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## FANLYPLAS

Your Extrusion Partners

PLASTIC SHEET AND PROFILE EXTRUSION LINES  
Be Green by Extrusion

## Company Profile

As an ISO:9001 certified company, Fanlyplas' core competitiveness lies in perfectly combining technology innovation with lean manufacturing to provide customized solutions for our clients. More than that, customer demand orientation and service improvement are not simple topics, but they are the focus of our actions.

With our own manufacturing plants in Haining and Chuzhou, we are adhering to the whole team craftsmanship of profession, designing, and fabrication. Our engineers infuse every piece of equipment with a spirit of craftsmanship, rigorously controlling every detail to ensure that each device meets the highest industry standards.

We are not only a producer of equipment but also an integrator of plastic industry resources, involved in building and decorative materials, luggage, signage, chemical products, and a provider of plastic extrusion project solutions.

Through our strict supplier cooperation system, we complete projects for our customers by combining qualified equipment with our technology and service. We always adhere to a customer-oriented approach, offering a full range of technical support and exceptional service to ensure that our clients maintain a competitive edge in a fierce market.

# KNOW-HOW AND TECHNOLOGIES FOR FUTURE-PROOF PLASTICS EXTRUSION PRODUCTS

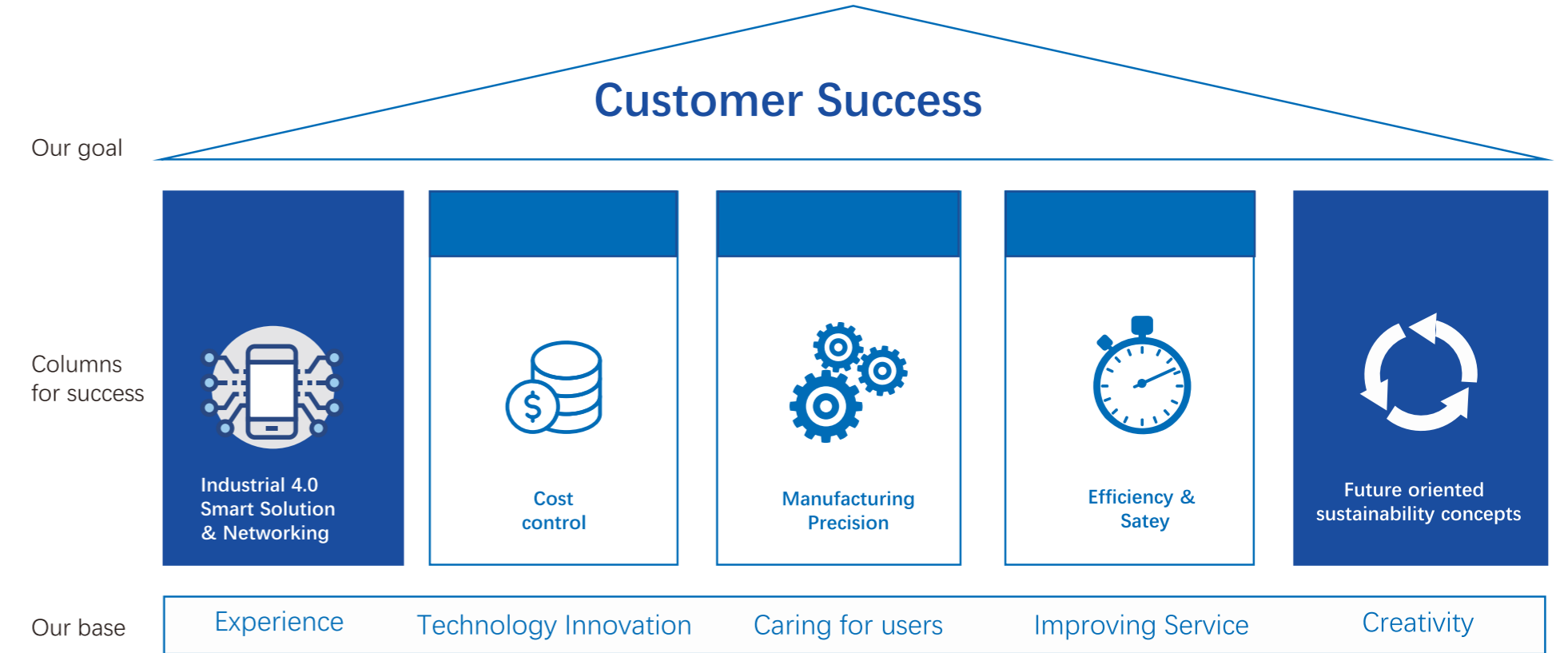
**Technology Innovation and Improving Service are the two goals we are striving as a machinery manufacturer. They are also the motivation to drive us forward and we do believe that our steady pace will change ourselves and influence end users.**

## Value-Driven Extrusion Solution Provider

Cost-effectiveness, quality, sustainability, combining all market requirements can be challenging. But with know-how and the right equipment, you will be able to make opportunities out of challenges and successfully develop your business. We can support you with our updated technologies, decades of experience and a fully equipped Technology team. This will help improve your Overall Equipment Effectiveness, accelerate time-to-market, reliably reproduce top quality, meet your verification obligations, develop new products and combine requirements such as recyclability and use of recyclates with economic efficiency.

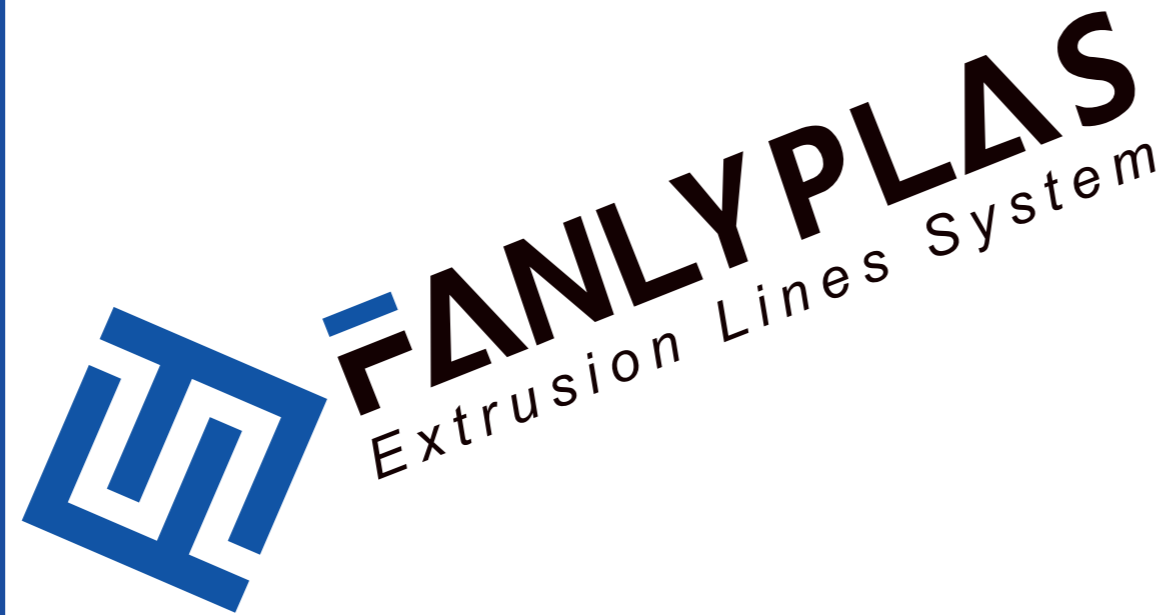
To achieve this, we develop both standardized and customized extrusion lines, can also equip with various recycling equipment as per different materials. We also offer individual components such as Die, Tooling, Screw barrel, Mirror roll, Embossing roll, co-extrusion adapters, rubber roll and electric element, auto stacking robots, and winders that are perfectly tailored to your requirements and give you decisive competitive advantages. What do you want to produce?

## The Columns of “Value-Driven Extrusion Solution Provider”



## YOUR GUIDE THROUGH THIS BROCHURE

For easy and quick orientation, you will find different industry icons on the following overview pages, which identify Fanlyplas's contents and solutions for industry specific applications.



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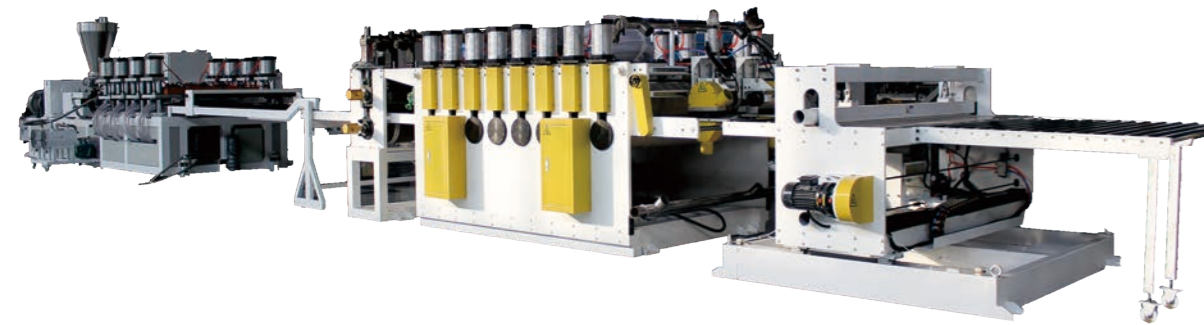
## Building Materials Home Decor Products

The demands variety of standards, quality, designs, surface, materials and effect request We FANLYPLAS to provide different extrusion solutions higher than ever.



