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AUTOMOTIVE  
NEW PLASTIC  
MATERIAL  
JWELL MACHINERY

AUTOMOTIVE  
NEW PLASTIC MATERIAL  
EXTRUSION LINE  
**汽车新材料生产线**



# AUTOMOTIVE NEW PLASTIC MATERIAL

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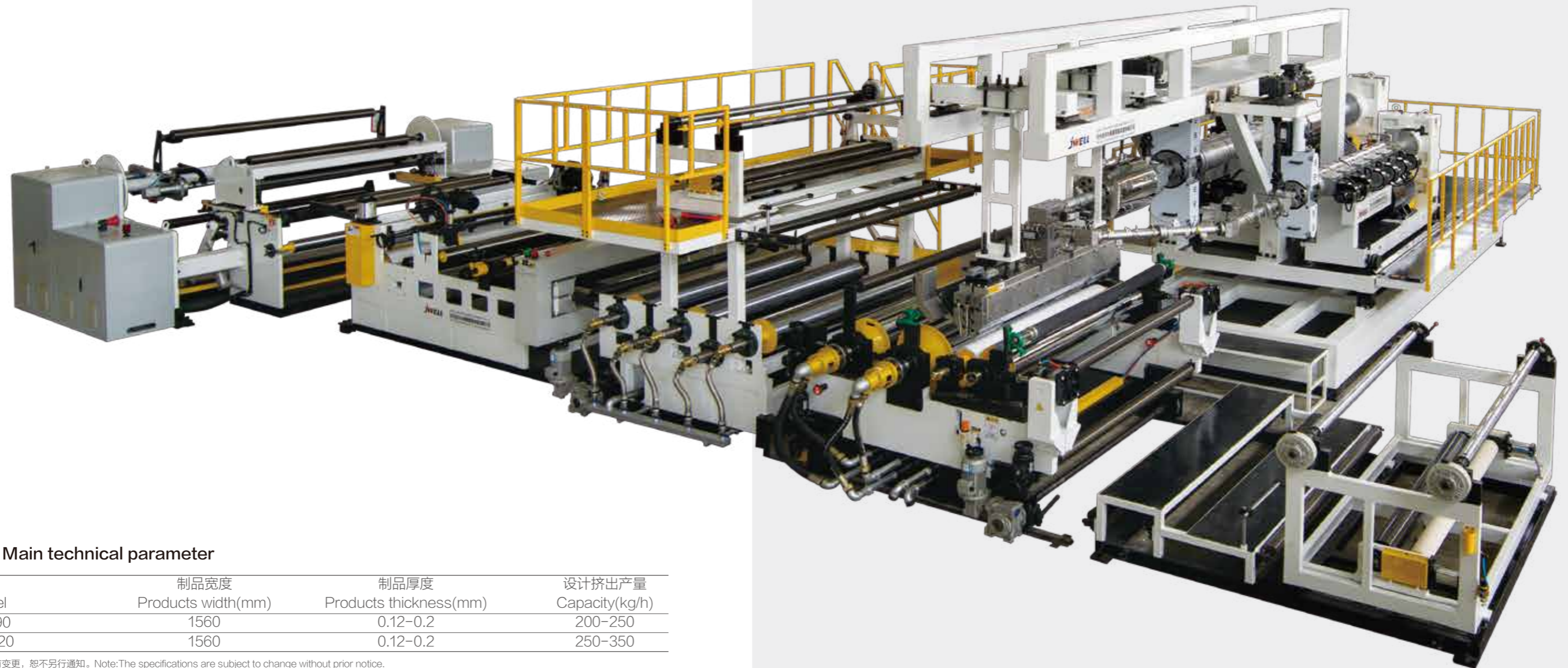


## TPU汽车漆面保护膜生产线

### TPU Automotive Protective Film Extrusion Line

TPU汽车漆面保护膜（俗称隐形车衣）：是由热塑性聚氨酯（TPU）薄膜，通过涂布工艺实现漆面保护膜的生产，是一种高性能薄膜，具有：防刮蹭、自修复，强韧坚固，抗油污、抗氧化，耐黄变等多种功能，产品广泛应用于各类中高端汽车漆面防护。

TPU automobile paint protective film(know as invisible car clothing): thermoplastic polyurethane (TPU) film, through coating process to achieve the production of paint protective film, a high performance film, with anti-scratch, self-repairing, tough and strong, anti-oil, antioxidant, anti-yellowing and other functions, the product widely apply to all kinds of middle and high-end automobile paint protect.



#### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width(mm)	制品厚度 Products thickness(mm)	设计挤出产量 Capacity(kg/h)
JWS90	1560	0.12-0.2	200-250
JWS120	1560	0.12-0.2	250-350

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.



## PVB/SGP/EVA/POE胶膜生产线

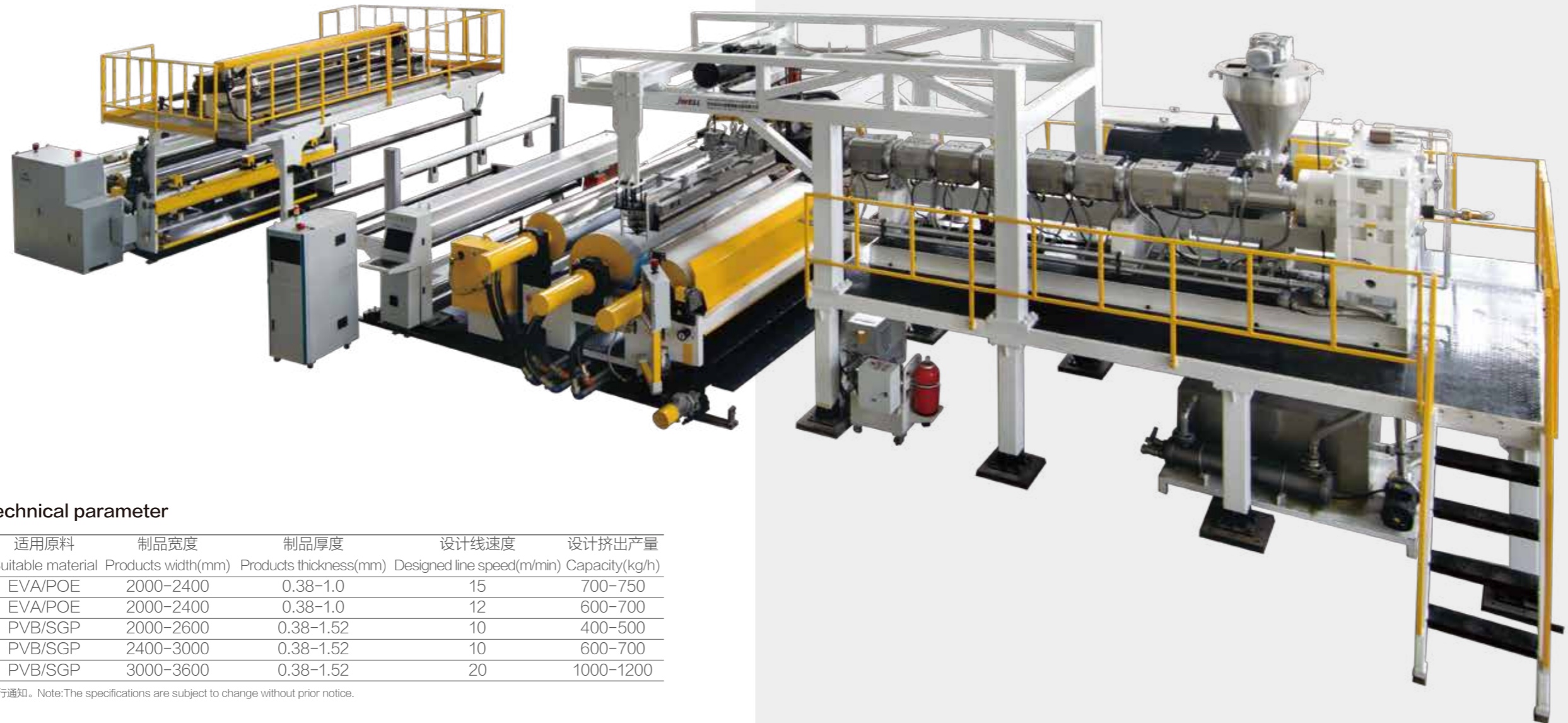
### PVB/SGP/EVA/POE Film Extrusion Line

EVA/POE 胶膜：用于太阳能光伏电站、建筑物玻璃幕墙、汽车玻璃、功能性棚膜、包装膜、热熔胶等各种行业。

EVA/POE film is used in solar photovoltaic power station, building glass curtain wall, automobile glass, functional shed film, packaging film, hot melt adhesive and other industries.

PVB/SGP胶膜：广泛应用于建筑夹层玻璃，汽车夹层玻璃，防弹玻璃，隔音玻璃等。具有很好的安全性，防止玻璃由于外力作用下破碎而碎片溅起伤人；具有隔音性，防紫外线，可以做成彩色或高透明的薄膜。

PVB/SGP film: is widely used in building sandwich glass, car sandwich glass, bulletproof glass, soundproof glass etc. With good safety function and prevent glass from breaking due to the effect of external force and shards spatter injury; With sound insulation, anti - ultraviolet function, can be made of color or high transparent film.



#### 主要技术参数 Main technical parameter

机型 Model	适用原料 Suitable material	制品宽度 Products width(mm)	制品厚度 Products thickness(mm)	设计线速度 Designed line speed(m/min)	设计挤出产量 Capacity(kg/h)
JWS120/150/120-2400	EVA/POE	2000-2400	0.38-1.0	15	700-750
JWS180-2400	EVA/POE	2000-2400	0.38-1.0	12	600-700
JWS150	PVB/SGP	2000-2600	0.38-1.52	10	400-500
JWE95-JWE65	PVB/SGP	2400-3000	0.38-1.52	10	600-700
JWE135-JWE95	PVB/SGP	3000-3600	0.38-1.52	20	1000-1200

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## PP蜂窝板生产线

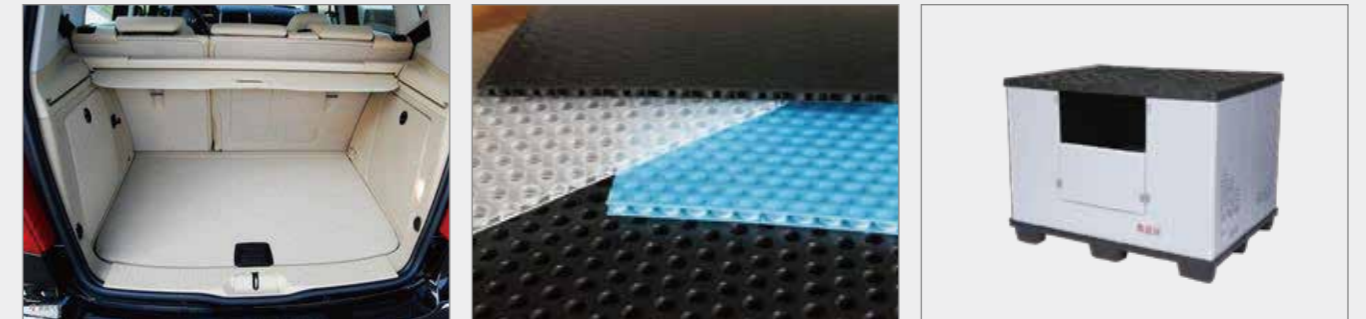
### PP Honeycomb Board Extrusion Line

产品主要用途/Main application:

- 1.应用于乘用车的行李箱盖板、行李箱隔板、行李箱地毯基板、侧围装饰板、顶棚等内饰部位；  
Used for car trunk cover board, trunk clapboard, trunk carpet substrate, side wall decoration board, ceiling etc. interior place.
- 2.应用于制作各种高强度包装箱。  
Used for manufacturing different kinds of high strength packing box.

