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# COATING LAMINATION PRODUCTION LINE

涂布复合生产线

金纬机械  
JWELL MACHINERY



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

10+ 驻海外办事处  
Overseas offices  
580+ 技术研发&工程师  
R&D Engineer  
3,000+ 金纬机械员工人数  
Jwell Employee  
8+ 制造基地  
Manufacture Bases  
500+ 独家专利技术  
Patents  
1,000,000m<sup>2</sup>+  
工厂面积 Plant Area



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 JINHAILOU 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

2024

连续13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 13 consecutive years

We Know  
Extrusion

## 锂电池隔膜分切机/改裁机

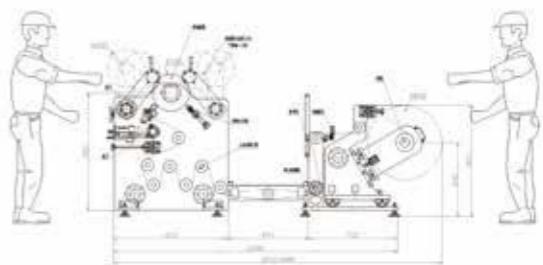
### Lithium Battery Diaphragm Slitting And Re-cutting Machine

**分切机:** 主要完成由原卷宽隔膜放卷, 经过传动机构和分切机构后, 得到所需要的分切定宽隔膜, 并最终完成收卷过程的专用设备。具有机械结构紧凑, 外型美观、设计合理、功能齐全、操作方便, 简单易学等优点。人机界面直观操作, 可实时监控机器运行状态和检测机器故障, 是十分理想的隔膜分切设备。

**改裁机:** 锂电隔膜在分切时经常会发现隔膜的宽度过宽或部分有瑕疵的情况, 此时就需要对分切后的隔膜进行再次的切割, 使隔膜宽度变窄或去掉瑕疵部分, 以便最大程度地提高产品利用率。我司结合多年生产经验, 研发出了GC450改裁机, 专门用于锂电池薄膜的改材分切。

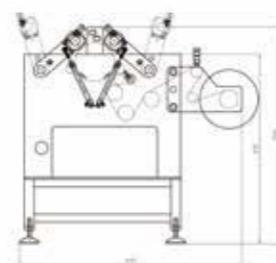
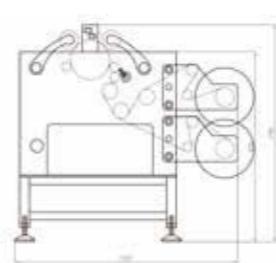
**Slitter:** It is a special equipment which mainly completes the process of unwinding the original wide diaphragm, passing through the transmission mechanism and slitting mechanism to get the required slitting fixed width diaphragm, and finally completes the winding process. It has the advantages of compact mechanical structure, beautiful appearance, reasonable design, complete functions, convenient operation and easy to learn. The human-machine interface intuitive operation, real-time monitoring of the machine's operating status and detection of machine failure, is the ideal diaphragm slitting equipment.

**Re-cutting machine:** lithium diaphragm in the slitting will often be found in the diaphragm width is too wide or part of the defective situation, at this time it is necessary to cut the diaphragm again after the slitting, so that the width of the diaphragm becomes narrower or to remove the defective part, in order to maximize the utilization of the product. Combined with many years of production experience, our company has developed the GC450 rewinder, which is specially used for rewinder and slitting of lithium battery film.