## PVC/WPC/UPB Foam Board Production Line

Item	Details
Thickness	3-40mm
Width	915/1220/1560/2050mm /Customized
Model	FLZ80/156, FLZ80/173, FLZ92/188, FLZ80/156&FLZ65/132 (Coex)
Output	350-580kg/h



### Technology Highlights

#### - Extrusion unit

For the economical processing of PVC, WPC, and UPBraw materials at full line capacity.

#### - Screw&Barrel design

Bimetal barrel and screw.  
High temperature resistant and corrosion resistant.  
Perfect design of screw and barrel.

#### - T-die

Without choke bar.  
Special design of flow channel.  
Fast setting production.

#### - Adapter

With temperature control device.  
With water/oil pipe device.

### Application

Decoration board for kitchen cabinet, furniture board, bathroom board, building template, construction board, WPC indoor flooring base board and advertisement board.

## PVC/UPVC Profile Production Line

Item	Details
Material	PVC/UPVC
Width	100-1000mm (Customized)
Model	FLZ45/90, FLZ55/110, FLZ65/132, FLZ80/156, FLZ92/188
Output	100-500kg/h



### Technology Highlights

1. High-tech extrusion equipment, high production efficiency and large output.
2. The equipment is easy to operate and easy to maintain.
3. Through different mould, the same production line can produce many different sizes of products.

### Applications

#### Profiles for furnishing and building industry

- UPVC Window and door
- PVC Gaskets
- PVC Door frame
- PVC Hollow door
- PVC Ceiling panel
- PVC Siding Panel
- PVC Wall panel
- PVC Louver
- PVC Skirting
- PVC Rolling shutters/blinds
- PVC Fencing
- PVC Cellular foam profiles

## WPC Door Frame Production Line



### Technology Highlights

#### - Extrusion technology

Excellent extrusion technology makes product less bending coefficient and less shrinkage for heavy door use.

#### - Screw & Barrel design

Uniform thawing of materials, fast shear rate, high output and long service life.

#### - Mould

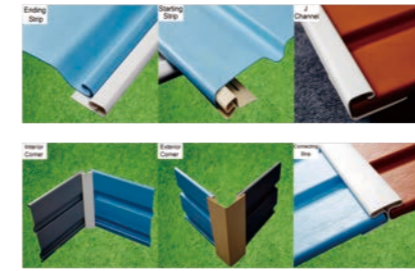
This machine can produce different types of door frame profiles by changing moulds.

### Application

WPC door frame is mainly used for door, indoor home decoration, indoor and outdoor guardrail and other decorative material. It is an ideal choice for decoration of villa, home, hotel, shopping mall and office.

Item	Details
Material	WPC
Width	100-300mm
Model	FLZ65/132, FLZ80/156
Output	100-200kg/h, 200-350kg/h

## PVC Siding/Soffit Panel Production Line



### Technology Highlights

#### - Combine

Extrusion+Lamination+Punching

#### - Co-extrusion

Single-layer and double-layer co-extrusion for customers to choose

1. ASA/PVC film lamination
2. PVC+ASA; PVC+PVC Co-extrusion

#### - Mould

This machine can produce different types of siding panel profiles by changing moulds.

### Application

Cladding system  
Siding Panel  
Exterior use  
Interior use

Item	Details
Material	PVC/PVC+ASA
Production speed	≤7.8m/min
Width	Customized
Output	160-250kg/h

# FANLYPLAS

# SPC Flooring Production Line



Step 1

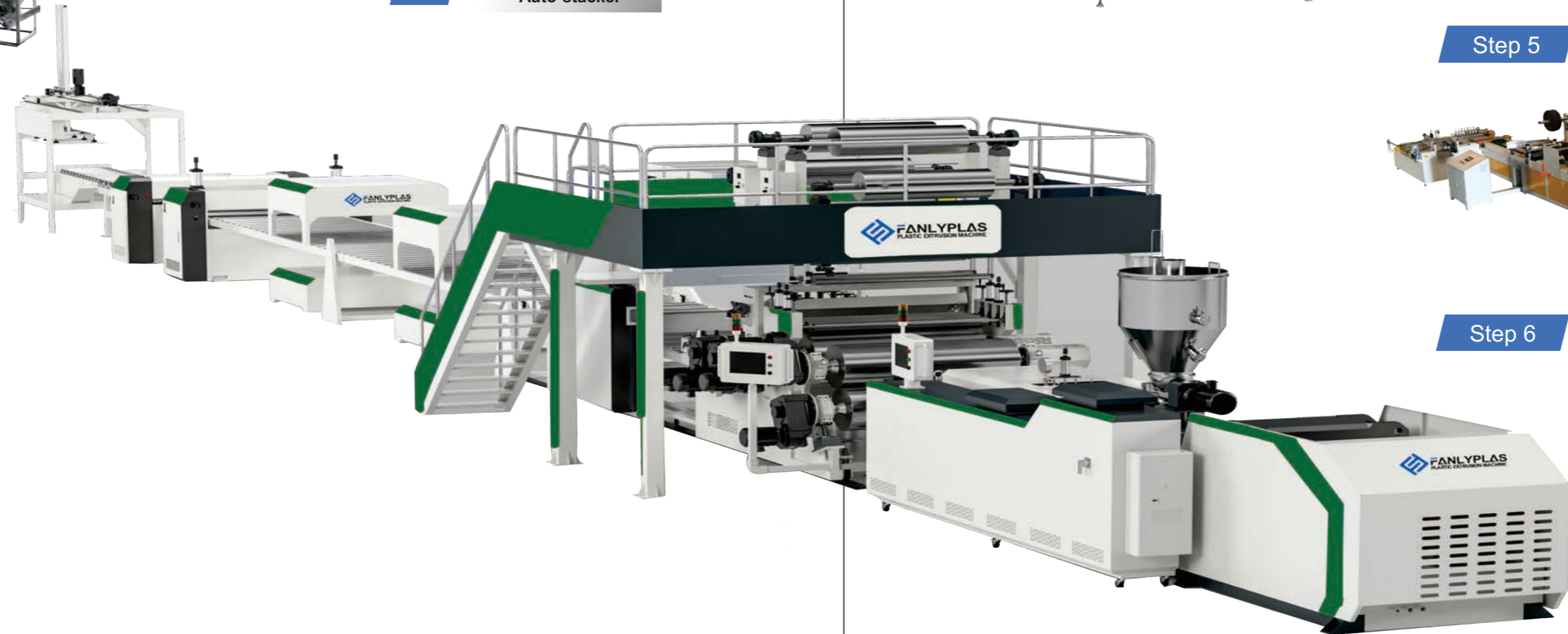
Mixing



Step 2

Extrusion Line

- 1 Extruder
- 2 T-Die
- 3 Calender/ (lamination)
- 4 Cooling & Haul off
- 5 Cutting
- 6 Auto-stacker



# SPC Flooring Production Line

Step 3

UV coating line



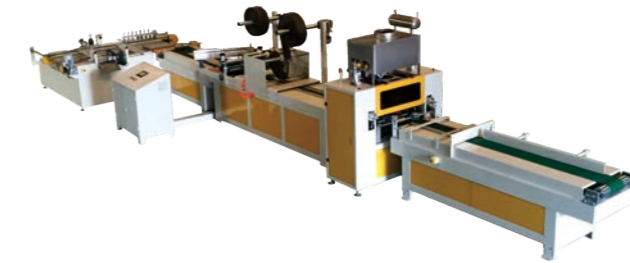
Step 4

Slitting and Grooving Unit



Step 5

IXPE/EVA lamination



Step 6

Packaging



## Technology Highlights

### - Extrusion unit

Five Roller calendar technology  
Online EIR technology  
High efficient production line

### - Complete solution

We supply complete solution including:

1. Automatic weighing and compounding system and mixing
2. Extrusion Line
3. UV Coating Line
4. Slitting and Grooving Line
5. IXPE/EVA Lamination Line
6. Automatic Packing Line
7. Recycled Unit

Item	Details
Main materials	PVC+CaCO <sub>3</sub> +Additives
Density	1.9-2.1g/cm <sup>3</sup>
Thickness	2-8mm
Width	950-980mm;1220mm

### - Finished Product Size

Planks Size:  
152.4x914.4mm; 180x1220mm;184x1220mm;  
203.2x914.4mm;203.2x1220mm

## LVT Flooring Production Line



### Technology Highlights

#### - Extrusion unit

Parallel twin screw extruder technology  
Online EIR technology  
Seven Roller calendar  
High efficient production line

#### - Complete solution

We can provide complete solution including:

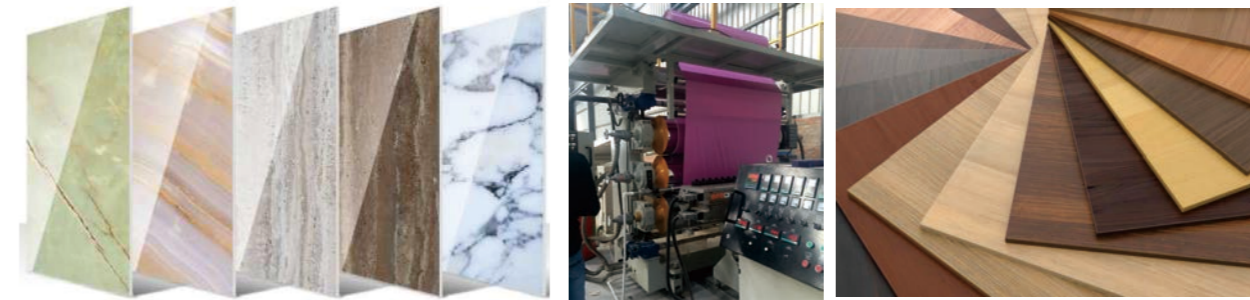
- 1.Paraller twin screw extrusion line
- 2.UV Coating line
- 3.Tempring and annealing line
- 4.PVC floor automatic cutting
- 5.Glue Coating and release paper lamination (Optional)
- 6.Automatic Packaging line