PP蜂窝板通过挤出法一次成型的三层夹心板材，两面为较薄的面层，中间为蜂窝状结构；根据蜂窝的结构可以分为单层板、双层板。  
PP蜂窝板也可一次成型双面贴布、覆皮，具有轻质高刚、无毒环保减震耐寒、隔音保温、防潮隔热等优点。

PP honeycomb board through extrusion method made three layers sandwich board of one time forming, two sides is thin surface, middle is honeycomb structure; According to honeycomb structure can divide into single layer, double layer board.  
PP honeycomb board also can one time forming, coat fabric at two sides, leather, with light weight and high strength, non-toxic, environment, shake absorption and cold-resistant, soundproof& heat preservation, moistureproof& heat insulation etc. advantage.



#### 主要技术参数 Main technical parameter

机型 Model	适用原料 Suitable material	制品宽度 Products width(mm)	制品厚度 Products thickness(mm)	设计挤出产量 Capacity(kg/h)
JWS75/75/75	PP	1200-1600	2-12	350-450
JWS100/100/100	PP	1200-2000	2-20	600-700

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.

## EVA/POE/TPO汽车隔音垫生产线

EVA/POE/TPO Automotive Soundproof Sheet Extrusion line

汽车隔音垫（阻尼止震垫）是采用EVA、TPO、PVC等原料，加高填充无机物制成的高密度片材。使用时贴在钣金上，可以从源头制止噪音的产生的。并隔绝金属对声音的传导。主要应用于汽车的车身机盖、车门、后备舱、车顶、翼子板等位置，还能起到加强、隔热效果。厚度0.6-8mm，宽度1000mm-3000mm。

Car Sound Insulation Pad(Vibration Damping Pad) is made of EVA, TPO, PVC and high filling inorganic. It is placed directly on the metal part, which eliminates the noise from the source and avoid the noise transmission in the metal. It is mainly used in car cover, door, luggage room, top part, fender part, which also help to improve the strength and heat insulation. Regular thickness is from 0.6 to 8mm and width from 1000mm to 3000mm.

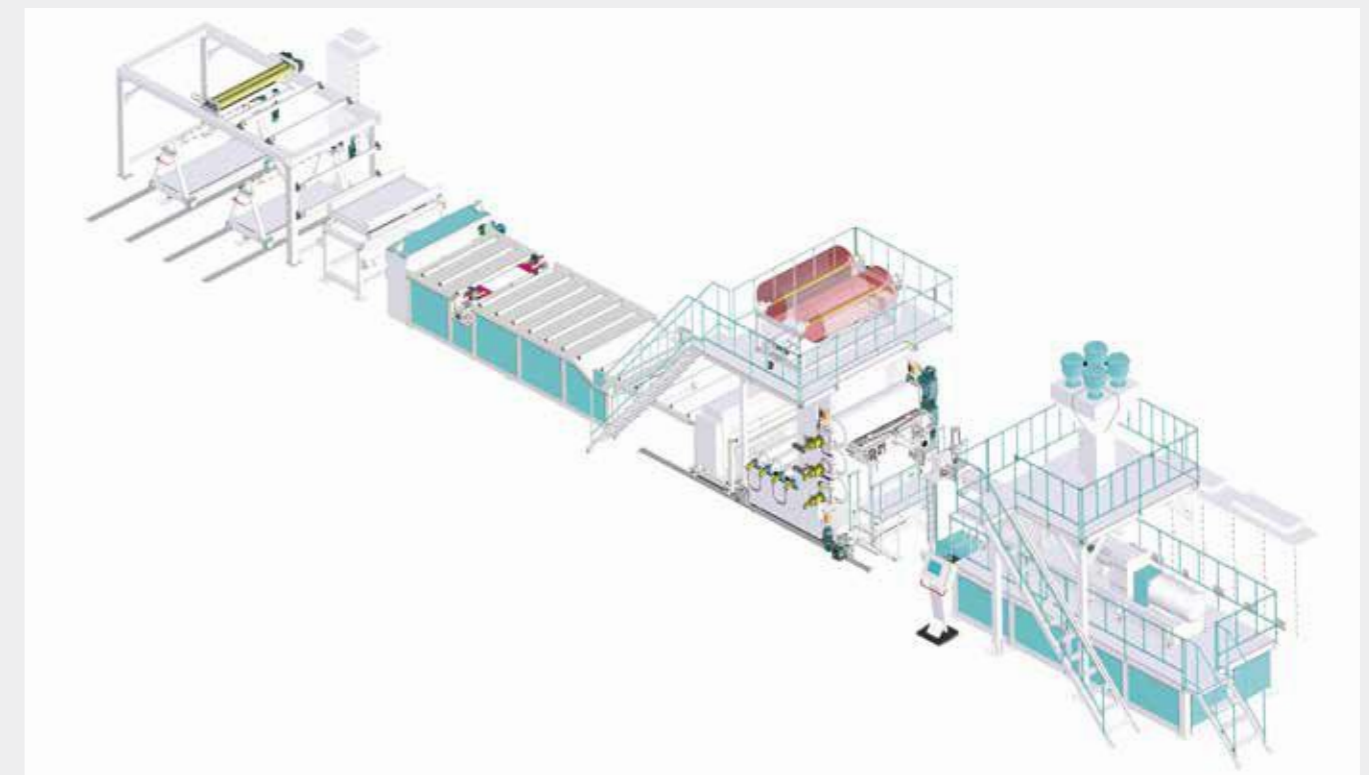


## TPO/TPU合成革生产线

TPO/TPU Composite Leather Extrusion Line

聚烯烃热塑性弹性体（TPO）生产的合成革卷材（复合卷材），环保、耐磨、耐热，广泛应用于汽车内饰材料，包括仪表板蒙皮、内饰板蒙皮、车内地胶、尾箱垫、脚垫材料。合成革产品厚度规格0.2-3mm，宽度1000-2000mm。

Polyolefin thermoplastic elastomer(TPO) composit leather roll(coating roll) has the advantages of enviroment friendly and abrasion and heat resistance. It has been used widely in the field of car inner decoration, i.e. instrument board skin, inner decoration skin, in-car flooring, car rear tank flooring, foot pad material. Its regular thickness is 0.2-3mm with width 1000-2000mm.



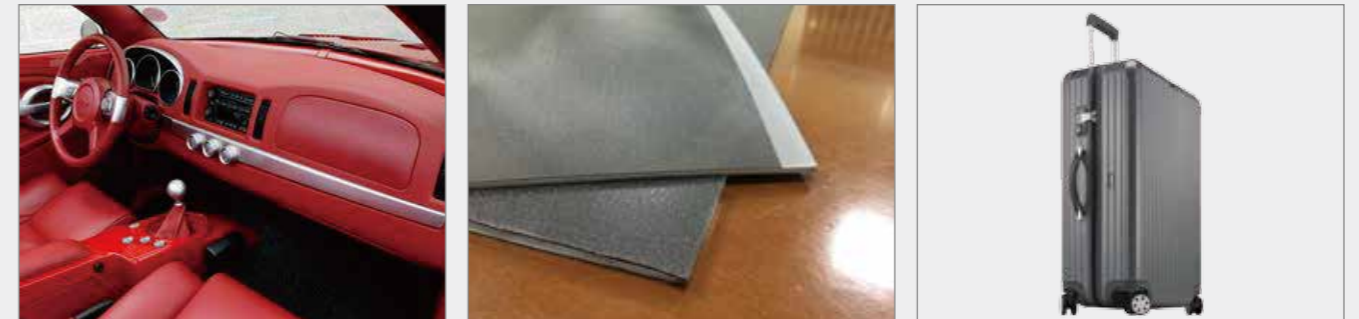


## TPU/ABS模内复合板材生产线

### TPU/ABS Laminate Sheet Extrusion Line

TPU/ABS复合板材是一种用于汽车仪表盘、内饰的环保新材料，采用模内复合工艺，区别于传统胶粘的TPU/ABS复合方式，制品不散发甲醛无异味，不会造成车内二次污染。厚度在1-8mm，宽度在1200-2000mm之间。

TPU/ABS composite plate is one new kind of environment friendly material used for car gauge panel and inner decoration. It adopts multi manifold procee to make TPU coat on ABS instead of glue coating so that the finished product does not release formaldehyde or creat inner air pollution. Plate thickness from 1mm to 8mm, width from 1200mm to 2000mm.



#### 主要技术参数 Main technical parameter

型号 Model	JW130/38+JW90/38-2400	JW120/38+JW80/38-1800
制品宽度 Products Width	2400mm	1800mm
制品厚度 Products Thickness	1.5-10mm	1.5-10mm
挤出机规格 Extruder Specification	Ø130/38; Ø90/38	Ø120/38; Ø80/38
最大挤出产量 Capacity (Max.)	700-800Kg/h	500-600Kg/h

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.

## LFT/FRP连续纤维增强复合材料生产线

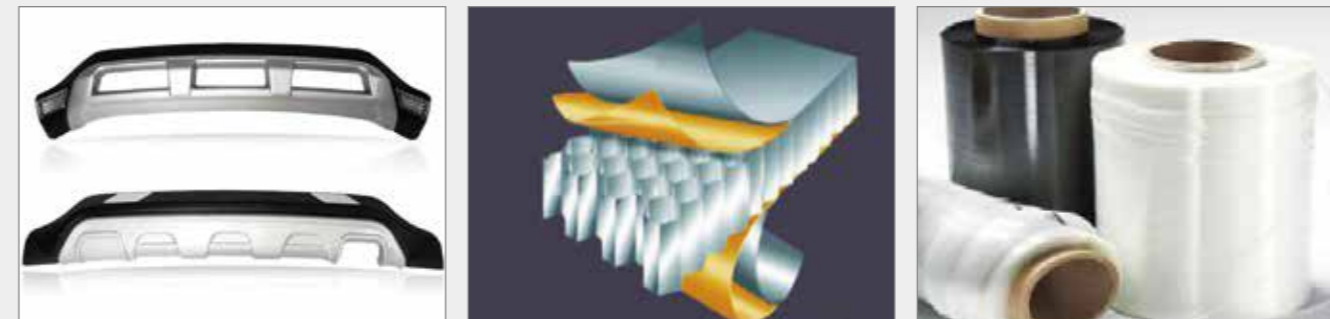
### LFT/FRP Continuous Fiber Reinforced Composite Extrusion Line

连续纤维增强复合材料是由增强纤维材料：玻璃纤维(GF)、碳纤维(CF)、芳纶纤维(AF)、超高分子量聚乙烯纤维(UHMW-PE)、玄武岩纤维(BF)等，通过特有工艺技术使得高强度的连续纤维与热塑性、热固性树脂相互间浸渍，再经过挤压、牵伸等工艺形成的高强度、高韧性、可回收的新型热塑性复合材料；常用的树脂基体有PET、ABS、PP、PC、PA、PPS、POM等环保型热塑性材料。

Continuous fiber reinforced composite material is made of reinforced fiber material: glass fiber(GF), carbon fiber(CF), aramid fiber (AF), ultra high molecular polyethylene fiber(UHMW-PE), basalt fiber(BF) by using special process technology to makes high strength continuous fiber and thermal plastic&thermosetting resin soak with each other. Then extrusion and drawing process are used to form the high strength, high toughness and recyclable thermalplastic resin composite material .commonly used plastic are PET, ABS, PP, PC, PA, PPS, POM and other environmentally friendly thermoplastic materials.

