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**创新功能薄膜 智领行业未来**

Innovative Functional Films Shaping  
the Future of Industries

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**薄膜技术指南**

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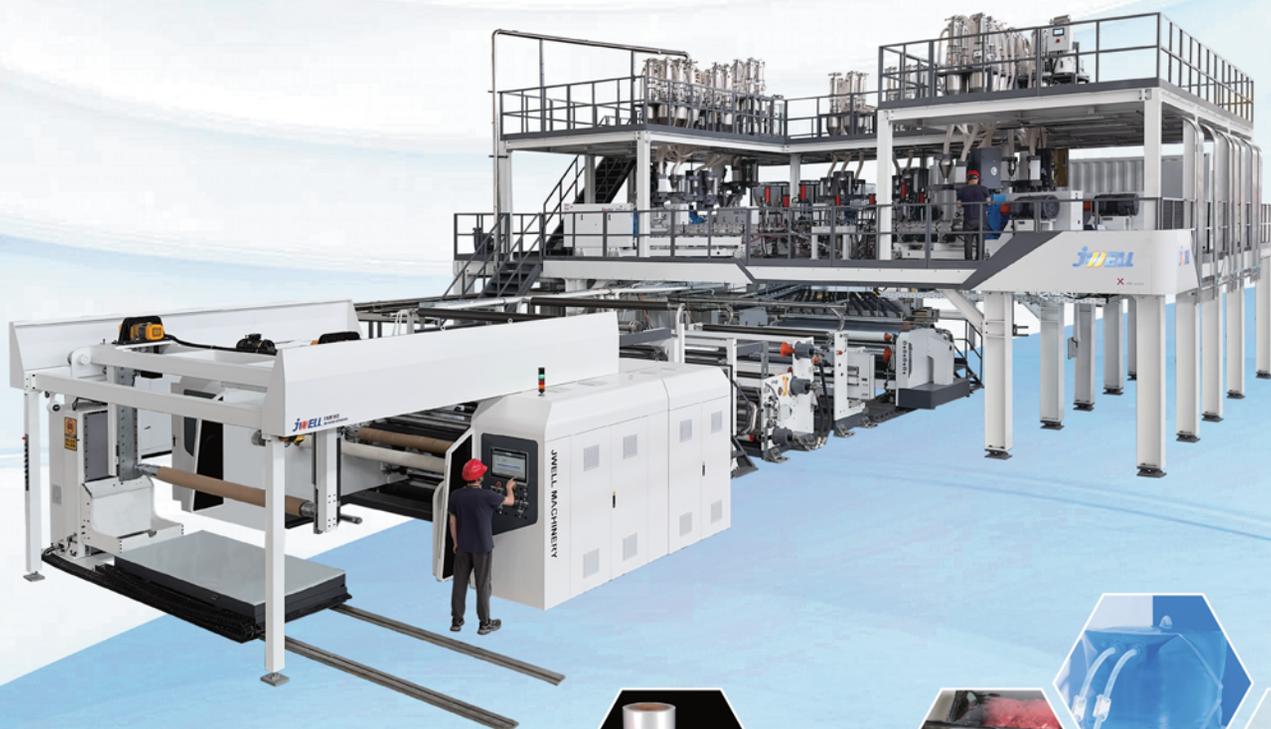
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# 2026年高功能薄膜行业投资发展热点与技术动向

## Market Hotspots and Technological Development Trends in the High-Functional Films Industry in 2026

### LCP液晶聚合物薄膜即将迎来大幅增长 LCP Liquid Crystal Polymer Films

未来6G通信的发展,毫米波的时代即将到来,对LCP薄膜的需求会大幅度增长。预计2031年,全球液晶聚合物(LCP)薄膜市场规模将达到6.35亿美元,年复合增长率(CAGR)为13.5%。高熔点级是最主要的细分产品;天线是最大的下游产品应用市场。

As 6G communications advances, the millimeter wave era is on the horizon, spurring a sharp rise in demand for LCP films. By 2031, the global LCP film market is projected to reach \$635 million, with a CAGR of 13.5%. High-melting-point grade is the top segment, and antennas the largest downstream application.

### 电子皮肤拓展更多交互可能 Electronic Skin for Humanoid Robots

电子皮肤是把机器变成人的核心组件,帮助具身机器人在外观上更接近人类,同时也赋予机器人皮肤所附带的触觉、感知能力,为机器人带来与人类交互的更多可能。

电子皮肤未来的应用主要集中在人形机器人、可穿戴设备、医疗健康监测、智能假肢等领域。

Electronic skin is a core component that bridges the gap between machines and humans. It not only makes humanoid robots look more human-like in appearance, but also endows them with the tactile and sensory capabilities inherent to human skin, unlocking more possibilities for robots to interact with humans.

Future applications of electronic skin will be concentrated in fields such as humanoid robots, wearable devices, medical and health monitoring, and intelligent prosthetics.

### 光学薄膜强劲复苏 Robust Recovery of Optical Films

光电显示领域市场在近两年出现强劲的复苏。2025年9月以来,BOPET光学薄膜的投资再次启动,其中增亮膜的投资项目比较多。

另外汽车用窗膜和建筑用窗膜的市场增长也比较快。

The optoelectronic display market has witnessed a robust recovery over the past two years. Since September 2025, investment in BOPET optical films has resumed, with a notable concentration of investment projects in brightness enhancement films.

In addition, the markets for automotive window films and architectural window films are also experiencing rapid growth.



### 单一材质复合膜应用规模不断壮大 Expanding Application Scope & Rising Demand for Mono-Material Composite Films

国内超百家复合软包装企业推出单一材质包装解决方案及产品,应用于食品、药品、化妆品等领域,得到终端品牌积极采用。其中,单一聚乙烯复合膜袋于2025年规模化应用,2026年应用市场将进一步扩容。

随着国内外BOPE原料与双向拉伸薄膜企业深化合作,将为企业提供更多包装方案,更好满足终端需求。

Over 100 domestic flexible composite packaging enterprises have launched mono-material packaging solutions and products, targeted at fields including food, pharmaceuticals and cosmetics, which have gained active adoption by end-user brands. Among these products, monomaterial polyethylene composite films and bags achieved large-scale application in 2025, and their application market will further expand in 2026.

With deepened cooperation between domestic and overseas BOPE raw material suppliers and biaxially oriented film manufacturers, more packaging solutions will be available for enterprises to better meet end-user demands.

## 光伏用薄膜保持快速增长 Sustained Rapid Growth of PV Films



2025年1-12月,我国太阳能发电装机容量12亿千瓦,同比增长35.4%。

在光伏增长的过程中BOPET背板膜与光伏玻璃的应用推广出现了竞争的迹象,BOPET薄膜需要提高抗老化性能,才能符合光伏寿命的增长需要。

From January to December 2025, the installed capacity of solar photovoltaic power generation in China reached approximately 1,200 GW, a year-on-year increase of 35.4%.

Amid the growth of the PV industry, signs of competition have emerged between the application and promotion of BOPET backsheet films and photovoltaic glass. To meet the demand for extended service life of PV systems, BOPET films need to be upgraded with enhanced anti-aging performance.

Market Trends  
市场趋势

## 储能锂电池带动锂电池行业重回巅峰

### Energy Storage Lithium-Ion Batteries Propel the Lithium Battery Industry Back to Its Peak

受欧洲储能市场爆发、全球 AI 发展电力需求攀升、新能源电站储能配套需求释放及全球能源格局变革驱动,储能用锂电池市场需求激增。

作为其关键材料的锂电池隔膜需求随之爆发式增长,锂电池隔膜工业化大生产的时代即将到来,行业的竞争将从单一的产品竞争,转向包括原辅材料、生产装备、功能涂布、下游用户绑定以及海外市场开拓等方面的综合实力竞争。

Driven by the boom of the European energy storage market, surging power demand from global AI development, unleashed supporting energy storage needs of new energy power stations, and the transformation of the global energy landscape, the demand for lithium ion batteries for energy storage has surged dramatically.

As a key material for energy storage lithium-ion batteries, separators are also experiencing explosive growth. The era of large scale industrial production of lithium-ion battery separators is on the horizon. Competition will shift from a single-dimensional product to a comprehensive strength including raw and auxiliary materials, production equipment, functional coatings, downstream customer binding, and overseas market development.



## 钠离子电池隔膜应用领域广泛 Sodium-Ion Battery Separators

钠离子电池凭借钠资源丰富、成本低廉的特点,成为锂离子电池的重要补充,在储能、低速电动车等领域具有广阔应用前景。钠离子电池隔膜可利用现有锂电池隔膜生产设备加工,工艺和有关参数与锂电池隔膜相近,现有锂电池隔膜企业均有生产和供货能力。

Sodium-ion batteries have emerged as an important supplement to lithium-ion batteries, thanks to the abundant sodium resources and low cost. They boast broad application prospects in energy storage, low speed electric vehicles and other fields. Sodium-ion battery separators can be manufactured using existing lithium battery separator production equipment, with similar processes and relevant parameters. All current lithium battery separator manufacturers possess the production and supply capacity for sodium-ion battery separators.



## 固态电解质膜发展进入务实推进阶段

### Solid-State Electrolyte Membranes Enter a Pragmatic Advancement Phase

固态电解质材料已拓展至氧化物、聚合物、硫化物、卤化物、复合电解质等品类,预计十五五期间将敲定主流材料。

为了配合固态电解质膜的发展,传统锂电池隔膜企业针对半固态、准固态、全固态开发出了不同的辅助产品,提供给固态电解质膜厂家作为辅助材料用于固态电解质膜的生产配套。

Solid-state electrolyte materials have expanded to categories including oxides, polymers, sulfides, halides and composite electrolytes, with the mainstream material expected to be finalized during the 15th Five-Year Plan period.

To keep pace with the development of solid-state electrolyte membranes, traditional lithium battery separator manufacturers have developed various auxiliary products tailored for semi-solid, quasi-solid and all-solid-state batteries, which are supplied to solid-state electrolyte membrane manufacturers as auxiliary materials for production.

## 锂电池用复合集流体将迎来大规模应用

### Composite Current Collectors for Lithium Batteries

2026年7月起,电解液锂电池将会大规模采用复合集流体替代传统的纯铜、纯铝的集流体。同时,固态电池也将采用复合集流体。

2026-2030年复合集流体将迎来大规模应用,行业发展进入快车道。

Starting from July 2026, electrolyte lithium batteries will widely adopt composite current collectors to replace traditional pure copper and pure aluminum current collectors. Meanwhile, solid-state batteries will also utilize composite current collectors.

The period from 2026 to 2030 will witness the large-scale application of composite current collectors, propelling the industry into a fast-growth track.

## 液流电池用质子交换膜极具应用前景

### Proton Exchange Membranes for Flow Batteries

液流电池具有安全性高、寿命长、容量与功率可单独调控等优势,在大规模储能领域极具应用前景。

质子交换膜是液流电池的重要组成部分,开发低成本、高选择性的质子交换膜是液流电池主要的研究方向。

Flow batteries feature high safety, long service life, and independent adjustability of capacity and power, making them highly promising for large-scale energy storage applications.

Proton exchange membranes are a crucial component of flow batteries. Developing low-cost, high-selectivity proton exchange membranes is a primary research direction for flow battery technology.



## 车衣膜市场将持续扩大

### Automotive Paint Protection Film (PPF)

2025年我国车衣膜(PPF)的产量将达到800万卷、产值50亿元人民币,未来随着我国汽车产业的发展和出口的增加,车衣膜的市场规模还将进一步扩大。

In 2025, the output of paint protection film (PPF) in China will hit 8 million rolls, with an output value of 5 billion yuan. Going forward, driven by the development of China's automotive industry and the growth of auto exports, the market scale of PPF will further expand.

来源:北京和生丰茂信息咨询有限公司

Source extracted from Beijing Hesheng Fengmao Information Consulting Co., Ltd.

# BOPP薄膜开发新热点： 新能源领域电容器应用

## Capacitors in The New Energy: A Development Hotspot of BOPP Films

市场洞察  
Market Insights

近年来，新材料、新技术与新产业发展推动聚丙烯薄膜在新能源汽车、光伏、风电、储能等新能源领域增长迅猛，带动上游电容薄膜企业快速发展。

In recent years, the development of new materials and technologies has driven rapid growth in the use of polypropylene film in new energy sectors, such as new energy vehicles, photovoltaics, wind power and energy storage. This expansion has led to accelerated development among manufacturers of upstream capacitor films.