Item	Details
Main materials	PVC+CaCO <sub>3</sub> +Additives
Density	1.9-2.0g/cm <sup>3</sup>
Thickness	1.2-5mm
Width	950-980mm

#### - Finished Product Size

Planks Size:  
152.4x914.4mm; 180x1220mm;184x1220mm;  
203.2x914.4mm;203.2x1220mm  
Tile Size:300 x300mm; 450 x 450mm;  
600x600mm

## PVC Laminate/Marble Sheet Production Line



### Technology Highlights

#### - Extrusion unit

- Embossing roller quick changing system
- One-click synchronization system
- Online embossing and hot stamping

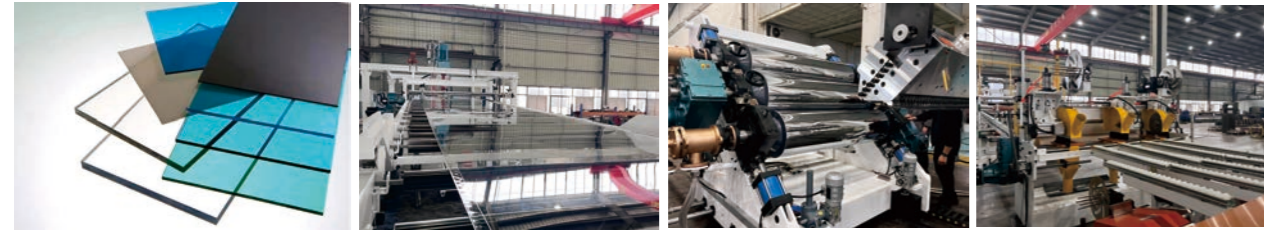
### Application

- Decorative sheet
- Wall panel
- Door skin
- Sandwich panel skin
- UV Panel

Item	Details
Main materials	PVC+CaCO <sub>3</sub> +Additives
Density	1.5-2.1g/cm <sup>3</sup>
Thickness	0.6-6mm
Width	1220/1560/2050mm
Length	2440mm
Capacity	300-600kg/h

## PMMA / PC Sheet Production Line

Item	Details
Screw diameter	120, 130 mm
Screw L/D ratio	35 - 41
Working width	1500 - 2400 mm
Capacity	400 - 600 kg/h



### Technology Highlights

#### - Extrusion unit

- Optical grade extrusion
- No crystal point
- Precise temperature control, no burning of materials
- Dual degassing system
- Online UV Coating
- UV Coex

#### - Pretreatment system

- Dehumidifying and Drying feeding system  
In order to achieve better product quality, the raw materials must be properly dehumidified and dried to remove the moisture in the raw materials.

#### - Provide different embossing rollers to achieve different functions of products

- light guide plate
- Light diffusion plate



## PMMA / PC Sheet Surface Coating Line



Processing sheet size	Details
Height	≤ 2100mm
Width	≤ 2500mm
Thickness	≤ 40mm
Line speed	0-6 m/min



### Complete solution

Provide complete solution including: Conveyor; Dust removal system; UV spraying system; Heating flatten system; UV drying and curing machine; Online automatic lamination system; Offline lamination machine; Edge trimming machine

### Available functions

Hardening  
Scratch-resistant  
Outdoor weather-resistant  
Anti-fog  
Anti-static  
Anti-glare  
Anti-fingerprint

### Application

Furniture  
Protective masks  
Industrial instrument panel, protective cover;  
Advertising light boxes, display racks;  
Vehicle doors and windows;  
Lighting shade;  
Medical

# PVC/ABS Edge Banding Extrusion Line



## Technology Highlights

### - Extrusion unit

Adopt vacuum primer injection technology, strictly control primer quantity and reduce waste, sealed environment, no irritating odor; Energy-saving permanent magnet motor; Automatic winding and cutting.

### - Complete solution

- Single screw 2 steps solution:
  - 1.Twin screw extruder pelletizing
  - 2.Single screw extrusion
- Twin screw 1 step solution:
  - 1.Twin screw extrusion line
- Sheet 2 steps solution:
  - 1.Twin screw sheet extrusion
  - 2.Sheet slitting into edge banding

Model	Motor power	Product width	Design capacity
FL55/25	11-15 Kw	17-45 mm	50 Kg/h
FL65/25	15-22 Kw	17-70 mm	80 Kg/h
FLZ51/105	18.5 Kw	22-70 mm	50-80 Kg/h
FLZ55/120	22 Kw	22-70 mm	100-150 Kg/h
FLZ65/132	37 Kw	150-450 mm	160-250 Kg/h
FLZ80/156	55 Kw	600-650 mm	280-320 Kg/h

# Edge Banding Printing Line



Color printing machine    Conveyor and infrared oven    Three-lamp UV dryer

## Technology Highlights

Complete overprinting, random patterns-coupling both in vertical and horizontal directions surface coating and UV drying processes at one time. PU rollers and printing rollers are easy to install and uninstall. Reasonable structure and easy operation make it the most ideal equipment for edge banding printing

## Process flow

Rewinding → Single-color printing → Infrared drying → Single-color printing → Infrared drying → Single-color printing → Infrared drying → Two-wheel UV coating → Heating flattening → Three-lamp curing → Winding

Item	Details
Printing width	240 mm
Printing thickness	0.4-2 mm
Printing color	3 color
Printing speed	0-30 m/min (Adjustable)
Total power	30 Kw
Overall dimensions	17200x1000x1600 mm



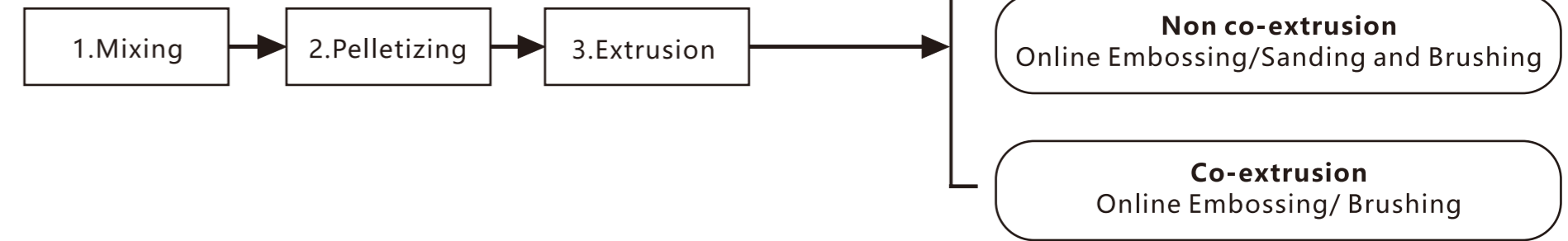
## Natura WPC Products

All of humanity spends our lives to get back to nature. NATURA WPC products by We FANLYPLAS extruder to produce decking, wall cladding, ceilings, fences, panels columns with different surface treatment like embossing, sanding, brushing, lamination, etc. to reach more natural surface. It can be used both interior and exterior.



## Innovative Technologies for Outdoor Profile

WPC (wood plastic composite) is a new kind of environmental friendly material, making well use of PP, PE, PVC, recycling plastics and wood fiber (sawdust, rice husk, wood shavings, straw, etc.) through the processing plastic as well.

