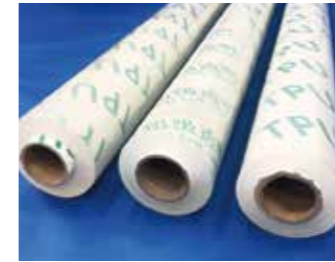




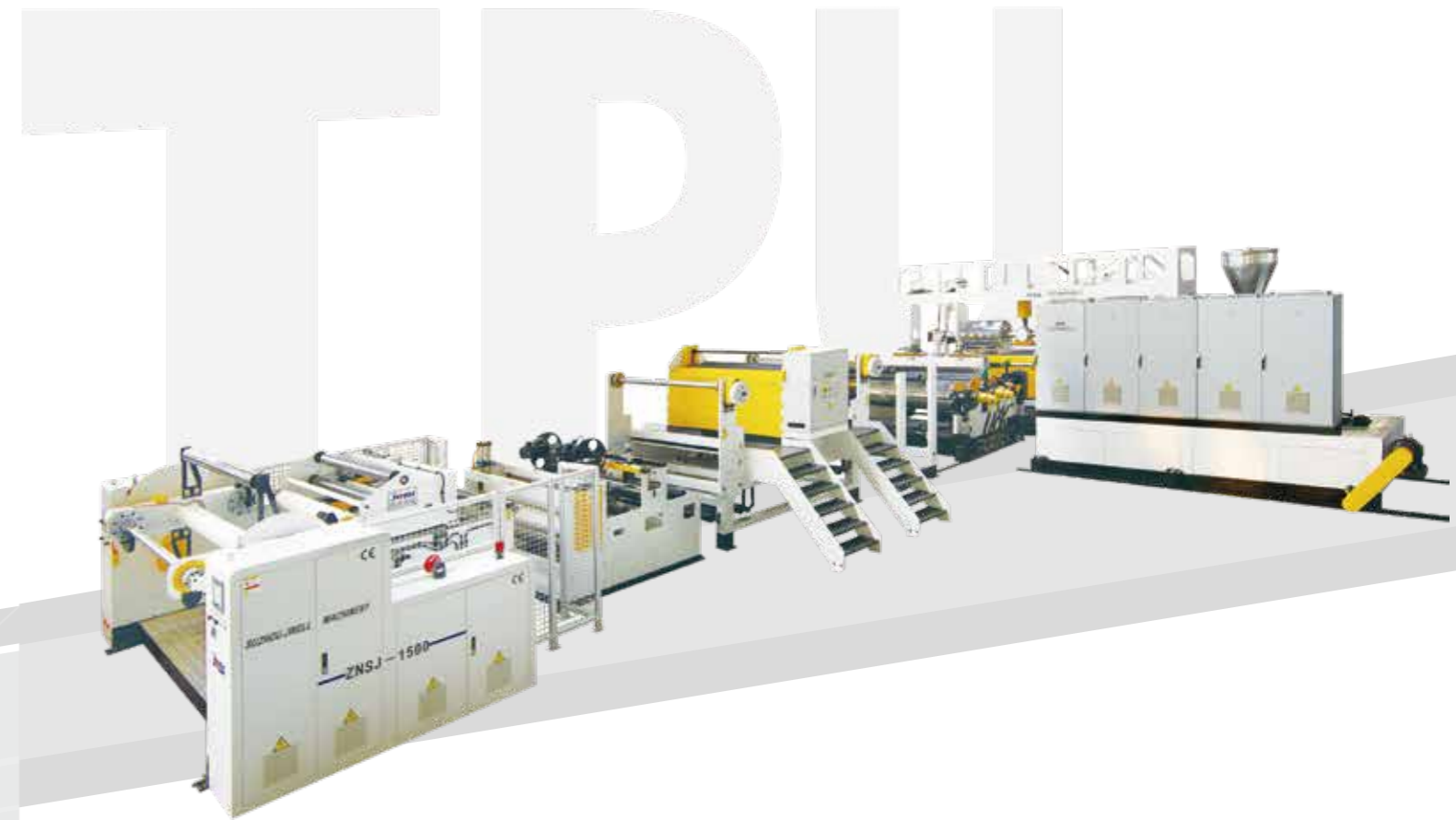
# TPU薄膜生产线系列

TPU FILM PRODUCTION LINE SERIES



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品质卓越 完美如一



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Our customers are all over China, and we have customers in Germany, Russia, Italy, Spain, Japan, India, Korea, Indonesia, Middle East, South America and other countries and areas. Our machines are well accepted by our customers.

