

JWELL[®]
Professional Extrusion

JWELL®
Professional Extrusion



金纬机械 智能制造

浙江金纬片板膜设备制造有限公司是金纬机械旗下的又一个重要发展战略中心和制造基地，位于浙江省嘉兴市海宁斜桥工业园区。

公司专注于塑料薄膜挤出设备的设计、研发与制造。公司产品已遍布全国各地，并出口到俄罗斯、印度、韩国、印尼、中东、非洲、南美洲、西班牙、意大利等100多个国家和地区，深受客户好评。

Zhejiang **JWELL** Sheet and Film Equipment Co., Ltd. is another important strategic development center and manufacturing base of **JWELL** Machinery. It is located in Xieqiao Industrial Park, Haining, Zhejiang Province. We focus on the design, development and manufacturing of cast film extrusion equipment.

董事长：何海潮

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3/5layer stretch hood blown film solution

3/5层冷拉伸套管膜吹膜解决方案

- Whole line control PLC:Siemens S7-1500 series;
- Online automatic airring&thickness measurement&control, imported KUNDIG thickness measurement&control system;
- The entire line uses Servo motors, the extruder uses Servo motors, all nip motors use German geared motors, the gearbox uses German gearbox, and the nip drive uses SIEMENS Cu320;
- Blown film DIE: Unique technology for blown film processing;
- Fully automatic central&surface winding machine, automatic roll changing/automatic winding/automatic unloading;
- The winding is controlled based on the taper tension of the coil diameter to ensure smooth winding, especially for large diameter winding.
- After the diameter of the membrane coil increases,the tension of the membrane coil is ensured;
- Tension control: E+L imported tension sensor from Germany, which ensures stable tension and small fluctuations, ensuring that the film does not stretch or deform;
- The central winding and gap winding modes can be freely switched for easy operation.
- Surface winding driven by Siemens servo motor
- Central winding driven by Siemens servo motor
- The automatic roll changing mode can be divided into two options:
 - length roll changing and diameter roll changing, After setting the length or diameter, the roll can be automatically changed with one click operation;
 - The center drive is driven by a German geared motor, with stable output;Hydraulic unwinding, safe and stable, can unload film at any position, with flexible operation;
 - The design of the unloading hydraulic manipulator is safe and stable, with no shaft protection;
 - Intelligent protection function for changing the coil, predicting and preventing injuries caused by operational errors.