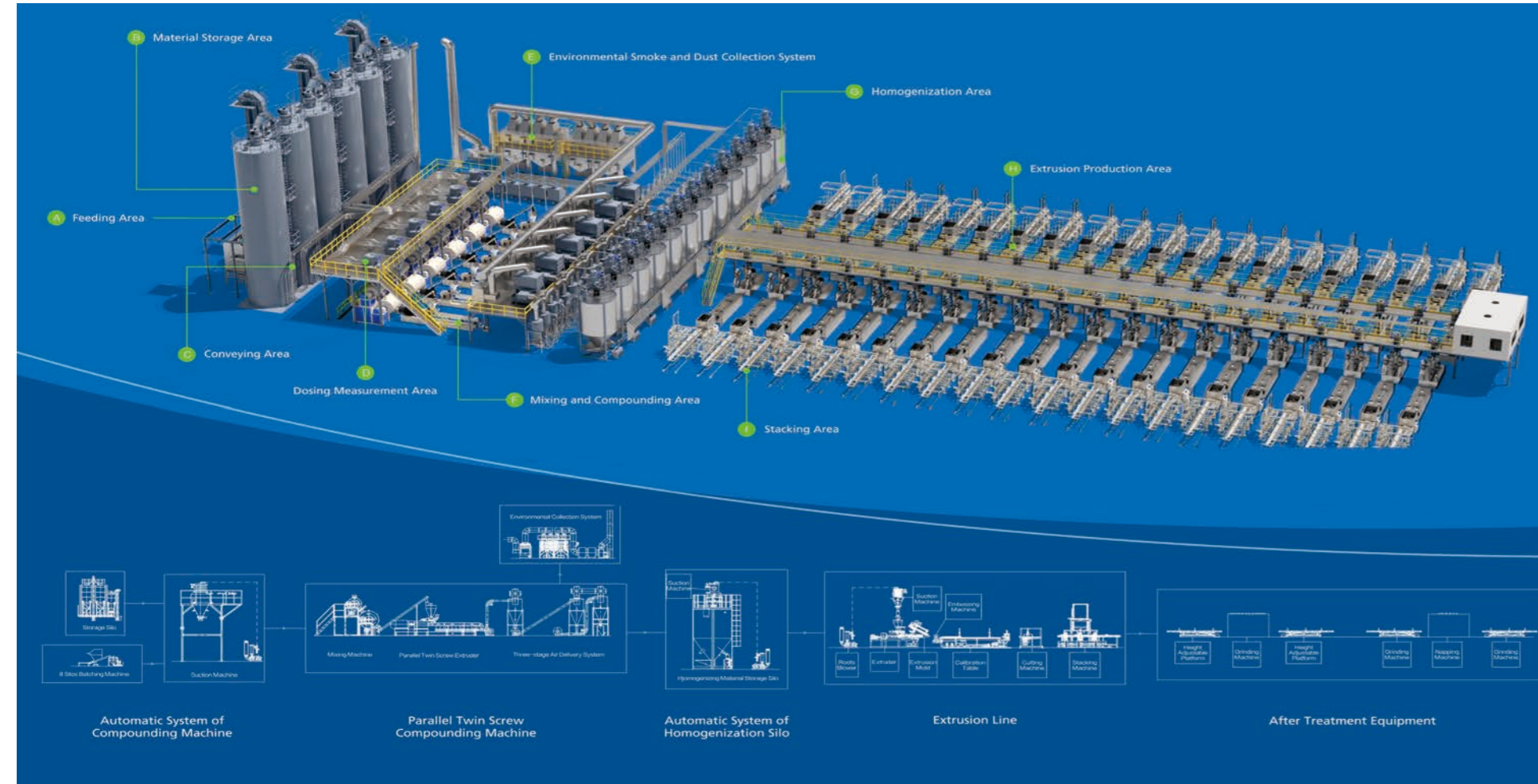


# PP/PE WPC Plastic Profile Production Line

1. Compounding and Pelletizing Line
2. Extrusion Line

## Applications:

Decking, cladding, tiles, fences, railing and other WPC plastic lumber products. It is suitable for residential, commercial and industrial using.



# RESYSTA Profile Production Line

Item	Details
Material	PVC
Width	100-1000mm
Model	FLZ65/132, FLZ80/156
Output	150-350kg/h



## Technology Highlights

FANLYPLAS RESYSTA profile lines, with direct extrusion, are based on plasticizing, mixing and extrusion with counter-rotating twin screw extruder as main unit.

The embossing machine, sanding and brushing machine of FANLYPLAS would give RESYSTA profile more authentic appearance of wood.

Moreover, the extruded products are 100% recyclable.

## Application

RESYSTA is using materials sourced from nature with up to 60% natural fibers (such as wood flours coming from rice husk, sugar cane, hemp) and some additives.

The finished product has a wood like appearance and its main applications are in construction, building exteriors and interiors field (decking, siding, wall cladding, soffit & ceilings, screen walls, trellis/ canopy applications).

## Signage Package & fashion Products

As consume products related with signage PVC.PS.PMMA. PP take important roles of it. Combined with printing, sticking, cutting to meet up different advertising requirements.

Luggage, bags, trolleys are defined to be a fashionable products because of it's rich designs, shapes. Our Granplas series PC ABS hard shell luggage extrusion lines devote more performance to the quality products.



## PC/ABS Luggage Production Line



Model	Specification & parameters
Main extruder	Φ100, 110, 115, 120 mm
Auxiliary extruder	Φ60, 70, 80, 90 mm
L/D	35-38
Sheet thickness	0.8-5 mm
Sheet width	900-1200 mm
Design capacity	300-500 Kg/h

## Accessories Assembly Line



### Production flow & Technology Highlights

- PC/ABS Luggage Sheet Extrusion
- Dehumidifying and Drying feeding system

In order to achieve better product quality, the raw materials must be properly dehumidified and dried to take away the moisture in the raw materials.

- Screen changing system

Non-stop screen changing system to reduce the waste of raw materials.

- Feedblock

Control the stable combination of PC and ABS, uniformly control the layering ratio and thickness.

- PC/ABS film online lamination
- Full automatic controlled by PLC
- Vacuum Forming

- Dual workstations work alternately to achieve continuous production

- CNC Cutting

- Intelligent program-controlled 3D cutting

- Luggage Accessories Assembling

## PVC Free Foam Sheet Production Line

Item	Details
Thickness	1-10mm
Width	1220/1560/2050mm /Customized
Model	FLZ80/156, FLP115/28
Output	300-500kg/h



### Technology Highlights

1. Even plasticization and agglomeration;
2. Reliable quality;
3. Long servicing life;
4. Direct conversion of powder into plastic products.

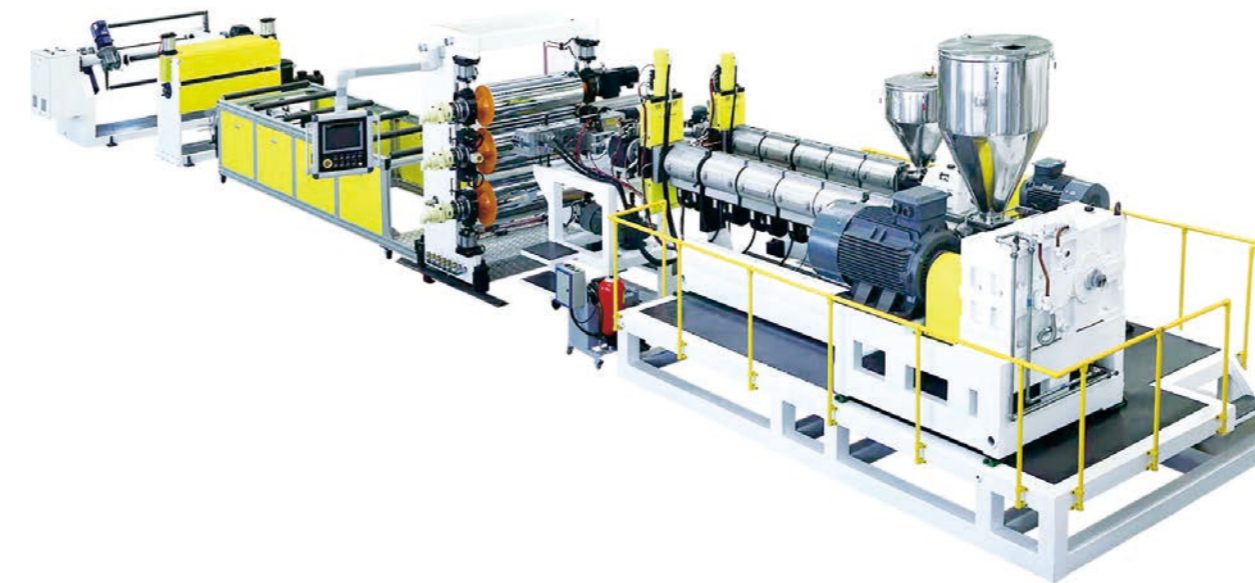
### Application

PVC free foam sheet, also known as snow board and Andy board, its chemical composition is polyvinyl chloride. PVC free foam sheet is widely used in advertisement sheet printing, engraving and cutting, sign board, billboards, displays, exhibition & display and etc.



## ABS/HIPS Sheet Production Line

Item	Details
Thickness	0.3-3mm
Width	1220-1800mm (Customized)
Model	120/36+65/36+130/36
Output	500-800kg/h



### Technology Highlights

#### - Screen changing system

Non-stop screen changing system to reduce the waste of raw materials.

#### - Gear Pump

Precisely control the amount of raw material discharged, and it can be linked with the host motor to maintain a fixed amount of material.

#### - Calendar

Horizontal three-wheel design, the middle wheel can be used to produce and change different patterns. The gap between the wheels can precisely control the embossing and thickness of the plate sheet.

### Application

#### - Advertising board

Guiding board, machinery sign, advertisement decoration, indoor decoration and so on.

#### - Refrigerator board

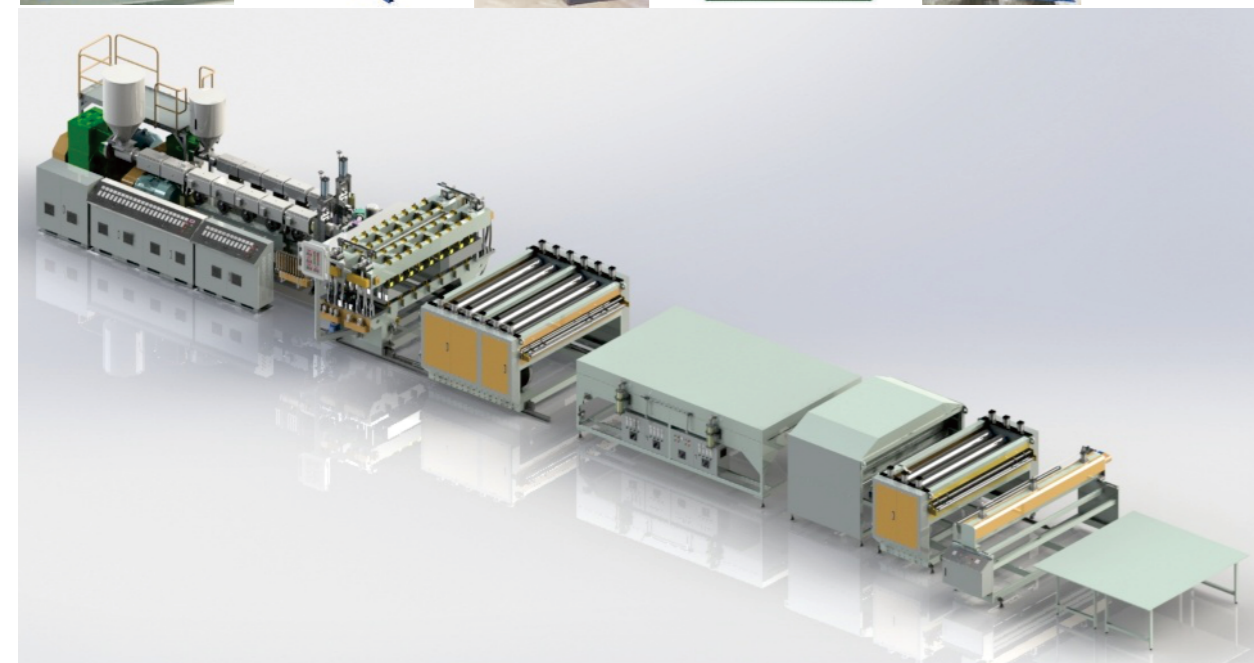
Refrigerator door and inner liner, drawers, water dispensers, etc.