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### “诚实待人”

是我们铸就“百年金纬”的核心理念。

"Be honest" is the core idea for us to contribute "Century JWELL"

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江苏金纬智能制造厂区

A Global Supplier of Complete Solutions on Extrusion Technology  
金纬机械—全球挤出技术 整体解决方案供应商

80年代初

金海螺第一代螺杆研制成功  
In the early 1980s, the first generation screw of JINHAILUO was successfully developed

1997

上海金纬机械  
Shanghai JWELL Machinery

2008

苏州金纬机械  
Suzhou JWELL Machinery

2012

常州金纬机械  
Changzhou JWELL Machinery

2018

贝克威尔 (泰国)  
Bkwell (Thailand)

2019

浙江金纬智能装备  
Zhejiang JWELL Machinery

2020

金纬公司业绩突破50亿人民币  
Jwell's annual sales exceeded CNY 5 billion

2021

滁州金纬机械  
Chuzhou JWELL Machinery

2022

连续11年荣获中国塑料机械挤出行业排名首位  
Ranked first in China's plastic machinery extrusion industry for 11 consecutive years

We Know Extrusion



# TPU隐形车衣膜生产线

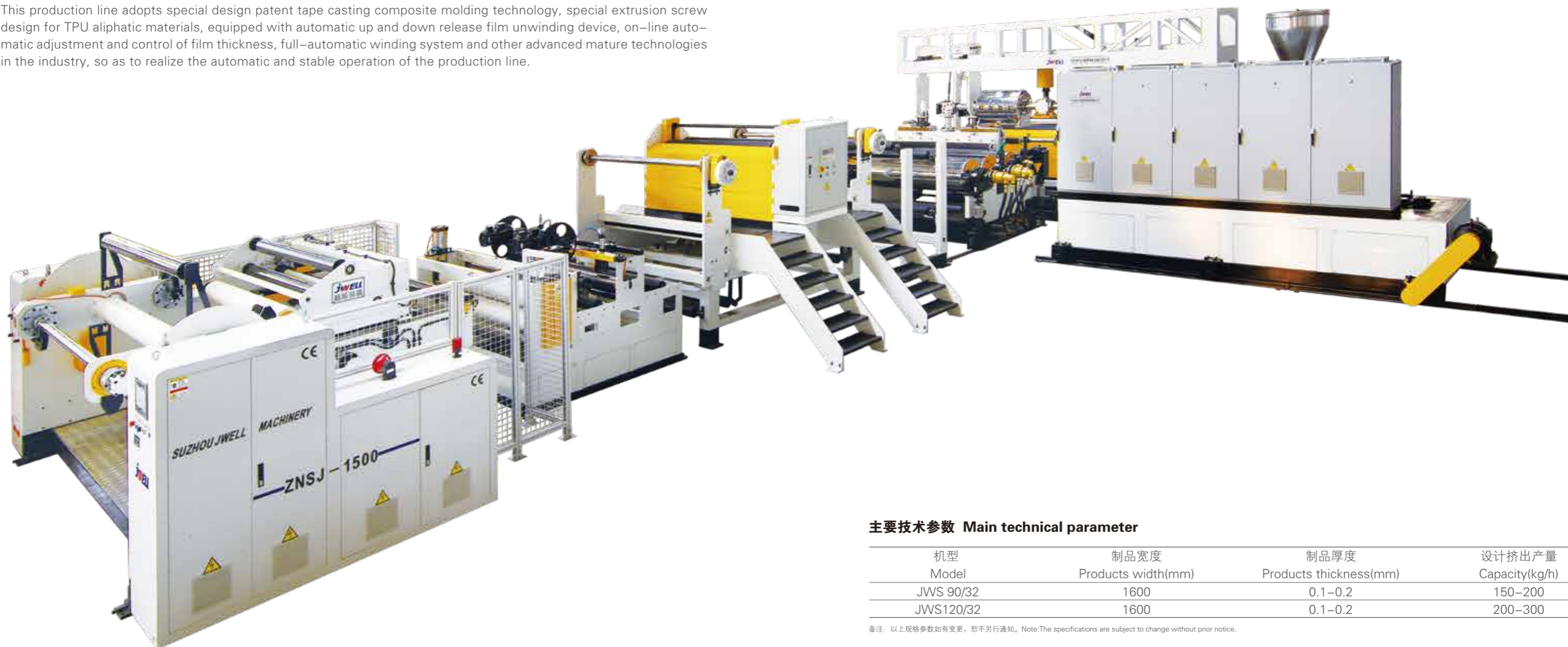
## TPU Invisible Car Clothing Production Line