产品应用：军工、航天、船舶、汽车轻量化、电子、风电、建筑、医疗、体育休闲等领域。

Product application: Military, spaceflight, ships, automotive light weight, electronics, wind and electricity, construction, medical, sports and leisure and other fields.



#### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width(mm)	制品厚度 Products thickness(mm)	最大速度 Max.speed(m/min)
JWS-1800	1200-1600	0.1-0.8	12
JWS-3000	2000-2500	0.1-0.8	12

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.



## XPE、IXPE交联聚乙烯发泡卷材生产线

### XPE,IXPE Foaming Sheet Extrusion Line

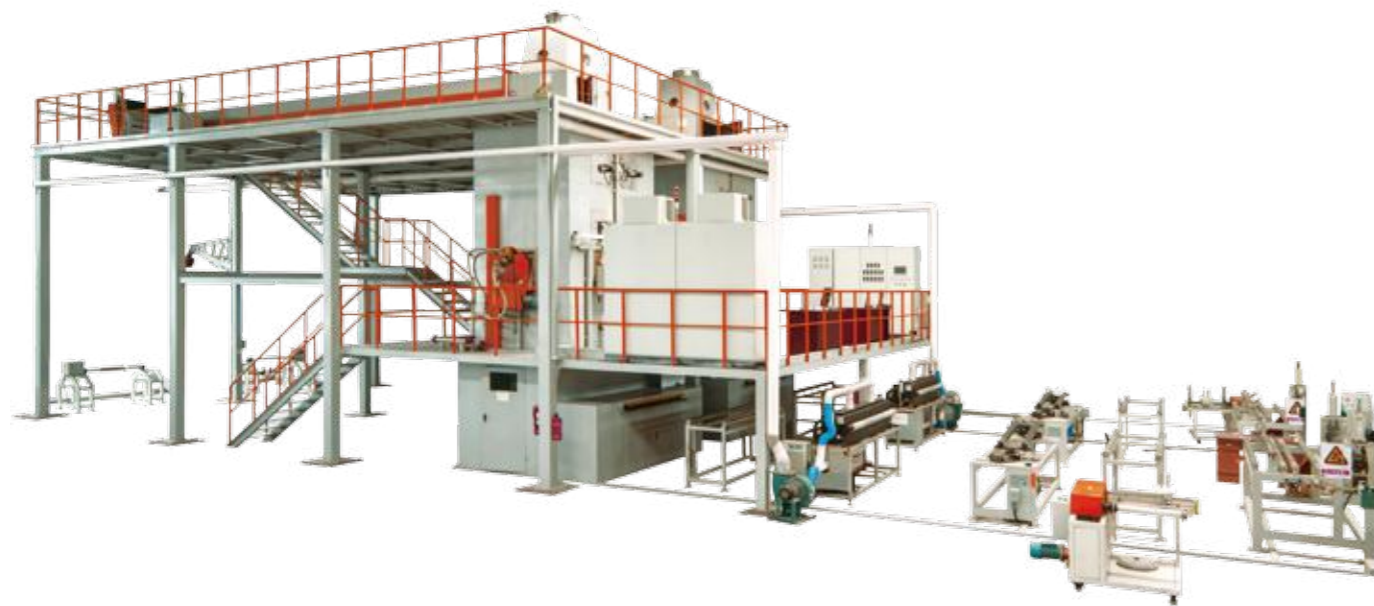
XPE泡沫材料的结构是独立闭孔材料，所以其同样具有隔热、保温功能；同时具有降低噪音及防水的特点，加之其本身具有耐热性、老化性、耐化学性尤其是符合国际环保要求等优良特点和制品本身是卷材及可贴合性，所以交联聚乙烯发泡卷材被广泛用于：中央空调工程、管道工程、大型容器、高档复合屋面（保温隔音）系统；箱包内衬、集成电路板等电器的导静电包装；高级运动鞋类中底；汽车缓冲绝热、装饰材料；水上漂浮材料；单层或双涂层胶带产品等领域。

辐射交联发泡片材（简称IXPE）此化学交联发泡片材表面更为平稳、细密、泡孔更为细小、均匀，各项物理性能都优于XPE，广泛应用于建筑、化工管道、热力工程、车船制造、包装行业、农业、渔业、体育及娱乐等行业。目前该制品在中国内地仍处于市场的成长期，发展的潜力相当大。

金纬公司生产制造的IXPE整厂设备主要包括：挤出造粒、挤出片材、发泡生产线三大部分。

The structure of XPE foam material is independent hole enclosure structure, it has the function of heat preservation and heat insulation. Meanwhile it features with noise reducing ,water proof. And it has the properties of heat resistance, anti aging and environmental protection and its coil shape and lamination features, so this product can be widely used in central air conditioning project, pipe project, large container, advanced composite layer; bag lining, packaging of integrated circuit board, sole of advanced sports shoes, cushion and heat insulation for car, decoration material, floating material and single or double coat adhesive tape and so on.

The surface of IXPE is smooth, close and vesicle is tiny and even. This product is widely used in building, chemical pipe, thermal projects,car and boat manufacture, package, agriculture, fishery, gym and musement fields.



#### 主要技术参数: Main technical specification

挤出机	Extruder	JWS90	JWS120	JWS150	JWS180
螺杆直径	Screw dia.(mm)	90	120	150	180
长径比	L/D	25: 1	25: 1	25: 1	25: 1
螺杆转速	Screw speed R/min	10~38	10~38	10~38	10~38
发泡倍率	Foaming times	5~35	5~35	5~35	5~35
冷却方式	Cooling method	水冷 Water cooling			
最大产量	Capacity (Max.) Kg/h	80	120	180	220
制品宽度	Products width(mm)	1100	1100~1300	1100~1400	1100~1600
制品厚度	Products thickness(mm)	2.0~6.0	2.0~6.0	3.0~12.0	3.0~12.0
装机功率	Total power(Kw)	200	315	400	450

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.





## TPO/IXPP复合卷材生产线

### TPO/IXPP Composite Sheet Extrusion Line

金纬机械研制开发的TPO+PP发泡基材复合生产线，采用特殊结构的TPO螺杆，塑化均匀，结合独特的复合工艺，复合的产品粘强度高，无拉伸变形，无甲醛，是金纬公司针对汽车内饰材料领域推出的又一个国内领先的复合生产线，此复合材料具有操作灵活，复合效率高，对TPO表层纹路一次处理完成等优点，与基材一次热压成型复合的制品，完全颠覆了以往的复合方式，制品被广泛应用于高档汽车的内饰件，顶棚，管路等等。

It is successfully developed by Jwell Machinery, adopts special structure of TPO screw, plasticizing evenly, unique composite processing method, composite products have high bonding strength, No tensile deformation, formaldehyde-free, it is Jwell's company according to car interior materials' s field recommends another domestic advanced composite sheet production line, this composite material has flexible operation, high efficiency of compositing, with the advantage to complete the treatment of the TPO surface layer' s lines once time, with the basic material to hot pressing and compositing together once time, it is total different from past composite method, this product is widely applied in high class inner decoration, ceiling, pipe of the car, and so on.

#### 主要技术参数 Main technical specification

机型 Model	JW100/33	JW120/33
复合厚度 Products thickness	0.5mm	0.5mm
制品宽度 Products width	1000mm	1500mm
最大挤出量 Max output capacity	120KG/h	220KG/h
主机功率 Main motor power	55KW	132KW

备注：以上规格参数如有变更，恕不另行通知。Note: The specifications are subject to change without prior notice.



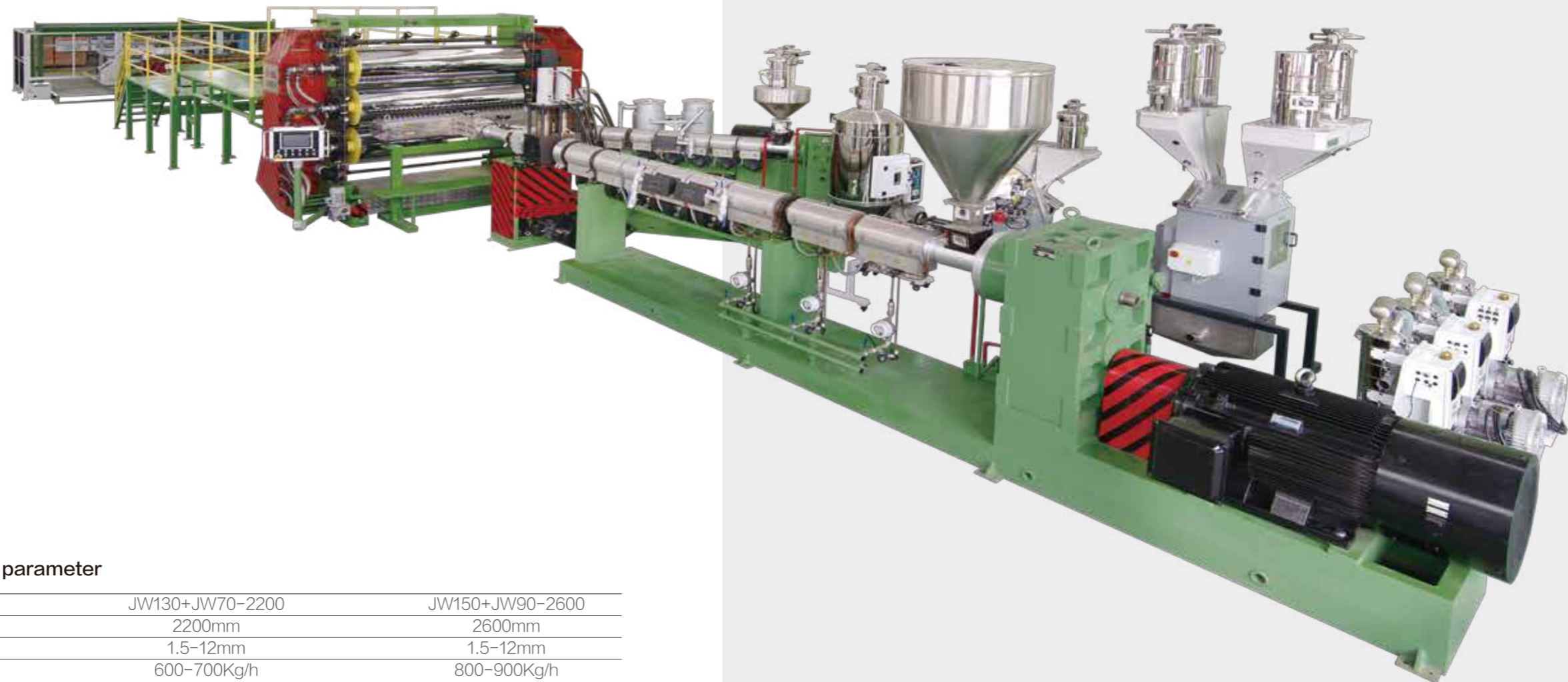


## HDPE热成型用板材生产线

### HDPE Thermoforming Plate Extrusion line

上海金纬提供的先进螺杆挤出系统，适用于熔指更低、强度更高的高分子量聚乙烯HMW-HDPE，板材主要用于汽车车厢、皮卡货箱内衬、汽车货箱顶盖及防雨棚等。在保证板材同等强度的情况下可减少30%以上的产品厚度，为客户大幅降低材料成本。产品厚度2-12mm，宽度2000-3000mm。

Shanghai Jwell supply advanced extrusion system, it is suitable to produce HMW-HDPE material which have low MFI and high-strength into plate, the plates are mainly used to produce auto carriage board, pick-up's box liner, cover of truck, anti-rain cover etc. The plate thickness can reduce more than 30% when it has same impact strength, it reduce the production cost for manufacturers. Plate thickness 2-12mm, width 2000-3000mm.



