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CHAMPION(SHANGHAI) IMP. & EXP. CO., LTD.

CHAMPION(SHANGHAI) EXTRUSION MACHINERY CO., LTD.

MGL(SHANGHAI) EXTRUSION MACHINERY CO., LTD.



## Brief Introduction

CHAMPION(SHANGHAI) IMP. & EXP. CO., LTD, CHAMPION(SHANGHAI) EXTRUSION MACHINERY CO, LTD. and MGL(SHANGHAI) EXTRUSION MACHINERY CO., LTD. Is the world specializing in the production of high performance plastics board/ sheet extrusion machines and one of leading Manufacturers and pioneer in plastics board/ sheet extrusion machines industry. Because of its highly specialized and specialization, always enjoy high reputation for high quality and satisfied service and professional technical supports, and export to the countries in the world. Always focus on Researching, Developing, Designing and Manufacturing the high grade& high efficiency of Plastic Sheet/Board Extrusion machines. Also can make the different special machines as per the customers' different requirements. The main products are: - the variety of plastic extrusion production lines, mono-layer or multi-layer co-sheet extrusion lines, single and double screw extrusion machines, three- roller stack, the forming device, cooling conveyor, take-off, guillotine shear, transverse & longitudinal saw, stacker, winder, and a variety of related accessories & parts such as mirror roller, embossing roller, screw & barrel, mixer, feeder, and so on.

Most welcome to visit our company and machines for further discussion!





## Equipment And Management



To have the high quality & high efficiency machines, to have to have the advanced production technology and equipment & tools firstly that all will be the strongly reliable guarantee of the high quality requirements in all international markets, that all can research, develop, design and make the machines as per the customers' requirements.





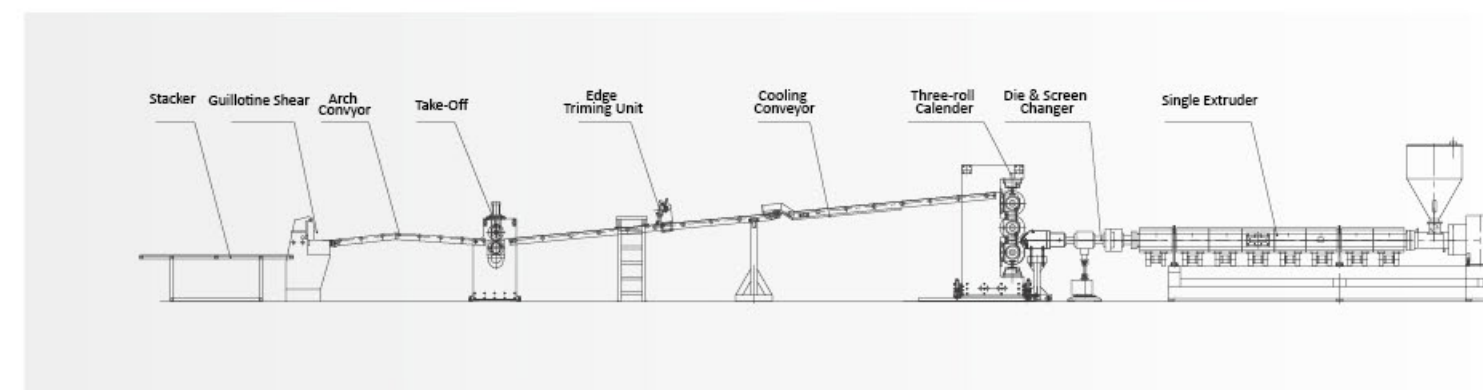
# ABS-PMMA/ABS-PC/ ABS/HIPS/PP/PE

## Sheet Production Line

### ABS / HIPS Sheets/Board:

Includes ABS plates; fluoride-free ABS plates; antibiosis plates; high-gloss ABS/HIPS plates; HIPS plate; 141b resist HIPS plates. Have extremely strong low-temperature toughness, impact resistance, chemical stability and good performance.

Are mainly used in the refrigerators' / freezers' inner layer, drawers, doors' inner; water pans, water dispensers' inner liner & door; etc.



### ABS / PMMA Sheets/Board:

Is coextruded by ABS and PMMA, not only the strongly impact resistance of ABS, but also the high-gloss & rigidity of PMMA; has good molding Vacuum, high temperature & low temperature resistant, wear resistance, corrosion resistance and good mechanical processing performance;

Used for bathtub, shower room, wash basin, steam room, etc.

### Main Technical Specification

Model	CHD-120/60/45-1800	CHD-130/70-1800
Material	ABS、PS、HIPS、PMMA	ABS、PS、HIPS、PMMA
Extruder	120/38,60/35,45/35	130/38,70/35
Layer Structure	A/B/C,A/B/A,A/B	A/B/A,AB
Width	1200-1700mm	1800-2100mm
Thickness	1-6mm	2-8mm
Capacity	550-1000kg/h	750-1000kg/h

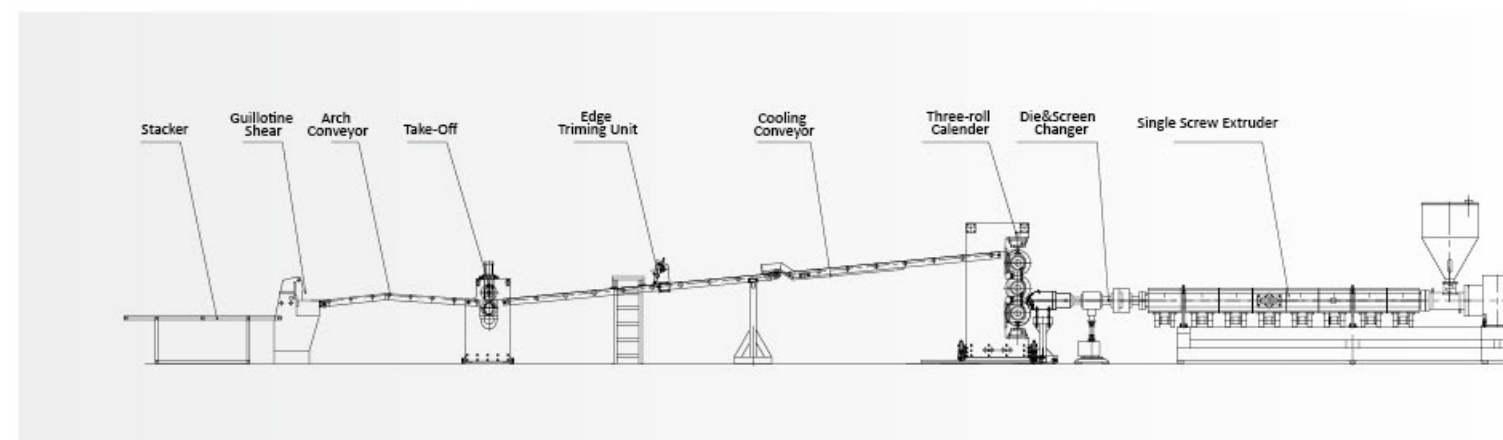


# ABS/TPO/EVA/EPDM/PP/PE

## Sheet/Board Production Line

### ABS Sheet/Board:

Skin-grain board, inferior smooth leather grain board, flame retardant leather board, etc. Has a good thermoplastic, flame retardancy and high impact performance; Usually used for the roof of cars/buses, dashboard, door, window frame, etc. Also for trip suitcases, bags, etc.



### TPO / EVA / EPDM Sheet/Board:

Ageing resistance, water resistance, corrosion resistance, resistance to ultraviolet ray, good flexibility, long service life, such as performance, is widely used in automotive sealing strip, sound insulation cushion, automobile tail box, fenders, car interior and exterior decoration parts, etc.

### PP / PE Sheet/Board:

A new waterproofing materials, polymer series is characterized by high tensile strength, good extension performance, and full of elasticity and waterproofness, is a kind of excellent performance of waterproofing materials. Are widely used in industrial sulfuric acid pool liner, subway, tunnels, basement, roof, railway bridge deck waterproof, garbage landfill engineering seepage control, tunnel waterproof, geocell, etc.

