3x2.2 | 28x2.3x2.2 | 30x2.3x2.2 | 32x2.3x2.2 | 38x2.3x2.2 |
| Total Weight (approx) | T | 8.5 | 9 | 12 | 13 | 15 | 17 | 20 |

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

## Automatic feeding device and feeder table (CE standard)

(1) Auto feeding unit 1set

(2) Feeding capacity: 350-450 kg/hr

(3) Feeding method: Auto feeding

(4) Hopper : Conical CE standard

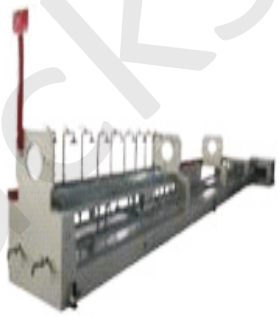
(5) Driving Motor : 1 set  Power : 0.55KW

(6) Hopper Capacity : 3500Kg

(7) Hopper with sight-glass

(8) Operation table of blending materials : made of ss41 steel CE standard

(9) Steel ladder : made of ss41 steel  CE standard



## Steel Rack Structure

(1) Rack material : Carbon structural steel, standard steel section

(2) Water recycling system : Stainless steel connection

## Talcum powder injection unit  (Italy technology)

(1) Feeding capacity: 0-1kg/h

(2) Feeding method: Sprial and constantly

(3) Driving motor : 0.25KW×2

(4) Talcum powder injection unit adopts Italy technology. Double screw substitute single screw, Solve the poor mobility features of talcum powder. The motor is controlled by inverter to make talcum powder injection accurate and stable.

Future Packs

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

(1) Gear box
Model: 250-16 hard tooth-surface
Material : FCD25 mollealle iron
Box body : FC20
Gear wheel : SCM4 special gear wheel burnishing and heating dealing
Motor : AC37KW X 4P equipped with the inverter

(2) Neck
Model : Cooling water jack£¬prevent material sticking at the inlet of hopper when material injecting.
material: FCD25 mollealle iron

(3) Screw tube
Diameter : 160mm
Material :38CrMoAlA nitrogen treatment
Heating area : 8 pcs
Method of heating : cast aluminum heater
Method of cooling : inner and outer water cooling

(4) Screw
Diameter : 90 (L/D-55 : 1)
Material: 38CrMoAlA nitrogen treatment
Compression ratio : 3:1
Rotating speed : 0-48r/min

## High pressure metering pump

(1) The high pressure pump is manufactured in China with good quality, famous brand, German technology (flow volume : 40L/Hour, and the highest vented pressure:20Mpa.)
(2) Injecting valve core material is stainless steel.
(3) Pump base is weld by profile steel
(4) Pump style : high pressure measure pump
(5) Output regulation : regulate the itinerary of piston
(6) Shockproof pressure gauge : 60MPa
(7) Power : 2.2kw
(8) Foaming agent style : liquid butane

Future Packs

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

## Anti- shrinking agent injection unit

(1) Anti-shrinking agent£ºglycerin monostearate ( GMS)
(2) Metering pump style: high pressure measure pump , single pillar piston
(3) The range of measurement : 0-4.5L/H
(4) Shockproof pressure panel : 60MPa
(5) Volume of melting-pot : 4.5L
(6) Pump driving motor : 0.55KW×4P
(7) Method of heating : belt heater
(8) Heating zone : 2 zones
(9) Detector : 2 detecting point

## Foaming die head unit

(1) Model: round die head for expanding
(2) Die Head size : 2 sets (customer decided size)
(3) Material : carbon alloy steel
(4) Heating area : 1 pc
(5) Heating method : heater
(6) Fuse pressure panel : 50MPa
(7) Diameter of die lips : user decides himself based on the width of sheet
(8) Thickness control : Regulated by the distance between mold heads
(9) Die lip Material : carbon alloy steel

## Auto net changing system

(1) Hydraulic station : 1 set
(2) Motor power : 2.2 KW
(3) Heating area : 3 pcs

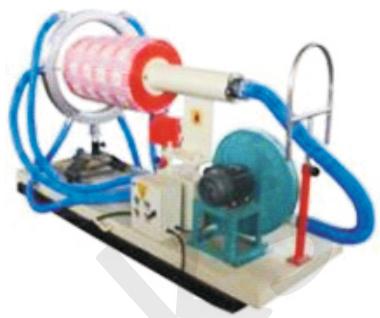
Future Packs

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

## Auto ring & shaping drum unit

(1) Air ring
Material : Aluminum
Blowing method : air blower

(2) Shaping drum
Material : steel
Cooling method : wind cooling
Methods for cutting open : round cutter motor driven
Shaping drum size : customer product decided
Air blower : 1.5KW



## Expanding unit

(1) Style : gradually expand

(2) Material : stainless steel

(3) Positioner : control product move direction

## Haul-off unit

(1) Material : STPG tube hard chrome plating

(2) Driving motor (adjustable) : 1.5KW/4P×2

(3) Material of expanding roller: stainless steel

(4) Press roller : rubber, driven by cylinder.