TPU隐形车衣是一种高性能新型环保薄膜，被广泛应用于汽车美容保养行业，是透明漆面保护膜的一种俗称。具有超强的韧性，装贴后可使汽车漆面与空气隔绝，持久具有高光亮度，经过后续加工，车衣膜具有刮擦自修复性能，持久保护漆面。

本生产线采用特殊设计的专利流涎复合成型技术，针对TPU脂肪族材料特殊的挤出螺杆设计，配备全自动上下离型膜放卷装置，膜片厚度在线自动调节控制，全自动化收卷系统等行业先进的成熟技术，实现生产线的自动化稳定运行。

TPU invisible film is a new type of high-performance environmental protection film, which is widely used in automobile decoration maintenance industry. It is a common name of transparent paint protection film. It has strong toughness. After mounting, it can insulate the automobile paint surface from the air, and has high brightness for a long time. After subsequent processing, the car coating film has scratch self-healing performance, and can protect the paint surface for a long time.

This production line adopts special design patent tape casting composite molding technology, special extrusion screw design for TPU aliphatic materials, equipped with automatic up and down release film unwinding device, on-line automatic adjustment and control of film thickness, full-automatic winding system and other advanced mature technologies in the industry, so as to realize the automatic and stable operation of the production line.



### 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)
JWS 90/32	1600	0.1-0.2	150-200
JWS120/32	1600	0.1-0.2	200-300

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.

# TPU隐形牙套生产线

## TPU Invisible Braces Production Line

**TPU隐形牙套**是以崭新的3D立体电脑技术，量身定制一系列近乎无法察觉的透明牙托来完成整个矫正疗程。不管是由于牙齿拥挤、有间隙，或者是传统治疗后又移位的牙齿，都绝对可以重新获得灿烂笑容。

**TPU invisible braces** is a new 3D computer technology that customizes a series of nearly undetectable clear trays to complete the entire orthodontic procedure. Whether it is due to crowded teeth, gaps, or teeth that have shifted after traditional treatment, you can definitely regain a brighter smile.

### TPU隐形牙套优点:

**美观性:**几乎完全隐形。您将在别人毫无察觉中完成牙齿矫正，解决了许多患者对矫正牙齿的美观顾虑。

**舒适性:**没有传统意义上的托槽、钢丝等矫正装置，矫正过程不再痛苦。对牙周组织的刺激及不适感最低。

**便捷性:**可自行摘戴，不影响社交、进食、运动等。同时复诊次数减少，节约您的宝贵时间。

**易清洁:**口腔卫生容易维护，不必担心牙龈炎、牙齿脱矿、变色等问题。

### Advantages of TPU invisible braces.

**Aesthetics:** Almost completely invisible. You will complete your orthodontic treatment without anyone noticing, solving many patients' aesthetic concerns about straightening their teeth.

**Comfort:** Without brackets, wires and other orthodontic devices in the traditional sense, the orthodontic process is no longer painful. There is minimal irritation and discomfort to periodontal tissues.

**Convenience:** You can take them off and on without interfering with socializing, eating or exercising. At the same time, the number of follow-up visits is reduced, saving your valuable time.

**Easy to clean:** Oral hygiene is easy to maintain without worrying about gingivitis, tooth demineralization, discoloration, etc.



### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width	制品厚度 Products thickness	设计挤出产量 Design extrusion output
JWS65	400-700mm	0.3-1.0mm	30-50kg/h
JWS55/JWS80	600-900mm	0.3-1.0mm	50-120kg/h
JWS45/JWS80/ JWS45	600-900mm	0.3-1.0mm	80-150kg/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.



## TPU医疗薄膜生产线

### TPU Medical Film Production Line

**TPU医用薄膜**作为热塑性可降解的环保材料，能有效地作为阻隔细菌的屏障，具有较好的弹性和人体感受的舒适性，和良好的生物相容性和亲肤性，其优异的性能，是作为人体表面医用外敷的最佳材料。

**产品应用：**广泛应用于医用透明伤口敷料、医用无纺布伤口敷料、医用防水透气伤口敷料、创口固定贴、免缝针胶带、婴儿肚脐贴、薄膜手术巾、防水创可贴、医用防过敏胶带、手术衣、血浆袋、医疗气囊等方面的良好应用。另作为聚氨酯避孕套，强度为乳胶的1倍，厚度可做得更薄，提高敏感性。此新型避孕套透明、无气味、耐油质润滑剂，可防止性传播疾病，特别适于对乳胶过敏的人。

**TPU medical film** as a thermoplastic degradable environmental protection material, can effectively serve as a barrier to bacteria, has good elasticity and human feeling comfort, and good biocompatibility and skin-friendly, its excellent performance, is the best material as a human surface medical external dressing.

**Product application:** Widely used in medical transparent wound dressing, medical non-woven wound dressing, medical waterproof and breathable wound dressing, wound fixation patch, stitch-free tape, baby belly button patch, film surgical towel, waterproof band-aid, medical anti-allergy tape, surgical gown, plasma bag, medical airbag and other good applications. Also as a polyurethane condom, the strength is 1 times of latex, and the thickness can be made thinner to improve sensitivity. This new type of condom is transparent, odorless, and resistant to oil-based lubricants, which can prevent sexually transmitted diseases and is especially suitable for people who are allergic to latex.



#### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width	制品厚度 Products thickness	设计挤出产量 Design extrusion output
JWS80/32	600-1200mm	0.01-0.3mm	30-50kg/h
JWS45/JWS65	600-1200mm	0.01-0.3mm	50-80kg/h
JWS65/JWS100	1000-1500mm	0.01-0.3mm	100-200kg/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.



## TPU/TPE皮革挤出复合生产线

### TPU/TPE Leather Extrusion Composite Production Line

TPU和TPE作为高性能的热塑性弹性体，具有高耐磨、高弹型、耐老化、触感柔软舒适等优点，用TPU材料开发的TPU超纤皮革，应用于仿皮家具/软包装饰、文具应用、服装材料、箱包皮革、汽车座椅及内饰、运动鞋等。

传统超纤皮革，其采用溶剂型PU涂布法的生产工艺，生产过程产生化学溶剂的挥发，造成企业对环保的困扰和对消费者健康的伤害。采用TPU热塑性材料制作的皮革工艺，一步法挤出复合成型，生产过程环保无污染，对人体健康不造成伤害，是替代传统PU皮革的最佳选择。

TPU and TPE, as high-performance thermoplastic elastomers, have the advantages of high wear resistance, high elasticity, aging resistance, soft and comfortable to the touch, etc. TPU microfiber leather developed with TPU material is used in imitation leather furniture/soft packaging decoration, stationery applications, clothing materials, luggage leather, car seats and interior applications, sports shoes applications, etc.

Traditional microfiber leather, its production process using solvent-based PU coating method, the production process produces the volatilization of chemical solvents, resulting in the enterprise's environmental problems and harm to consumer health. The leather process made by TPU thermoplastic material, one-step extrusion composite molding, the production process is environmentally friendly and pollution-free, causing no harm to human health, is the best choice to replace the traditional PU leather.



#### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width	制品厚度 Products thickness	设计挤出产量 Design extrusion output
JWS65/120	1000-3000mm	0.1-0.3mm	200-250kg/h
JWS65/120/75	1000-3000mm	0.1-0.3mm	200-300kg/h
JWS75/130/75	1000-3000mm	0.1-0.3mm	300-400kg/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.