### Main Technical Specification

Model	CHD-120/60/45-1800	CHD-130/70-1800
Material	ABS / TPO / EVA / EPDM / PP / PE	ABS / TPO / EVA / EPDM / PP / PE
Extruder	120/38,60/35,45/35	130/38,70/35
Layer Structure	A/B/C,A/B/A, A/B	A/B/A, A/B
Width	1200-1700mm	1800-2100mm
Thickness	1-6mm	2-8mm
Capacity	550-1000kg/h	750-1000kg/h



# APET/PETG/RPET/CPET/ PLA/PP/HIPS

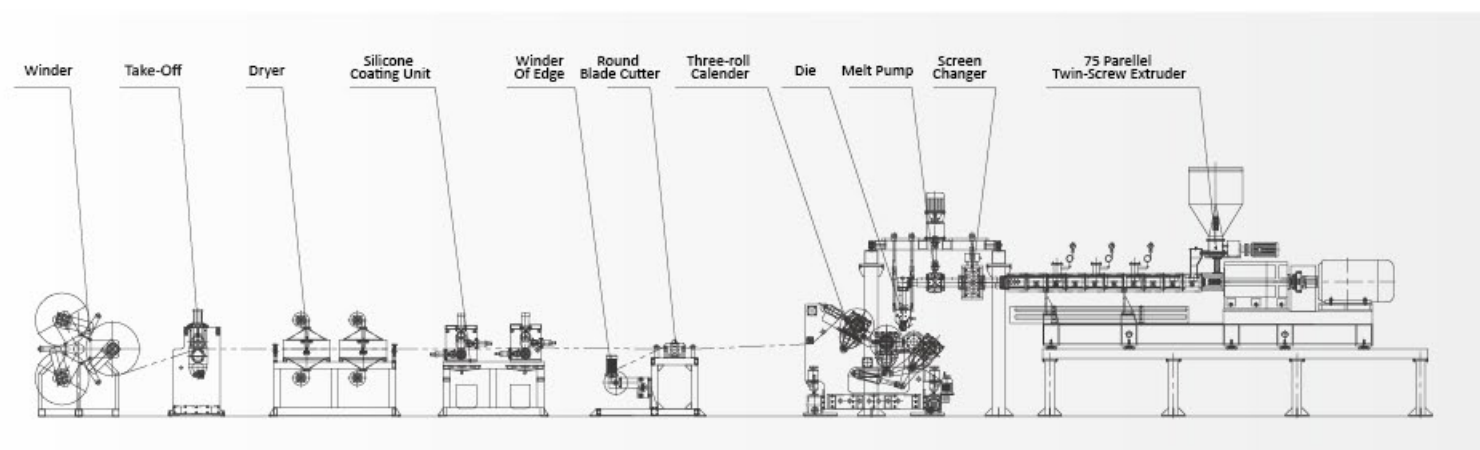
## Sheet Production Line

(Don't need Crystallizer, Don't need Dhumidify-dryer)



### APET/PETG/CPET/RPET Single-layer or Multi-layer Sheet Production Line:

It's one of the most advanced production lines with matured technology and stability in China. Compared with other same kind equipment, it's over 30% higher in overall efficiency. The line is also suitable for PS, PP, PE sheet production.



### Don't need Crystallizer, Don't need Dhumidify-dryer

Free of crystallization drying system, the new designed line can greatly reduce cost of production.

### Main Technical Specification

Model	CHD-75/85	CHD-120/90/65
Material	APET, PETG, CPET	APET, PETG, CPET
Width	650mm-1550mm	650mm-1550mm
Thickness	0.13-2.5mm	0.13-2.5mm
Extruder	Φ75/Φ85	Φ120/Φ90/Φ65
Capacity	600-1000kg/h	450-600kg/h



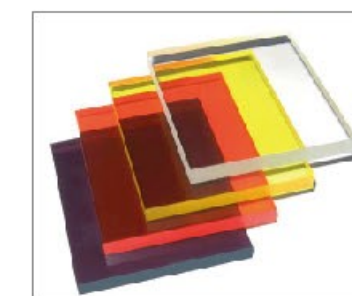
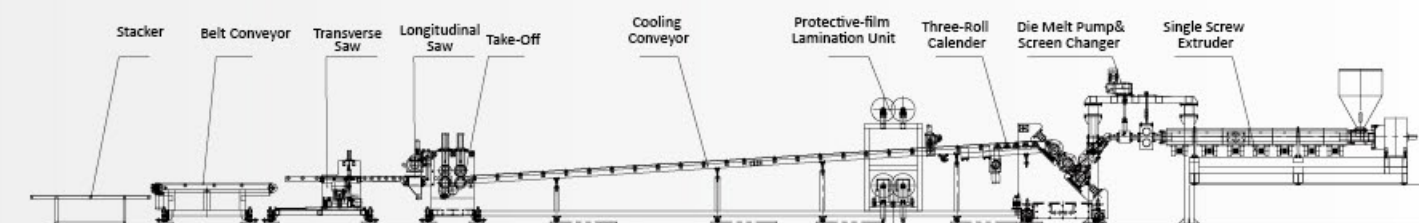
# PC/PMMA/GPPS/MS/PETG

## Sheet/Board Production Line

### PC/PMMA/GPPS/MS/PETG Sheet/Board:

Are good transparency, aging resistance, impact resistance, flaming retarding, stable physical properties, light weight, easy installation, can be directly bending, good hot forming performance, high sound insulation, etc.

Widely used in lighting part of the construction industry and the rain tent; A telephone booth, shelters, advertising signs, light boxes, crystal characters, display exhibition and sculpture, etc.;



Suitable for indoor door, window, partition screen of high-grade decorative materials; Suitable for noise barrier in noisy environments; Used for breeding of agriculture and the vegetables greenhouse; Size of workshop, warehouse, market and greenhouse roof, etc.

### Main Technical Specification

Model	CHD130/60	CHD120
Material	PC/PMMA/GPPS/MS/PETG	PC/PMMA/GPPS/MS/PETG
Width	2100mm	1220mm
Thickness	1-15mm	1-15mm
Capacity	600-800kg/h	500-600kg/h

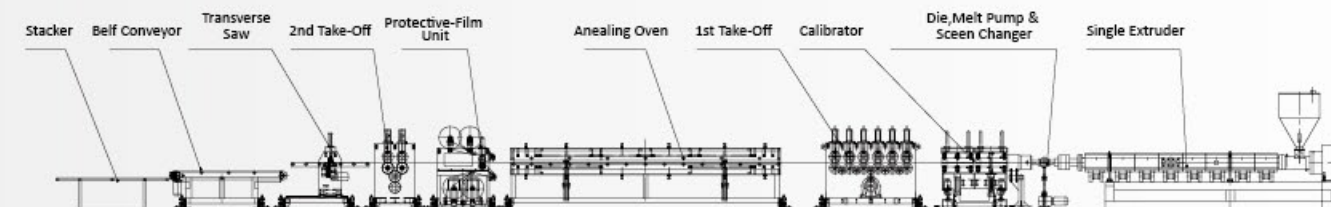


# PC/PP/PE

## Hollow Profile Production Line

### PC Hollow:

Used for general office, hall, shopping malls, sports venues, the daylighting of the public facilities, railway stations, parking lot, a pavilion, the canopy of corridor lounge, daylighting, agricultural cultivation, vegetable greenhouses, public facilities swimming pool awning, family health home shower room, highway and city highway noise barriers, etc.