#### 分切机规格型号 | Slitter specifications

设备规格 Equipment specification	工作速度 Operating speed	分切精度 Slitting precision	收卷方式 Winding method	分切方式 Slitting method
1300-1700 mm	Max.200 m/min	0 ~ +0.2mm	独立臂/气涨轴主(被)动卷取	滚刀或直刀



#### 改裁机规格型号 | Production line Specification

设备规格 Equipment specification	工作速度 Operating speed	材料卷径 Material roll diameter	收卷芯轴尺寸 Winding arbor size	分切方式 Slitting method
400 mm	Max.200 m/min	放/收 Max.300mm	3" / 6"	滚刀或直刀

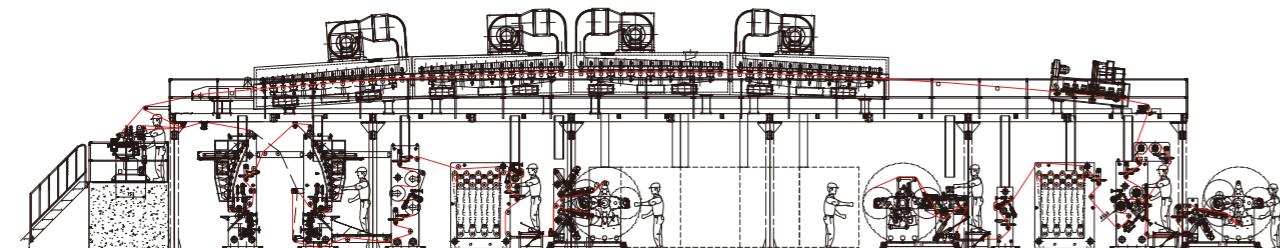
## 光学薄膜涂布设备系列 Optical Film Coating Equipment Series

**设备介绍:** 光学膜涂布设备由放卷组、放卷储料架+前牵引组、狭缝涂布单元、真空牵引组、烘箱供热组、光固化组、冷却牵引组、收卷储料架、收卷组组成。适用于隐形车衣膜、光学膜、离型膜、防爆隔热膜、硬化膜等涂布工艺。涂布基膜材料：TPU、PI、PE、PET、铝箔、铜箔、纸张等。

**设备优点:** 光学膜涂布设备采用先进设计理念，具备超高精度性能，全自动控制收放卷、高精度涂布控制等先进的控制系统，实现生产线的自动化稳定运行。

**Equipment introduction:** Optical film coating equipment consists of unwinding group, unwinding accumulator + front haul-off unit group, slit coating unit, vacuum traction group, oven heating group, light curing group, cooling haul-off unit group, winding accumulator, winding group. Applicable to TPU invisible car film, optical film, release film, explosion-proof heat insulation film, hardened film and other coating processes. Coating base film materials: TPU, PI, PE, PET, aluminum foil, copper foil, paper, etc.

**Advantages of the equipment:** The optical film coating equipment adopts advanced design concepts, has ultra-high precision performance, fully automatic control of rewinding and unwinding, high-precision coating control and other advanced control systems to achieve automated and stable operation of the production line.



### 生产线规格型号 | Production line Specification

设备规格	最高涂布速度	基材宽度	涂布方式	放收卷径	接料方式
Equipment specification	Operating speed	Base material width	Coating method	Unwind / Winding Diameter	Splicing method
1250-2000 mm	Max.150 m/min	300-2000 mm	狭缝挤出涂布、微凹版涂布	Φ800 mm	不停机自动驳接

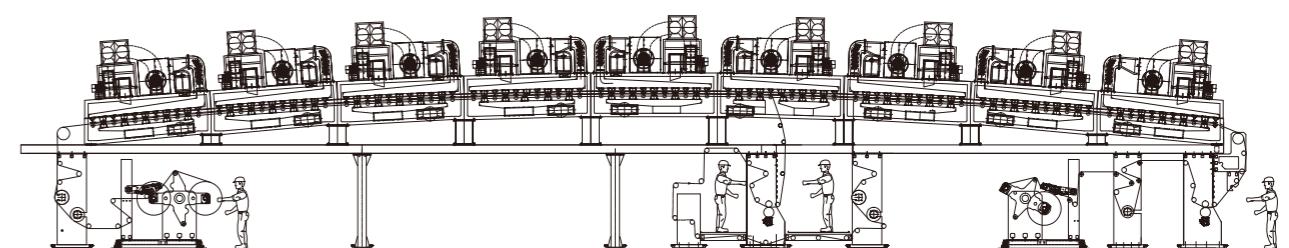
## 功能膜涂布设备系列 Functional Film Coating Equipment Series