# TPU多组流延复合生产线

## TPU Multi-group Casting Composite Film Production Line

**TPU多组流延复合材料**是将多层面料经过多组分步流延连线复合的方式，实现3-5层不同材质的复合的一种材料，表面成型美观，并可做出不同纹路。其具备优越的强度、耐磨性、安全环保性能，应用于气胀式救生衣、潜水BC夹克、救生筏、气垫船、充气帐篷、充气水袋、军用充气自膨胀床垫、按摩气囊、医疗防护、工业输送带和专业防水背包等高强度特殊复合的产品。

本生产线采用多台挤出机及多套放卷装置，分步流延成型，并实现连线一步复合成型，可配备在线多组测厚控制，生产线设计多种不同复合方式组合，一条生产线可实现多种产品形式的生产工艺。对于特殊的一些面料，可与面料预处理涂胶生产线同步连线对接，满足客户不同产品的生产需求。

**TPU multi-group casting composite material** is a kind of material which can realize 3-5 layers of different materials by multi-step casting and online combination. It has beautiful surface and can make different patterns. It has superior strength, wear resistance, safety and environmental protection performance. It is used in inflatable life jacket, diving BC jacket, life raft, hovercraft, inflatable tent, inflatable water bag, military inflatable self expansion mattress, massage air bag, medical protection, industrial conveyor belt and professional waterproof backpack.

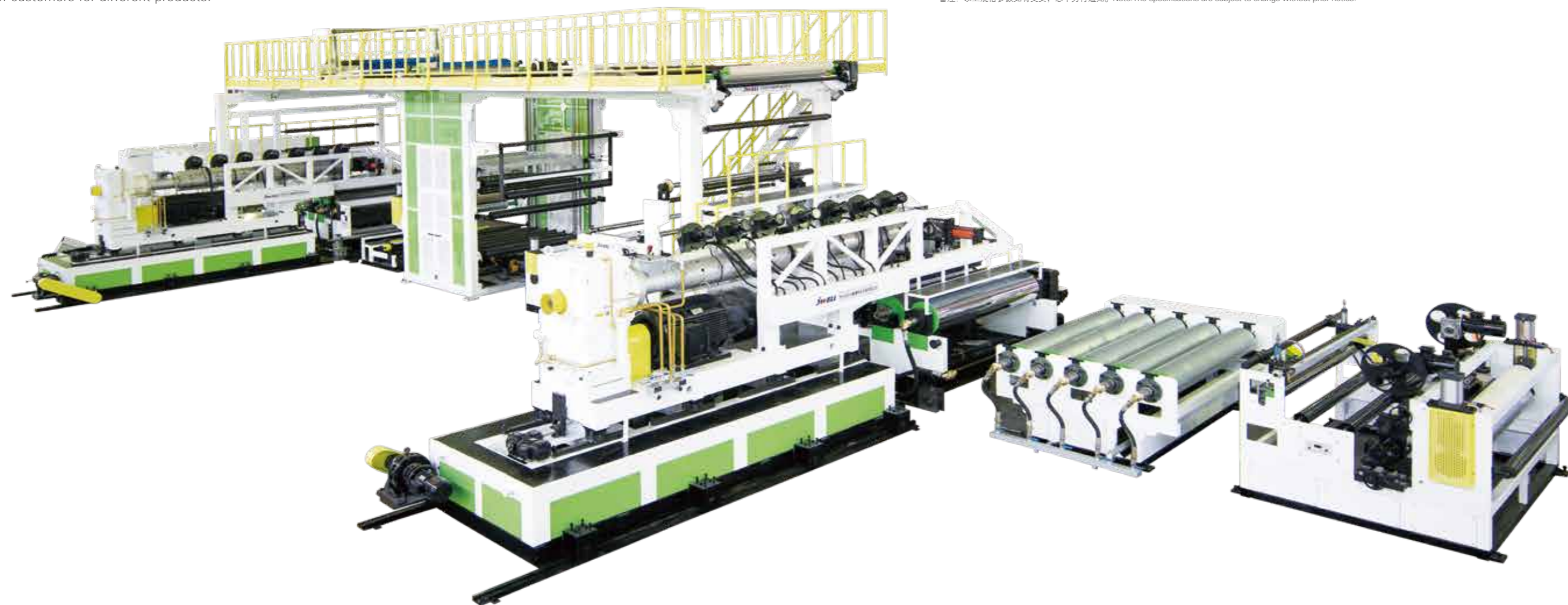
This production line adopts multiple extruders and multiple sets of unwinding devices, step by step flow casting forming, and realizes one-step composite forming, which can be equipped with on-line multi-group thickness measurement control. The production line designs various composite methods and one production line can realize various production processes of product forms. For some special fabrics, it can be connected with the fabric pretreatment and gluing production line synchronously to meet the production needs of customers for different products.