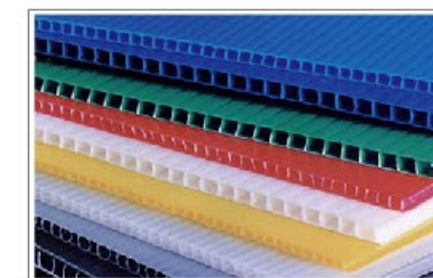
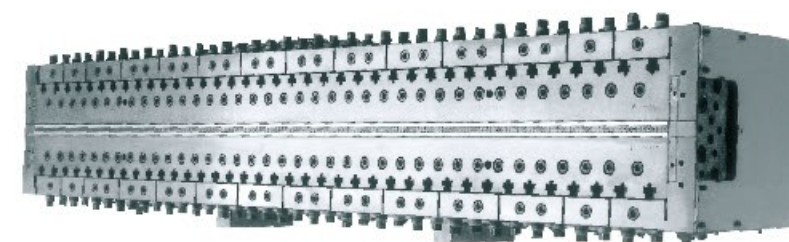


### PP/PE Hollow:

Are good environmental performance and secondary processing performance, can be processed into turnover box, packing boxes, etc. Instead of cartons for packing, light weight, high strength, moisture-proof, anti-corrosion, etc.

### Main Technical Specification

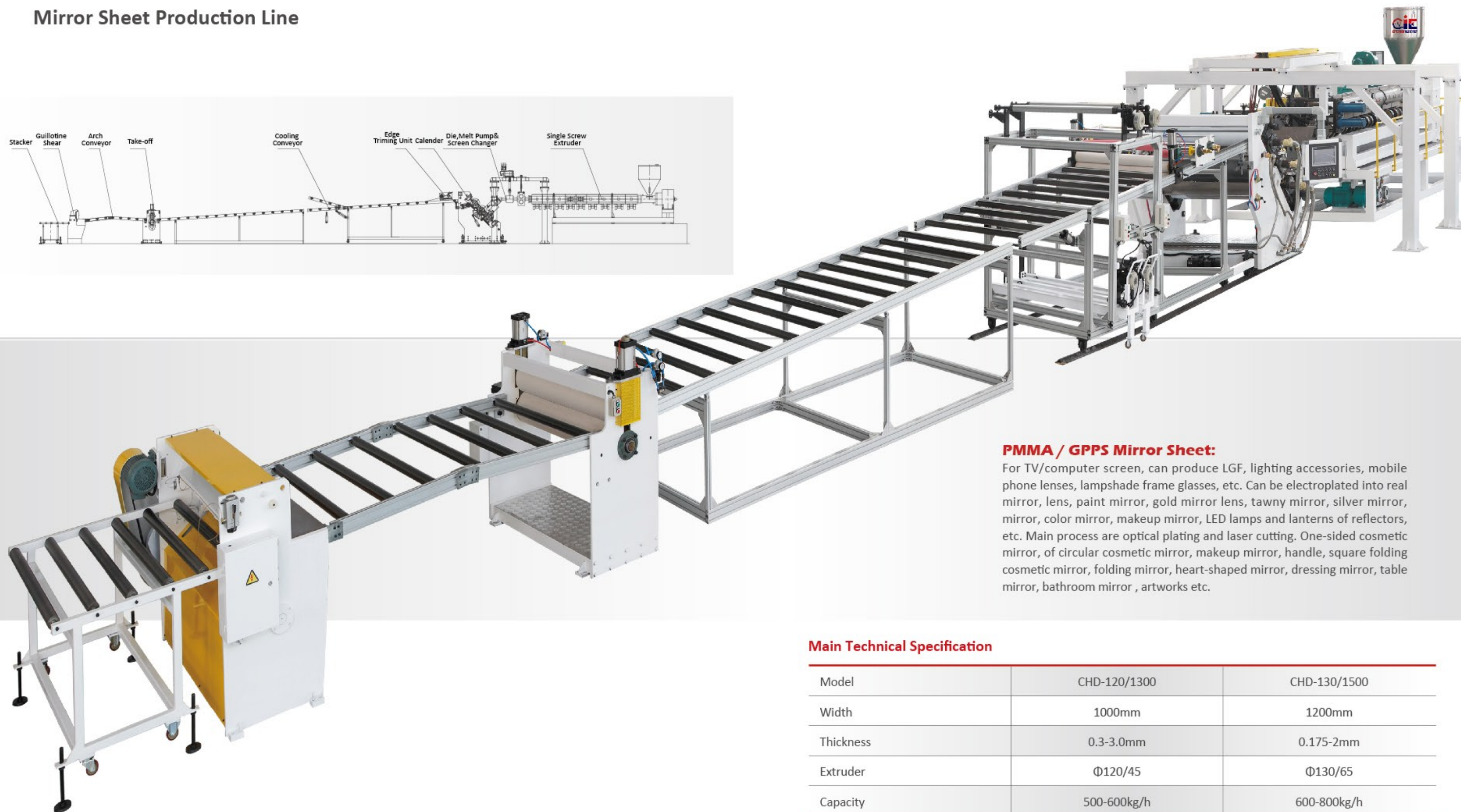
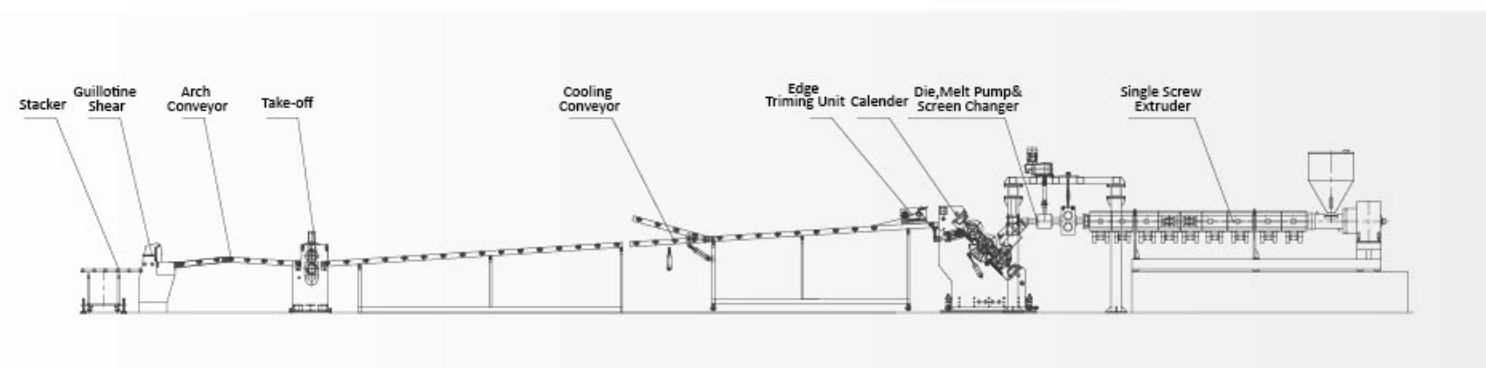
Extruder	Φ120	Φ100	Φ120,Φ45	Φ100,Φ45
Width	2100mm	1220mm	2100mm	1300mm
Thickness	2-8mm	2-8mm	4-40mm	4-40mm
Capacity	400-500kg/h	300-400kg/h	550kg/h	400-500kg/h





# PMMA/GPPS

## Mirror Sheet Production Line



### PMMA / GPPS Mirror Sheet:

For TV/computer screen, can produce LGF, lighting accessories, mobile phone lenses, lampshade frame glasses, etc. Can be electroplated into real mirror, lens, paint mirror, gold mirror lens, tawny mirror, silver mirror, mirror, color mirror, makeup mirror, LED lamps and lanterns of reflectors, etc. Main process are optical plating and laser cutting. One-sided cosmetic mirror, of circular cosmetic mirror, makeup mirror, handle, square folding cosmetic mirror, folding mirror, heart-shaped mirror, dressing mirror, table mirror, bathroom mirror, artworks etc.