**设备介绍:** 功能膜涂布设备由放卷组、前牵引组、涂布组、真空牵引组、烘箱供热组、冷却牵引组以及收卷组组成。该机适用于高阻隔单一材质涂布工艺。涂布基膜材料：BOPET、BOPP、CPP、MDOPE、PE、镀铝膜底涂面涂。

**设备优点:** MDOPE不停机自动裁切技术；涂布工作速度：Max.400m/min；专利烘箱干燥节能环保专利技术；高速涂布时张力控制精准，基膜拉伸率<0.5%。

**Equipment introduction:** Functional film coating equipment consists of unwinding group, front haul-off group, coating group, vacuum haul-off group, oven heating group, cooling haul-off group and winding group. This machine is suitable for high barrier single material coating process. Coating base film materials: BOPET, BOPP, CPP, MDOPE, PE, aluminized film bottom coating and top coating.

**Advantages of the equipment:** MDOPE non-stop automatic cutting technology; coating speed: Max. 400m/min; patented oven drying energy-saving and environmentally friendly patented technology; high-speed coating when the tension control is accurate, the base film stretch rate <0.5%.



### 生产线规格型号 | Production line Specification

设备规格	最高涂布速度	基材宽度	基膜拉伸率	放收卷径	接料方式
Equipment specification	Operating speed	Base material width	Base film stretching rate	Unwind / Winding Diameter	Splicing method
1650-2700 mm	Max.400 m/min	800-2700 mm	< 0.5%	Φ1000 mm	不停机自动驳接

## 软包用涂布+复合多功能涂布设备系列

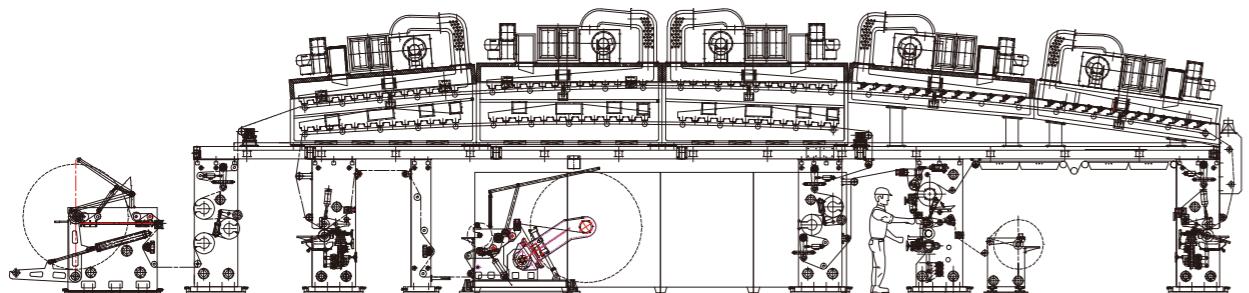
### Coating + Laminating Multifunctional Equipment Series For Soft Package

**设备介绍:** 适用于铝箔、PET、BOPP、纸张等材料的干/湿复合生产工艺。同时可进行于涂布、复合、背面涂布及在铝箔或转移膜剥离后表面上色，兼剥离卷取，在经干燥、冷却、最后收卷。完成整套完整工艺流程。

**设备优点:** 放卷单元单元采用液压升降无轴结构，配合6"、12" 夹头。能有效的降低损耗，提高成品率；涂布单元采用三辊式涂布结构，适用于：面涂、背涂及上色。专利烘箱干燥节能环保专利技术；重要核心部件采用伺服驱动控制模块，高速运行时，保证整机张力控制精准度。

**Equipment introduction:** It is suitable for dry/wet lamination production process of aluminum foil, PET, BOPP, paper and other materials. At the same time can be carried out in the coating, composite, back coating and in the aluminum foil or transfer film after peeling the surface color, and peeling the roll, after drying, cooling, and finally winding. Completes the whole set of complete process.