#### 主要技术参数 Main technical parameter

型号 Model	JW130+JW70-2200	JW150+JW90-2600
制品宽度 Products Width	2200mm	2600mm
制品厚度 Products Thickness	1.5-12mm	1.5-12mm
最大挤出产量 Capacity (Max.)	600-700Kg/h	800-900Kg/h

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.



## TPE/TPO/PVC地板革、汽车脚垫生产线

TPE/TPO/PVC Flooring Footmat Extrusion line



主要用于生产PVC地板革类产品。PVC地板革具有耐磨、耐腐、防滑、防渗、阻燃的性能，广泛用于机车、宾馆、酒店、娱乐厅、展馆、家庭。可以根据客户的要求，配置不同的设备组件，用于生产单层、多层复合产品；也可增加放卷装置，生产内增强产品或表面复合无纺布、PVC装饰膜等的产品。

Mainly used for producing the sort of PVC Floor leather rolls. PVC Floor leather has the performance of anti-friction, corrosion resistance, skidproof, impermeable and inflaming retarding, and is widely used on auto, hotel, amusement place, exhibition hall, house, etc. The structure of this production line is simple, and convenient to operation. According to customers' requirement, equipped with different components, used for producing single layer, multi-layer composite production and also can be equipped with unreeling unit, used for producing inner strengthen production or surface compound non-woven fabrics and PVC decoration film, etc.



### 主要技术参数 Main technical specification

型号 Type	双层 Double layers	三层 Three layers
制品宽度 Products width	1500-2000mm	2000-3000mm
挤出机规格 Extruder specification	SJZ65/132 - SJZ80/156	SJZ65/132 - SJZ80/156 - SJZ65/132
最大挤出量 Max output capacity	500-550kg/h	600-750kg/h
主电机功率 Main motor power	37kw/55kw	37kw/55kw/37kw

备注：以上规格参数如有变更，恕不另行通知。Note: The specifications are subject to change without prior notice.



## PP木粉/竹粉/麻纤维板材生产线

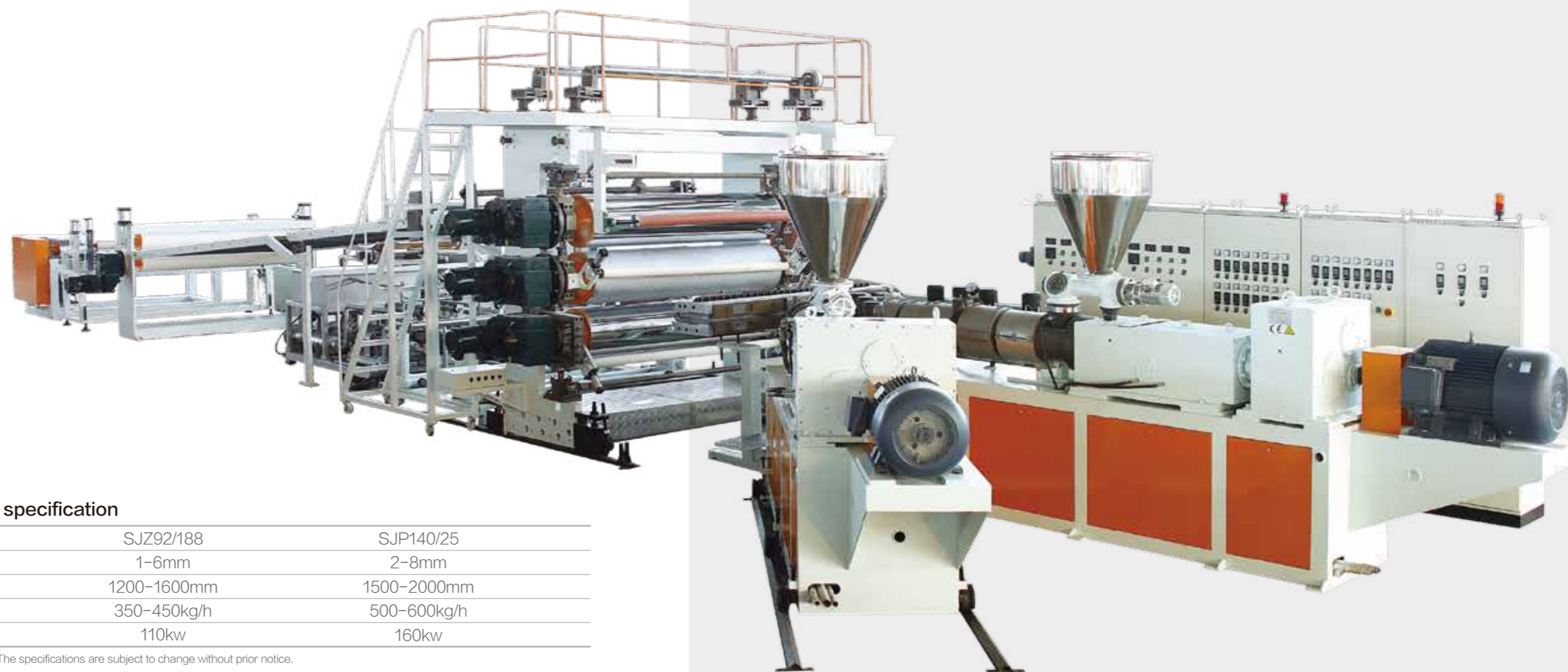
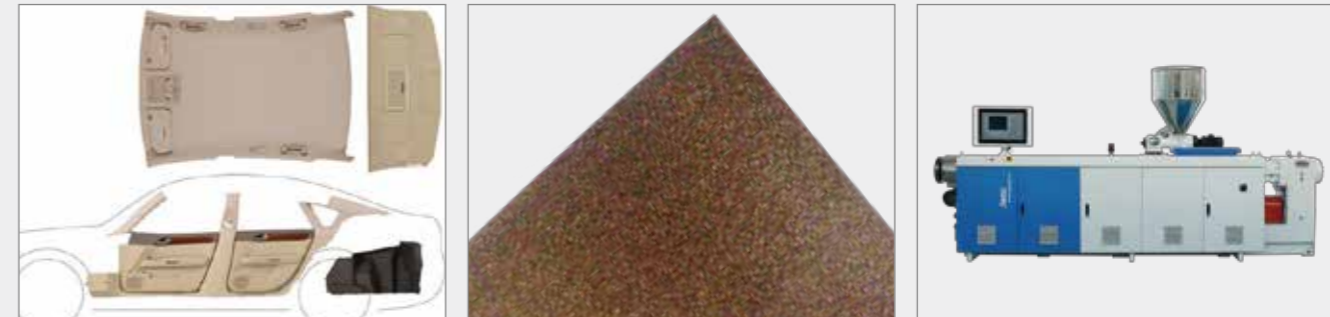
PP and Wood Powder、Bamboo Powder and Fiber Composite Sheet Extrusion Line

PP+ 木粉板材/PP+ 麻纤维板材生产线

PP+ 木粉、PP+ 麻纤维复合片材生产线，采用锥形双螺杆挤出机挤出，配以特殊工艺手段，是金纬推出的又一个国内领先的生产线机组。此复合片材具有深成型、深拉伸，与各种面料一次热压成型复合的制品，边角余料可回收利用等特点，被广泛应用于高档汽车内饰件、顶棚、后搁物板、行李箱基材及宾馆、餐厅、娱乐场所的装潢。

PP+ fiber sheet/PP+ wood powder sheet extrusion line

This production line adopts conical twin-screw extruder, with specially processing method, which is another most advanced technology in China. This product features of well-shaped, easily processed, recycling and reuse of the off cutting once-complexion with other material of sheet by hot pressing. It can be widely applied in the decoration of automobile ornaments, ceiling, booth, suitcase, hotel, restaurant, entertainment area and etc.



### 主要技术参数 Main technical specification

机型 Model	SJZ92/188	SJP140/25
制品厚度 Products thickness	1-6mm	2-8mm
制品宽度 Products width	1200-1600mm	1500-2000mm
最大挤出量 Max output capacity	350-450kg/h	500-600kg/h
主电机功率 Main motor power	110kw	160kw

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.



## TPE/TPV/PP汽车密封条生产线

### TPE/TPV/PP Automotive Seal Profile Extrusion Line

该生产线主要用于加工TPE/TPV/PP等不同材料的密封条，性能稳定产量高、能耗低等特点。主机采用进口交流变频调速，西门子显示屏，操作简单，维护方便。

The machine is used for producing seal of TPE/TPV/PP etc material, features high output, steady extrusion, low power consumption. Adapting famous inverter, SIEMENS PLC and screen, easy operation and maintenance.



#### 主要技术参数 Main technical specification

主机型号 Extruder type	JWS45/25	JWS65/25
主机马达 Motor power (kw)	7.5	18.5
最大挤出量 Output (kg/h)	15-25	40-60
冷却水用量 Cooling water (m3/h)	3	4
压缩空气用量 Compressor air (m3/min)	0.6	0.6

备注：以上规格参数如有变更，恕不另行通知。Note: The specifications are subject to change without prior notice.



# JWZ-BM30/50/100/160中空成型机

## JWZ-BM30/50/100/160 Blow Molding Machine

- 适用于生产各种规格汽车尿素箱、随车工具包、汽车座椅、风道风管、导流板、保险杠、尾翼等产品
- 采用高产量挤出系统，储料式模头
- 按照原料情况，可选配JW-DB板式单工位液压换网系统
- 可根据制品大小定制模板规格尺寸
- 可选配液压伺服控制系统
- 选配下包封、机械手
- Suitable for producing different kinds of car urea box, tool box, automotive seat, auto air duct, auto flow board, bumper and Car Spoilers.
- Adopt high output extrusion system,accumulating die head.
- According to the different material, optional JW-DB single station hydraulic screen-exchanger system.
- According to the different product size, customized the platen type and size.
- Optimal hydraulic servo control system.
- Optimal bottom sealing,take-out robot.