### 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)
JWS120/JWS120	1000-3000	0.02-2.0	400-600
JWS90/JWS90/JWS90	1000-3000	0.02-2.0	250-350
JWS90/JWS120/JWS90	1000-3000	0.02-2.0	350-450

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.



# TPU玻璃夹胶膜生产线

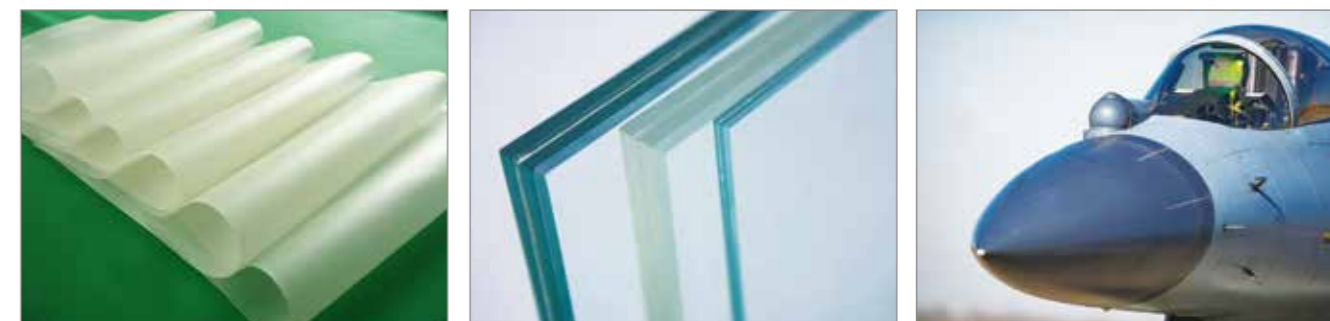
## TPU Glass Interlayer Film Extrusion line

**TPU玻璃中间胶膜:** TPU作为新型的玻璃夹胶膜材料, 透明度更高, 永不黄变, 对玻璃的粘接强度更高, 耐寒性能更突出。

**TPU Glass Interlayer Film Extrusion line:** As a new type of glass laminated film material, TPU has higher transparency, never yellowing, higher bonding strength to glass and more outstanding cold resistance.

**典型应用:** 航空航天、高速列车、军民用直升机、客机、运输机挡风玻璃、防弹装甲、银行防爆, 光伏等行业。

**Application:** Aerospace, high-speed trains, military and civilian helicopters, passenger aircraft, transport aircraft windshield, bulletproof armor, bank explosion-proof, photovoltaic and other industries.



### 主要技术参数 Main technical parameter

机型 Model	制品宽度 Products width	制品厚度 Products thickness	设计挤出产量 Design extrusion output
JWS 90/32	1000-3000mm	0.05-0.5mm	100-150kg/h
JWS120/32	1000-3000mm	0.05-0.5mm	150-200kg/h
JWS130/32	1000-3000mm	0.05-0.5mm	200-300kg/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.