在此背景下，新能源电容器用双向拉伸聚丙烯薄膜的发展已经开始进入爆发期。目前，国内已掀起投资新能源电容器用双向拉伸聚丙烯薄膜的热潮。据高性能薄膜分会掌握的信息，已有超过25家企业投资该薄膜的研发生产，部分企业已实现批量供货。相关薄膜的生产设备、工艺技术和产品质量正在快速提升和完善，已达到大规模生产和广泛应用的标准。

Against this backdrop, the development of biaxially oriented polypropylene (BOPP) films for new energy capacitors has entered a phase of explosive growth. At present, an investment boom in BOPP films for new energy capacitors has emerged across China. According to data compiled by the High-Performance Film Branch, over 25 enterprises have invested in the R&D and production of such films, with some of them having achieved mass supply. The production equipment, process technologies and product quality of these films are being rapidly upgraded and refined to meet the standards required for large-scale production and widespread application.

据行业资讯统计，新能源汽车领域3 $\mu$ m及以下BOPP电容膜的需求量，2024年约8000吨，2025年超过1万吨；风电、光伏领域3~5 $\mu$ m的PP膜的需求量，2024年约1.7万吨，2025年超过2万吨。新能源领域BOPP电容器薄膜的累计市场需求2025年超过4万吨。

Statistics from industry sources show that the demand for 3 $\mu$ m and below BOPP capacitor films in the new energy vehicle sector reached approximately 8,000 tons in 2024 and exceeded 10,000 tons in 2025. For 3~5 $\mu$ m polypropylene (PP) films used in wind power and photovoltaic fields, the demand stood at around 17,000 tons in 2024 and surpassed 20,000 tons in 2025. The cumulative market demand for BOPP capacitor films in the new energy sector exceeded 40,000 tons in 2025.

技术发展方面，新能源领域BOPP电容器薄膜将朝着耐高温、超薄化、高场强方向发展。

In terms of technological development, BOPP capacitor films for new energy applications are evolving towards the directions of high temperature resistance, ultra-thinning and high field strength.

预计到2030年，新能源领域BOPP电容器薄膜的市场需求将达到8万吨，年增速超过15%。

It is projected that by 2030, the market demand for BOPP capacitor films in the new energy sector will hit 80,000 tons, with an annual growth rate exceeding 15%.



# 双拉薄膜技术创新与 细分市场机遇

Technological Innovation and Niche Market  
Opportunities of Biaxially Oriented Films

## 双向拉伸薄膜 重塑包装产业新格局

Biaxially Oriented Films  
Reshape the New Landscape of Packaging Industry

在包装行业的创新浪潮中，双向拉伸薄膜凭借其独特的性能优势，正成为推动产业升级的关键材料，在多个领域引发深刻的变革。

Amid the wave of innovation in packaging industry, biaxially oriented films are emerging as a key material driving industrial upgrading, sparking profound transformations across multiple sectors.

### 食品包装领域的透明守护者 Transparent Guardians in Food Packaging

在食品包装行业，双向拉伸聚丙烯薄膜 (BOPP) 和双向拉伸聚酯薄膜 (BOPET) 正成为主流选择。BOPP 薄膜的高透明度、优异光泽度和良好阻湿性，让零食、糖果等产品在货架上脱颖而出。而BOPET 薄膜的高强度和阻隔性，则为咖啡、干果等需要保鲜的产品提供了可靠保护。

In the food packaging sector, BOPP (Biaxially Oriented Polypropylene) films and BOPET (Biaxially Oriented Polyethylene Terephthalate) films have become mainstream choices. Boasting high transparency, excellent glossiness and good moisture resistance, BOPP films make snacks, candies and other products stand out on store shelves. Meanwhile, BOPET films, with their high strength and superior barrier properties, provide reliable protection for perishable products such as coffee and dried fruits.

### 电子工业的精密封装专家 Precision Encapsulation Experts in Electronics Industry

BOPET薄膜因其优异的尺寸稳定性和绝缘性能，被广泛用于电路板、电子元件的包装保护。薄膜的均匀厚度和卓越机械性能，确保了精密部件在运输过程中的绝对安全。

Thanks to their outstanding dimensional stability and insulating properties, BOPET films are widely used in the packaging and protection of circuit boards and electronic components. The uniform thickness and excellent mechanical performance of the films ensure the absolute safety of precision parts during transportation.





## 医药包装的安全屏障 Safety Barriers in Pharmaceutical Packaging

BOPET与铝箔的复合薄膜创造了高效的阻隔包装，能够有效防止药品受潮、氧化，确保药品在整个保质期内保持稳定。这种多层复合结构的创新应用，正在重新定义医药包装的安全标准。

Composite films made of BOPET and aluminum foil create high-efficiency barrier packaging, which can effectively prevent medicines from moisture and oxidation, and ensure the stability of medicines throughout their shelf life. The innovative application of this multi-layer composite structure is redefining the safety standards of pharmaceutical packaging.



## 可持续包装的革新力量 An Innovative Force for Sustainable Packaging

面对全球环保趋势，双向拉伸薄膜正在向绿色化发展。更薄的厚度实现同等保护功能、可回收设计的创新、生物基材料的应用探索，这些技术进步正帮助包装行业在功能与环保之间找到新的平衡点。

双向拉伸薄膜通过持续创新满足多元化包装需求。从原材料供应商到薄膜生产商，从设备制造商到终端用户，整个产业链的紧密协作正在推动这一领域向更高性能、更环保、更经济的方向发展。

In response to the global trend of environmental protection, biaxially oriented films are evolving towards green development. Technological advances—such as achieving equivalent protective functions with thinner film thickness, innovative recyclable designs, and the exploration of bio-based material applications—are helping packaging industry strike a new balance between functionality and environmental friendliness.

Biaxially oriented films meet diversified packaging needs through continuous innovation. From raw material suppliers and film manufacturers to equipment producers and end users, close collaboration across the entire industrial chain is driving this sector towards higher performance, greater environmental sustainability and better cost-effectiveness.



# 薄膜技术 亮点

## Film Tech Highlights

高性能薄膜材料及前沿应用  
High Functional Film Materials  
and Cutting edge Applications

- #先进聚合物与特种功能膜
- #新能源与光电薄膜
- #生物基与绿色可持续薄膜
- #Advanced Polymers & Specialty Functional Films
- #New Energy & Optoelectronic Films
- #Bio based & Sustainable Films

## 非植入性药物接触薄膜 VICTREX PC™101 Pharmaceutical Contact Films for Non-implantable Applications

专为给药及制药接触应用开发的全新牌号 VICTREX PC™101, 以 PEEK 为基材, 符合美国药典 (USP) VI 级生物相容性认证及 USP 661 等行业标准, 适用于非植入性药物接触应用。材料提供颗粒与薄膜两种形态, 可为制药企业和给药装置制造商提供可靠解决方案, 提升产品价值。

**应用领域: 医疗健康**

VICTREX PC™ 101 is a new grade developed specifically for drug delivery and pharmaceutical contact applications. Based on PEEK, it meets the highest level of biocompatibility certification, USP Class VI, as well as industry standards such as USP 661, making it suitable for non-implantable pharmaceutical contact applications. Available in both granule and film forms, it provides pharmaceutical manufacturers and drug delivery device producers with a reliable material solution that enhances product value.

**Application: Medical & Healthcare**



7.2B01

威格斯高性能材料贸易(上海)有限公司

VICTREX MANUFACTURING LTD. SHANGHAI OFFICE



## Elastollan® Freeflex™ 防水透气冲锋衣 Waterproof and Breathable Jacket



一种无氟耐用防水透气解决方案, 使用此材料可使成衣具有优异的透湿性和防水性, 并且更环保。

**应用领域: 运动及休闲·纺织·成衣及服饰**

A non-PFC durable breathable-waterproof solution. Garments made with this material offer excellent moisture permeability and waterproof performance, while being more environmentally friendly.

**Application: Sports & Leisure · Textile, Apparel & Accessories**



7.2C41

巴斯夫(中国)有限公司

BASF (CHINA) CO., LTD.

## 创新单一PE材质冷冻包装 Innovative Full PE Frozen Food Packaging

该创新解决方案利用埃克森美孚星标聚合物(包括埃奇得™ Tough+和埃思超™ Seal高性能聚乙烯树脂), 通过去除 PA 实现软包装单一化, 达到提高包装可回收性的目的, 并保证了优良的包装完整性和包装走机性, 减少在低温储存和运输过程中的破包损失。

**应用领域: 食品饮料·冷冻包装**

This innovative solution utilizes ExxonMobil Signature Polymers, including Exceed™ Tough+ and Extra™ Seal high-performance polyethylene resin, achieving soft packaging simplification by removing PA, improving packaging recyclability, while ensuring excellent packaging integrity and machinability, and reducing package damage during low-temperature storage and transportation.

**Application: Food & Beverage · Frozen Packaging**



6.2C31

埃克森美孚化工亚太区

EXXONMOBIL CHEMICAL ASIA PACIFIC

**Anteo™ FK1510/FK1516 新一代 高性能双峰三元 聚乙烯在塑料软包装的应用**  
**New Generation High Performance Bimodal Terpolymer Polyethylene for Plastic Flexible Packaging Applications**



Anteo™高性能聚乙烯 (PE) 适用于多种柔性包装应用。凭借卓越的加工性、力学性能, 以及出色的封口能力和光学表现, 被广泛应用于包装、农业以及工业等多个关键领域。独有的Borstar®双峰技术结合先进的催化剂设计, 促成了新一代双峰三元共聚物的开发, 带来了优异的性能组合, 为整个产业链创造了显著优势。

**应用领域: 食品饮料·农业·工业**

Anteo™ high-performance polyethylene (PE) is suitable for a wide range of flexible packaging applications. With excellent processability, mechanical strength, outstanding sealing performance, and good optical properties, it is widely used in key sectors such as packaging, agriculture, and industry. The unique Borstar® bimodal technology, combined with advanced catalyst design, has enabled the development of a new generation of bimodal terpolymer, delivering an exceptional combination of properties and creating significant advantages across the entire value chain.

**Application: Food & Beverage · Agriculture · Industry**



6.2C32  
 博禄  
 BOROUGE PTE LTD



Film Tech Highlights  
 薄膜技术亮点



**NatureWorks的Ingeo™ PLA与CJ生物的非晶PHACT™ PHA共同开发可持续的创新包装应用**  
**New Sustainable Packaging Solutions Using Ingeo™ PLA from NatureWorks and Amorphous PHACT™ PHA from CJ**

NatureWorks和CJ Biomaterials合作开发生物基低碳解决方案, 将Ingeo™ PLA与非晶PHACT™ PHA相结合, 以扩大可堆肥的柔性包装以及食品餐具应用的性能属性。新的解决方案也旨在加速生物降解, 以带来更多符合循环经济原则的“使用后”回收处理方式。

**应用领域: 食品饮料·可持续包装**

The joint development between NatureWorks and CJ Biomaterials is focusing on developing biobased, low carbon solutions that combine Ingeo™ PLA with amorphous PHACT™ PHA in order to broaden the performance attributes available for compostable flexible packaging and food serviceware applications. The new solutions will also aim to speed up biodegradation to introduce more “after-use” options consistent with a circular economy model.

**Application: Food & Beverage · Sustainable Packaging**



1.2D58  
 NATUREWORKS, LLC.



**新一代低碳 LCP 材料 Vicryst® LCP CER-B 的创新开发**  
**Development of a New Generation of Low Carbon Emission LCP Materials**

通过质量平衡法, 材料可再生成分占比最高达70%, 碳足迹减少30%以上, 同时保持与传统石油基LCP完全一致的性能, 实现环保与性能的平衡。

**应用领域: 电子电气·信息技术**

The developed new generation of the low-carbon-emission Vicryst® LCP CER-B, based on the mass balance method, possesses at least 70% renewable component and contributes to at least 30% carbon emission reduction. Meanwhile, Vicryst® LCP CER-B maintain the same property and performance as the traditional oil based LCP material. In this way, it works better to keep a balance between the environmental protection and properties of material.

**Application: Electronics & Electric · Information Technology**



7.2C66  
 金发科技股份有限公司  
 KINGFA SCI. & TECH. CO., LTD.



## BioCote® 薄膜抗菌防护添加剂 Antimicrobial Protective Additives for Films

BioCote® 技术可在 PE、PP、PVC、PET、PS 单层及多层薄膜挤出中集成，实现永久抗菌防护，减少细菌霉菌高达99.9%，同时保持高透明度和拉伸强度，无变色。提升薄膜表面防护功能，减少异味与污渍，适用于无菌包装袋、托盘盖膜、器械包覆膜及食品保鲜等新兴应用，延长保质期并提升材料价值。

**应用领域：抗菌包装**

BioCote® technology can be incorporated into single and multi-layer PE, PP, PVC, PET, and PS films during extrusion to provide permanent antimicrobial protection, reducing bacteria and mould by up to 99.9% while maintaining high clarity and tensile strength without discolouration. It enhances film surfaces, reduces odours and stains, and is ideal for sterile pouches, tray lids, instrument wraps, and food preservation applications, extending shelf life and adding material value.