(5) Static electricity eliminator : Lon fan

(6) Length control: controlled by meter counter, could pre-set, equipped with the length alarm

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

## Winding unit

(1) Model: Double axis cantilever displacement type (air type)

(2) Maximum of rolling weight : Maximum 20kg× 1m(diameter)

(3) Driving motor regulative : Torque motor 8N.M ×2 sets

(4) Revolving driving motor : 0.75KW× 1/10 Turbine vortex ste reducer system

## Electrical control system

(1) Main motor speed is controlled by 37kw inverter, which is stable and accurate.

(2) AC contactor, air switch and electrical equipments all adopt domestic famous brand.

(3) The temperature controller shows each zone temperature accurately and controls heating system.

(4) The electric control system has total 12pcs control zones. Extruder has 8pcs. The screen changer has 3 pcs. and the die head has 1 pc.

(5) Assistant cabinet mainly controls the haul-off and winding

Future Packs

# FP - EPE90 Foam Sheet Making Machine (Foam Sheet Extrusion)

| LIST OF SPARES | | |
|---|---|---|
| **S.No.** | **ITEM** | **Pc** |
| 1 | Tools for take-down screw | 1 Set |
| 2 | Hex wrench1 set add 12, 14, 17,19 | each 1pc |
| 3 | Hammer | 1 pc |
| 4 | Die mouth adjust rod | 1 pc |
| 5 | Tool box | 1 Set |
| 6 | Forked wrench | 1 Set |
| 7 | Flexible wrench | 2 pcs |
| 8 | Wire-cutter | 1 pc |
| 9 | screwdriver (big and small each one) | 2 pcs |
| 10 | screwdriver(big and small each one) | 2 pcs |
| 11 | Forfex | 1 pc |
| 12 | Box spanner | 1 pc |
| 13 | 10mm/C 8mm gas line | each 5 m |
| 14 | Solid state relay | 4 pcs |
| 15 | Temperature controller | 2 pcs |
| 16 | Ampere meter | 2 pcs |
| 17 | voltmeter | 1 pc |
| 18 | Thermocouple | 2 pcs |
| 19 | Pressure gauge | 2 pcs |
| 20 | Heater (including GMS pan) | each 1 pc |
| 21 | Heating belt 3m, 2mEach | each 2 pcs |
| 22 | Special tool and spare parts for butane pump | 1 set |
| 23 | Special tool and spare parts for GMS pump | 1 set |
| 24 | Joint Thread hook | 3 pcs |
| 25 | Stainless steel net (80 mesh, 120 mesh, 150mesh each 1 mtr) | 3 m2 |
| 26 | One-way valve for main machine | 1 set |
| 27 | Waterway Electromagnetic valve | 1 pc |
| 28 | Knife | 1 box |
| 29 | Air inflation for air shaft | 2 pcs |
| 30 | High pressure rubber pipe for recycling water | 1 pc |
| 31 | Heater for the screen changer | 2 pcs |
| 32 | Heating rod for GMS pump | 2 pcs |
| 33 | Sealing gasket for high pressure rubber pipe | 10 pcs |
| 34 | Scren changer clamp ring | 2 pcs |
| 35 | Pliers for clamp ring | 1 pc |
| 36 | 3/4 inch galvanized tube 0.5m | |

Future Packs

## PERFECT AFTER SALES & SERVICE

Our company provide an excellent technician team for after sale service. which serve for each client. For new clients we will arrange professional technician to install and adjust the machine, as well as train the operators to run, adjust and maintain, until you can make perfect products. Clients can also send operator to learn the machinery handling in our factory.

For existing clients, our technicians will visit regularly to know the state of machine, to approach inference problems. Clients can call us at any time on the work days, we must give a satisfactory reply.

YOUTUBE

# FUTURE PACKS & FUTURE ENTERPRISES

Site No. 48, Eachanari to Chettipalayam Road,
Podanur (Post), Coimbatore - 641 023. Tamilnadu

Mobile : +91 99943 19456 | +91 90435 71110

E-mail : info.futuremachines@gmail.com Web : www.futureenterprises.co.in