### 主要技术参数 Technical parameters

名称	Model	Unit	BM30	BM50	BM100	BM160
制品最大容积	Max product volume	L	30	50	100	160
机器空循环	Dry cycle	Pc/h	600	450	360	300
机头结构	Die head structure		储料式 Accumulating Type			
主螺杆直径	Main screw diameter	mm	80	90	100	100
最大塑化能力	Max plasticizing capacity (PE)	kg/h	120	180	190	240
绞料电机功率	Driving motor	Kw	37	45	55	90
储料缸容量	Accumulating volume	L	5.2	6.2	12.8	18
油泵电机功率	Oil pump motor power	Kw	15	18.5	22	22
锁模力	Clamping force	KN	280	400	600	800
模板开距	Space between platen	mm	400-900	450-1200	500-1300	500-1400
模板尺寸	Platen size W*H	mm	740*740	880*880	1020*1000	1120*1200
最大模具尺寸	Max.mould size	mm	550*650	700*850	800*1200	900*1450
机头加热功率	Heating power of die head	Kw	20	28	30	30
机器外形尺寸	Machine dimension L*W*H	m	4.3*2.2*3.5	5.6*2.4*3.8	5.5*2.5*4.0	7*3.5*4
机器总重量	Machine weight	T	12	13.5	16	20
装机总功率	Total power	Kw	95	110	135	172

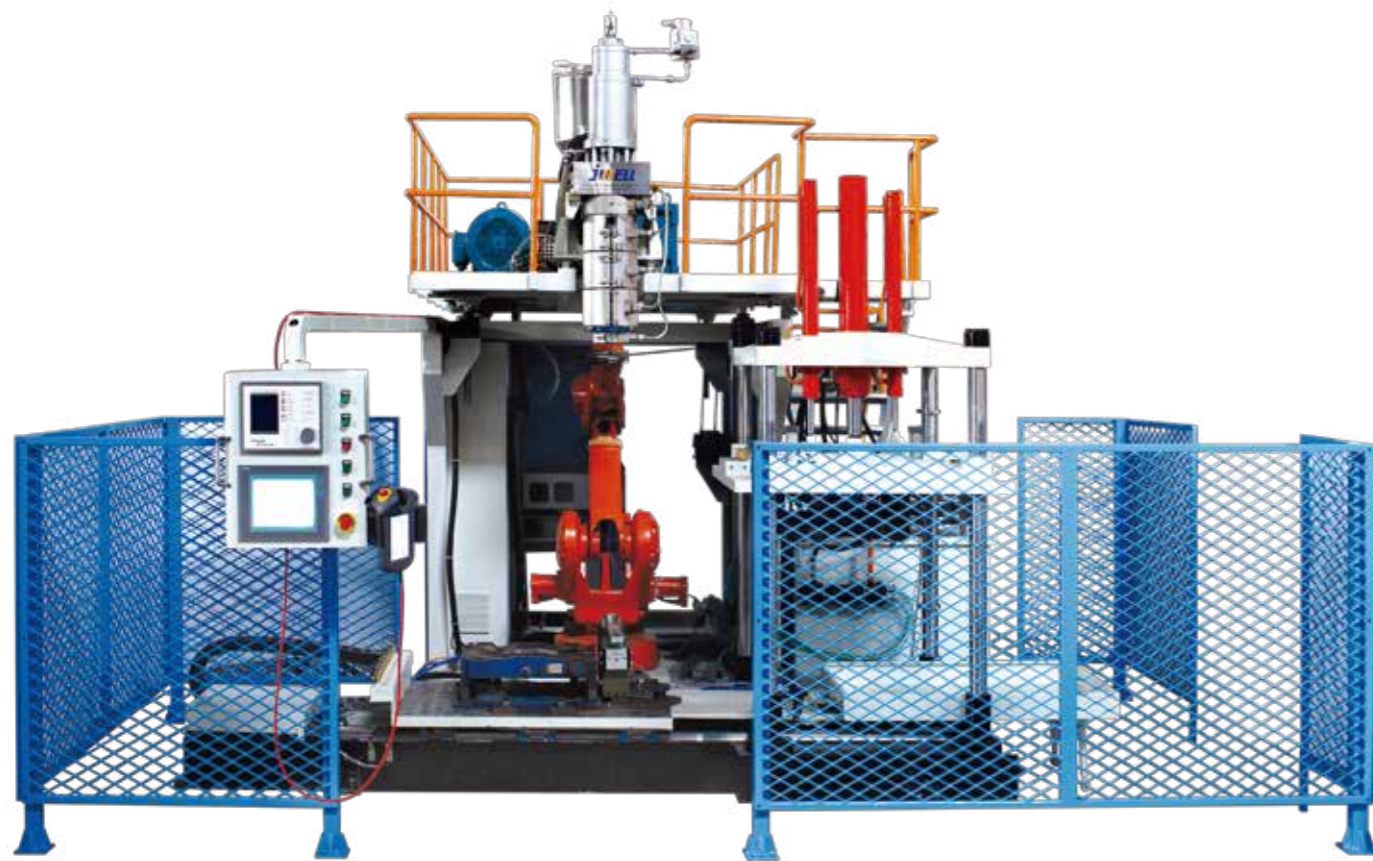
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## JWZ-BM 3D-1000三维中空成型机

JWZ-BM3D-1000 Three-dimensional Blow Molding Machine

- 适用于生产各种异形管件制品，如汽车进气管、注油管等
- 产品无飞边或少飞边，增加制品强度
- 采用高产量挤出系统，储料式模头
- Suitable for producing different Car shaped pipe fittings products, like the automotive oil filler pipe, air ducts pipe and others.
- Finished product less or without scrap for strong strength.
- Adopt high output extrusion system, accumulating die head.



### 主要技术参数 Technical parameters

名称	Model	Unit	BM3D-1000
机器空循环	Dry cycle	Pc/h	180
机头结构	Die head structure		储料式 Accumulating type
主螺杆直径	Main screw diameter	mm	65
最大塑化能力	Max plasticizing capacity (PE)	kg/h	70
绞料电机功率	Driving motor	Kw	22
储料缸容量	Accumulating volume	L	2.5
油泵电机功率	Oil pump motor power	Kw	15
锁模力	Clamping force	KN	75
模板开距	Space between platen	mm	300-1100
模板尺寸	Platen size W*H	mm	800*1200
最大模具尺寸	Max.mould size	mm	600*1100
移模行程	Platen moving stroke	mm	1800
机头加热功率	Heating power of die head	Kw	10.7
机器外形尺寸	Machine dimension L*W*H	m	5.4*4.3*3.4
机器总重量	Machine weight	T	10.5
装机总功率	Total power	Kw	63

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.



## 3D打印耗材、专用汽车小管挤出生产线

### 3D Printing Wire/Automotive Tiny Tube Extrusion Line

#### 性能和优点:

常州金纬管道公司自主设计研发的该类生产线用于加工3D耗材，汽车用管，气管等产品。通过配套不同结构的螺杆机筒可满足PE、PP、PA、FPVC、PU、PLA、ABS等为原材料的管材或者棒材的高速挤出。

具有生产速度快，精准度高，易操作和方便维修等特点。最小化的生产废料，减小运行成本，减小占地，是客户首选的多功能设备。

#### Performance and feature:

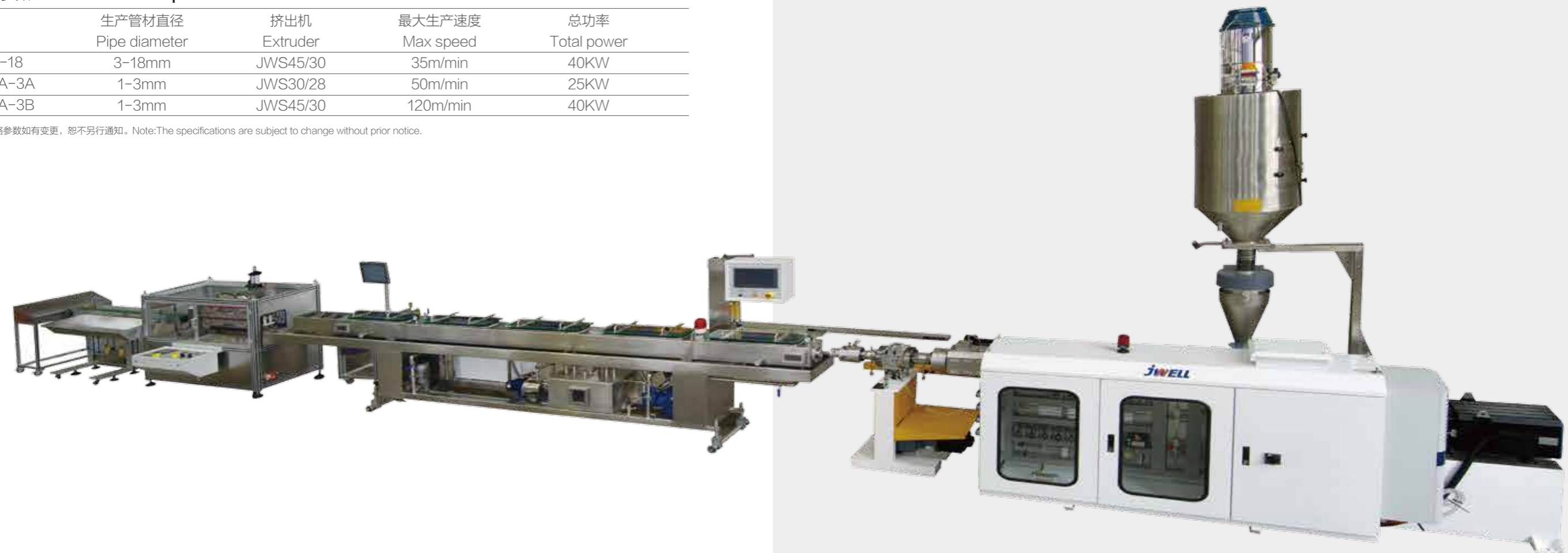
Those serial of extrusion machines are researched and developed independently by Changzhou JWELL Pipe Equipment Co., Ltd, and specially used for make 3D printing wires, car small oil pipe, air pipe. Equipped with different kind of barrel and screws, such extrusion machines can suitable for PE, PP, PA, FPVC, PU, PLA, ABS etc, many kind of materials pipe, rod, wire high speed extrusion.

Those small machines speed fast, accurate, easy to handle, waste less raw material, running cost low, cover small space and preferred by many customers.

#### 主要技术参数 Main technical specification

型号 Type	生产管材直径 Pipe diameter	挤出机 Extruder	最大生产速度 Max speed	总功率 Total power
JWS-PA-18	3-18mm	JWS45/30	35m/min	40KW
JWS-PLA-3A	1-3mm	JWS30/28	50m/min	25KW
JWS-PLA-3B	1-3mm	JWS45/30	120m/min	40KW

备注：以上规格参数如有变更，恕不另行通知。Note:The specifications are subject to change without prior notice.