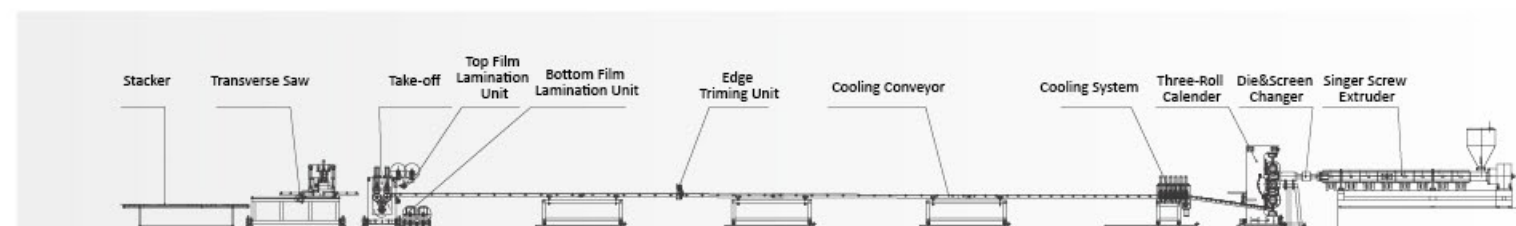
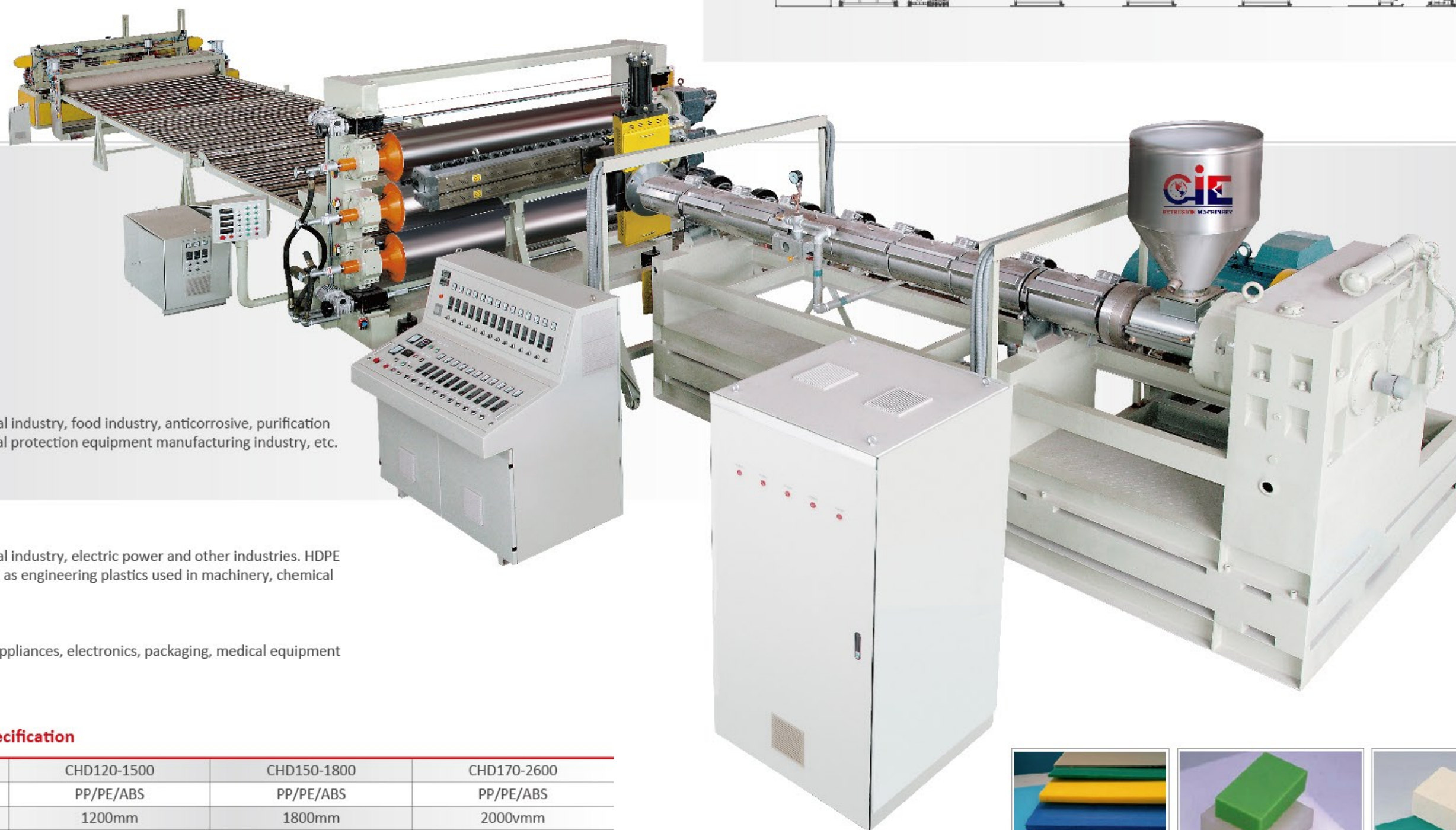
### Main Technical Specification

Model	CHD-120/1300	CHD-130/1500
Width	1000mm	1200mm
Thickness	0.3-3.0mm	0.175-2mm
Extruder	Φ120/45	Φ130/65
Capacity	500-600kg/h	600-800kg/h



# PP/PE/ABS

## Thick Board Production Line



### PP Board:

Widely used in chemical industry, food industry, anticorrosive, purification industry, environmental protection equipment manufacturing industry, etc.

### PE Board:

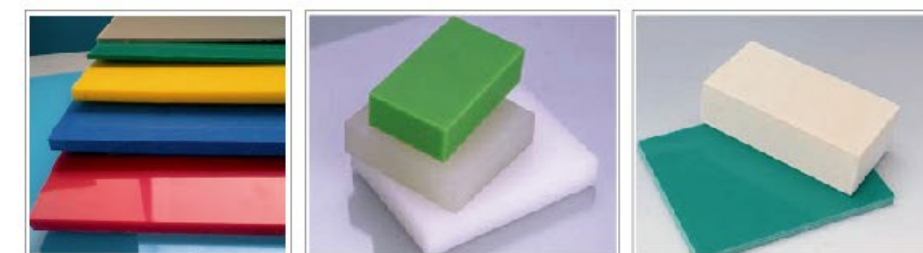
Widely used in chemical industry, electric power and other industries. HDPE board can also be used as engineering plastics used in machinery, chemical equipment, etc.

### ABS Board:

Widely used in home appliances, electronics, packaging, medical equipment and other fields.

### Main Technical Specification

Model	CHD120-1500	CHD150-1800	CHD170-2600
Material	PP/PE/ABS	PP/PE/ABS	PP/PE/ABS
Width	1200mm	1800mm	2000vmm
Thickness	3-30mm	3-30mm	3-30mm
Extruder	Φ120/35	Φ150/35	Φ170/35
Capacity	500-600kg/h	600-800kg/h	800kg/h



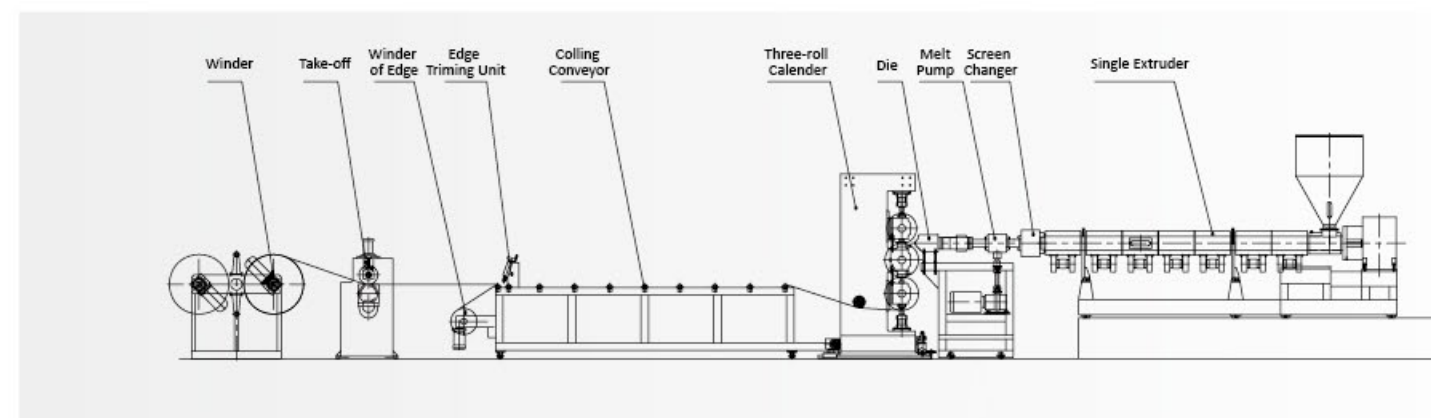


## PP/PS

### Thermoforming Sheet Production Line

## PP

### Stationery/Print Sheet Production Line



#### PP/PS Thermoforming Sheet Extrusion line:

Widely used for food packaging and electrical products packaging; As the packaging requirements are different, We have also successfully developed, designed and made the three/five/seven layers co-extrusion production lines that can meet the sheet requirements as much as possible; also the capacity range from 100-1200 kg/h is for a variety of choices.