**Application: Antimicrobial Packaging**



2.1B98  
BIOCOTE LIMITED

## Sepuran® Noble 氢气/氦气气体分离膜 Hydrogen/Helium Gas Separation Membrane

Sepuran® Noble 是一种专为氢气/氦气回收和纯化而开发的气体分离膜，即使在氢气/氦气的入口浓度非常低的情况下也能高效生产高纯度的氢气/氦气。

**应用领域：新能源·气体分离**

Sepuran Noble is a gas separation membrane developed for hydrogen/helium recovery and purification enabling highly pure hydrogen/helium to be efficiently produced even when inlet concentrations of hydrogen/helium are very low.

**Application: New Energy · Membrane Separation**



7.2C31  
赢创特种化学(上海)有限公司  
EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.



## GEON® POLYMAX 防水卷材 Waterproof Coil

适用于建筑墙体、屋面、隧道、公路等的柔性防水建材，有效抵御雨水和地下水渗漏。具有优异的耐水耐候性，耐高温可达100°C不变形，机械强度高、低温柔韧、施工便捷，回弹率超过80%，不含有害物质，符合RoHS、PAHs、REACH认证，挤出加工稳定，广泛应用于各类工程防水应用。

**应用领域：建材与基建**

Suitable for walls, roofs, tunnels, highways, and other construction applications, this flexible waterproof material effectively resists rain and groundwater leakage. It offers excellent water and weather resistance, maintains its shape up to 100°C, provides high mechanical strength, good low-temperature flexibility, easy installation, and over 80% resilience. Free of harmful substances, it meets RoHS, PAHs, and REACH certifications, with stable extrusion performance, making it ideal for diverse waterproofing applications.

**Application: Building & Infrastructure**



6.2B72  
南通普利马弹性体技术有限公司  
NANTONG POLYMAX ELASTOMER TECHNOLOGY CO., LTD.

## Graphanced® 柔性包装的未来 The Future of Flexible Packaging

使用石墨烯作为添加剂,相比传统填料薄膜,可使撕裂强度提升>25%、断裂伸长率>35%、拉伸强度>75%。在适量添加下,薄膜可减薄并提升耐久性,同时保持结构完整。Graphanced® 作为新一代石墨烯母料,可降低原料用量、改善再生料加工性能、减少浪费并提升薄膜耐用性,助力更可持续的柔性包装。

**应用领域: 可持续包装·高阻隔包装**

Graphene as an additive in polyolefin films can boost tear strength >25%, elongation at break >35%, and tensile strength >75% compared with conventional filler films. At modest loadings, films can be downgauged while improving durability and maintaining integrity. Graphanced® next-generation graphene masterbatch also reduces raw material use, enhances recycled material processing, minimizes waste, and supports more sustainable flexible packaging.

**Application: Sustainable Packaging · High Barrier Packaging**



8.2F27

高莱塑料(苏州)有限公司

COLLOIDS PLASTIC (SUZHOU) CO., LTD.



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Film Tech Highlights  
薄膜技术亮点

## 环保型 PCR 可回收热收缩膜 Recyclable-Shrinkable Films With PCR Content

采用生产过程中加入 30%以上 PCR 可回收原料,实现聚酯切片循环利用,在节能降耗、废塑料再利用及减排方面效果显著。薄膜性能与常规 PETG 收缩膜一致,PCR 含量可按需求定制,广泛适用于饮料、洗化、乳制品等瓶型,尤其适合异形瓶盖标签,助力绿色环保包装。

**应用领域: 食品饮料·日化**

By incorporating more than 30% PCR recycled content into the production process, this film enables polyester chip circularity and delivers measurable benefits in energy savings, waste plastic reuse, and emission reduction. It offers performance comparable to conventional PETG shrink film, with customizable PCR content to meet customer needs. Widely used for sleeve labels on various bottle types—especially irregular shapes—in beverage, personal care, and dairy packaging, it supports environmentally friendly packaging solutions.

**Application: Food & Beverage · Daily Chemicals**



## TAIPOL SEBS 6052在卫材薄膜上的应用 Application in Hygiene Elastic Films

TAIPOL® 6052以高流动性、低苯乙烯含量及多功能性脱颖而出,是追求更加流动性、透明度与弹性的应用的理想材料。用此材料做出的卫材弹性薄膜,可在较低温度下高效运作,节省能源,并具有优异的拉伸性能,同时兼具硬度与弹性。

**应用领域: 医疗健康**

TAIPOL® 6052 stands out for its high flowability, low styrene content, and versatility, making it an ideal material for applications requiring enhanced fluidity, transparency, and elasticity. Hygiene elastic films made from this material can be efficiently processed at lower temperatures, saving energy, while delivering excellent tensile performance and a balanced combination of hardness and elasticity.

**Application: Medical & Healthcare**



4.2G35

河南银金达新材料股份有限公司

YINJINDA FILM CO., LTD.



6.2C02

台橡股份有限公司

TSRC CORPORATION

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## BOPP防雾保鲜膜 Anti-Fog BOPP Films

产品具有优异的防雾性能,能防止水汽在薄膜表面结雾而影响透明度,利于生鲜产品的展示性包装;良好的抗菌性能和阻隔性能,有效保障生鲜产品的新鲜品质;抗静电能力强,爽滑性能优异,加工适应性极好。

**应用领域: 食品饮料·防雾包装**

The product has excellent anti-fog performance, preventing water vapor from fogging on the film surface and affecting transparency, which is beneficial to the display packaging of fresh products; good antimicrobial performance and barrier performance, effectively ensuring the fresh quality of fresh products; strong antistatic ability, excellent smooth performance, and excellent processing adaptability.

**Application: Food & Beverage · Anti Fog Packaging**

# 13



4.2G29  
福融新材料股份有限公司  
FOROP ADVANCED MATERIALS CO., LTD.



## 不含 PFAS 的聚合物加工助剂组合物 PFAS-Free Polymer Processing Aid Compositions

该产品不含无机物、硅酮及 PFAS,可消除熔体破裂和鲨鱼皮效应,提升生产线效率,同时保证薄膜雾度、透光率和透明度,且对机械和密封性能无负面影响。极低迁移、高热稳定性,使其成为传统含氟 PPA 的安全可持续替代品,低添加量降低成本,符合各项法规,广泛适用于食品接触及包装领域。

**应用领域: 食品饮料·包装**

This PFAS-free product contains no inorganic or silicone components and eliminates melt fracture and shark skin effects, boosting production efficiency while maintaining film clarity, haze, and mechanical integrity. With high thermal stability and minimal migration, it is a safer, sustainable alternative to fluorinated PPAs, cost-efficient at low let-down ratios, regulatory compliant, and ideal for food contact and packaging applications.

**Application: Food & Beverage · Packaging**

# 14



8.2F32  
科莱恩化工科技(上海)有限公司  
CLARIANT CHEMICALS TECHNOLOGY (SHANGHAI) LTD.

## 医用聚四氟乙烯高强膜 Medical PTFE High Strength Membrane

膨体聚四氟乙烯微孔膜具有独特的结构和性能,生物相容性良好,同时具有在软组织内即可制动又较易取出的特点,非常适合做脏器修补材料和整形外科材料。

**应用领域: 医疗健康**

EPTFE membrane has a unique structure and properties, good biocompatibility, and the characteristics of being able to brake in soft tissues and easy to remove, making it very suitable for organ repair materials and plastic surgery materials.

**Application: Medical & Healthcare**



4.2E107  
山东森荣新材料股份有限公司  
SHANDONG SENRONG NEW MATERIALS CO., LTD.

# 15



## MDOPE-E 薄膜 MDOPE-E Films

具有氧气透过率 (OTR) 低于1的特性, 可实现高阻隔单材质PE结构, 它的弹性特性, 也可用于需要高阻隔和出色抗跌落性能的应用。

**应用领域: 可持续包装·食品饮料·日化**

It features an Oxygen Transmission Rate (OTR) below 1 and enables high barrier mono-material PE structures. It also utilizes its elasticity properties and can serve in applications that require high barriers and excellent drop resistance.

**Application: Sustainable Packaging · Food & Beverage · Daily Chemicals**



4.2E08  
广东拓普斯新材料有限公司  
TOPESOL CO., LTD.

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Film Tech Highlights  
薄膜技术亮点

## 量子点复合膜 Quantum Dot Composite Films

该产品是一种具有色域增强、增亮、光扩散等作用的多功能光学复合膜。搭配蓝光 LED 芯片、蓝白光 LED 芯片 (KSF 灯), 蓝光 Mini/Micro LED 芯片等光源, 应用于背光模组。是现有 LCD 背光模组用光学膜片的变革性升级, 可有效缓解终端客户繁琐组装压力及生产成本。

**应用领域: 电子电气·信息技术**

This product is a multi-functional optical composite film with functions such as color gamut enhancement, brightening, and light diffusion, paired with blue light LED chips, blue white LED chips (KSF lights), blue Mini/Micro LED chips, and other light sources, applied to back light modules. It is a revolutionary upgrade of the optical film used for the existing LCD back light module, which can effectively alleviate the tedious assembly pressure and reduce the production costs of end customers.

**Application: Electronics & Electric · Information Technology**



4.2A06  
南京贝迪新材料科技股份有限公司  
NANJING BREADY ADVANCED MATERIALS TECHNOLOGY (GROUP) CO., LTD.



## PE微晶点保护膜 PE Micro-embossed Protective Films

微晶点保护膜是一种光学级保护膜, 主要用于感光干膜制程中的过程保护。该产品对晶点数量控制极为严格, 可满足多种光学级产品的应用需求, 具有晶点总数极低、平整度高且不易起皱、表面光滑易开卷、洁净度超高等特点, 并可根据需求提供电晕处理、无电晕或单面电晕处理。

**应用领域: 电子电气·信息技术**

Micro-embossed protective film is an optical-grade film for in-process protection of photosensitive dry films. With stringent control of micro-dots, it meets various optical-grade application requirements, featuring ultra-low dot count, excellent flatness, smooth unwinding, and ultra-high cleanliness, and is available with corona, non-corona, or single-side corona treatment.

**Application: Electronics & Electric · Information Technology**



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4.2F03  
江门市华龙膜材股份有限公司  
JANGMEN HUALONG MEMBRANE CO., LTD.

## 智能光控隔热膜 Smart Optical-Controlled Window Films



4.2E24  
广东万顺科技有限公司  
GUANGDONG WANSHUN TECHNOLOGY CO., LTD.

智能光控隔热膜可随光照强弱自动调节透光率，高效阻隔紫外线与红外热量，在保持清晰视野的同时实现隔热节能，适用于汽车玻璃与建筑玻璃，提升使用舒适性 with 能源效率。

**应用领域: 建材与基建 · 汽车**

Smart Optical-Controlled Window Films automatically adjust light transmittance according to sunlight intensity, effectively blocking UV and infrared heat while maintaining clear visibility. They are widely used in automotive and architectural glazing to enhance comfort and energy efficiency.

**Application: Building & Infrastructure · Automotive**

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## 用于血透膜的 PARYLS® 聚砜 PSU Polysulfone (PSU) for Hemodialysis Membrane

材料具有良好的实际韧性和优异的耐化学腐蚀性能，兼具高刚性、高强度和半韧性特征，同时保持良好的透明度。与聚碳酸酯 (PC) 相比，其耐热性能更优，水解稳定性更高。即使在蒸汽或其他消毒环境下使用，仍能较好地保持原有的机械性能。

**应用领域: 医疗健康**

A rigid, high-strength, semi-tough, and transparent plastic with excellent practical toughness and chemical resistance. Compared with polycarbonate (PC), it offers higher heat resistance and superior hydrolytic stability, maintaining its mechanical properties even under steam or other sterilization conditions.

**Application: Medical & Healthcare**



7.2C91  
广东优巨先进新材料股份有限公司  
GUANGDONG YOUJU ADVANCED NEW MATERIALS CO., LTD.



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## Amberane®光子晶体薄膜 Photonic Crystal Films

Amberane®光子晶体薄膜是一种基于结构色原理的全新高分子聚合物薄膜材料。它无需任何颜料或染料，通过选择性反射特定波长的光线，呈现出独特的色彩效果。

**应用领域: 运动及休闲 · 汽车 · 电子电气**

Amberane® photonic crystal films is a novel polymeric film material based on the principle of structural color. Without the need for any pigments or dyes, it exhibits coloration by selectively reflecting specific wavelengths.

**Application: Sports & Leisure · Automotive · Electronics & Electric**



4.2H87  
珠海光驭科技有限公司  
PHOMERA METAMATERIALS INC.

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# 22

## 用于家具装饰的肤感PVC真空压膜 Soft Touch Skin Feeling PVC Film Vacuum Press Membrane for Furniture

肤感层压膜是一种具有柔软和天鹅绒手感的热层压膜，表面耐磨。适用于单面或双层面压，凭借其出色的触感，呈现令人愉悦的天鹅绒般效果，类似于桃皮。广泛应用于门板、家具、墙板、橱柜、踢脚板及家居装饰等领域，为产品增添高端质感。

**应用领域: 建材与基建**

Soft-touch lamination film is a thermal lamination film with a soft, velvety feel and wear-resistant surface. Suitable for single- or double-side lamination, it delivers a pleasant, peach-skin-like texture that enhances and protects the appearance of laminated products. Widely used in doors, furniture, wall panels, kitchen cabinets, baseboards, and home décor, it adds a premium tactile quality to a variety of applications.