#### - Sanitaryware plate

Bathtub, shower cabinet, vapor room, washing bowl, etc.

## PP Hollow Sheet Production Line

Item	Details
Thickness	2-4, 5-7, 8-10, 10-12mm
Width	1250/1650/2150/2200/2450/2600/2800mm /Customized
Model	105,120
Output	200-400kg/h



### Technology Highlights

#### - Extruder

Specially designed screw, advanced temperature control system, ensuring stable extrusion and high output.

#### - Die

Super quality alloy lips and adjustable restrictor bars, providing even pressure.

#### - Vacuum calibrator

Heat-convection system array interleaved, guarantees high precise of calibration.

### Application

#### - Industrial packaging

Electronic circulating box, Auto part circulating box, Logistics circulating box etc;

#### - Delivery packaging:

PP turnover container box, PP corrugated packaging box, PP turnover packaging box, Plastic fire-retarding packaging box for food, Electronic or delivery industry.

#### - Advertisement:

Display card, Billboard, Light box, etc.

## PP PS PET Thermoforming Sheet Line

Item	Details
Thickness	0.2-2mm
Width	600-1500mm
Extruder model	120/130/150
Co-extruder model	65/80/90
Output	400-600kg/h



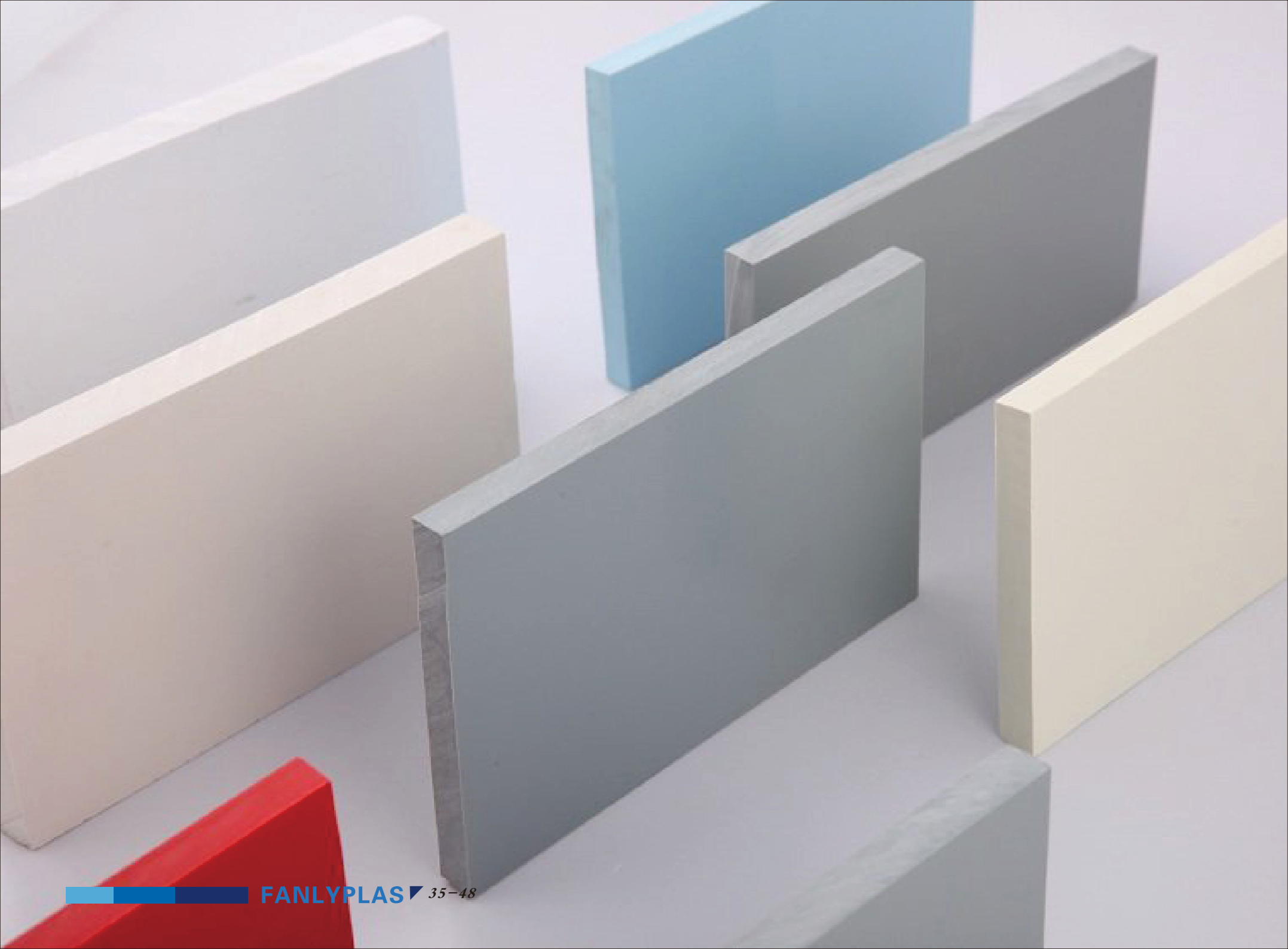
### Technology Highlights

- Special design of vented single-screw extruder
- Crystallize & dehumidify-dryer
- European technology vacuum vent system
- Rolls driven & controlled individually, also synchronized

### Application

- Thermoforming sheet
- Pharmaceutical packaging containers
- Fruit & vegetable containers
- Food/cake boxes
- Egg trays
- Seedling trays
- Deep cups over 18cm





## Environmental & engineering Products



## PVC/CPVC Chemical Board Production Line



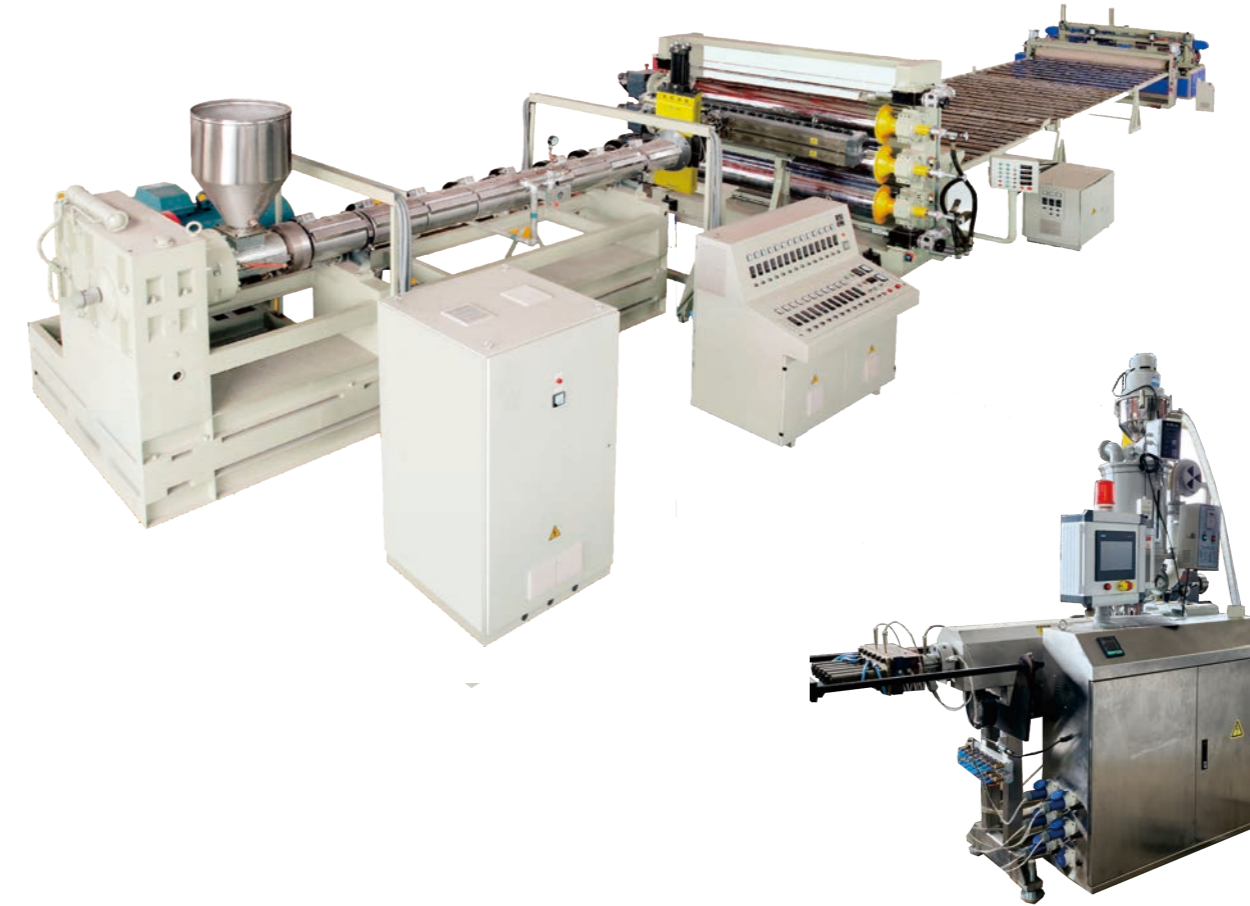
### - Application

- Widely used:
- Chemical industry
  - Petroleum industry
  - Water purification treatment equipment
  - Electroplating industry
  - Mining industry
  - Environmental protection equipment
  - Medical industry
  - Electronics and communications industry