#### PP Stationery/Print Sheet Extrusion line:

For file bag, file folder, clear bag, hand-bag, printing sheet, etc. the surface can be designed different type such as mirror surface, Mat surface, sand surface, inclined strip, etc.

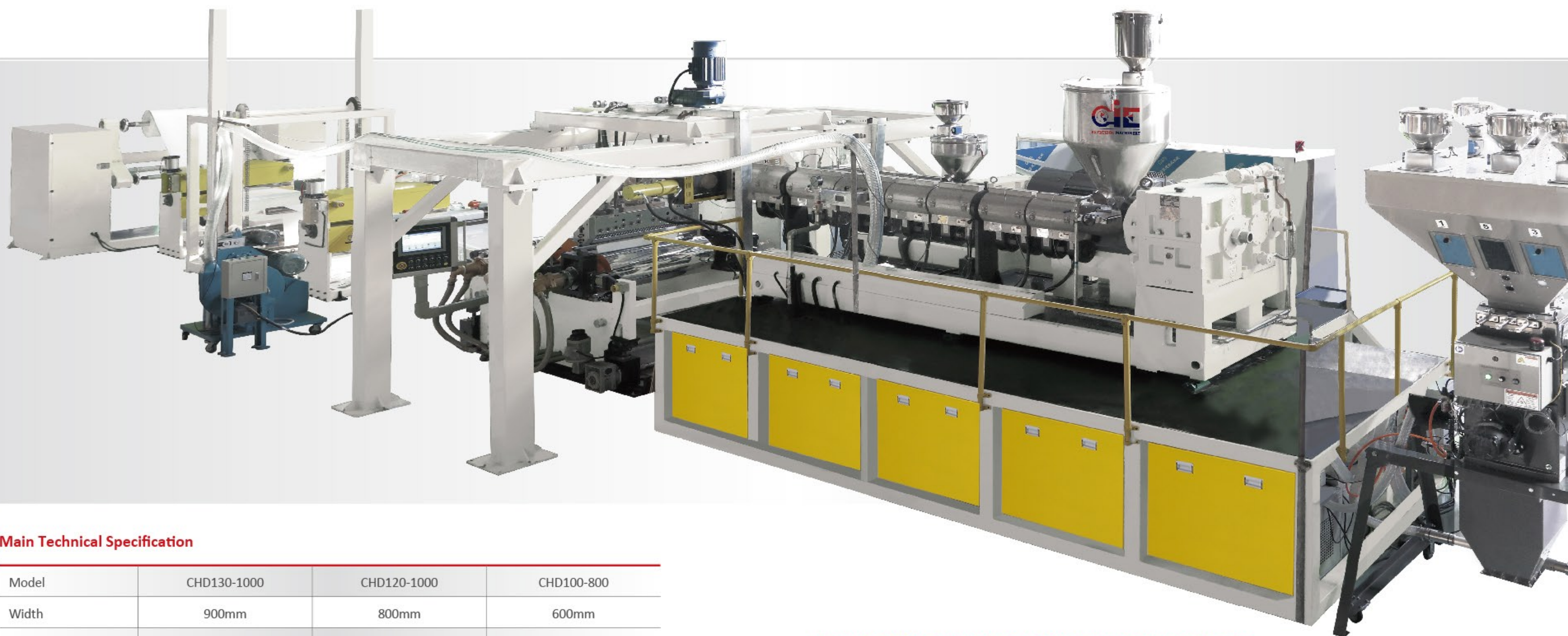
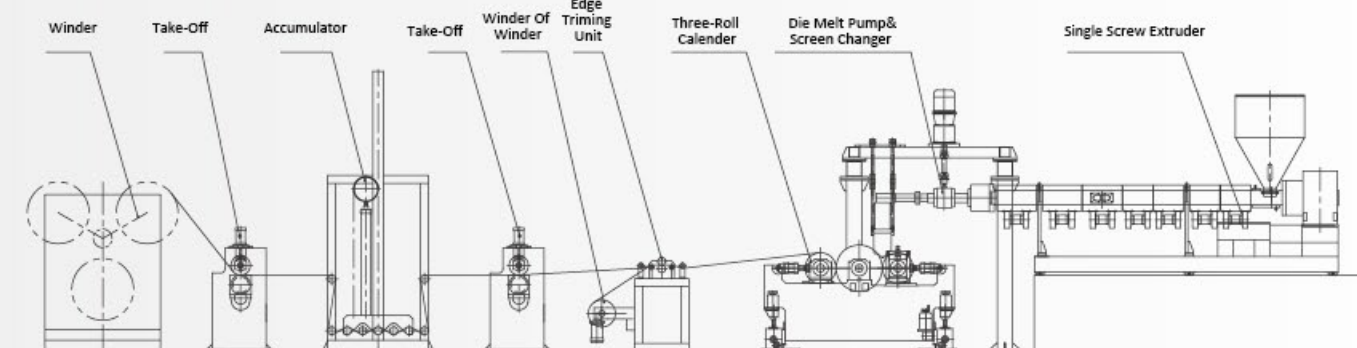
#### Main Technical Specification

Species	Thermoforming Sheet, Stationery/print sheet
Thickness (mm)	0.15-2.0
Width (mm)	600-1500
Material	PP、PS、HIPS
Output (kg/h)	100-1200kg/h



# PP/PE/PS/EVA/EVOH

## Multi-Layer Barrier Sheet Production Line



### Main Technical Specification

Model	CHD130-1000	CHD120-1000	CHD100-800
Width	900mm	800mm	600mm
Thickness	0.2-2mm	0.2-2mm	0.15-0.8mm
Capacity	600-800kg/h	600-700kg/h	300-400kg/h

### PP / PE / PS / EVA / EVOH Multi-Layer Barrier Sheet:

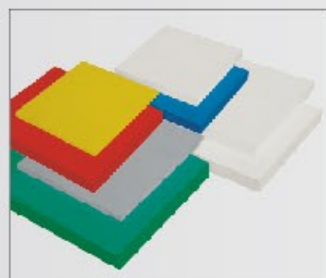
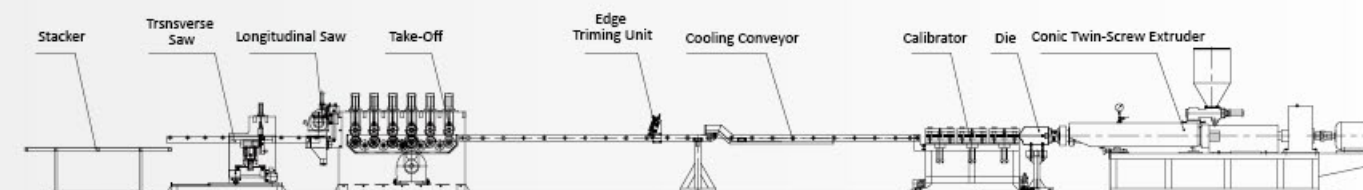
Mainly used for the food packaging to keep fresh such as the packaging of Jelly, Yogurt, top-grade food, fast food rice ,etc. as well as for Pharmaceutical packaging, Cosmetics packaging, etc.