**Application: Building & Infrastructure**



4.2A29  
青岛优力科新材料有限公司  
QINGDAO UNIQUE NEW MATERIAL  
CO., LTD.

Film Tech Highlights  
薄膜技术亮点



# 23

## BOPP超薄电容器膜 Biaxially-oriented Polypropylene Ultrathin Capacitor Films

具有自愈性、绝缘阻抗高、介质损耗小、介电强度高、使用寿命长、频率特性优异等优点。

**应用领域: 新能源汽车 · 5G 通信 · 光伏储能**

It has the advantages of self-healing, high insulation impedance, low dielectric loss, high dielectric strength, long service-life, excellent frequency characteristics.

**Application: New Energy Vehicles · 5G Communications · Photovoltaic & Energy Storage**



4.2F23  
浙江创富新材料有限公司  
ZHEJIANG TRIUMPH NEW MATERIAL CO., LTD.

## 燃料电池用质子交换膜 Proton Exchange Membrane for Fuel Cell

质子交换膜 (PEM) 是一种半透膜，通常由离聚物制成，设计用于传导质子，同时充当电子绝缘体和反应物屏障，当其被集成到质子交换膜燃料电池或质子交换膜电解槽的膜电极组件 (MEA) 中时，可实现反应物的有效分离、质子的高效传输，并阻断电子直接穿过膜的路径。

**应用领域: 绿色能源 · 新能源汽车**

A proton-exchange membrane (PEM) is a semipermeable membrane, typically made from ionomers, designed to conduct protons while serving as an electronic insulator and reactant barrier. When integrated into the membrane electrode assembly (MEA) of a proton-exchange membrane fuel cell or electrolyser, it enables effective separation of reactants, efficient proton transport, and blocks a direct electronic pathway through the membrane.

**Application: Green Energy · New Energy Vehicles**



# 24



8.2H17  
赤壁云天新材料技术有限公司  
CHIBI YUNTIAN NEW MATERIALS TECHNOLOGY CO., LTD.

## 光学薄膜色母粒 Optical Film Color Masterbatch

# 25

光学薄膜色母粒是一种专为光学级薄膜设计的高分子材料着色剂,通过将高纯度颜料或染料与载体树脂、分散剂及功能助剂精密复配而成,主要用于赋予薄膜特定颜色并优化其光学性能。

**应用领域: 电子电气·信息技术**

Optical Film Color Masterbatch is a specialized polymeric material colorant designed for optical-grade films. It is formed through the precise compounding of high-purity pigments or dyes with carrier resins, dispersants, and functional additives. Its primary functions are to endow films with specific colors and optimize their optical properties.

**Application: Electronics & Electric · Information Technology**



8.2B41

深圳市金志成塑胶科技有限公司  
SHENZHEN JINZHICHENG PLASTIC PIGMENT  
(COLOR MASTERBATCH) CO., LTD.



Film Tech Highlights  
薄膜技术亮点



## HPM (高性能光学薄膜材料) HPM (High-Performance Optical Film Material)

HPM (高性能光学薄膜材料)是一种由特种树脂开发的高级改性产品,展现出卓越的耐热性、高纯度、低吸湿性和长期可靠性,特别适用于车载HUD系统的极端环境需求。其性能优于标准等级,尤其在耐CaCl<sub>2</sub>方面表现出色,适用于高机械负荷和化学腐蚀的场景。

**应用领域: 汽车·电子电气**

HPM (High-Performance Optical Film Material) is an advanced modified product developed from specialty resins, exhibiting excellent heat resistance, high purity, low moisture absorption, and long-term reliability. It is particularly suited for the extreme environmental demands of automotive HUD (Head-Up Display) systems. Its performance surpasses standard grades, especially in resistance to CaCl<sub>2</sub>, making it ideal for scenarios involving high mechanical loads and chemical corrosion.

**Application: Automotive · Electronics & Electric**



8.2K02

拓烯科技(衢州)有限公司  
TOPOLEFIN TECHNOLOGY (QUZHOU) CO., LTD.

# 26

## 可用于户外装备的 无孔防水透气膜 Breathable Waterproofed Films for Outdoor Equipment

产品具有超柔软、超轻薄、耐高低温等优势性能,最薄可以做3微米,耐温范围-50-230度;也可根据客户的要求增加耐水解,阻燃等个性化功能,或变换颜色如灰色,粉色,白色,还可以进行印花,在功能基础上增加时尚元素,让单调的功能材料看起来多姿多彩。

**应用领域: 运动及休闲·纺织、成衣及服饰**

The products feature advantages such as ultra softness, ultra-light thinness, and resistance to high and low temperatures. The thinnest can be made to 3 microns, with a temperature resistance range of -50 to 230 degrees Celsius. According to customer requirements, personalized functions such as hydrolysis resistance and flame retardancy can be added, or colors such as gray, pink, and white can be changed. Printing can also be applied to add fashion elements on the basis of functionality, making functional materials more colorful.

**Application: Sports & Leisure · Textile, Apparel & Accessories**



6.2B17

佛山佛塑科技集团股份有限公司  
FSPG HITECH CO., LTD.



# 27

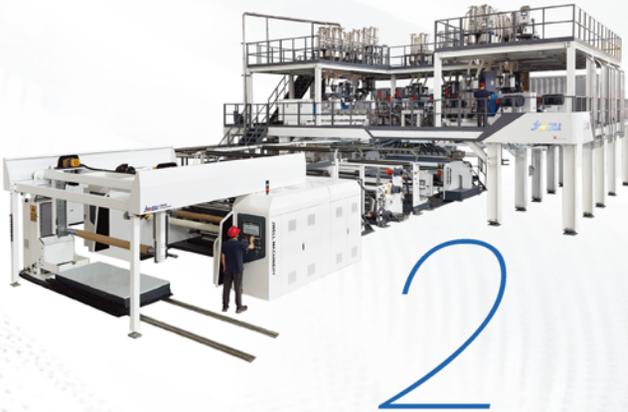
# 薄膜技术 亮点

## Film Tech Highlights

薄膜加工装备及数智化生产线  
Film Processing Machinery and  
Digital Intelligent Production Line

#特种薄膜高端智能生产线  
#一体化精密模头  
#超宽幅原膜分切设备  
#Specialty Film High end Intelligent  
Production Line  
#Integrated Precision Die  
#Ultra Wide Primary Slitter

### X-line系列高阻隔流延膜生产线 X-line Series High-Barrier Cast Film Production Line



JWELL FILMTEC 提供的X-line系列生产线,最高可生产11层高阻隔流延膜。该设备适应性强,针对不同牌号的PE、PP、PA、EVOH等原料进行特殊优化。不但能提高产量和塑化效果,同时也兼具能耗经济性。

**应用领域: 绿色包装**

The X-line series extrusion lines offered by JWELL FILMTEC are capable of manufacturing high-barrier cast films with a maximum of 11 layers. Boasting strong adaptability, the line is specially optimized for processing various grades of raw materials including PE, PP, PA and EVOH. Not only enhance extrusion capacity and plasticizing efficiency, but also deliver outstanding energy-saving performance and economic efficiency.

**Application: Green Packaging**



3C29  
浙江金纬片板膜设备制造有限公司  
ZHEJIANG JWELL SHEET & FILM EQUIPMENT CO., LTD.

### 五层共挤冷拉伸套管膜机组 Five-layer Co extrusion Cold Stretch Shrink Film Unit



产能优势: 相较传统冷拉伸套管膜生产线,本机产能从 100-200kg/h 跃升至400-500kg/h,单位重量耗电量降幅超30%,显著降低制品厂生产与人工成本。

性能优势: 五层共挤技术赋能薄膜物理性能全面升级,抗冲击强度提升30%,耐摔性与低温适应性更强,大幅降低各环节故障率,从源头规避成本风险。

**应用领域: 绿色包装**

Capacity Advantages: Compared with traditional cold stretch shrink film production lines, this unit boosts capacity sharply from 100-200kg/h to 400-500kg/h. Power consumption per unit weight is reduced by over 30%, significantly cutting production and labor costs for manufacturers.

Performance Advantages: Empowered by five-layer co-extrusion tech, the film's physical properties are fully upgraded. Its impact strength is increased by 30%, with better drop resistance and low-temperature adaptability, greatly reducing failure rates in all processes and avoiding cost risks at the source.

**Application: Green Packaging**



3C36  
广东科达达机械科技有限公司  
GUANGDONG COSTAR MACHINERY TECHNOLOGY CO., LTD.

### Filmex II 上的模头智能控制向导 Intelligent Die Control Wizard for Filmex II

DIE CONTROL WIZARD (DCW) 在 Filmex II 上实现模头控制的完全自动化,无需人工调节模头螺栓,可在复杂配方切换后启动,能应对大范围的厚度变化,支持膜幅宽度的自动化切换,全流程均由系统自动完成。DCW可提供市场上响应最快、重复性最优的厚度轮廓控制性能,目前全球装机量已超 100 套,相较传统解决方案,最多可减少 70% 的废料产生与换产耗时。

**应用领域: 绿色包装 · 人工智能**

The DIE CONTROL WIZARD (DCW) enables fully automatic die control without any manual die adjustment, e.g. for startup after complex recipe-, or major gauge changes and even for a width change. With more than 100 systems sold worldwide, this market's fastest and most reproducible profile control saves up to 70% of waste and time, compared with conventional solutions.

**Application: Green Packaging · AI**



2.1G61  
WINDMÖLLER & HÖLSCHER SE & Co. KG

## 五层共挤智能控制吹膜生产线 Five-layer Co-extrusion Blown Film Production Line with AI Control System



生产线配备智能控制系统，操作便捷且控温、精准控厚。采用优化螺杆挤出与五层共挤技术，稳定高产且兼顾效率与品质。进口精密模具保障薄膜优质成型，宽幅适配灵活，可满足多元生产需求。

**应用领域：绿色包装·医疗健康·生态农业·时尚家居**

The Line is equipped with an intelligent control system, offering convenient operation and precise temperature and thickness control. It utilizes optimized screw extrusion and five-layer co-extrusion technology, ensuring high and stable production while balancing efficiency and quality. Imported precision molds and air ring guarantee high-quality film formation.

**Application: Green Packaging · Medical & Healthcare · Eco-agriculture · Lifestyle**



3F67

河北诚恒塑料机械科技有限公司

HEBEI CHENGHENG PLASTIC MACHINERY TECHNOLOGY CO., LTD.

## EVO 第三代吹膜生产线 EVO GEN3 Blown Film Line

EVO第三代吹膜生产线搭载350毫米模头，产量最高可达1050公斤/时。依托全新超级模头与第三代超级冷却风环技术，产能提升幅度最高达30%。EVO OS 3智能操作系统降低操作门槛，自动平整技术实现薄膜平整度量化监测与精准调节，快速重启、先进互联及数字化架构大幅提升综合效率。

**应用领域：食品饮料·医疗健康·包装·循环再生**

EVO GEN3 sets a new performance benchmark in blown film production. Delivering up to 1,050 kg/h with a 350 mm die, it boosts throughput by up to 30% thanks to new ultra dies and the ultra GEN3 cooling ring. Smart automation in the new EVO OS 3 empowers even inexperienced operators, while auto flat makes film flatness measurable and perfectly adjustable. With rapid restarts, advanced connectivity, and future-ready digital architecture, EVO GEN3 maximizes OEE and strengthens producers' competitiveness.

**Application: Food & Beverage · Medical & Healthcare · Packaging · Recycling**



3B25

莱芬豪舍集团

REIFENHAEUSER GMBH & CO. KG MASCHINENFABRIK

## 流延薄膜技术革新单一材质包装解决方案 Extrusion Cast Film Line with Integrated MDO Unit: Revolutionizing Mono-material Packaging Solutions



SML新款集成MDO单元的流延薄膜生产线，可生产15-60μm单材质PE薄膜，生产速度高达300m/min，全幅宽厚度均一性极佳。所产薄膜兼具卓越力学与光学性能，超薄款更能显著减少物料消耗。设备可稳定量产15μm超薄膜，在性能、功能及印刷适性上均表现优异。

**应用领域：绿色包装**

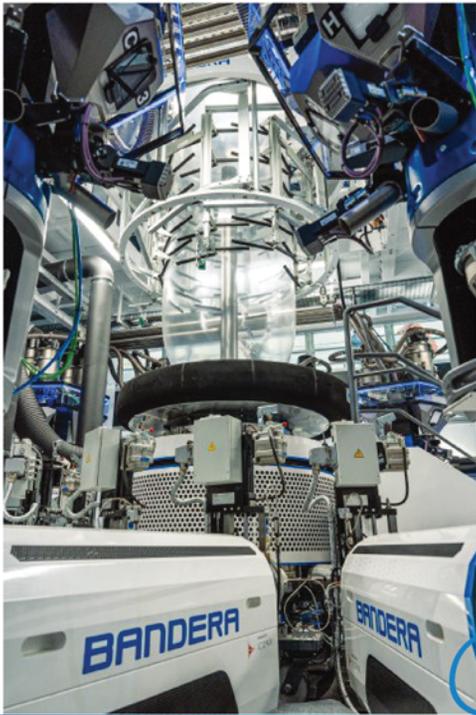
SML's latest cast film line with an integrated MDO unit can produce mono-material PE films ranging from 15 μm to 60 μm, with a maximum speed of 300 m/min and perfect thickness uniformity across the full film width. The films boast excellent mechanical and optical properties, and the ultra-thin variants significantly cut material consumption. The line ensures stable production of 15 μm films, with no compromises on performance, functionality or printability.