## PA/PP/PE小口径单壁波纹管生产线

### PA/PP/PE Small diameter Single Wall Corrugated Pipe Extrusion Line

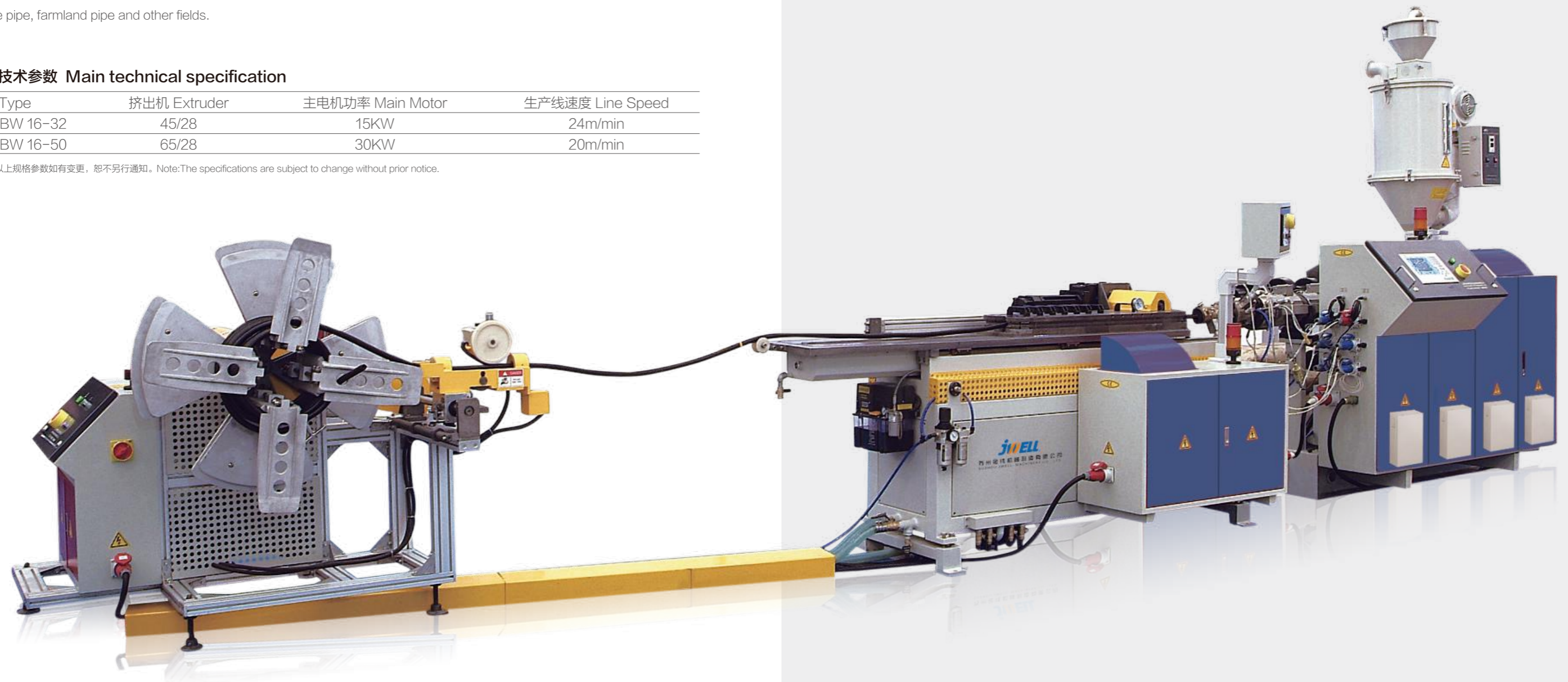
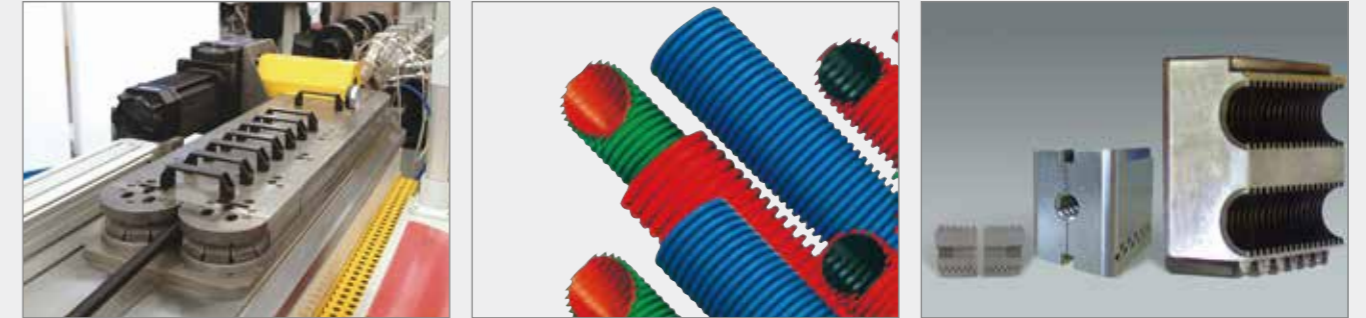
性能和优点:该系列生产线适用于PP/PE/PA等为原料的小口径单壁波纹管生产, 特制模具一次成型, 制品管壁外表光滑细腻, 波纹清晰均匀。广泛应用于电线电缆穿线管, 汽车内部线路保护管、混凝土专用管、农田暗管等领域。

Performance & Advantages: This series production line is suitable for the production of small-diameter single-wall corrugated pipe with raw materials such as PP/PE/PA. The special mold can be molded at one time. The surface of the product pipe is smooth and delicate, and the ripple is clear and uniform. Widely used in wire and cable threading pipe, automotive interior circuit protection pipe, concrete pipe, farmland pipe and other fields.

#### 主要技术参数 Main technical specification

型号 Type	挤出机 Extruder	主电机功率 Main Motor	生产线速度 Line Speed
JWDBW 16-32	45/28	15KW	24m/min
JWDBW 16-50	65/28	30KW	20m/min

备注: 以上规格参数如有变更, 恕不另行通知。Note: The specifications are subject to change without prior notice.





## 薄膜模头系列 Film Die Series

此模头采用加长V水滴形流道，三角形分流技术以及特殊的稳流结构，有效提高各复合层的复合精度以及减少挤出过程中的‘M’形和‘W’形料流产生。上模唇采用推出式手动微调+自动微调一体式模唇，手动调节范围 $\pm 1\text{mm}$ ，自动调节范围 $\pm 300\mu\text{m}$ ；自动模唇调节控制部分我们采用的是目前非常先进的全闭环控制系统和自动测厚系统，使得产品的厚薄精度在 $\pm 2\%$ 以内，在线测厚仪在高频率不间断自动横向检测扫描，能够非常实时准确的显示制品的厚度公差。在线测厚仪检测数据经过电脑程序处理后，反馈给特殊的模唇热膨胀调节螺栓，实现对模唇的开口厚薄进行自动微调，快速有效的控制产品精度。并且我们的模头具有良好的扩展性，可以根据客户的需求选配带除厚边装置的“内堵式宽度调节装置”或“外堵式宽度调节装置”，更好的满足客户生产多种宽幅产品的可能，实现更节约、更高效的生产。

该类模头适合与生产5000mm以下，厚度在0.06-0.18mm的CPP、PE、EVA、PVC、PET、PVB、PA等单层或多层薄膜。

自动流延膜模头  
Auto-casting Film Die series



The die head adopts an extension V shape water-drop type flow channel, with the shunt technology and special triangle stabilize structure. To composite layer and improve the precision of the extrusion process to eliminate 'M' shape and 'W' shape flow patterns effectively. The upper die lip using push-off type manual fine-tuning + automatic fine-tuning one-piece die lip, manual adjustment range is  $\pm 1\text{mm}$ , automatic adjustment range  $\pm 300\mu\text{m}$ ; About the automatic die lip adjustment control parts, we use currently very advanced fully closed loop control system and the automatic gauging system makes the product thickness in  $\pm 2\%$  precisely, on-line thickness gauge is automatic continuous detecting scanning frequently, can shows the very real-time accurate thickness tolerance of the products. Through computer program processing the data, feedback to special die lip adjusting bolt thermal expansion, and to realize the opening of the die lip thickness for automatic fine-tuning, fast and effective control product thickness precisely. And we have good die head scalability, according to customers' needs, matching with different "inside blocking type width adjusting device" or "the outer blocking type width adjusting device", be better satisfied customer's needs to more efficient production.

The die head suits for production under 5000mm, thickness between 0.06-0.18 mm CPP, PE, EVA, PVC, PET, PVB, PA, single-layer or multilayer films.



## 片材模头系列 Sheet Die Series

### JW-P-K1

快速开口系列模头，上模唇推拉式微调，柔性下模唇可实现不停机在线快速调整制品厚度规格，调节范围最大达 5mm，带 45 度节流棒调节装置，适用生产 PC、PS、PP、PE、PLA 等单层或多层片板。

Fast opening die series, the upper die lip with fine-tuning push-pull type, the flexible lower die lip can adjusting product thickness on-line without stop, the Max adjusting range up to 5 mm, Equip with 45 ° blocking bar, it is suitable for produce PC, PS, PP, PE, PLA, single-layer or multi-layer plate .



### JW-P-A1

标准衣架式流道设计，上模唇可微调，适用生产 PET(APET、PETG) PC、PS、PP、PLA 等，单层或多层片板，宽度 ≤2100mm，厚度 0.14-2mm。

With coat-hanger channel, micro-adjustable upper die lip, the die is perfect for single-layer or multi-layer PET(APET, PET)PC, PS, PP, PLA plate with the width ≤2100mm, and the thickness between 0.14-2mm.



### JW-P-AT1

自动调节模头，上模唇含自动控制单元，分为手动调节和自动调节两部分，手动调节范围在 1mm。自动调节范围在 300um。适用 PC、PS、PP、PE、PLA 等不同宽度的单层、多层片材或薄膜。

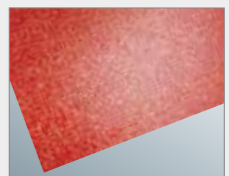
Auto-adjusting die, the upper die lip is adjusted by the auto-control system which divided into manual-control unit and auto control unit; the first can control the accuracy in 1mm and the latter 300um. Fits for PC, PS, PP, PE, PLA single-layer or multi-layer sheet or film with different width.



### JW-P-D1

模内复合模头，通过多流道模内复合，可有效提高各层面的薄厚精度。上模唇可微调、下模唇固定及芯层 45 度节流棒调节装置，适用生产 PC、PS、PP、PE、PLA 等多层共挤片材。

With multi-manifold design, the die can combine the materials inside to ensure the accuracy of the film. The die adopts micro-adjustable upper die lip, fixed lower lip and 45 ° blocking bar, which is fit for PC, PS, PP, PE, PLA multi-layer co-extrusion sheet.