## WPC/PVC Crust Foam Production Line

## PVC Crust Foam Co-Extrusion Line

## PVC Free Foam Production Line



### WPC / PVC Crust Foam:

With sound insulation, heat insulation, flame retardant, moistureproof, mouldproof, moth-proofing, not bibulous, good shockproof effect. the color can be permanent, not fading. Can be like wood for nail, planing, drilling, sawing, etc.

PVC Co-extrusion crust foam board by the latest technology, color and hardness of surface can be adjusted according to the requirements, the middle layer can be all recycle material for saving much cost.

PVC crust foam board surface is smooth and the hardness is very high, it is difficult to be scratched, widely used in office furniture, kitchen cabinets, bathroom cabinets and condole roof decoration, building, etc., is a good replacements of wood, aluminum board, composite board, MDF board, plywood board, etc.

### PVC Free Foam:

Mainly used for advertisements decoration, screen printing, computer lettering, advertising signs, exhibition board, sign board, electronic instrument packaging, etc.



# PVC

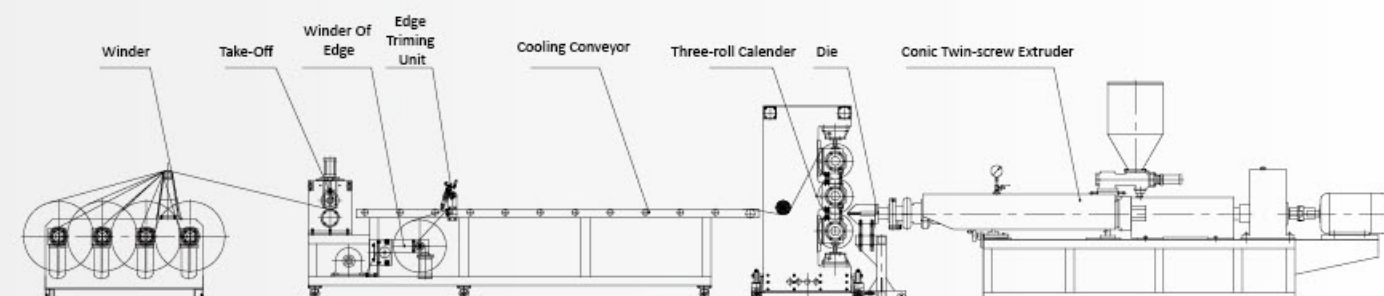
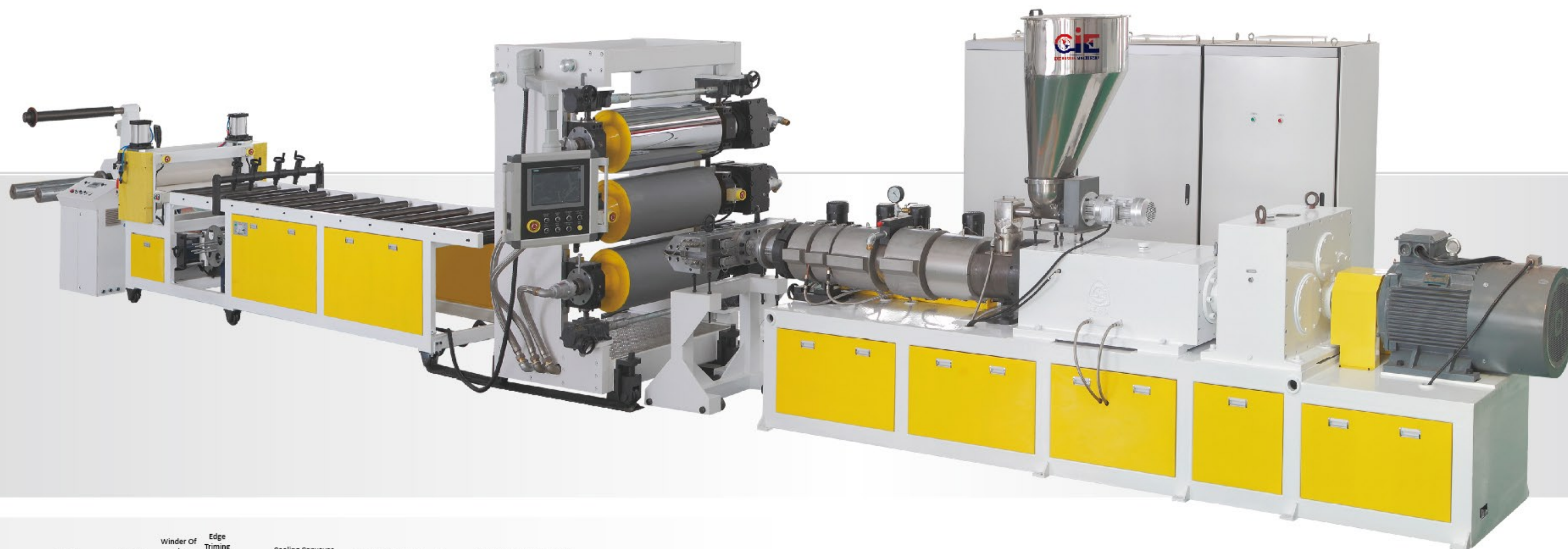
## Sheet Production Line

### PVC Sheet:

Main applications: Furniture & office decoration, edge banding, thermoforming & packaging, external wall decoration, stationery, etc.

Main characteristics: Good plasticizing effects, high strength, can be transparent or color. High production efficiency, can be instead of PVC calendering sheet.

Sheet width: 630-1000mm



### Main Technical Specification

Model	CHD80
Width	600-1200mm
Thickness	0.3-2mm
Capacity	300-500kg/h

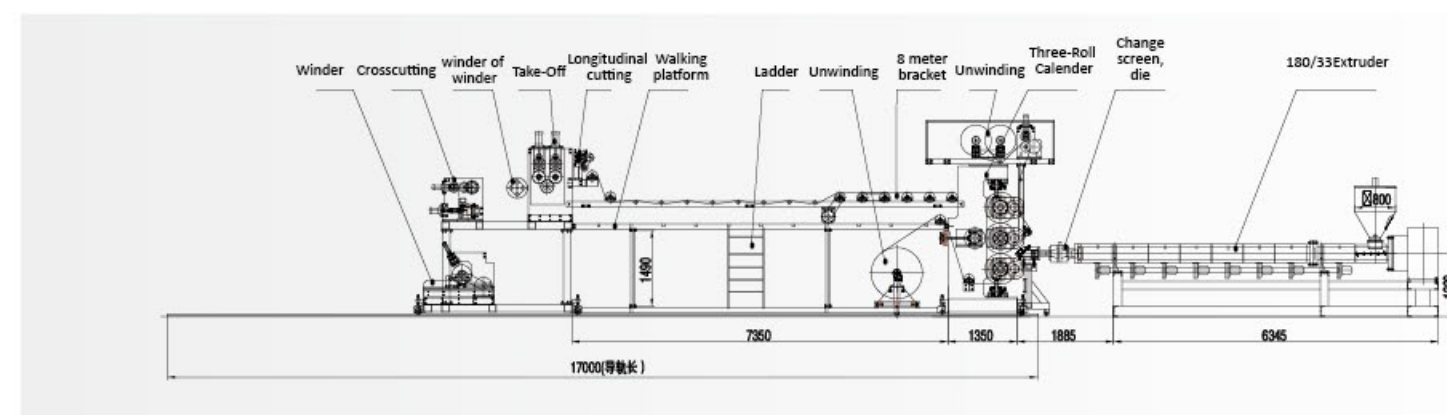


# PE/TPO/EVA/PVC

## Waterproof /Water drainage / Geomembrane Sheet Production Line



Widely used in cars, trains, airports, hotels and other public places, as well as home decoration, the tunnel drainage, foundation moisture-proof, leak-proof, landfill engineering field, Construction site, swimming pool, reservoir, etc. The thickness range: 1-8 mm, width less than 8000 mm