Item	Details
Density	1.45-1.85g/cm <sup>3</sup>
Thickness	2-50mm
Width	1000-2000mm



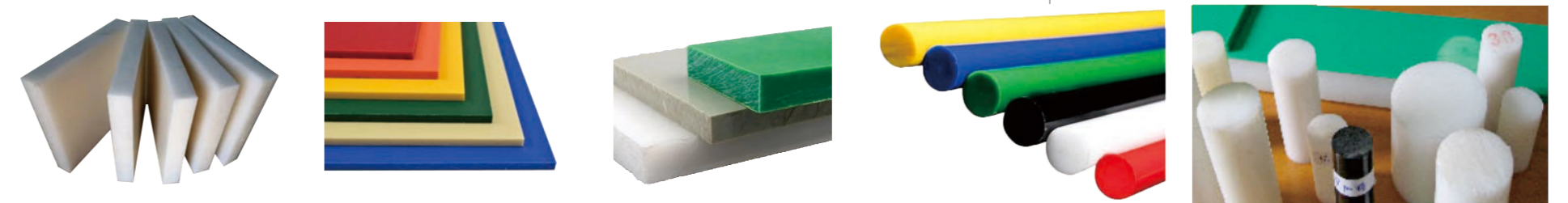
## PP/PE Thick Board/ROD Production Line



### - Application

- Widely used:
- Chemical industry
  - Construction and decoration industry
  - Advertising display industry
  - Aquaculture industry
  - Medical industry
  - Types of rods:
  - PP/PE
  - NYLON
  - POM
  - PEEK

Item	Details
Main materials	PP PE
Thick board	Thickness: 1-20mm; Width: ≤3000mm
Products range	Thickness: 20-120mm; Width: 600-1500mm
Rods diameter	20-300mm



# Technology Profiles

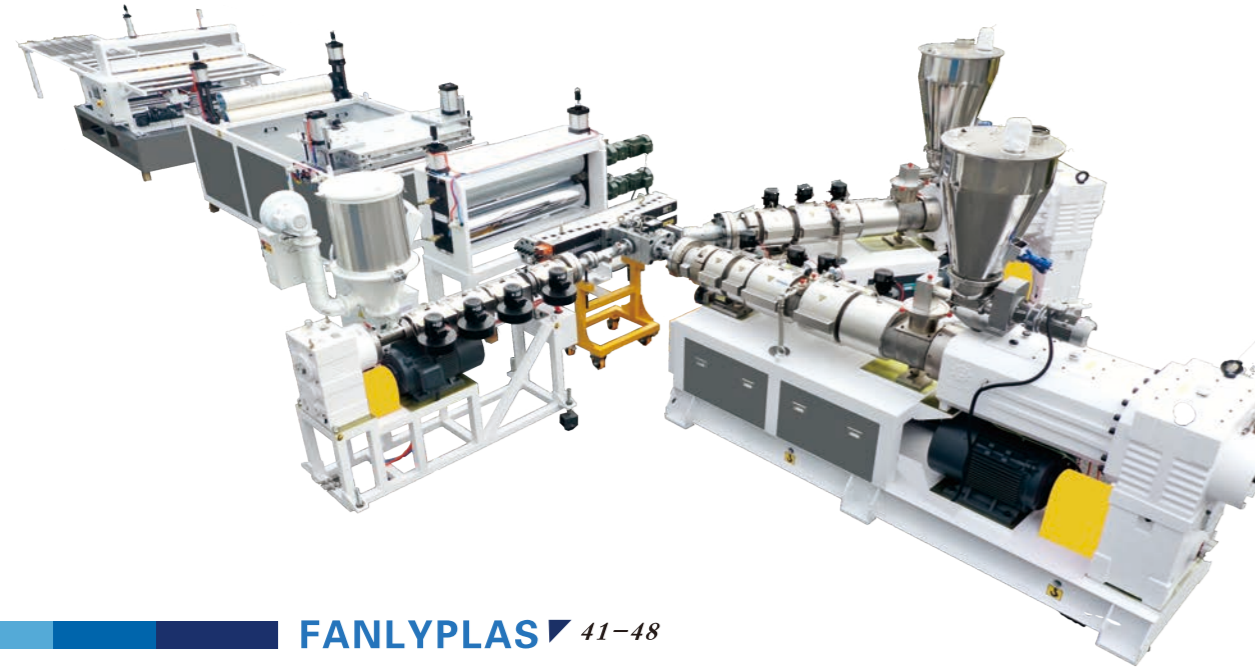
In our extrusion technology, there are still many products with irregular shapes, but they need our core technical support to complete. This core technology is reflected in our screw structure, precise temperature control, uniquely designed die flow channel, forming process, cooling method and many functional and decorative surface treatments.

It's not a simplified extrusion process, but needs to combine the technology and industry experience to reach the target.



## PVC+ASA Trapezoidal Roof, Corrugated Roof Extrusion Line

Product width	Product thickness	Pitch of waves	Wave length	Wave height	Motor power	Design capacity
880-1050 mm	2-3 mm	160 mm	220-250 mm	30 mm	55-75 Kw	350-450 kg/h

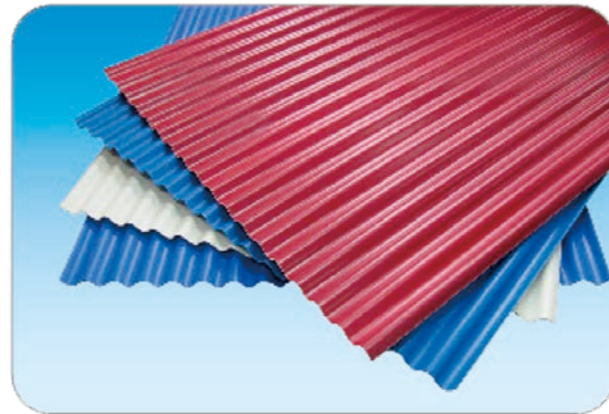


### Technology Highlights

**- Remote diagnosis**  
PLC with remote module can read fault codes remotely and guide customers to conduct preliminary troubleshooting

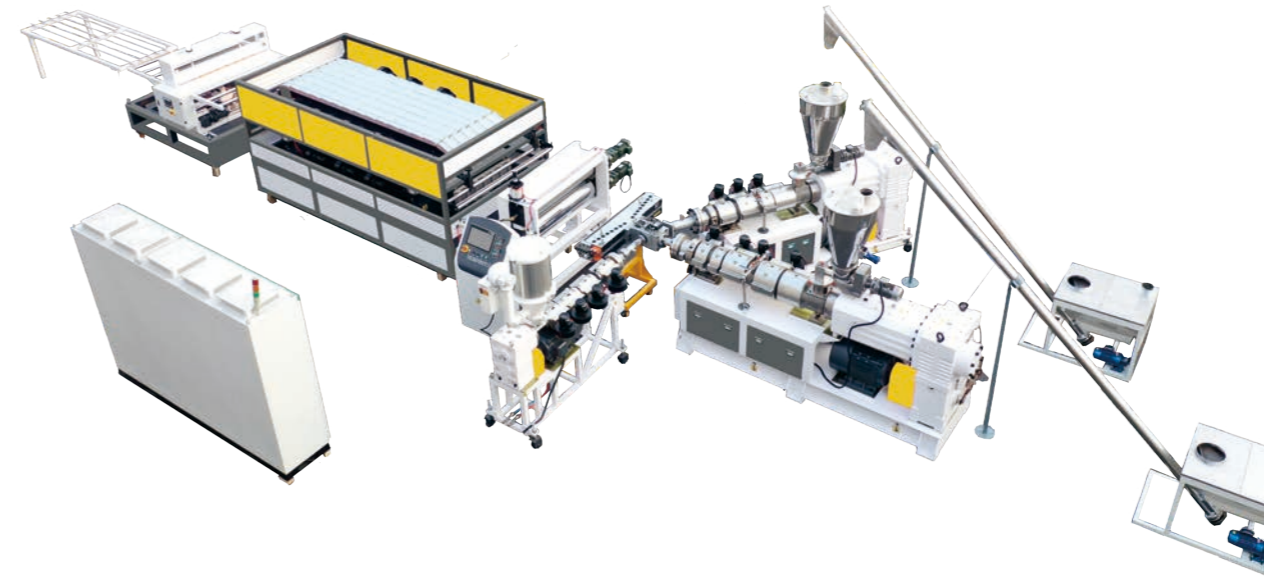
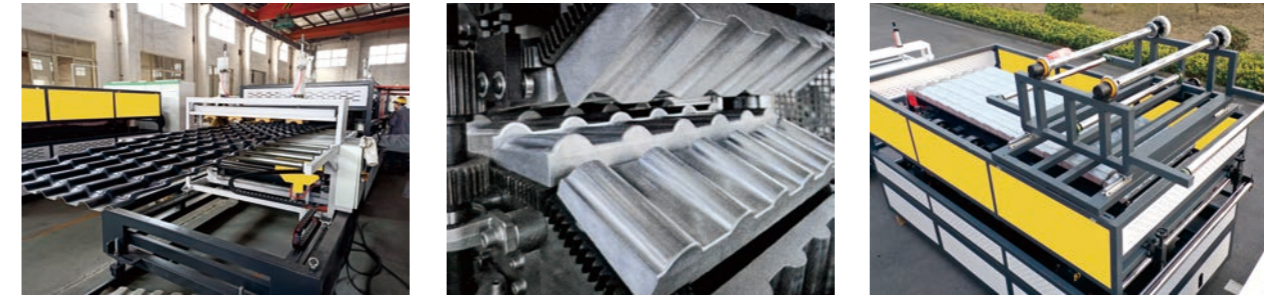
- PLC linkage**  
Synchronous control of the entire production line
- High-yield main extruder**
- Quick switching of corrugated tile dual mould**
- Intelligent online waste edge recovery**