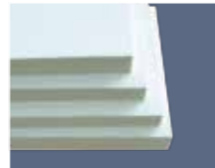
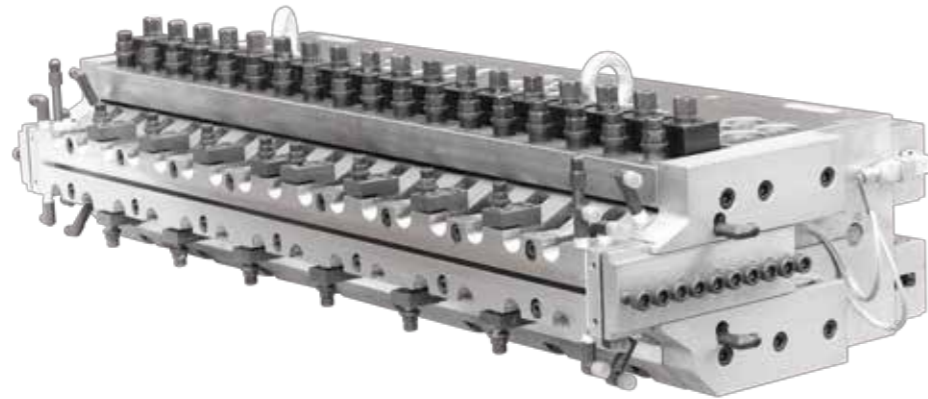


## 板材模头系列 Plate Die Series

### JW-B-A1

特殊衣架式流道设计，能最大限度上减少热敏性材料在挤出过程中的烧蚀。上唇可调、模唇可换及垂直节流棒调节装置，能满足不同厚度制品的需求。适用生产PVC自由发泡板材，制品厚度2-20mm。

With special coat-hanger channel design, the die minimizes ablation of heatsensitive material. With the adjustable upper die lip, changeable lower die lip and perpendicular blocking bar, the die meets the thickness requirements of various products. The die is fit for PVC foaming board with the thickness between 2-20mm.



### JW-B-CF

采用双流道设计，上下模唇可调并带有模唇油温控制，所生产制品表面结皮效果好，内应力小，真正实现表面结皮发泡。制品厚度5-30mm。

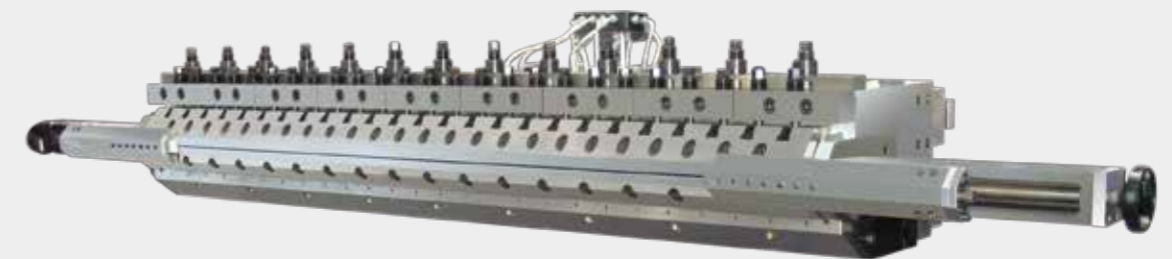
Double flow channels design, the upper and lower die lips are adjustable with the oil temp control, the skinning effect of the products surface is better and have less inner stress, truly realizing surface skinning and foaming. Thickness of products: 5-30mm.



### JW-B-B1

标准衣架式流道设计，上模唇可调、下模唇可换及垂直节流棒调节装置。配ST型模唇挡块，能够在线快速调节制品宽幅。适用生产ABS、PS、PP单层或多层板材，制品厚度0.8-8mm。

The die adopts a typical coat-hanger channel, and adjustable upper die lip, changeable lower lip and perpendicular blocking bar. With ST-model width-control system, the width of products can be changed without interrupting. The die is designed for ABS, PS, PP single-layer or multi-layer plate with the thickness between 0.8-8mm.

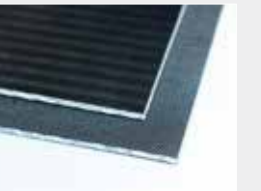


## PVC涂覆模头系列 PVC Coating Die Series

### JW-F-A1

PVC涂覆模采用特殊衣架式流道设计及独特的模唇结构，上模唇可调及垂直节流棒调节装置及涂层厚度可调，通过成对使用，可生产不同厚度、不同规格的专用运输带。该产品被广泛用与矿山，仓储，运输等场合；标准规格(mm): 650、800、1000、1200、1400、1600、1800、2000。

PVC coating die adopts special channel of coat-hanger structure, adjustable upper die lip, perpendicular blocking bar, the thickness of production can be adjusted. In pairs, special-purpose conveyer belt with different thickness and size can be produced. This kind of products are widely used in mining, storage, transportation and so on; Specification(mm):650, 800, 1000, 1200, 1400, 1600, 1800, 2000.





## 超级镜面辊 Super Mirror Roller

用于光学级板材、片板、薄膜制品：

超级镜面对于光学级塑料板材、片材、薄膜生产设备来说是一个不可缺少的重要部件。其规律是：辊筒表面越光，越精密，生产出的制品质量就越好。因而，我们努力达到最小的表面粗糙度公差。

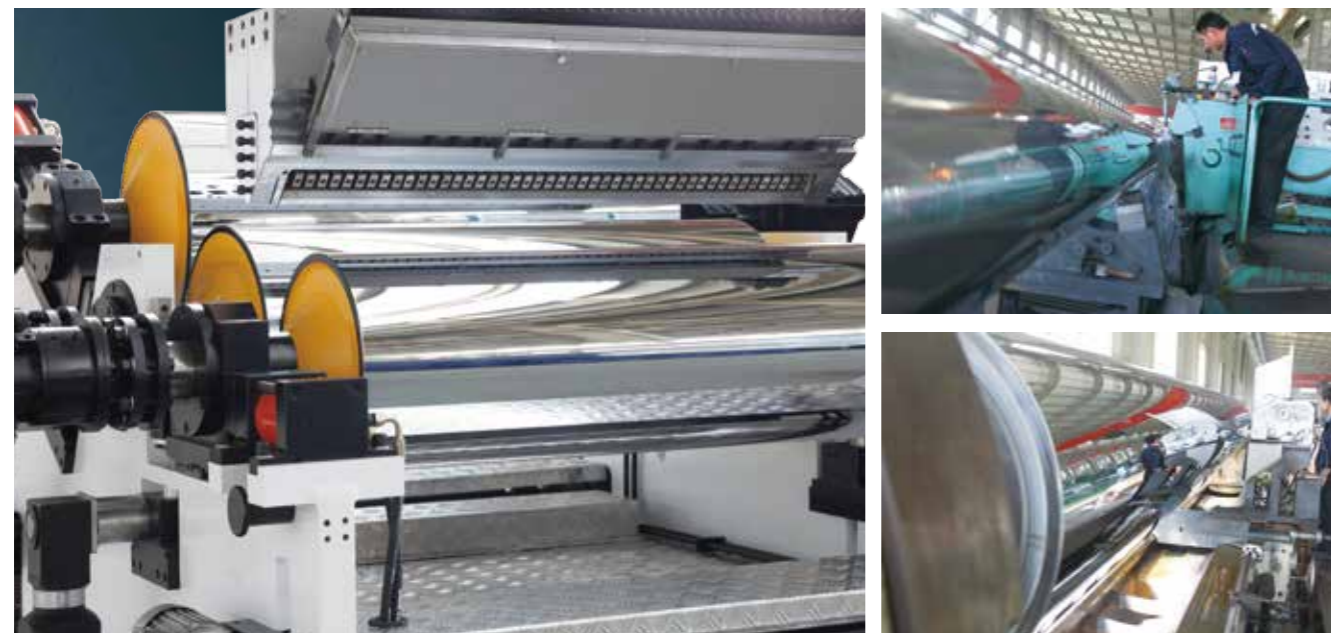
生产出的光学级制品主要应用于LED面板、电子、电器工业的薄膜开关；电脑、手机液晶显示屏等高端领域。

Super mirror surface roller is a key part of sheet and plate equipments. The rule is that the more smooth and precise the roller surface, the better the product quality. And, we always strike for the smallest possible surface roughness tolerance to the level of Ra0.005um.

The optics grade product is applied for producing LED panels, electronics, thin-film switch of electric appliances, and high end consumer products section like PC monitor, mobile phone screen and etc.

### 辊筒特点 Features

- 超镜面辊筒表面光洁度可以达到Ra0.005-0.01  $\mu\text{m}$ ；
- 辊筒的圆柱度、同轴度均达到 $\leq 0.005\text{mm}$ ；
- 特殊的结构设计以保障极强的辊筒刚性和表面温度误差最小；
- The surface roughness level of the roller can be reached Ra0.005-0.01  $\mu\text{m}$ ；
- The (the) cylindricity and cocentricity of the roller can be reached  $\leq 0.005\text{mm}$ ；
- Enhanced roller rigidity and minimized roller surface temperature deviation through special roller structure design.



## 薄壁高效辊筒 Thin-Wall Efficient Roller

薄壁高效辊筒的辊面外壳厚度仅为标准辊筒外壳厚度的50%-70%；内部减少螺棱支撑点的面积以增大冷却水的接触面积和热转换效率。为抵消辊面较薄的强度减弱，采用了整体圆弧形流道以增加承压强度。相同的工况环境，使用薄壁高效辊筒的片材设备产量增加了20%-50%。

For the thin-walled high-efficiency roller, the surface shell thickness is only 50%-70% of the standard roller; by reducing the area of the strikes, and enlarging the contact area with cooling water, the thermal conversion efficiency is increased. And to offset the roller rigidity, the overall circular runner design is adopted to increase the intensity of the roller. Under the same working condition, the thin wall high efficiency roller boosted plate and sheet line output by 20% to 50%.

### 辊面处理 Roller surface treatment

- 经调质处理，确保组织结构密实
- 外表面深层次淬火，硬度达到HRC50-55
- 表面电解镀铬，硬度达到HRC58-65
- Quenching with Subsequent tempering, ensures the density of the structure
- Outer surface deeply quenched, the hardness can be reached HRC 50-55
- Surface electrolyze hard chromed, the hardness can be reached HRC 58-65

### 表面处理 Surface treatment

- 镜面、超镜面研磨抛光加工
- 可加工各种消光、雾面、磨砂、喷涂层等表面
- Mirror roller, super mirror roller grinding and polishing processing.
- Different kinds of roller surface treatments are available, such as leather veins, matt, mist, frosting, net veins and etc.