### Main Technical Specification

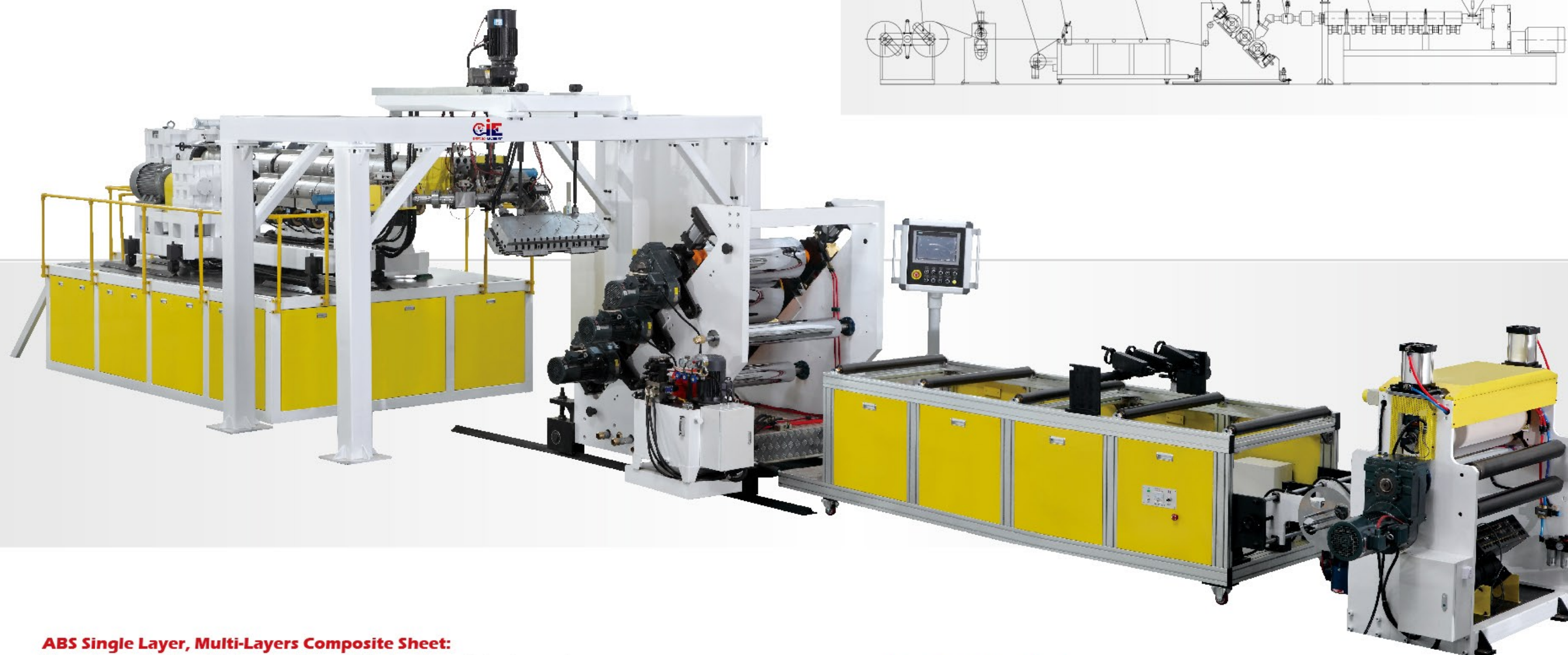
Model	TPO/EVA/PVC	PE
Width	1000-5000mm	1000-8000mm
Thickness	1-3mm	1-3mm
Capacity	500-1000kg/h	500-1000kg/h





# ABS

## Single Layer, Multi-Layers Composite Sheet Production Line



### ABS Single Layer, Multi-Layers Composite Sheet:

It has such characteristics as high impact-resistance, high heat-resistance, high surface roughness, easy to thermoform, etc.

Applications: such as machinery, electrical, sanitary ware, packing, medical treatment apparatus, carriage, outer shell, toy, dining plate, etc.

Production scope: single layer, double layer, three layer, five layer

Thickness: 0.6~10mm width: 3000mm(under)

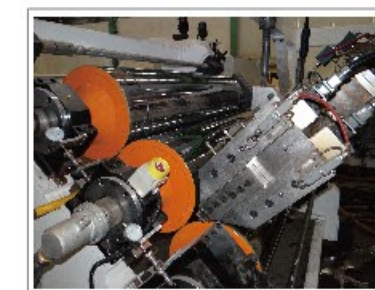
### Main Technical Specification

Model	CHD120
Material	ABS
Width	600-1200mm
Thickness	1-6mm
Extruder	Φ120/35
Capacity	600-800kg/h



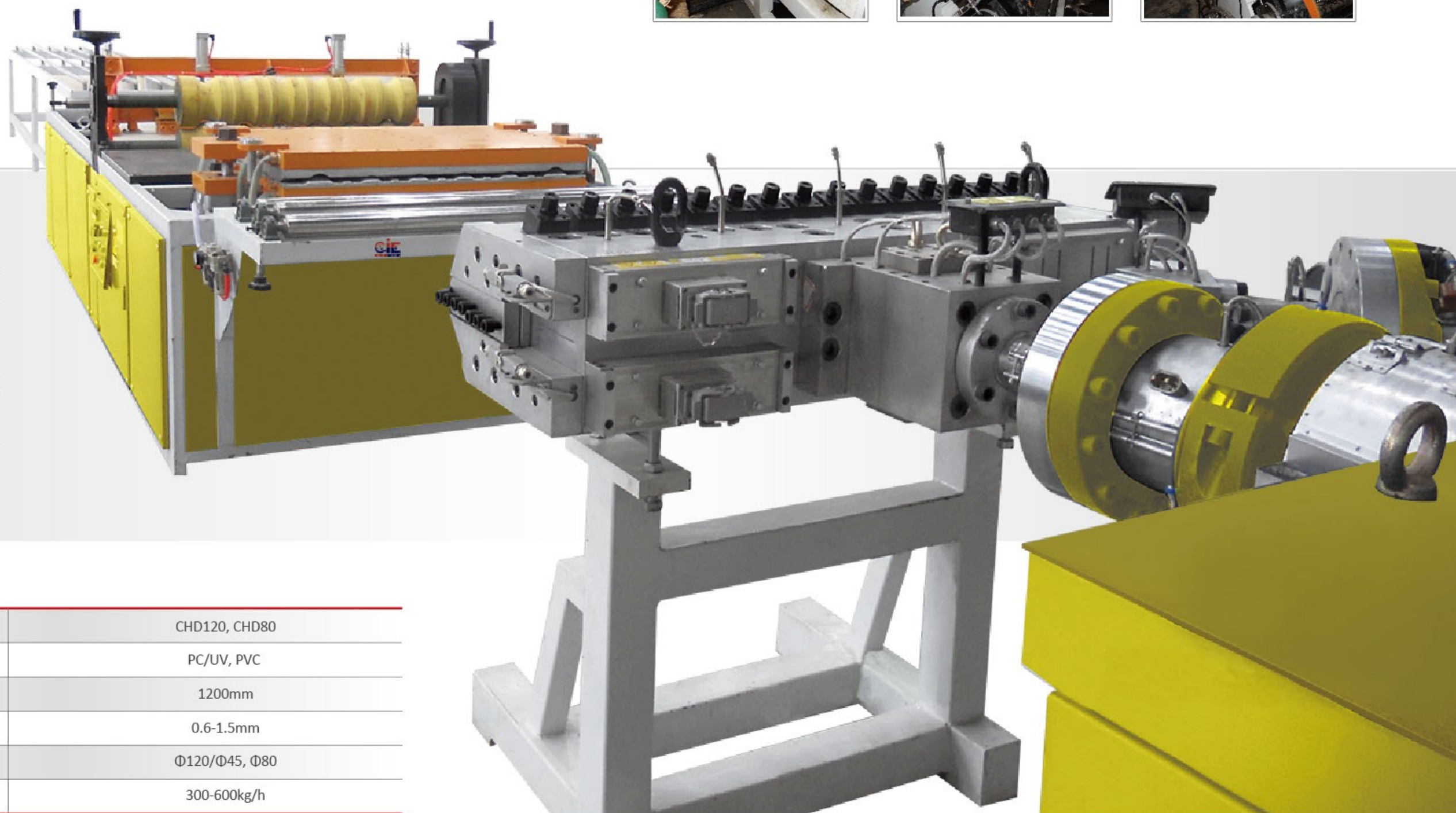
# PC/PVC

## Corrugated Board Production Line



### PC (UV-PC) corrugated sheet:

with the features of high impact and good transparency, is being widely used in the roof for in-door pathway of the stadium, swimming pool, skiing field. It has a very wide market prospect. UV-PC corrugated sheet is made by PC and UV materials, the product of UV-PC corrugated sheet has the features of good stability, not easy to aging and good in absorbing the ultraviolet.