Realize online trimming, crushing, recycling, feeding and reuse of waste edges



## PVC+ASA Glazed Roof, Synthetic Resin Roof Extrusion Line

Model	Product width	Product thickness	Product shape	Extruder power	Extrusion capacity
FLZ80/156	840-1130 mm	1-3 mm	Circular/Trapezoidal	75	350-450kg/h
FLZ92/188	880-1050 mm	1.3-3 mm	Circular/Trapezoidal	110	400-500kg/h

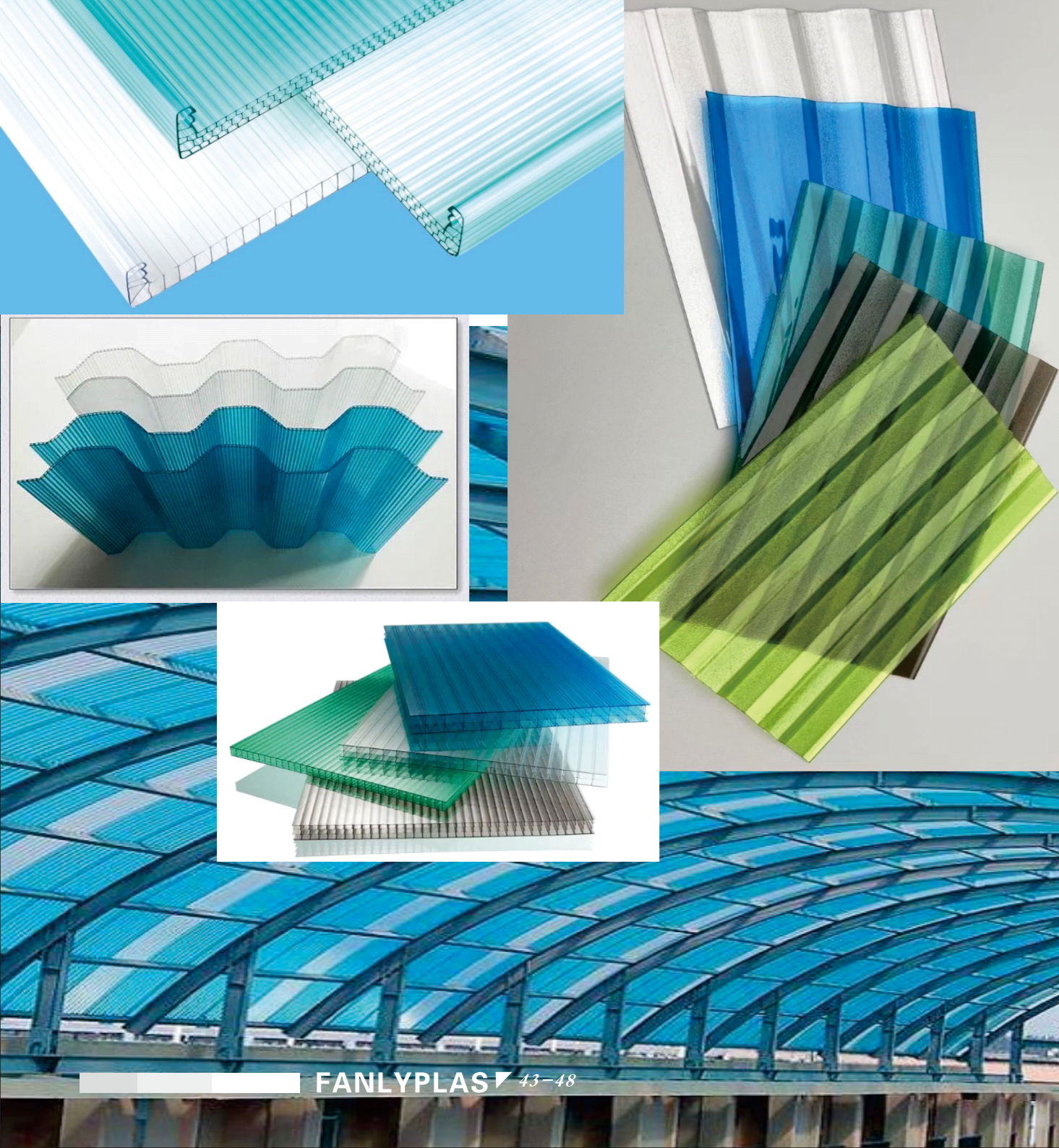


### Technology Highlights

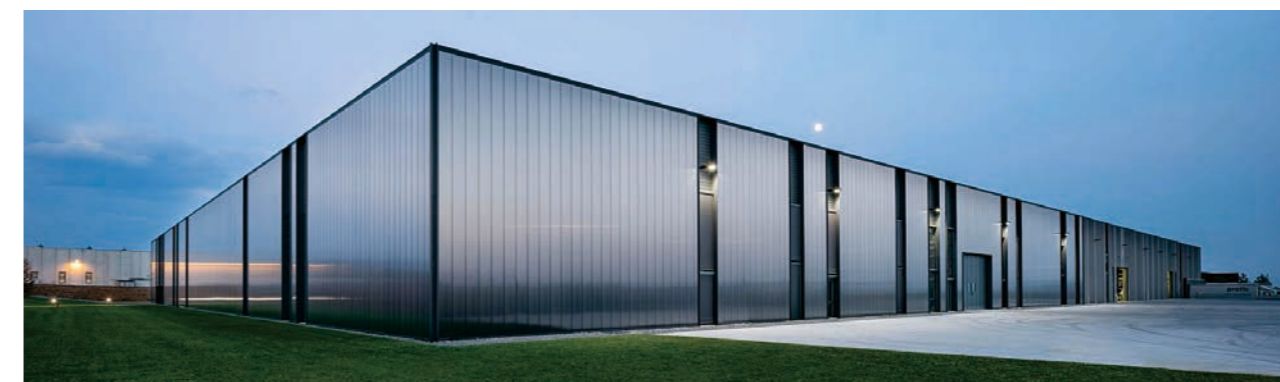
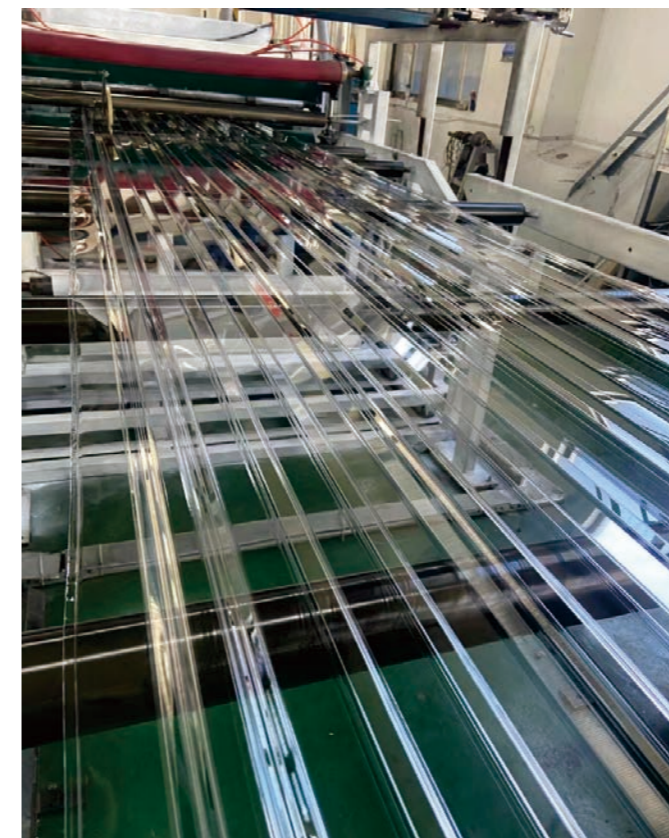
- Remote diagnosis**  
- PLC intelligent control system makes the production line easy and convenient to operate.
- Precise temperature control**  
Reduce energy consumption and improve production efficiency and product quality.
- Automatic frequency conversion adjustment and synchronous production.**
- Rolling module one-time forming, and the product thickness is uniform.**
- Online waste edge recycling and reuse.**

Structure	Material
Two-layer	ASA + PVC
Three-layer	ASA + Virgin + PVC
Four-layer	ASA + PVC + CaCO3 / Recycled material + PVC





## PC Corrugated Sheet/Hollow Sheet/Structure Board Production Line



### Features of PC Building Products:

**High impact and good transparency**

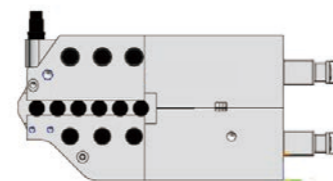
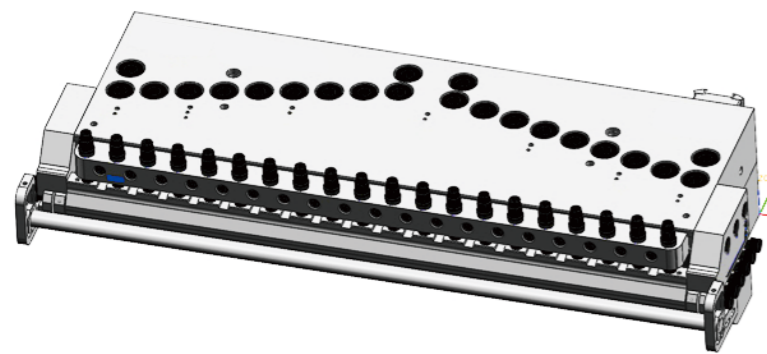
### Application:

- Swimming Pools, Ski Resorts
- Indoor Venues
- Station Rest Pavilions
- Roofing of Shopping Mall, Warehouse Eco Building
- Stadium, Airport, Industrial Building
- Railway Station, Subway Station Entrance
- Erection Partition, Facade
- Green House, Awning
- Walkways, Carports

Model	FLD120, FLD80
Material	PC, PC+UV
Width	1200-2100mm
Thickness	0.6-1.5mm
Extruder	Φ120/Φ45, Φ130/Φ80
Capacity	250-300kg/h, 350-500kg/h

## Mould, Feedblock

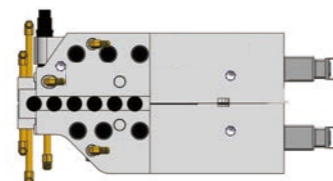
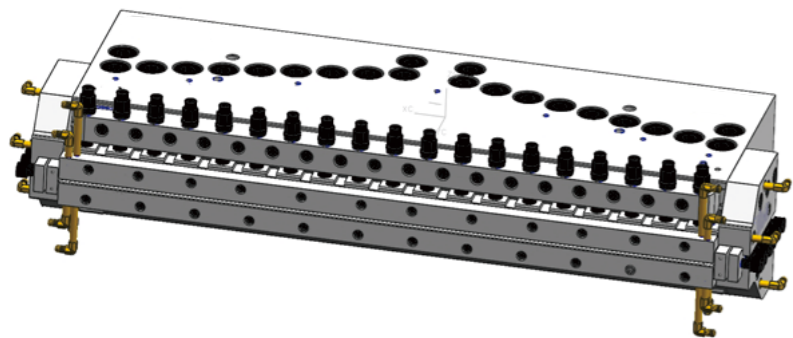
①



### 1. PVC free foam sheet T-Die

T-Die width: 1350mm, 1700mm, 2200mm  
Product width: 1220mm, 1560mm, 2050mm  
Product thickness: 1- 5mm

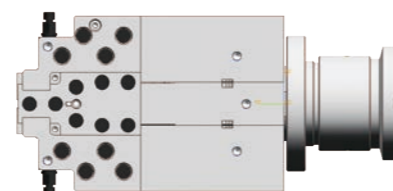
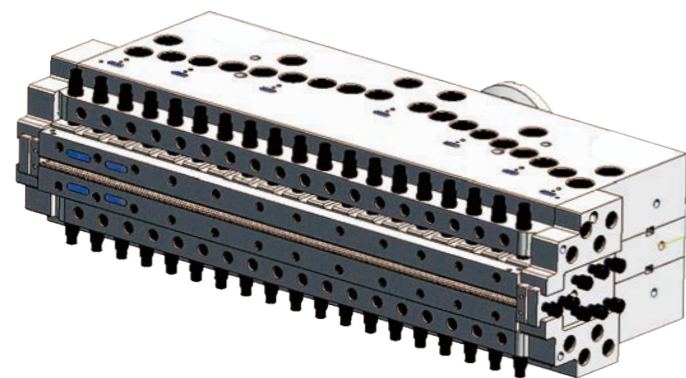
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### 2. PVC Celuka foam board T-Die

T-Die width: 1350-2150mm  
Product width: 1220-2050mm  
Product thickness: 2-35mm

③

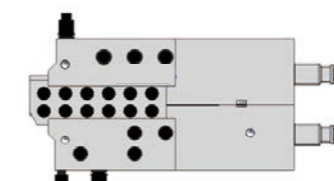
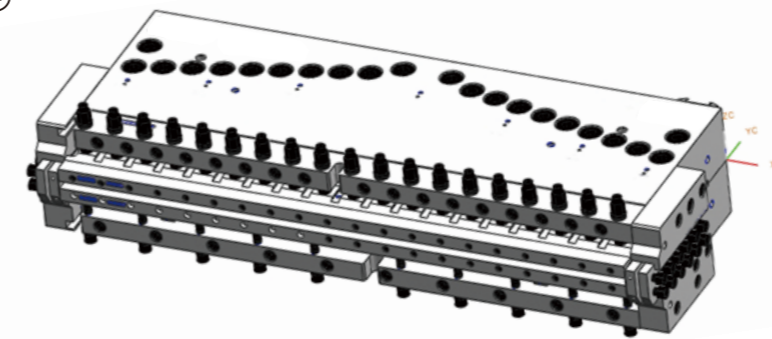


### 3. PVC Double layer foam board T-Die

T-Die width: 1350-2150mm  
Product width: 1220-2050mm  
Product thickness: 10-20mm

## Mould, Distributor

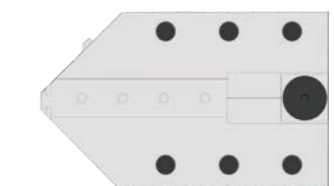
④



### 4. PVC/PP rigid sheet T-Die

T-Die width: 1100-2200mm  
Product width: 1000-2100mm  
Product thickness: 1-30mm, 30-60mm

⑤



### 5. PP PE PS PC PMMA EVA CPE TPU ASA sheet T-die

T-Die width: 1150-2100mm  
Product width: Die upper lip with all push type adjustment device  
Product thickness: 0.15-2.5mm

⑥



### 6. Feedblock Adapter + Multihole Bush

a. Feedblock can solve the problems of high pressure on downstream, uneven co-extrusion layers and short running time.  
b. Adapter with temperature control device can solve over-temperature problem.  
c. Multihole bush can promote plasticization and save formula cost and solve color difference and board surface lines problems.

## Roller

### Surface raw material:

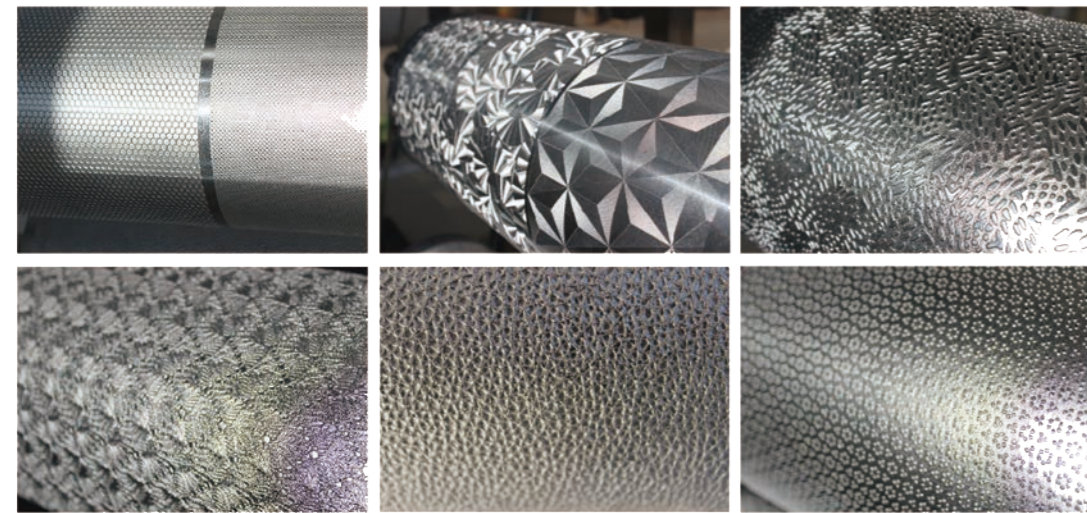
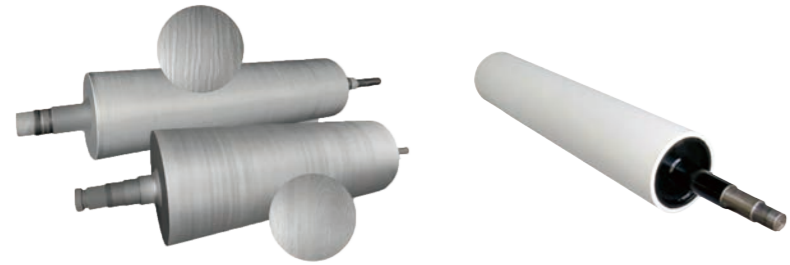
1. 45# Seamless steel pipe
2. Forging 42CrMoA
3. 40Cr

### Roller axis raw materials:

Forging 45#steel

### The main species:

Super Mirror finish roller, mirror roller, Patternroller, sand roller, matte roller, stainless steel roller



## Screw and Barrel

### Raw material:

1. 38CrMoALA (JIS SACM645)
2. 42 CrMo(JIS SCM440)
3. 9 Cr18MoV
4. CW6Mo5Cr4V2
5. SKD61

### Heat treatment:

Nitriding treatment, Hard chroming treatment, High frequency quenching, Spraying bimetallic alloy for corrosion, Resistance & abrasive resistance, Vacuum quenching

### Technical:

Nitriding thickness: 0.5-0.8mm;  
 Nitriding hardness: 900-1000HV  
 Nitriding frangibility: ≤1 class; Surface roughness: Ra0.4  
 Screw straightness: 0.015mm;  
 Chrome plating thickness: 0.025-0.085mm



## Machine components and accessories



Through cooperation with large and well-known global brands (such as Siemens, ABB, etc.), we jointly create first-class, stable and high-end mechanical products in the industry.



FANLYPLAS