**Advantages of the equipment:** the unwinding unit adopts hydraulic lifting shaftless structure, with 6", 12" chuck. It can effectively reduce the loss, improve the rate of finished products; coating unit adopts three-roller coating structure, suitable for: face coating, back coating and coloring. Patented oven drying energy-saving and environmentally friendly patented technology; important core components using servo-driven control module, high-speed operation, to ensure that the entire machine tension control accuracy.



#### 生产线规格型号 | Production line Specification

设备规格	最高涂布速度	基材宽度	涂布方式	放收卷径	接料方式
Equipment specification	Operating speed	Base material width	Coating method	Unwind / Winding Diameter	Splicing method
1250-2100 mm	Max.150 m/min	400-2100 mm	辊涂式	Φ800 mm	不停机自动驳接

## 单/双面涂隔膜涂布设备系列

### Single / double-sided coating diaphragm coating equipment series

**设备介绍:** 水性隔膜涂布机由放卷单元、预热单元、牵引涂布单元、电加热热风烘箱干燥单元、定型冷却单元、收卷单元及电控系统等组成；把搅拌好的浆料均匀涂覆在基材上，保证尺寸、重量等在设计规格范围内，经干燥定型处理后收卷，为后工序做好前期准备，该机适用于电池隔离膜层的涂料均匀涂布。

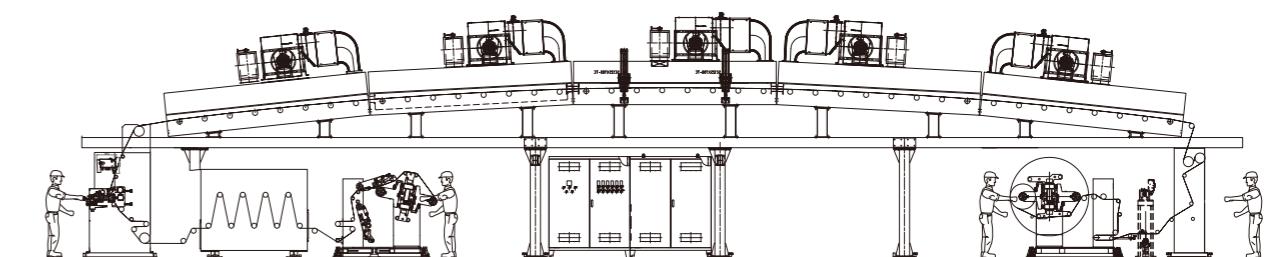
**设备优点:** 本机集光、机、电气于一体，经过精心设计、精密加工制造、精细装配而成，具有涂布均匀、收卷盘面整齐、运行张力平稳、操作方便，是十分理想的隔膜水性涂布设备。

水性隔膜涂布机设计有立式和卧式两种机型供客户选择。

**Equipment Description:** Water-based diaphragm coating machine by the unwinding unit, preheating unit, Haul-off coating unit, electrically heated hot air oven drying unit, shaping and cooling unit, winding unit and electronic control system, etc.; the mixing of slurry uniformly coated on the substrate to ensure that the size, weight, etc. In the design specifications, after drying and shaping treatment after the winding for the latter process to make good preparations for the machine for the battery isolation film layers of the machine is suitable for the uniform coating of the battery isolation film layer.

**Advantages of equipment:** This machine integrates optical, mechanical and electrical in one, after careful design, precision machining and manufacturing, fine assembly, with uniform coating, neat winding disk, smooth running tension, easy to operate, it is a very ideal water-based diaphragm coating equipment.

The water-based diaphragm coating machine is designed with vertical and horizontal models for customers to choose.



#### 生产线规格型号 | Production line Specification

设备规格	最高涂布速度	涂布层厚度	涂布方式	放收卷径	接料方式
Equipment specification	Operating speed	Coating thickness	Coating method	Unwind / Winding Diameter	Splicing method
1300 mm	Max.200 m/min	1.0-4.0 $\mu\text{m}$	连续转移吻涂/喷涂方式	Φ500 mm	不停机自动驳接