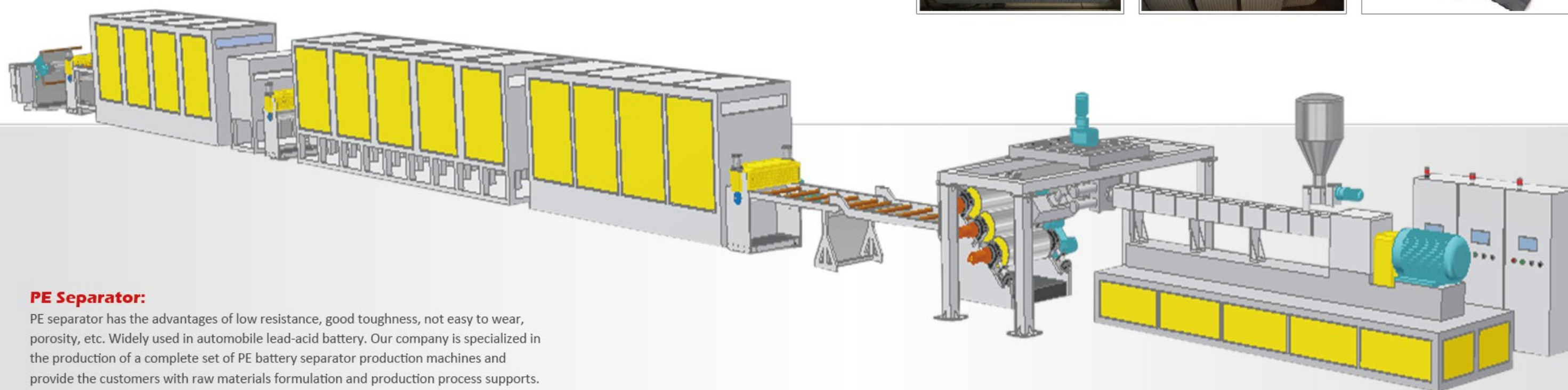
### Main Technical Specification

Model	CHD120, CHD80
Material	PC/UV, PVC
Width	1200mm
Thickness	0.6-1.5mm
Extruder	Φ120/Φ45, Φ80
Capacity	300-600kg/h



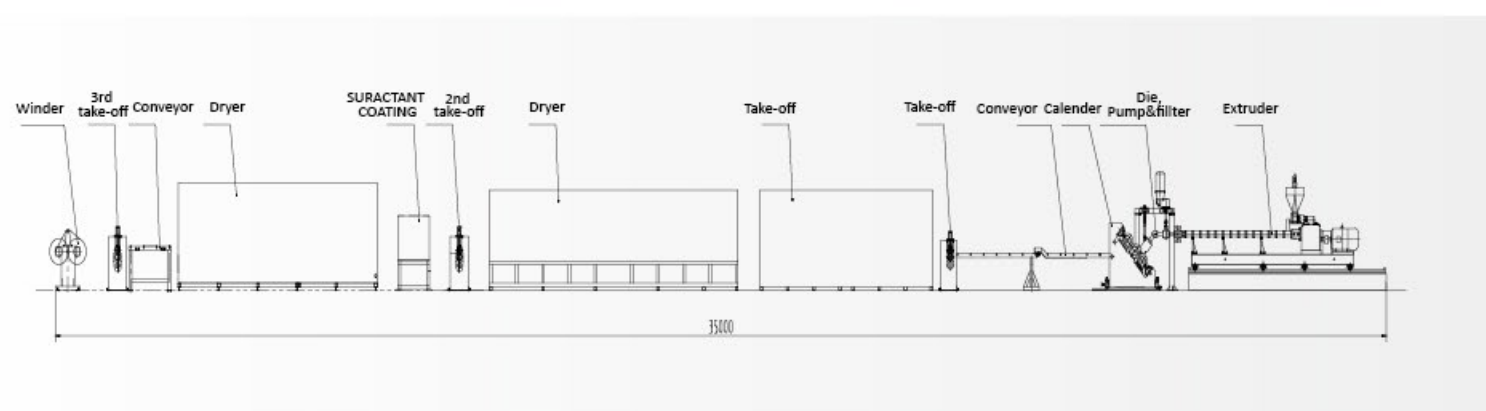
# PE

## Separator Production Line



### PE Separator:

PE separator has the advantages of low resistance, good toughness, not easy to wear, porosity, etc. Widely used in automobile lead-acid battery. Our company is specialized in the production of a complete set of PE battery separator production machines and provide the customers with raw materials formulation and production process supports.



### Main Technical Specification

Material	UHMWPE, SiO <sub>2</sub> , Oil, etc.
Application	Car battery, truck battery, etc.
Thickness (mm)	0.3-1.2mm
Width(mm)	800-1200mm
Capacity	400-500kg/h



## Screw & Barrel

For Single Screw Extruder



### Material

High quality alloy  
 1) 38 CrMoAlA (JIS SACM645)  
 2) 42 CrMo (JIS SCM440)  
 3) 9 Cr18MoV  
 4) CW6Mo5Cr4V2  
 5) SKD61



### Heat treatment

Nitride treatment  
 Hard chrome plating  
 High frequency quenching  
 Spraying bimetallic alloy for corrosion resistance & abrasive resistance  
 Vacuum quenching

## Conical/Parallel

Twin-Screw & Barrel

### Material

High quality alloy  
 1) 38 CrMoAlA (JIS SACM645)  
 2) 42 CrMo (JIS SCM440)  
 3) 9 Cr18MoV  
 4) CW6Mo5Cr4V2

### Heat treatment

Nitride treatment  
 Hard chrome plating  
 Spraying bimetallic alloy for corrosion resistance & abrasive resistance

### Technical index

Nitride thickness: 0.50mm-0.80mm  
 Nitride hardness: 900-1000HV  
 Nitride fragility: First class  
 Surface roughness: Ra0.4  
 Screw straightness: 0.015mm  
 Chrome layer hardness after nitride:  $\geq 950\text{Hv}$   
 chrome layer thickness: 0.025-0.085mm



### Surface treatment

Nitride treatment  
 Spraying bimetallic alloy for corrosion resistance & abrasive resistance



## High Efficient

### Single Screw Extruder



### PVC free foam Die



Applicable Products Thickness Range: 1-8mm  
 Advantages: Uniform flow distribution, good mobility, easy to be adjusted and smooth products surface.  
 Main application: Ads board, decoration board, etc.

### PVC/WPC double-channel Die



Applicable products thickness range: 8-40mm  
 Advantages: Big products span, improve products core hardness and strength by a large margin.  
 Main Application: Entire door panel, furniture board, building templates, etc.

## Plastic

### Auxiliary Machinery



Twin-screw Extruder



Take-Off



Roller



Calender



Edge trimming Unit



Winder