**Application: Green Packaging**



2.1A56

SML Maschinengesellschaft mbH



### Barrier FLEX® 吹膜生产线 Barrier FLEX® Blown Film Line

本设备专为高端高阻隔薄膜生产需求设计，可量产7、9、11层对称及非对称结构薄膜。依托Barrier FLEX®技术制备的薄膜，内置以EVOH（乙烯-乙醇共聚物）为芯层、搭配PA（聚酰胺）中间层的双重或三重阻隔结构，能高效阻隔气体与水蒸气，为薄膜赋予卓越的高阻隔性能。

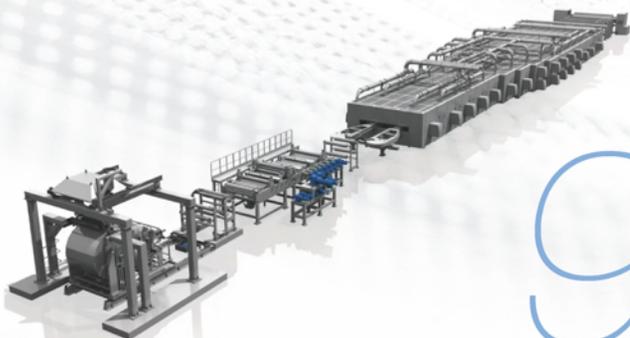
**应用领域：食品饮料·医疗健康·新能源汽车**

This series of co-extrusion line is designed for customers manufacturing top-tier high-barrier technical films, capable of producing symmetrical and asymmetrical film structures (7 to 11 layers). Films made with Barrier FLEX® feature double or triple barrier layers respectively, with EVOH (ethylene-vinyl alcohol copolymer) as the central layer combined with PA (polyamide) intermediate layers, delivering high-performance barriers against gases and water vapor.

**Application: Food & Beverage · Medical & Healthcare · New Energy Automobile**



3D25  
路易基邦德拉机械制造公司  
COSTRUZIONI MECCANICHE LUIGI BANDERA S.P.A.



### MASIM塑料薄膜的双轴拉伸 MASIM Biaxial Stretching of Films

MASIM可省却两台设备连续单向拉伸的繁琐流程，在单机上实现双向同步拉伸，同时保障拉伸后分子排列的优异均质性与薄膜精准厚度。这种均质性对部分薄膜产品的品质至关重要，例如具备高拉伸强度的锂电池隔膜，能够保障电动汽车稳定充电，有效延长电池的使用寿命。

**应用领域：新能源汽车·电子电气·包装**

MASIM, a patented technology of MARCHANTE, enables simultaneous biaxial stretching of films on a single machine, eliminating the need for two-machine sequential uniaxial stretching. It ensures superior molecular arrangement homogeneity and precise final film thickness post-stretching. This homogeneity is critical for certain film quality, such as high tensile strength lithium battery separators that guarantee stable charging and extended service life of electric vehicles.

**Application: New Energy Automobile · Electronics & Electric · Packaging**



2.1D112  
MARCHANTE

### 特种薄膜高端智能产线 High-end Intelligent Specialty Film Production Line

深耕特种薄膜制造技术及产线近40年，具备BOPP/干法锂电池隔膜生产线的设计制造、工艺调试能力，已高质量建成 BOPET、同步/异步BOPA、PVA光学膜等多条产线，可满足幅宽 7.4m、厚度 3μm-400μm、速度 400m/min 等高难度要求，为特种薄膜企业提供稳定可靠的技术与产业支撑。

**应用领域：新能源汽车·包装·电子电气·食品饮料·医疗健康**

With nearly 40 years of expertise in specialty film manufacturing technology and production lines, RIAMB boast the capabilities of designing, manufacturing and process debugging for uniaxial & biaxial oriented polypropylene dry-process lithium battery separator lines. RIAMB has built multiple high-quality lines including BOPET, synchronous/asynchronous BOPA and PVA optical film lines, meeting high-end technical specifications of 7.4m web width, 3μm-400μm thickness and 400m/min speed, and delivering stable and reliable technical and industrial support for specialty film manufacturers.

**Application: New Energy Automobile · Packaging · Electronics & Electric · Food & Beverage · Medical & Healthcare**



2.2F77  
北京机械工业自动化研究所有限公司  
BEIJING RESEARCH INSTITUTE OF AUTOMATION  
FOR MACHINERY INDUSTRY



## 七层共挤膜产线用于阻隔类单一材料 7 Layers Blown Film Extrusion Line for Mono Material Barrier Film

该生产线可生产阻隔性薄膜，其 EVOH 阻隔层薄至 1 微米、仅占总厚度 4%，使薄膜归为单一材质，实现完全回收且保有优异氧气阻隔性能。这一技术突破，让加工商可提供全回收、环保高附加值的单一材质阻隔膜，该膜亦可与里印金属化取向聚乙烯薄膜复合。

**应用领域：食品饮料·包装·医疗健康**

This line is able to manufacture barrier film with an EVOH layer as thin as 1  $\mu$ , that is to say equal to 4% of the total film thickness. This means that the film is considered as mono-material and fully recyclable, and still guarantees very good values of Oxygen permeability. This development allows the converters to offer fully recyclable, environmentally friendly, high value mono material barrier film, even laminated with reverse-printed MOPE films.

**Application: Food & Beverage · Packaging · Medical & Healthcare**

# 10



3D29  
MACCHI SPA

## TPU薄膜挤出生产线设备 TPU Film Extrusion Line

新款高阶TPU薄膜挤出生产线，充分将具弹性的TPU透明膜与PET硬质膜透过机械结构设计，达到零气泡贴合，堪比光学等级薄膜生产线。主机温控系统控温精度为1°C，节能省电效果显著。回馈型测厚仪与探测器固态闪烁技术，提供更快速准确的检测信号。

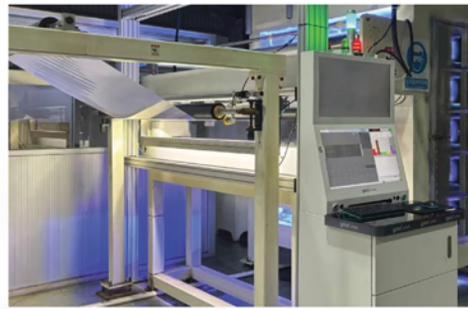
**应用领域：新能源汽车·医疗健康·包装**

The new high-end TPU film extrusion line integrates flexible transparent TPU film with rigid PET film via optimized mechanical structure design, achieving zero-bubble lamination that is comparable to optical-grade film production lines. The main unit temperature control system features a temperature accuracy of 1°C with remarkable energy-saving performance. The regenerative thickness gauge and solid-state scintillation detection technology deliver faster and more accurate detection signals.

**Application: New Energy Automobile · Medical & Healthcare · Packaging**



6.1F31  
鼎峰自动化股份有限公司  
LEADER EXTRUSION MACHINERY IND. CO., LTD.



## 薄膜表面瑕疵在线检测系统 Film Surface Defect Online Detection System

能够对薄膜生产过程中的各类表面缺陷进行高速、精确的7\*24小时实时在线检测，自动报警并显示当前瑕疵的具体信息(图片展示、直径、坐标分布、瑕疵类型等)，使工人能够及时对不良进行处理。适用于塑料薄膜、金属薄膜、光学薄膜、包装薄膜等多种材料的生产线。

**应用领域：电子电气·新能源·光电·包装**

This system can detect various surface defects during the film production process in real time and completely replace manual visual inspection of film production for high-speed, precise, 24/7 online detection, automatically alerting and displaying specific information about the current defects (such as image display, diameter, coordinate distribution, defect type, etc.), enabling workers to promptly handle the defects. It is applicable to production lines of various materials such as plastic films, metal films, optical films, and packaging films.

**Application: Electronics & Electric · New Energy · Optoelectronics · Packaging**



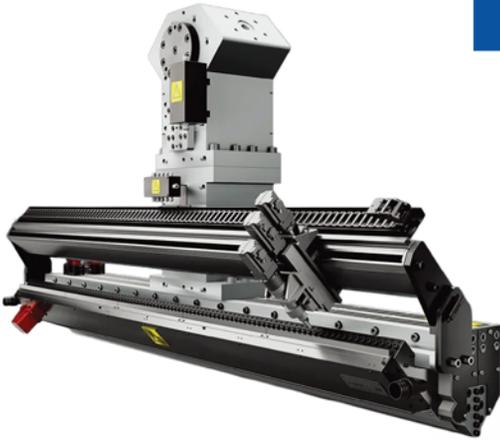
8.1A82  
固德视控(深圳)科技有限公司  
GOOD VISION & MOTION (SHENZHEN) CO., LTD.

# 12

# 11



## 一体化智能精密模头 Integrated Intelligent Precision Die



通过融合伺服电机协同控制技术,依托智能算法实现模唇间隙的远程全自动精准调节,通过实时动态响应显着提升调节效率,采用非接触式操作增强生产安全性,优化能源管理实现节能环保,为精密模头等工业场景的智能化升级提供创新解决方案。

**应用领域: 医疗健康·包装**

Intelligent control meets precision, seamlessly integrating efficiency and accuracy. With the precision and controllability of cutting-edge technology, we empower highprecision manufacturing and automated production, ensuring flawless operation for "Dark Factories".

**Application: Medical & Healthcare · Packaging**



3A26 / 6.1B40

浙江精诚时代科技股份有限公司

ZHEJIANG JING CHENG MOLD MACHINERY CO., LTD.

## 依迪埃® Prodigy™ 电动唇口调节系统 Nordson Prodigy™ Motorized Lip Actuator System

使用一系列连接到模头的电动执行器,将电机旋转平稳地转换为精确的线性运动,实现局部打开和关闭模唇。用户无需接近炽热的模头,可在用户界面上完成操作,能够节省大量时间并稳定重复生产循环。这种高效性最大限度地减少了废料,并最大化提升了有效生产时间。

**应用领域: 新能源汽车·建材与基建·电子电气·医疗健康·包装·运动及休闲**

A series of motorized actuators connected to the die smoothly convert motor rotation into precise linear motion, enabling localized opening and closing of the die lip. Users can complete all operations via the user interface without approaching the hot die, which saves substantial time and ensures consistent repeatability of production cycles. This high efficiency minimizes material waste and maximizes effective production time.

**Application: New Energy Automotive · Building & Infrastructure · Electronics & Electric · Medical & Healthcare · Packaging · Sports & Leisure**



6.1C61

NORDSON EXTRUSION DIES INDUSTRIES, LLC /  
NORDSON CORPORATION



## “至尊”型主线分切机: 开启全新维度 Primary Machines Reaching New Dimensions

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专为BOPP与BOPET薄膜加工打造。该设备以高达12.3米的工作幅宽创下行业纪录,并已于未来拓展至13米幅宽做好准备。运行速度可达每分钟1,500米,放卷装置可处理最大40吨的母卷重量,以突破性技术重新定义了分切领域的精度与生产力标准。

**应用领域: 绿色包装**

The enhanced PrimeSlitter, designed for processing BOPP and BOPET films. With an unprecedented working width of up to 12.3 meters and already prepared for future widths of up to 13 meters, a speed of 1,500 m/min, and unwinders handling roll weights of up to 40 tons, this machine redefines precision and productivity in slitting technology.

**Application: Green Packaging**



2.1G62

KAMPF GMBH



16

## KARAT-VARIOcool 冷却控厚风环 KARAT-VARIOcool Cool & Gauge Control Air Ring

KARAT风环具备极致冷却性能,可有效提升吹膜生产线产能,降低生产成本,同时拥有超高运行可靠性,结构坚固经久耐用且操作便捷。依托该风环可实现优异的薄膜厚度公差控制,保障卓越的薄膜成型品质。搭配自主研发的VARIOcool系统,更可实现最先进的智能化厚度控制,全方位赋能吹膜生产提质增效。

**应用领域: 医疗健康·包装**

The KARAT cooling ring delivers ultimate cooling performance, effectively boosting the output of blown film lines and cutting production costs, while boasting unrivaled reliability with a robust, durable build and easy operation. It ensures exceptional film gauge tolerance and superior film quality, and is paired with Kdesign's in-house developed VARIOcool—the most advanced software for the measurement and control of cooling rings—enabling state-of-the-art intelligent gauge control for the air cooling system.