## TPU薄膜生产线

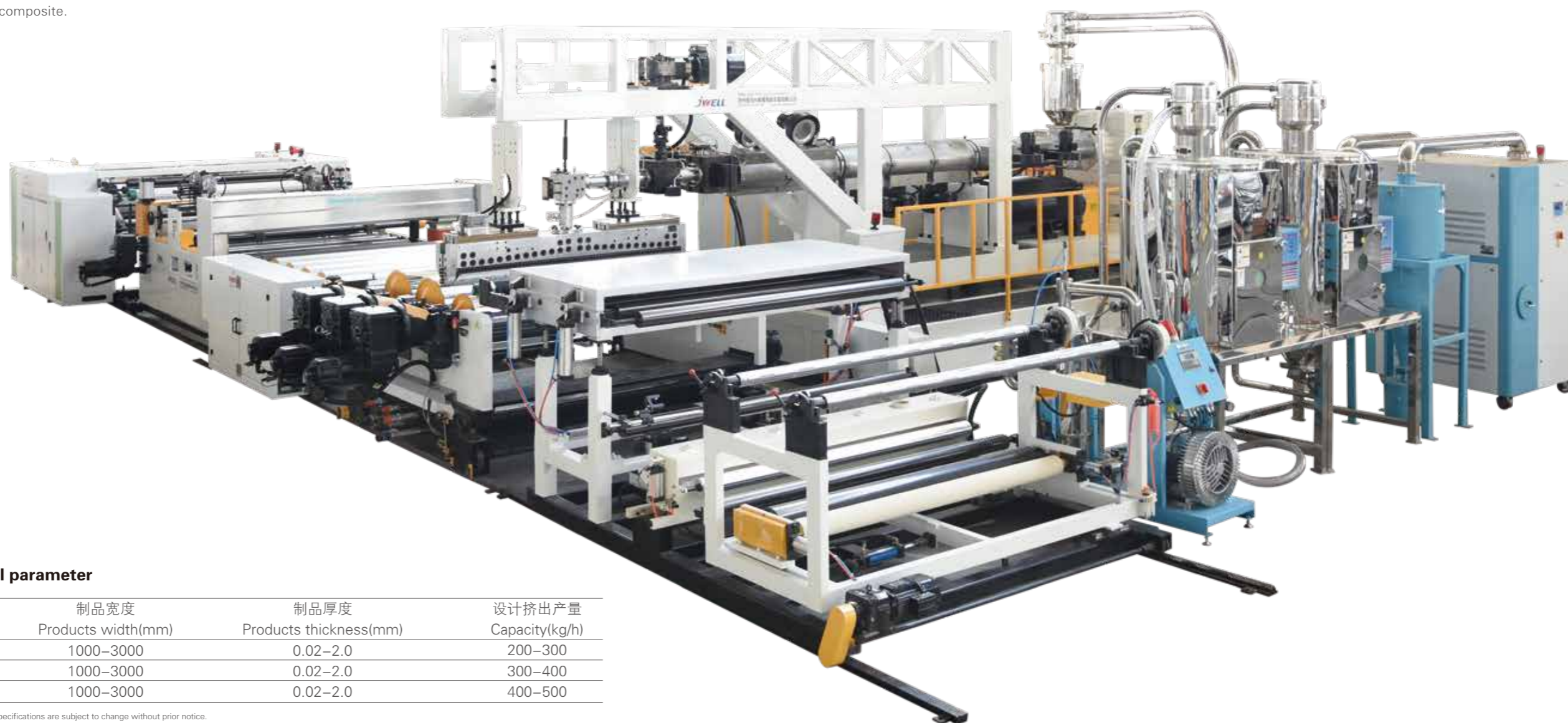
### TPU Film Production Line

**TPU材料**为热塑性聚氨酯，分为聚酯和聚醚两大类型，TPU薄膜拥有卓越的高张力、高弹性、高耐磨和耐老化的特性，并且具有环保无毒、防霉抗菌、生物相容等优良特性，广泛用于鞋材、成衣、充气玩具、水上及水下运动器材、医疗器械、健身器材、汽车座椅材料、雨伞、箱包、包装材料等，并且也可以应用在光学和军工领域。

本生产线采用高速挤出压延、流延成型方式，产品品质优良可控，产品厚度0.01-2.0mm范围，宽度1000-3000mm，适用于各种颜色透明、磨砂、雾面、多层复合的TPU膜片产品系列。

**TPU material** is thermoplastic polyurethane, which can be divided into polyester and polyether. TPU film has excellent characteristics of high tension, high elasticity, high wear resistance and aging resistance, and has the excellent characteristics of environmental protection, non-toxic, mildew proof and antibacterial, biocompatibility, etc. It is widely used in shoes, clothing, inflatable toys, water and underwater sports equipment, medical equipment, fitness equipment, car seat materials, umbrellas, bags, packaging materials, and can also be used in optical and military fields.