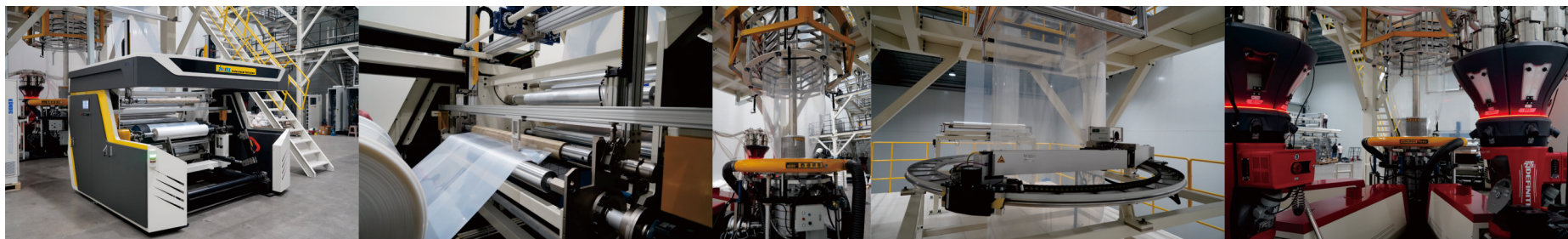


Technical characteristics

技术特点 ▼

- 整线控制PLC西门子S7-1500系列；
- 自动风环，瑞士全套进口昆帝格K-500测厚控制系统；
- 整线采用伺服电机/伺服驱动，挤出机采用菲仕伺服电机，牵引电机全部采用西门子伺服电机，驱动全系列采用西门子伺服CU320系列，齿轮箱采用西门子SIMOGEAR；
- 针对冷拉伸套管膜设计的专用螺杆以及模具流道；
- 模具加工采用进口超高精度五轴加工中心加工；
- 全自动中心表面收卷机，自动换卷/自动上卷；
- 收卷根据卷径大小锥度张力控制，保证收卷平整，尤其是大直径收卷，膜卷直径变大之后保证膜卷张力；
- 张力控制采用E+L德国进口张力传感器，张力稳定，波动小，保证薄膜不拉伸变形；
- 两种换卷模式自由切换，方便操作，手动换卷模式和自动换卷模式。自动换卷模式可选长度换卷和直径换卷两种，设定长度和直径后自动换卷，一键操作；
- 中心驱动采用西门子伺服电机驱动，出力稳定；
- 液压卸卷，安全平稳，可在任意位置卸膜，操作灵活；
- 收卷架前后移动比例阀控制，可根据薄膜厚薄灵活设置使用；
- 抓轴机械手设计安全平稳，带无轴保护；
- 换卷带智能保护功能，预判及预防因操作失误带来的伤害；