**Application: Medical & Healthcare · Packaging**



3B25  
莱芬豪舍集团  
REIFENHAEUSER GMBH & CO. KG MASCHINENFABRIK

## X-系列智能型静电消除棒 X-SERIES Static Eliminator

X-系列含有一个全新的可视化状态显示端,能实时显示出检测到的操作模式和电荷高低,最大限度减少停机时间。涵盖多场景应用:X-33功率最强,适用于长距离除静电;X-20性能均衡可靠,满足多数需求;X-12L兼顾中距离与通用性;X-12F专为短距离快速除静电设计。

**应用领域: 新能源汽车·绿色包装·医疗健康·电子电气**

The X-SERIES is equipped with an all-new visual status display that shows the detected operating mode and charge level in real time, minimizing downtime to the greatest extent. It features multi-scenario applicability: the X-33 boasts the maximum power and is suitable for long-range static elimination; the X-20 delivers well-balanced and reliable performance to meet most application needs; the X-12L combines medium-range capability with universal usability; the X-12F is exclusively engineered for rapid short-range static elimination.

**Application: New Energy Automotive · Green Packaging · Medical & Healthcare · Electronics & Electric**



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2.1F101  
上海孚蕊哲静电科技有限公司  
SHANGHAI FRASER STATIC  
TECHNOLOGY CO., LTD.



## 10.9米超宽幅原膜分切机 10.9m Ultra Wide Primary Slitter

该设备适配当前全球 10.4 米 BOPP/BOPET 薄膜生产线,且具备升级拓展至 12 米幅宽的能力;设备额定工作速度可达 1200m/min,技术层面可实现 1500m/min 的高速运行要求。作为拥有中国特色的原膜一次分切机,其专为宽幅、高速特种薄膜产线设计,适配性强、性能稳定,可高效满足规模化薄膜生产的分切需求。

**应用领域: 绿色包装**

This equipment is compatible with the world's current 10.4m BOPP/BOPET film production lines and is scalable for upgrade to a 12m web width. It has a rated operating speed of 1200m/min and can technically operate at a high speed of 1500m/min. As a one-pass base film slitter with Chinese technological features, it is engineered exclusively for wide-width, high-speed specialty film lines, offering strong adaptability and stable performance to efficiently meet the slitting requirements of large-scale film production.

**Application: Green Packaging**



3D09  
杭州大华工控技术有限公司  
HANGZHOU DAHUA INDUSTRY CONTROL  
TECHNOLOGY CO., LTD.

18

# 20



## 高速超薄双向机械同步拉伸 聚丙烯电容膜生产线 High-speed Ultra-thin Mechanical Simultaneous Stretching BOPP Capacitor Film Production Line

# 19

### ZwickRoell 塑料薄膜力学性能测试系统 ZwickRoell Mechanical Property Testing System for Plastic Films

专为满足薄膜特殊测试要求设计,可开展多类塑料薄膜机械性能试验:熔融指数仪可对来料进行材料表征,万能试验机可精准测定应力/应变、层间粘接力等多项性能,蠕变试验机可测试常温和工作温度下的蠕变性能,塑料摆锤冲击试验机则以拉伸冲击试验形式测定材料冲击强度。

**应用领域: 新能源汽车·医疗·电子电气·航天、航空、轨道交通**

Engineered to meet the special testing requirements for films, it enables a full range of mechanical property tests on plastic films: extrusion plastometers characterize incoming materials; universal testing machines accurately measure stress-strain, interlayer adhesion and other key properties; creep testing machines test creep behavior at ambient and operating temperatures; plastic pendulum impact testers determine material impact strength via tensile impact tests.

**Application: New Energy Automotive · Medical & Healthcare · Electronics & Electric · Aerospace, Aviation, Rail Transport**

5.2D28

兹韦克罗睿测试技术(太仓)有限公司  
ZWICKROELL TESTING SYSTEMS CO., LTD.



该生产线集成同步拉伸、双向混合拉伸及纵横拉伸率协调核心技术,可有效规避拉伸起始段轨向位置漂移,大幅降低薄膜各向性能偏差。在高速生产下,可实现电容膜厚度均匀性低偏差,让分子排列紧密规整、各向一致性优异,充分满足各行业对电容膜高稳定性、高可靠性的严苛标准。

**应用领域: 新能源汽车·新型显示·电子电气·人工智能·新型储能**

This production line integrates core technologies of synchronous stretching, biaxial hybrid stretching and longitudinal-transverse stretch ratio coordination. It effectively avoids rail position drift at the initial stretching stage and greatly reduces the anisotropic performance deviation of films. During high-speed production, it achieves low deviation in the thickness uniformity of capacitor films, ensures tight and regular molecular arrangement with excellent anisotropic consistency, and fully meets the stringent industry standards for high stability and reliability of capacitor films.

**Application: New Energy Automotive · New Display Technologies · Electronics & Electric · AI · New Energy Storage**



2.2D80

佛山市盟思拉伸装备有限公司  
MCE STRETCHING INDUSTRY CO., LTD.

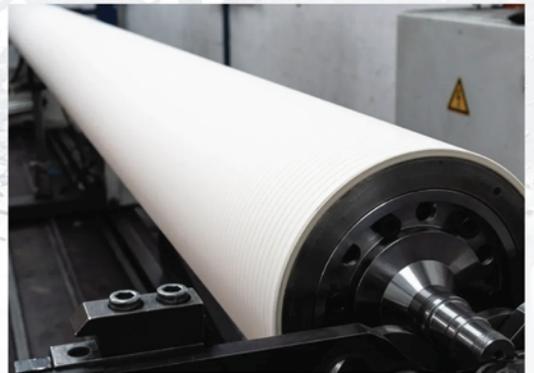
### LightRoll®: 吹膜生产线专用碳纤维辊 LightRoll®: Carbon Rollers for Blown Film Line

吹膜生产线碳辊拥有多重核心优势,挠度优化提升薄膜平整度、减少褶皱,可提产线速度且不影响生产质量,热性能优异能规避薄膜粘附与热变形,轻量化设计降低能耗,耐腐蚀特性实现长寿命与低维护,减少非计划停机。该碳辊覆盖全模块配套方案,工艺先进、规格适配性强,交付体系完善且市场应用量可观。

**应用领域: 新能源汽车·绿色包装·生态农业·电子电气**

Carbon rollers for blown film lines deliver multiple core benefits: optimized deflection boosts film flatness and reduces wrinkles, enables faster line speeds without quality compromise, and has superior thermal performance to prevent film adhesion and thermal deformation. Lightweight design cuts energy use; corrosion resistance ensures long life and low maintenance, minimizing unplanned downtime. They feature full-module solutions, advanced craftsmanship, strong adaptability and a proven delivery track record.

**Application: New Energy Automotive · Green Packaging · Eco-agriculture · Electronics & Electric**



2.1C114  
EPSILON COMPOSITE

# 21

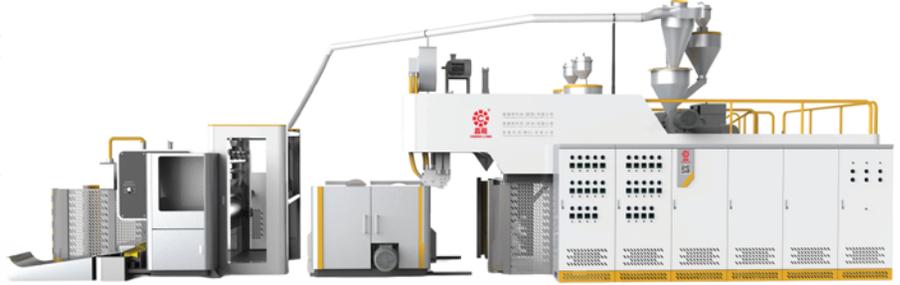
Film Tech Highlights  
薄膜技术亮点

## 智能温控全自动流延膜机组 Fully Automatic Intelligent Temperature Control Cast Film Line

22

此机组摒弃传统温度表，智能调温，相较普通机型整机高效节能超10%，节能优势显著。配备自研真空快速抽吸边自动回收装置，超静音、防堵料断边，收卷无速限且回收率高。并采用触摸屏集中控制，操作便捷智能。计量泵传感技术精准控压，实现线性挤出并提升薄膜性能，产出缠绕膜拉伸性佳、抗穿透性强、透明度高。

**应用领域：绿色包装**



This unit replaces traditional thermometers with intelligent temperature control, boasting a remarkable energy-saving edge with over 10% higher overall energy efficiency than conventional models. It is equipped with a self-developed vacuum rapid edge suction automatic recovery device, featuring ultra-low noise, anti-blockage and anti-edge breakage, unrestricted winding speed and high recovery rate. With centralized touch screen control, it enables easy and intelligent operation. The metering pump sensing technology precisely controls pressure for linear extrusion and enhanced film performance, producing stretch film with excellent ductility, strong puncture resistance and high transparency.

**Application: Green Packaging**



6.1D36

昌龙科技(阳江)有限公司  
CHANGLONG SCIENCE &  
TECHNOLOGY (YANGJIANG) CO., LTD.

Film Tech Highlights  
薄膜技术亮点

## 全新自动厚度控制与薄膜冷却系统 New Automatic Thickness Control and Film Cooling System

VENTO是Doteco全新自动厚度控制与薄膜冷却系统，优势显著：特殊设计降摩擦压降、优化能耗提高效率，实现2Sigma厚度偏差精减与薄膜高均匀性，专用气流保障强冷却力和气泡稳定。高效冷却稳泡助力产线提速增产，伺服阀精准调气流缩短厚度修正时间，开机快速测速降误差、减材料浪费。

**应用领域：绿色包装·生态农业·医疗·太阳能光伏·绿色建材**

VENTO is Doteco's new automatic thickness control and film cooling system with prominent advantages: its specialized design cuts friction and pressure drop, optimizes energy consumption and boosts efficiency, achieving reduced 2Sigma thickness deviation and high film uniformity. Dedicated airflow ensures strong cooling and stable bubbles, speeding up production and increasing output. Servo valves precisely adjust airflow to shorten thickness correction time, rapid startup measurement minimizes errors and material waste.

**Application: Green Packaging · Eco-agriculture · Medical & Healthcare · Solar Photovoltaic · Green Building Materials**



2.1C78  
DOTEKO spa

23



24

## EX-LAMIFLEX 挤出涂布复合一体机 EX-LAMIFLEX Extrusion Coating & Laminating Integrated Machine

EX-LAMIFLEX注重实际生产稳定性，不片面追求极限参数，设备运行稳、涂布匀，挤出性能可靠且层间附着力强，操作便捷。聚焦核心功能精简冗余配置，降低工艺复杂度与对熟手的依赖，减少废料和停机时间。以均匀涂布、平整表面、稳定层间结合力，提升成品外观、印刷效果、耐用性与一致性。

**应用领域：绿色包装·太阳能光伏·电子电气·新型储能**

EX-LAMIFLEX prioritizes practical production stability over extreme parameters, featuring stable operation, uniform coating, reliable extrusion, strong interlayer adhesion and easy operation. Focused on core functions, it streamlines redundant configurations to cut process complexity, reliance on skilled operators, material scrap and downtime. Consistent coating, smooth surfaces and robust interlayer bonding boost the finish, print quality, durability and consistency of end products.

**Application: Green Packaging · Solar Photovoltaic · Electronics & Electric · New Energy Storage**



2.2J107  
SHM CO., LTD.