This production line adopts high-speed extrusion calendaring and casting. The product quality is excellent and controllable. The thickness of the product is 0.01-2.0 mm, and the width is 1000-3000 mm. It is suitable for TPU film products with transparent color, frosting, fog surface and multilayer composite.



#### 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)
JWS120/36	1000-3000	0.02-2.0	200-300
JWS130/36	1000-3000	0.02-2.0	300-400
JWS150/36	1000-3000	0.02-2.0	400-500

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.



# TPU流延复合生产线

## TPU Casting Composite Film Production Line

**TPU复合面料**就是用TPU薄膜复合在各种面料上形成一种复合材料，结合两者的特性得到一种新型面料，应用于服装鞋材、运动健身器材、充气玩具等各种在线复合类型的材料。

本生产线采用一步法流延复合方式，生产线具备高速自动化功能，实现单面或双面在线复合成型方式，取代传统线下二次、三次的复合的形式，减少产品生产作业工序，大幅降低生产成本和提高生产效率，同时也提高了复合强度和产品质量。

**TPU composite fabric** is a kind of composite material formed by TPU film composite on various fabrics. Combined with the characteristics of the two different materials, a new fabric is obtained, which can be used in various online composite materials such as clothing and footwear materials, sports fitness equipment, inflatable toys, etc.

The production line adopts one-step casting and laminating mode. The production line has high-speed automation function, and realizes single-sided or double-sided online composite forming mode, replacing the traditional offline two-step and three-step composite forming mode, reducing product production process, greatly reducing production cost and improving production efficiency, and at the same time improving composite strength and product quality.



### 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)
JWS120/36	1000-3000	0.02-2.0	200-300
JWS120+JWS75	1000-3000	0.02-2.0	250-350
JWS130/36	1000-3000	0.02-2.0	300-400
JWS150/36	1000-3000	0.02-2.0	400-500

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.



## TPU高低温膜/高弹膜生产线

### TPU High and Low Temperature Film / High Elastic Film Production Line

TPU高低温膜因其柔软、亲肤、高弹性、立体感、使用方便等特性，被广泛应用于鞋材、服饰、箱包、防水拉链等各种纺织面料上，例如：运动鞋业的鞋面、鞋舌标、商标及装饰配件、箱包的背带、反光安全标、LOGO等。

TPU高弹膜因其优良的弹性和粘合强度，广泛应用于高档无痕内衣、无痕运动衣等无缝线车缝的织物面料。

本生产线采用两台或三台挤出机模内共挤的设计，特殊设计的隔温模头，每层温度可自由独立控制，从而实现不同材料、不同工艺温度的一步法共挤方式，满足多种材质的多样化组合产品的生产，解决以往因材料性能和温度差异大，不能同时共挤的局限。

TPU high and low temperature film, due to its soft, skin-friendly, high elasticity, three-dimensional sense, easy to use and other characteristics, is widely used in footwear, clothing, luggage, waterproof zipper and other textile fabrics, such as: sports footwear industry vamp, shoe tongue label, trademark and decorative accessories, luggage strap, reflective safety label, LOGO and so on.

Due to its excellent elasticity and bonding strength, TPU high elastic film is widely used in top-grade seamless underwear, seamless sportswear and other non-sutured fabrics.

The production line adopts two or three extruders with inner co-extrusion design technology die head. Due to a specially designed thermal insulation die head, each layer temperature can be free and independent controlled. In order to reach the one step co-extrusion of different materials or different process temperature materials, meet the production of diversified combination products of various materials and solve the limitation that normal co-extrusion technology can not make such kind film at the same time due to the large difference of material properties and temperature, the temperature of each layer can be controlled independently with this special design of thermal insulation die.



#### 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)
JWS75/JWS120	1000-3000	0.02-2.0	300-350
JWS90/JWS90/JWS90	1000-3000	0.02-2.0	200-300
JWS65/JWS120/JWS65	1000-3000	0.02-2.0	300-400

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.



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