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NEW ENERGY PHOTOVOLTAIC MATERIALS



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新能源光伏材料设备

金纬机械
JWELL MACHINERY



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

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+
个制造基地
Manufacture Bases

500+
独家专利技术
Patents

1,000,000m²+
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 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

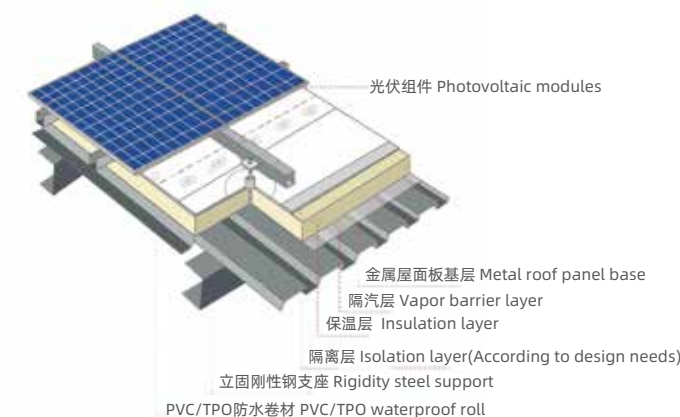
连续11年荣获中国塑料机械挤出行业排名首位
Ranked first in China's plastic machinery extrusion industry for 11 consecutive years

We Know
Extrusion

BIPV Building-integrated Photovoltaics BIPV光伏建筑一体化

BIPV就是光伏建筑一体化，是一种将太阳能发电的产品集成到建筑上的技术。

BIPV is building-integrated photovoltaics, a technology that integrates solar power generation products into buildings.



TPO Polymer Roofing Waterproof Roll Production Line TPO高分子屋面防水卷材生产线

TPO防水卷材具有卓越的耐候性能和优异的热风焊接性能，拉伸强度高，伸长率大，适用于建筑外露或非外露的屋面防水层，尤其适用于轻型钢结构屋面，可以完美匹配光伏屋面施工。是大型工业厂房、公用建筑、光伏一体化建筑等屋面的首选防水材料。

TPO waterproofing membrane has excellent weather resistance and hot air welding performance, high tensile strength, high elongation, suitable for building exposed or non-exposed roof waterproofing layer, especially for light steel roofing, can perfectly match the construction of photovoltaic roofing. It is the preferred waterproofing material for roofs of large industrial plants, public buildings, photovoltaic integrated buildings, etc.



生产线规格型号 Production line Specification

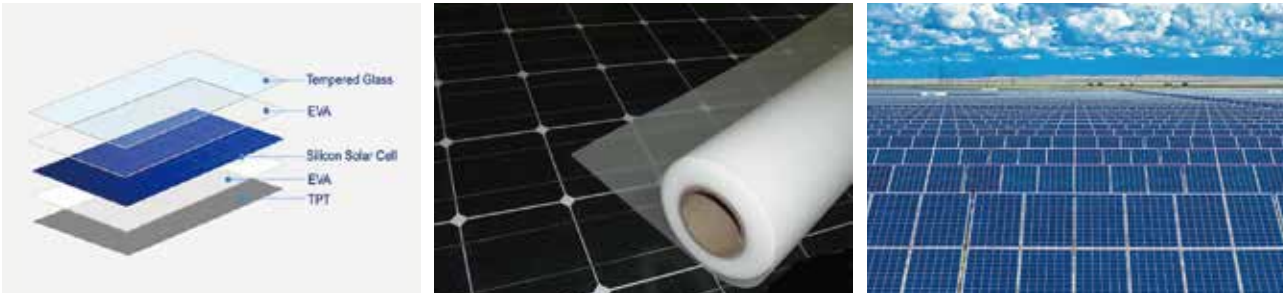
机型 Model	制品厚度 Products thickness(mm)	制品宽度 Products width(mm)	最大挤出产量(kg/h) Max. output
JWS150/35	1.0-1.5	1200-2400mm	650-750
JWS180/35	1.0-1.5	1200-2400mm	800-1200
JW75/44+JW85/44	1.0-1.5	1200-2400mm	1000-1200

EVA/POE Solar Film Extrusion Line

EVA/POE太阳能封装膜生产线

全自动的称重式计量装置，保证多种固体、液体添加助剂及原料高精度喂料；低温挤出系统在保证充分混炼塑化的情况下，防止助剂提前固化交联；流延部分的特殊设计，完美的解决了粘辊、剥离问题；独特的在线回火去应力装置；生产线中多处张力控制系统，使富有弹性的片材在冷却、牵引及收卷过程中平稳输送；在线自动测厚和瑕疵检测装置提供了封装膜制品品质的实时反馈。

Automatic gravimetric feeding system makes sure variety of solid, liquid additives and raw materials high-precision feeding.Low-temperature extrusion systems to ensure adequate mixing in the premise of plastination to prevent crosslinking additives. Special design of Casting part give the perfect solution to roller adhibition and water spalling.Special online tempering device to get rid of inner stress. Tension control system ensure the flexible sheets conveying placidly during cooling , pulling and winding process.The on-line thickness measuring and defect inspecting system can provide real-time feedback of the production quality of EVA/POE solar film.