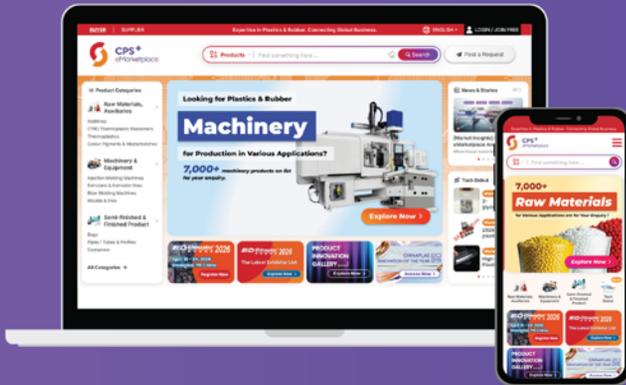
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Film Production Lines



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湿法双向拉伸  
Biaxially stretched wet-process

**功能性薄膜**  
FUNCTIONAL FILM

PVA光学膜 PVA optical film  
彩虹膜 Iridescent film  
窗膜 Window film

**BOPET**

双向拉伸聚酯  
Biaxially stretched Polyester

**BOPP**

双向拉伸聚丙烯  
Biaxially stretched Polypropylene

**BOPA**

双向拉伸聚酰胺  
Biaxially stretched Polyamide



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北京机械工业自动化研究所有限公司创建于1954年,是原机械工业部直属的综合性科研机构,1999年转制为中央直属大型科技企业,现隶属于国资委监管的中国机械科学研究总院集团有限公司。

北自所总部和研发基地设在北京,占地面积12万平方米,在常州及湖州分别建有生产基地,现有员工1300多人,其中科研与工程技术人员900多人。拥有八个研究开发事业部、五个控股公司以及“制造业自动化国家工程研究中心”、“智能化系统集成应用体验验证中心”、“高性能液压部件技术创新中心”等国家级、省部级创新机构。

北自所致力于成为国内一流、国际知名的行业智能制造全面解决方案提供者,努力引领我国装备制造业自动化、信息化、智能化、集成化技术的创新与发展。

## 双向单向拉伸薄膜生产线 差异化特种薄膜生产线提供者

特种膜品种	厚度范围(μm)	最大宽度(mm)	最高车速(m/min)
BOPP锂电池隔膜(双拉)	8-25	3200	50
BOPP/BOPE 锂电池隔膜(单拉)	6-20(多层复合)	2200	40
BOPET热收缩膜	20-80	8700	100
BOPET中厚膜	8-350	7400	300
BOPP/BOPET电容膜	4-8	5800	250
同步BOPA	10-30	6600	250
异步BOPA	10-30	7400	350



### ▶ 主要业绩

- 双向拉伸BOPP/PE电池隔膜自动生产线(微孔膜)50余条
- 单向拉伸PP/PE电池隔膜自动生产线(微孔膜)30余条
- 双向拉伸BOPET中厚膜自动生产线20余条
- 双向拉伸BOPA包装膜自动生产线10余条
- 全国首条国产化PVA光学膜生产线1条





桂林电器科学研究院有限公司从上世纪60年代开始从事双向拉伸薄膜研究，致力于为高分子薄膜产业客户提供小试、中试、工艺、装备、检测、标准、研发、培训等全链条完整解决方案。目前已向国内外客户提供了180多条各类型薄膜拉伸生产线的设计、制造与服务。是目前国内可提供设计制造、安装调试以及应用服务整体解决方案一站式服务的双向拉伸薄膜装备供应商，多项产品填补国内空白，产品技术和质量接近国际先进水平。

可向客户提供：双向拉伸聚丙烯 (BOPP) / 聚酰亚胺 (BOPI) / 聚酯 (BOPET) / 尼龙 (BOPA) / 聚乙烯 (BOPE) / 聚苯乙烯 (BOPS) / 聚乳酸 (BOPLA) 薄膜生产线，干法、湿法电池隔膜生产线等，进口生产线维护与升级改造服务，生产线备品备件服务。

Guilin Electrical Equipment Scientific Research Institute Co., Ltd. has been engaged in the research of biaxially oriented films since the 1960s, and is committed to providing polymer film industry customers with a complete full-chain solution covering lab-scale testing, pilot-scale testing, processes, equipment, detection, standards, R&D, training and other aspects. Up to now, the company has provided the design, manufacturing and services of more than 180 various types of film stretching production lines for customers at home and abroad. It is a domestic one-stop service provider of biaxially oriented film equipment that can offer integrated solutions including design and manufacturing, installation and commissioning, as well as application services. A number of its products have filled the domestic gaps, and the product technology and quality are close to the international advanced level.

The company can provide customers with: biaxially oriented polypropylene (BOPP) / biaxially oriented polyimide (BOPI) / biaxially oriented polyethylene terephthalate (BOPET) / biaxially oriented polyamide (BOPA) / biaxially oriented polyethylene (BOPE) / biaxially oriented polystyrene (BOPS) / biaxially oriented polylactic acid (BOPLA) film production lines, dry and wet process battery separator production lines, as well as maintenance, upgrading and transformation services for imported production lines, and spare parts services for production lines.



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# 永健机械

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## 公司简介

Company Profile

一家集整线设计、加工、安装、调试、售后维修于一体的专业**薄膜双向拉伸集成化智能装备、特种工程塑料薄膜专业设备制造商与整体方案提供商。**

One-stop provider of integrated intelligent biaxial film-stretching equipment and specialty engineering-plastics solutions — design, manufacture, installation, commissioning and after-sales service.

## 产品信息

Product Information



多功能双向拉伸生产线  
Multi-functional Biaxial Stretching  
Production Line



双向同步拉伸薄膜生产线  
Biaxial Synchronous Film Stretching  
Production Line



湿法电池隔膜生产线  
Wet-process Battery Separator  
Production Line



干法电池隔膜单拉生产线  
Dry-process Uniaxial Battery Separator  
Production Line

## 核心内容

Core Business

- 1、提供定制化BOPET、BOPP、干法电池隔膜、湿法电池隔膜单双向拉伸薄膜生产线交钥匙服务。
- 2、提供异步/同步拉伸薄膜试验线平台。涵盖LCP、PPS、CPI、BBK、PEEK、BOPP、BOPET、CAPACITOR FILMS、BSF等材料。
- 3、提供链铗、卸卷小车、辅助收卷小车、静压箱、背风装置自主研发的带式及丝式静电吸附成套装置、粉碎料在线添加装置等生产线配套设备。

1. **Turnkey Solutions** Customized BOPET, BOPP, dry-process & wet-process battery separator uniaxial and biaxial stretching film production lines.
2. **Pilot & R&D Stretching Lines** Asynchronous / synchronous film stretching test platforms, applicable to LCP, PPS, CPI, BBK, PEEK, BOPP, BOPET, Capacitor Films, BSF, and more.
3. **Auxiliary Equipment & Solutions** Chain clips, unwinding trolleys, auxiliary winding trolleys, TDO nozzles, air shower devices, in-house developed belt & wire electrostatic pinning systems, and online recycled material feeding systems.

## 联系方式

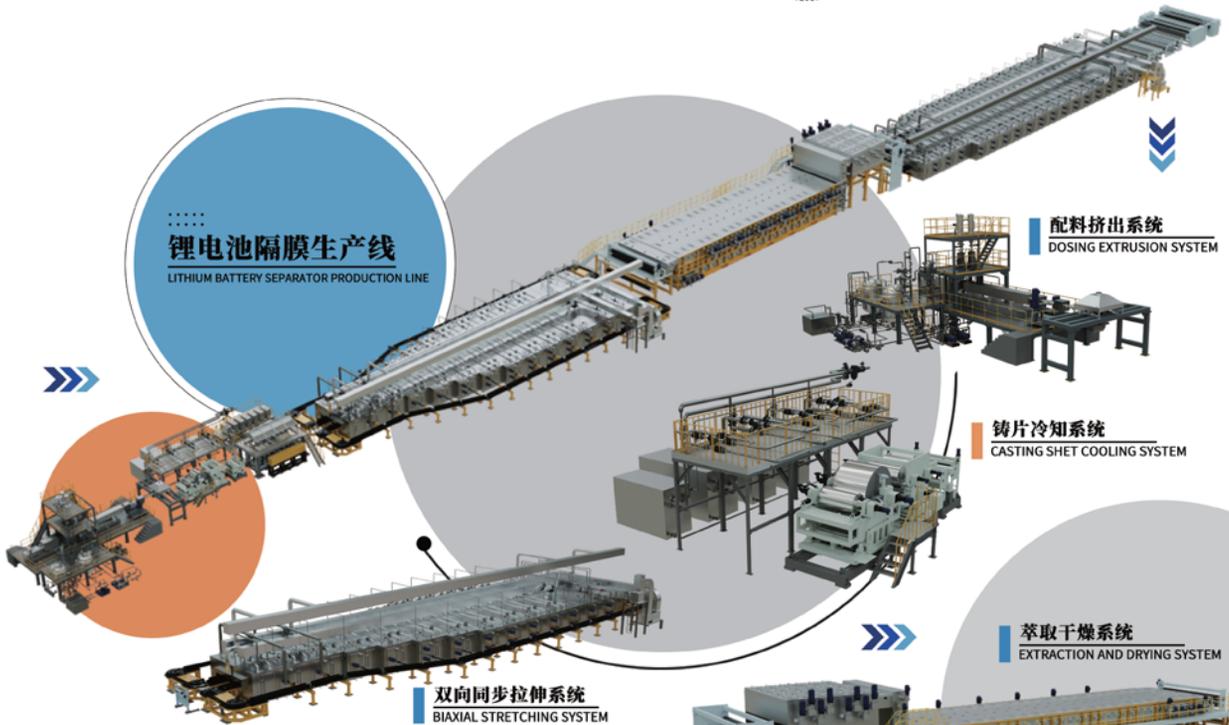
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EXTRACTION AND DRYING SYSTEM

**双向同步拉伸系统**

BIXIAL STRETCHING SYSTEM

**横向拉伸系统**

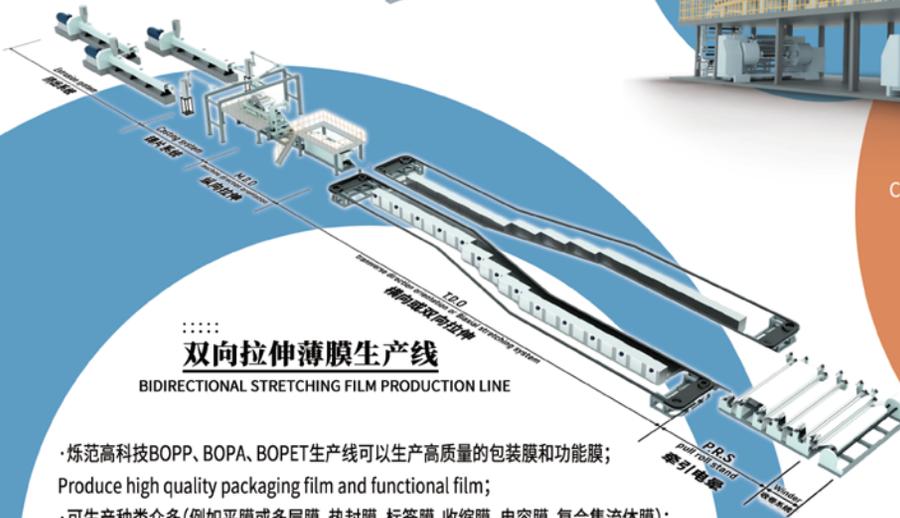
HORIZONTAL STRETCHING SYSTEM

**热定型收卷分切系统**

HEAT ANNEALING, WINDING AND CUTTING SYSTEM

.....  
**双向拉伸薄膜生产线**

BIDIRECTIONAL STRETCHING FILM PRODUCTION LINE



- 烁范高科技BOPP、BOPA、BOPET生产线可以生产高质量的包装膜和功能膜；  
Produce high quality packaging film and functional film；
- 可生产种类众多(例如平膜或多层膜、热封膜、标签膜、收缩膜、电容膜、复合集流体膜)；  
Produce a wide range of types (e.g. flat or multilayer films, heat sealing films, label films, shrink films, capacitive films, composite current collector membrane)；
- 智能化生产线解决方案:低成本、高产量、高质量、短交货期；  
Intelligent production line solution:low cost, high yield, high quality, short delivery.