DETAIL DISPLAY 细节展示



全自动中心表面收卷机

全自动换卷
机械手输送
一键操作

Fully automatic central&surface winding machine

automatic roll changing
robot roll delivery
easy to operation

全自动换卷

方便操作
飞刀断膜
安全保护

automatic roll changing

easy to operation
flying knife cutting film
safty protection

升降式2+1自动风环

上风环可升降
产能高 膜泡稳定
厚薄均匀

Elevated 2+1 automatic air ring

Elevated upper air ring
high output
stable bubble
good thickness

测厚控制系统

全套瑞士昆帝格进口
响应精度高

thickness measurement

imported KUNDIG
High response accuracy

高产量挤出机

伺服电机直连驱动
特殊设计的专用螺杆

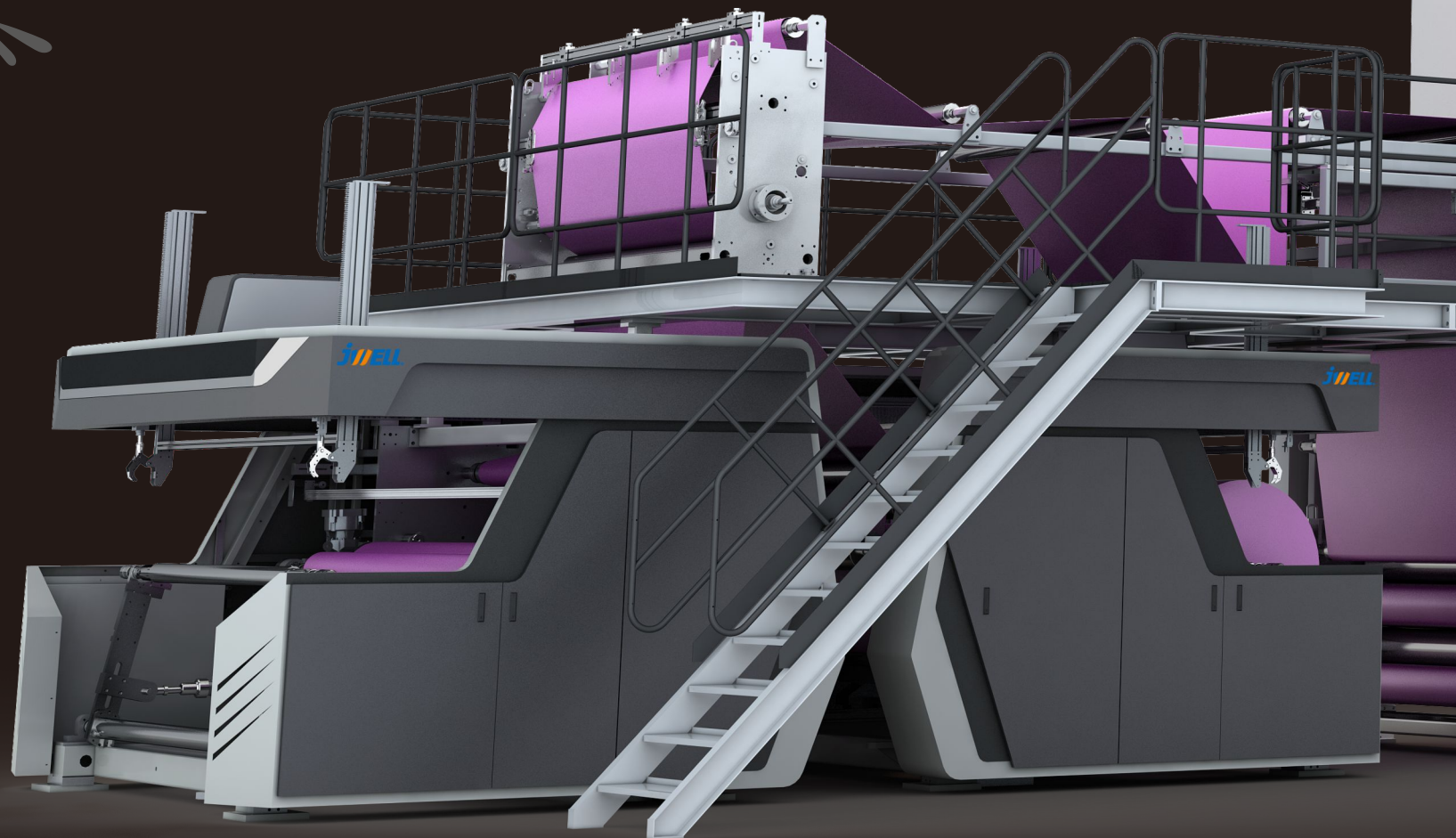
high output extruder

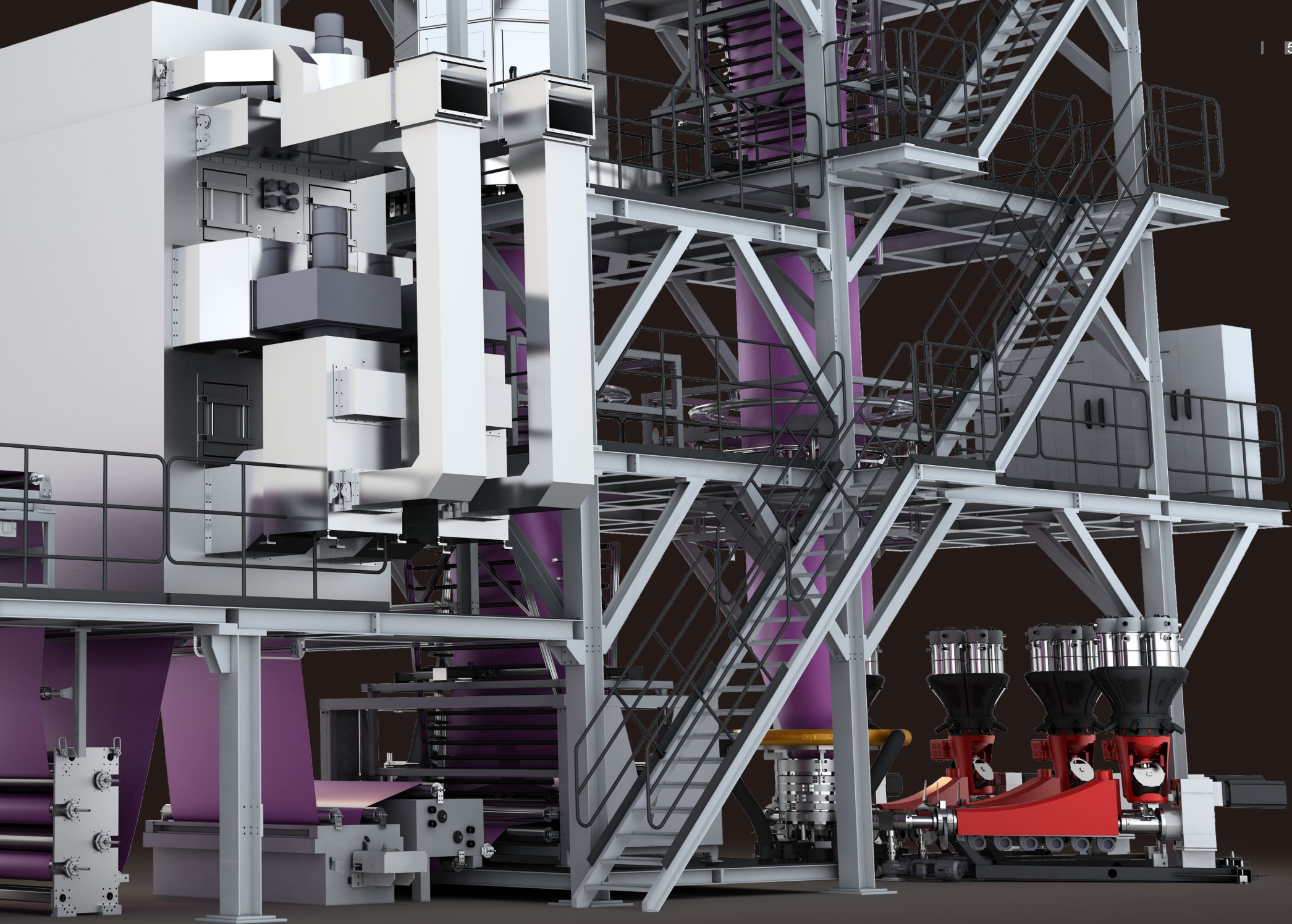
servo motor drive directly
special designed screw