生产线规格型号 Production line Specification

机型 Model	挤出机规格 Extruder type	制品厚度 Products thickness(mm)	最大挤出产量(kg/h) Max. output
单机线 Single extrusion	JWS160	0.2-1.0	300-450
共挤线 Co-extrusion	JWS160+JWS180	0.2-1.0	750-850
共挤线 Co-extrusion	JWS180+JWS180	0.2-1.0	800-1000
共挤线 Co-extrusion	JWS180+JWS200	0.2-1.0	900-1100

PP/PE Solar Photovoltaic Cell Backsheet Proudction Line

PP/PE光伏电池背板生产线

该生产线用于生产高性能、创新性的符合绿色制造趋势的无氟太阳能光伏背板；生产线采用多层共挤技术，根据原料的流变性来设计专用螺杆结构，通过精准的多层分配技术、独特的回火定型设计，配合高精度的测厚仪、视觉检测系统和全自动的收卷系统，充分保障了制品的优良品质。

This production line is used to produce high-performance, innovative fluorine-free solar photovoltaic backsheets that conform to the trend of green manufacturing; the production line adopts multi-layer co-extrusion technology, and designs a special screw structure according to the rheology of raw materials. The unique tempering setting design, combined with high-precision thickness gauge, visual inspection system and automatic winding system, fully guarantees the excellent quality of products.



生产线规格型号 Production line Specification

机型 Model	挤出机规格 Extuder type	制品厚度 Products thickness(mm)	最大挤出产量(kg/h) Max. Output
三机共挤线 3 extruders co-extrusion	JWS75+JWS130 +JWS75	0.18-0.4	750-850
五机共挤线 5 extruders co-extrusion	JWS65+JWS65+JWS120 +JWS65+JWS65	0.18-0.4	800-900

Conical Type Mixer

锥形混合机

锥形混合机的搅拌部件为一条长螺旋或两条不对称螺旋；它们在绕自己的轴线转动(自转)的同时,还借助悬臂的转动环绕锥形容器的中心轴沿锥形容器的内壁做行星运动(公转)；该设备通过螺旋的公、自转使物料反复提升，在锥体内产生剪切、对流、扩散等复合运动，从而达到混合均匀的目的。本机的优点是适用范围广、容积大、出料无残留、节能。

◎锥形混料机混料采用变频电机、变频器全过程转速可调，可根据釜内温度传感器数据调节转速，并可在人机界面设置进料转速、混料过程转速、排料转速，系统柔性大，系统设置、操作简单。

◎返料系统可在人机界面上任意设置返料的起始时间、返料持续时间，返料全自动，无需人工参与。

◎混料机根据接料仓重量信号自动选择A/B仓通过三通阀进行排料。

◎排料过程通过激振强磁快清理除铁器进行除铁。

◎每套系统运行参数可独立设置。

The stirring part of the conical type mixer is a long helix or two asymmetrical helixes; while they rotate around their own axis (autorotation), they also use the rotation of the cantilever to surround the central axis of the conical container along the inner wall of the conical container. Planetary motion (revolution); the equipment repeatedly lifts the material through the revolution and rotation of the spiral, and produces compound motions such as shearing, convection, and diffusion in the cone, so as to achieve the purpose of uniform mixing. The advantages of this machine are wide application range, large volume, no residue in the output, and energy saving.

◎The conical mixer adopts variable frequency motor for mixing, and the speed of the whole process of the frequency converter can be adjusted. The speed can be adjusted according to the temperature sensor data in the kettle, and the feeding speed, mixing process speed and discharge speed can be set on the man-machine interface. , The system is flexible, and the system setting and operation are simple.

◎The material return system can arbitrarily set the starting time and duration of material return on the man-machine interface, and the material return is fully automatic without manual participation.

◎The mixer automatically selects the A/B bin to discharge through the three-way valve according to the weight signal of the receiving bin.

◎During the discharge process, iron removal is carried out by exciting strong magnetic quick cleaning iron remover.

◎The operating parameters of each system can be set independently.



Centralized Conveying System

集中输送系统

整厂自动化设计，将原料区与生产区分开管理，节省空间。现场作业环境清洁美观，提升环境质量，降低人员流动率。客户参观时有助提升企业整体形象，获得良好印象，从而增加订单。设立原料快速选料站，通过专用的集中供料几配料软件实现智慧化生产，提高生产效率。可适用于多种原料和产品之柔性生产模式。可根据工艺要求，和物料的特性进行定制化的设计，可进行单料配料系统、多料配料系统，混合配料等多种计量方式，精度可高0.1-0.5%。满足贵公司在生产方面的大部分需求，减少人工参与，提高生产效率，并满足柔性化生产。

The automatic design of the whole plant separates the management of the raw material area and the production area to save space. The on-site operating environment is clean and beautiful, improving the environmental quality and reducing the turnover rate of personnel. When customers visit, it can help improve the overall image of the company, get a good impression, and increase orders. Set up a rapid material selection station for raw materials, and realize intelligent production and improve production efficiency through dedicated centralized material feeding and batching software. Flexible production mode applicable to various raw materials and products. According to the process requirements and the characteristics of materials, customized design can be carried out, and various metering methods such as single-material batching system, multi-material batching system, and mixed batching can be carried out, and the accuracy can be higher by 0.1-0.5%. Meet most of your company's production needs, reduce manual participation, improve production efficiency, and meet flexible production.