- 有效涂布幅宽: 1100-1600mm, 可定制；  
Customizable Effective coating width: 1100-1600mm；
- 适应基材厚度: 5-16μm, 可实现超薄隔膜涂布；  
Suitable substrate thickness: 5-16μm；
- 涂布方式: 微凹涂布/旋转喷涂/点涂；  
Coating method: micro concave coating/rotary spraying/dot coating；
- 智能化预留: 设备可对接AGV, 预留MES接口；  
Intelligent reservation: AGV and MES interface is

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- GEOMEMBRANE  
土工膜

### FLAT DIE 平模

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PET 生产线
- RIGID FILM LINES  
硬质薄膜生产线
- SHEET LINES  
片材生产线
- SPECIAL TECHNOLOGIES  
特殊技术

### SERVICE 服务

- TEAM OF TRAINED PROFESSIONALS  
训练有素的专业人员团队
- PRECISE MONITORING OF SERVICE INTERVENTIONS  
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能耗低至300kWh/t



PACKAGING



AGRICULTURE



BUILDING



MEDICAL

### 3-9 层高速吹膜设备

3-9 layer high-speed blown film machine

### 3/5 层冷拉伸套管膜技术解决方案

3/5 layer stretch hood film blowing machine

### 5 层共挤 POD 吹膜技术解决方案

5 layer co-extrusion POD blown film solution

### 7-9 层共挤高阻隔技术解决方案

7-9 layer co-extrusion high barrier solution

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Website: <http://www.jianchengjx.com>  
E-mail: [39129482@qq.com](mailto:39129482@qq.com)



# FilmBlowing Machine

Bag-making Machine/Printing Machine

## Biodegradable Film Blowing Machine ( PLA、PBAT film blowing machine )

2-color Pure Water Ink One-piece  
High Speed Printing Machine(Optional)



Film Blowing Machine CE



Bag-making Machine CE



Automatic Bag Making Machine



ABA Film Blowing Machine

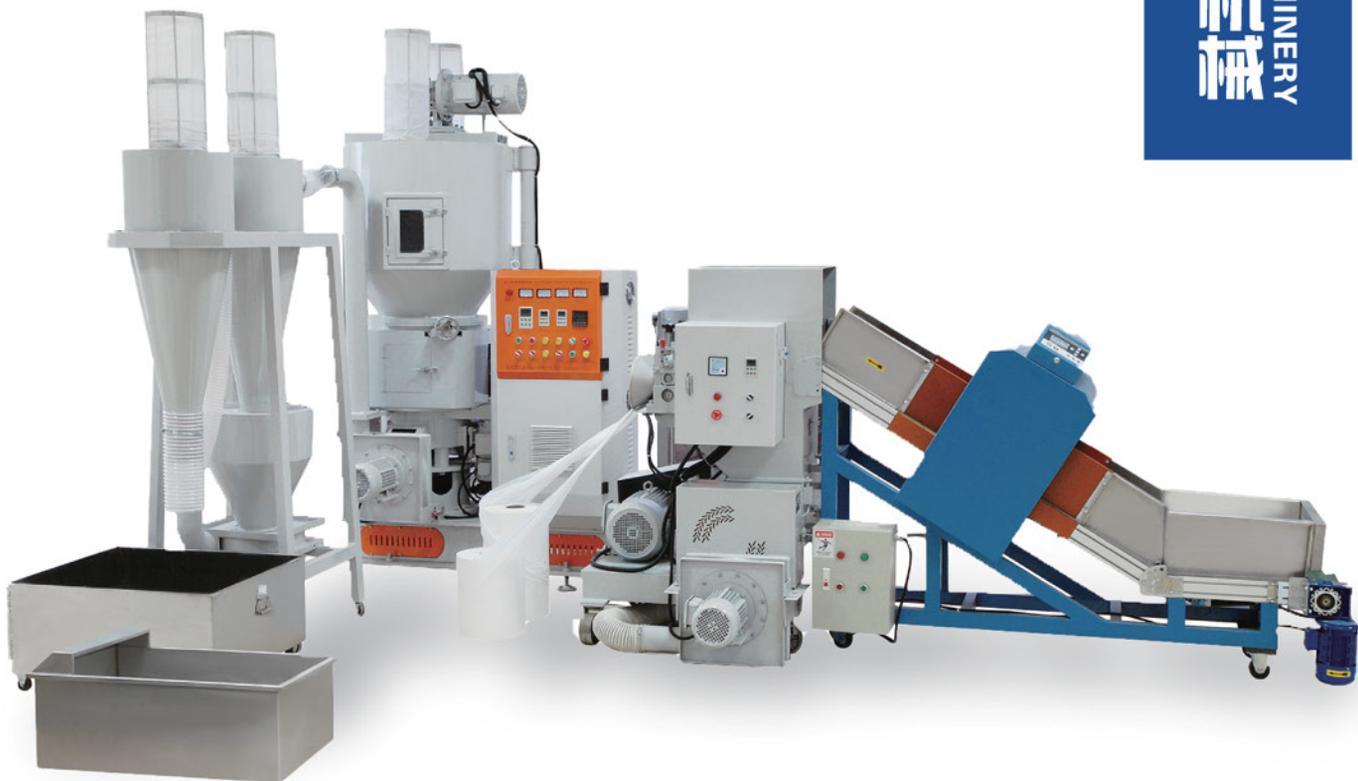
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01

### 企业核心概况

Company Overview

20余年机械制造经验, 专注塑料回收设备研产销, 助力全球塑料循环经济, 产品获欧盟CE认证, 远销欧、东南亚、拉美等地区。

With over 20 years of experience in machinery manufacturing, we focus on the research, production, and sales of plastic recycling equipment, supporting the global plastic circular economy. Our products have obtained EU CE certification and are exported to Europe, Southeast Asia, Latin America, and other regions.

02

### 全系列核心设备

Full range of core equipment

OL系列造粒机(专利)  
OL Series Granulator (Patent)

OL-Y低温环保造粒机  
OL-Y Low-Temperature Eco-Friendly Granulator

混炼造粒机  
Mixing and Granulating Machine

03

### 适配原料

Adapt to the raw materials

PE、PP、PVC、EVA、TPU、PS、PA、ABS、PET、PLA、PBAT等多类热塑性塑料废料。

Waste materials from various thermoplastic plastics such as PE, PP, PVC, EVA, TPU, PS, PA, ABS, PET, PLA, PBAT, etc.

04

### 核心优势

Core Advantages

粉碎结粒一次完成  
Crushing and granulating completed in one step

低耗节能  
Low energy consumption

冷启动免加热  
Cold start, no preheating required

粉末循环用  
Powder recycling

占地小、操作简  
Compact and easy to operate

共探合作  
携手共赢

EXPLORING COOPERATION TOGETHER  
WORKING HAND IN HAND FOR MUTUAL SUCCESS

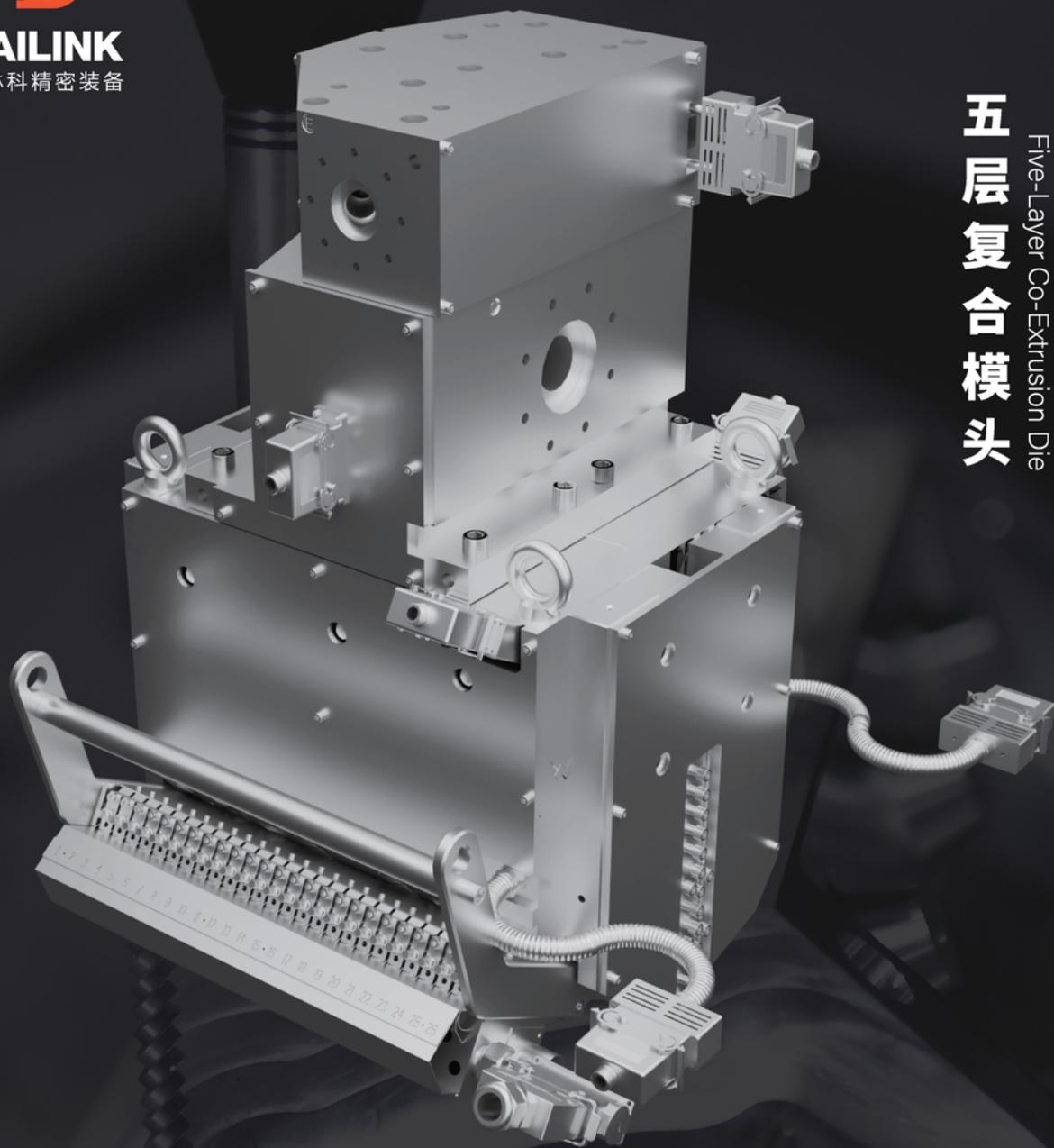
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CHINA INTERNATIONAL RUBBER AND PLASTICS EXHIBITION  
OLI MACHINERY BOOTH



**DAILINK**  
岱琳科精密装备



**五层复合模头**  
Five-Layer Co-Extrusion Die

## 岱琳科精密装备(南通)有限公司

Dailink Precision dies & Equipment (Nantong) Co., Ltd

岱琳科精密装备(南通)有限公司主要从事双向拉伸、精密涂布及流延挤出生产线配套高端模头的研发,生产及技术应用。

设计团队核心成员深耕涂布模具、挤出模具二十余年,精通狭缝式涂布模头结构设计、流体仿真分析、挤出模具型腔优化等关键技术,同时生产团队聚集于高精度模头与智能化控制系统两大技术高地,持续开展攻坚克难,为行业技术升级注入强劲动力

Dailink Precision Equipment (Nantong) Co., Ltd. is engaged in the R&D, manufacturing and technical application of high-end dies for biaxially oriented stretching dies, precision coating and cast extrusion production lines.

Core members of our design team have over 20 years of experience in coating die and extrusion mold design, slot die structure design, fluid simulation analysis and manifold optimization. Our production team focuses on high-precision die machining and intelligent control systems, and is committed to achieving breakthroughs in the technological upgrading of the die industry.

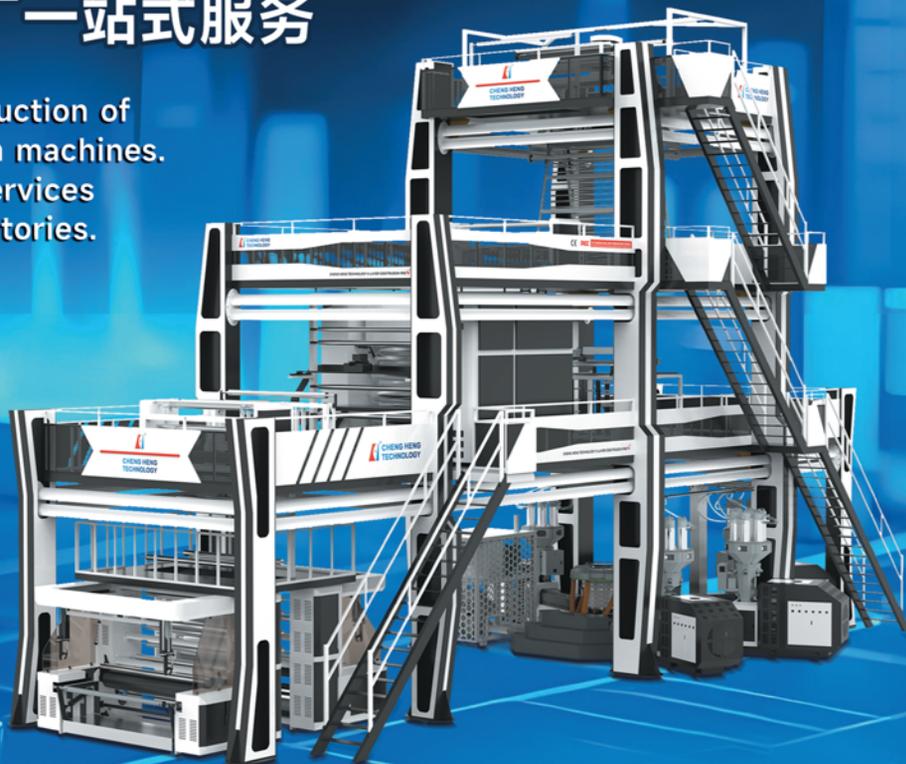


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Videos



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BLOWN FILM

3-11层共挤  
智能装备

MULTI-LAYER

全球畅销机型

FOOD

PACKAGING

食品包装

MEDICAL

PACKAGING

医药包装

PETROCHEMICAL

PACKAGING

石化包装



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