## 电磁加热辊筒

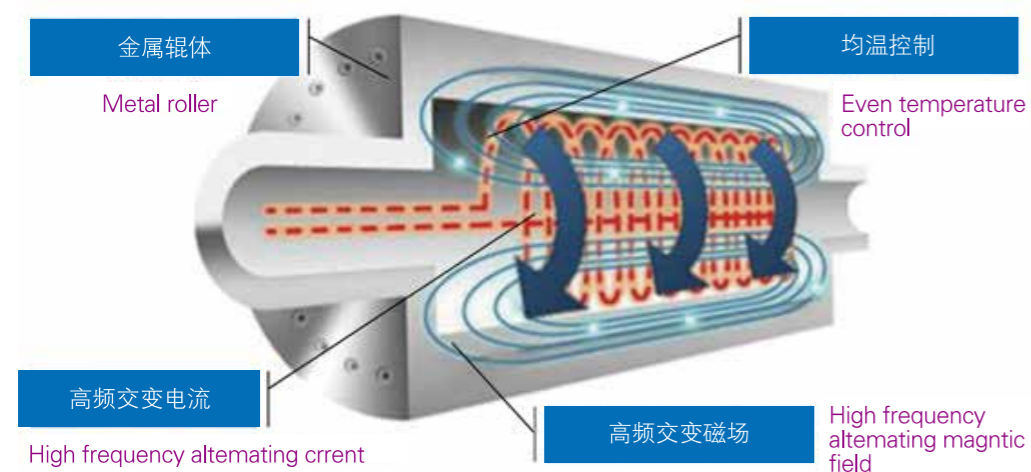
### Electromagnetic Heating Roller

由于加热辊在各行业应用广泛，电磁加热辊正取代导热油加热辊，目前在激光防伪印刷、模压、汽车夹层玻璃复合、复合膜生产、医用胶带、药品包装、非织造无纺布生产、铝塑板胶合、化学合成纤维、橡塑压延等行业成功应用。

With the wide application of heating roller in various industries, electromagnetic heating roller is replacing heat conduction oil heating roller, so far electromagnetic heating roller is successfully used in laser anti-counterfeiting printing, die stamping, automotive laminated glass composite, composite film production, medical tape, pharmaceutical packaging, non-woven fabric production, aluminum-plastic panel agglutination, synthetic fiber, rubber and plastic calendaring and other industries.

#### 辊筒特点 Features

- 节能——比导热油辊或蒸汽辊节能约60%；
  - 温控精度高——温控精度达  $\pm 0.5^{\circ}\text{C}$  ；
  - 升温速度快——从室温到 $200^{\circ}\text{C}$ 只需25min；
  - 工作温度高——辊面工作温度可实现 $400^{\circ}\text{C}$ 以上，满足高温生产要求；
  - 环保——全电气化控制，无油渍污染，生产环境清洁卫生。
- energy saving - 60% energy saving comparing with the heat conduction oil roller or steam roller;
  - high precision temperature control, temperature precision reaches  $\pm 0.5^{\circ}\text{C}$ ;
  - faster heating up- takes only 25 min from room temperature to  $200^{\circ}\text{C}$ ;
  - high working temperature, roller surface temperature can reach above  $400^{\circ}\text{C}$  for operation , satisfies the requirement of high temperature production;
  - environmental protection - all electric control, no oil pollution, clean production environment.

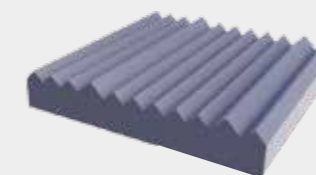
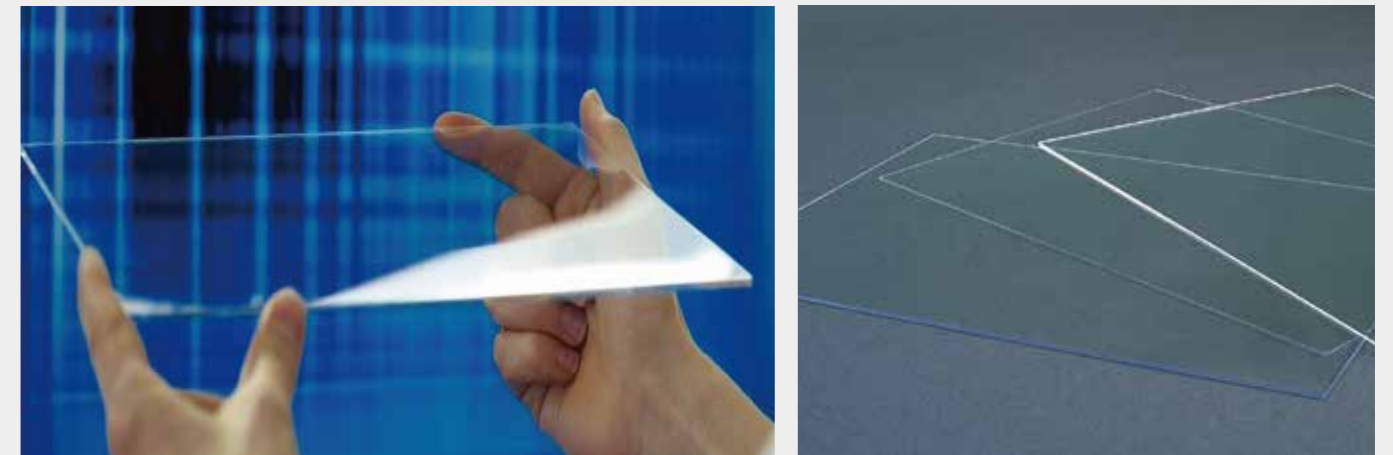


## 光学膜用途微结构辊

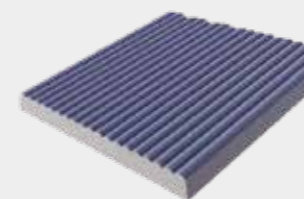
### Micro-Structure Roller for Optical Film & Sheet

微结构辊经过在辊面镀铜、镀镍以后进行辊面微结构处理，制成高等级的光学片材或薄膜，成为LED/LCD面板的关键模块组件。制品应用于制作于LCD/LED背光的光学膜，棱镜片增光膜 (prism) 和微透镜膜 (micro lens)，3D光栅膜，液晶显示屏、笔记本电脑、移动电话等领域。

Microstructure roller make the micro structure treat for the roller surface after the copperize, nickelage, to be the height class optics sheet or film which will be the key module parts of the LCD panel. The final product used in the LCD/LED display, mobile phone, 3D raster, prismatic lens and micro lens.



V型结构(正面结构)  
V type structure  
(the front side structure)



3D结构辊  
3D structure roller





## 流延膜用辊筒 Casting Film Roller

JWELL制造的流延膜用辊筒采用严格的欧洲专业制造标准，经过多道焊接和热处理工艺，保证辊筒的整体结构坚固可靠。为了确保其高效的热交换效果，流延辊筒的流道均为特殊的螺旋形设计，并对通过流道的冷却液流量进行精确的计算，从而尽可能的减小辊筒表面温度误差，提高了产品的温度均匀性。流延膜用辊筒的动平衡精度尤为重要。专用的大型动平衡校验设备和多种平衡检测方案，使其在高转速下运行平稳。

JWELL manufactured casting film roller strictly according to European professional manufacturing standards. Several steps of welding and heat treatment process are applied to give ensurance to the overall rigidity and reliability of roller structure. In order to ensure its efficient heat exchange, casting roller flow channel are designed with the special spiral, and through accurate calculation of the coolant flow, the roller surface temperature deviation are reduced to the least possible. It improves the temperature uniformity of the product. The most important is the precision of dynamic balancing of roller. Specialized large dynamic balance calibration equipment and a variety of balance detection scheme, ensures smooth operation at high rotation speed.



较高的生产线速度要求流延膜用辊筒具有极高的转速、精确的动平衡精度、快速均衡的热交换效率；

High speed of casting film production line means very high rotation speed of the roller, and this requires precise dynamic balancing, high and balanced heat exchange efficiency;

### 辊筒特点 Features

- 最大的辊筒直径:  $\Phi 1600\text{mm}$
  - 辊筒的圆柱度、同轴度均达到 $\leq 0.005\text{mm}$ ;
  - 辊筒表面镀硬铬, 镀层厚度 $50\sim 80\mu\text{m}$
  - 辊筒表面温度误差 $\pm 0.5\sim 1^\circ\text{C}$ ;
  - 表面抛光镜面、超精镜面、毛面/雾面、防粘辊面处理;
  - 运行速度: 最大 $800\text{米/分}$ ;
  - 整体变形: 全负荷时 $< 0.05\text{毫米}$
  - 运行时动平衡 最佳 $Q=3.2$
- 
- Roller diameter: max.  $1600\text{ mm}$
  - Roller cylindricity, concentricity both  $\leq 0.005\text{mm}$ ;
  - Roller surface hard chromium plated, coating thickness is  $50 \sim 80\ \mu\text{m}$
  - Roller surface temperature deviation  $\pm 0.5\sim 1^\circ\text{C}$ ;
  - roller surface treatment: mirror polished, super finishing mirror, matt, mist and anti adhesive surface;
  - Speed: max.  $800\ \text{m/min}$ ;
  - Overall deformation:  $< 0.05\ \text{mm}$  at full load
  - Best dynamic balance:  $Q = 3.2$



## 挤出机械物联网+智能制造解决方案

工业4.0时代的互联—CPS（信息物理系统cyber physical systems），不是简单的对互联网、物联网、传感网的替代，它是信息世界和物理世界的深度融合。

未来挤出装备不再是一个孤立的自动化、信息化孤岛，未来的挤出机工厂会通过云平台与整个供需体系形成灵活智能的产品制造网络。工业4.0背景下的智能注塑发展趋势，多品种小批量快周期的定制化生产；多种生产技术和工艺的高度集成化；少人或无人状态下的自主生产过程；从原料到成品整个过程的信息化管理……

The interconnected in the industrial 4.0—CPS (cyber physical systems) is not a simple alternative to the Internet, the Internet of things, and the sensing network. It is a deep integration of the information and the physical.

The future extrusion equipment is no longer an isolated automation and information island. The future extruder factory will form a flexible and intelligent product manufacturing network through the cloud platform and the whole supply and demand system. In the industrial 4.0 background, the development trend of intelligent extrusion, customized production of multi variety and small batch fast cycle; High integration of various production techniques and processes; autonomous production process under less people or unmanned state; information management from the whole process of raw material to finished product...

在朝着工业4.0发展的过程中，我们的设备更智能化了！金纬机械智能化生产线：

- 1.可以监测主机电流。
- 2.可以监测主机温度。
- 3.可以监测主机电能。
- 4.可以监测主机每吨物料能耗（目前仅支持有米重控制的设备）。
- 5.可以在手机上查看数据信息。
- 6.可以记录并统计设备故障，部件更换等信息。
- 7.可以连接MES系统。
- 8.可以远程调试程序。

In the process of industrial 4.0, our equipment is more intelligent! Intelligent production line of Jwell:

1. can monitor the current of the extruder.
2. can monitor the temperature of the extruder.
3. can monitor the power of the extruder.
- 4., the energy consumption per ton of material can be monitored. (At present, only equipment with rice weight control is supported)
5. you can view the data on the phone.
6. records and statistics of equipment failure, parts replacement and other information can be recorded and counted.
7. can connect the MES system.
8. the program can be debugged remotely.



实时工况  
Real-time operating status



作业情况统计  
Working status statistics

## Plastic Machinery Fully Integrated Automation + Internet Of Things Control System Solutions

基于MES系统平台，实现车间生产管理的信息沟通平台，并向智能化方向发展。

Based on the MES system platform, the information communication platform of workshop production management is realized and move toward the intelligent direction






**企业风采：品质管理 技术研发 国际交流 客户服务 员工培训**



Quality Control Technology Research International Communication Customer Service Staff Training





名片



24小时服务  
24 Hours Service



客户服务热线  
Customer Service Hotline



培训  
Training



交钥匙工程  
Turn-Key Project