5 layer online MDO&coating single material&hign barrier blown film solution

5层共挤在线MDO+在线涂布单一材料高阻隔吹膜解决方案

OTR < 0.1
透氧 < 0.1





5 layer online MDO&coating single material&high barrier blown film solution

Best solution for single material

Replacing aluminum foil (good choice for liquid milk package)

Easy to recycle

Degradable

Microwave heating available

Technical characteristics

- Whole line control PLC: Siemens S7-1500 series;
- Online automatic airring&thickness measurement&control, imported KUNDIG thickness measurement&control system;
- The entire line uses Servo motors, the extruder uses Servo motors, all nip motors use German geared motors, the gearbox uses German gearbox, and the nip drive uses SIEMENS Cu320;
 - Blown film DIE: Unique technology for blown film processing;
 - Special designed MDO online, stretch ratio can be set easily;
 - High barrier material coating on line;
 - Air cushion oven, no contact with the film;
- Fully automatic central&surface winding machine, automatic roll changing/automatic winding/automatic unloading;
- The winding is controlled based on the taper tension of the coil diameter to ensure smooth winding, especially for large diameter winding;
 - After the diameter of the membrane coil increases, the tension of the membrane coil is ensured;
- Tension control: E+L imported tension sensor from Germany, which ensures stable tension and small fluctuations, ensuring that the film does not stretch or deform;
 - The central winding and gap winding modes can be freely switched for easy operation.
 - Surface winding driven by Siemens servo motor;
 - Central winding driven by Siemens servo motor;
 - The automatic roll changing mode can be divided into two options;
- length roll changing and diameter roll changing, After setting the length or diameter, the roll can be automatically changed with one click operation;
- The center drive is driven by a German geared motor, with stable output; Hydraulic unwinding, safe and stable, can unload film at any position, with flexible operation;
 - The design of the unloading hydraulic manipulator is safe and stable, with no shaft protection;
- Intelligent protection function for changing the coil, predicting and preventing injuries caused by operational errors.

5层共挤在线MDO+在线涂布单一材料高阻隔吹膜解决方案

代替铝箔 液奶包首选

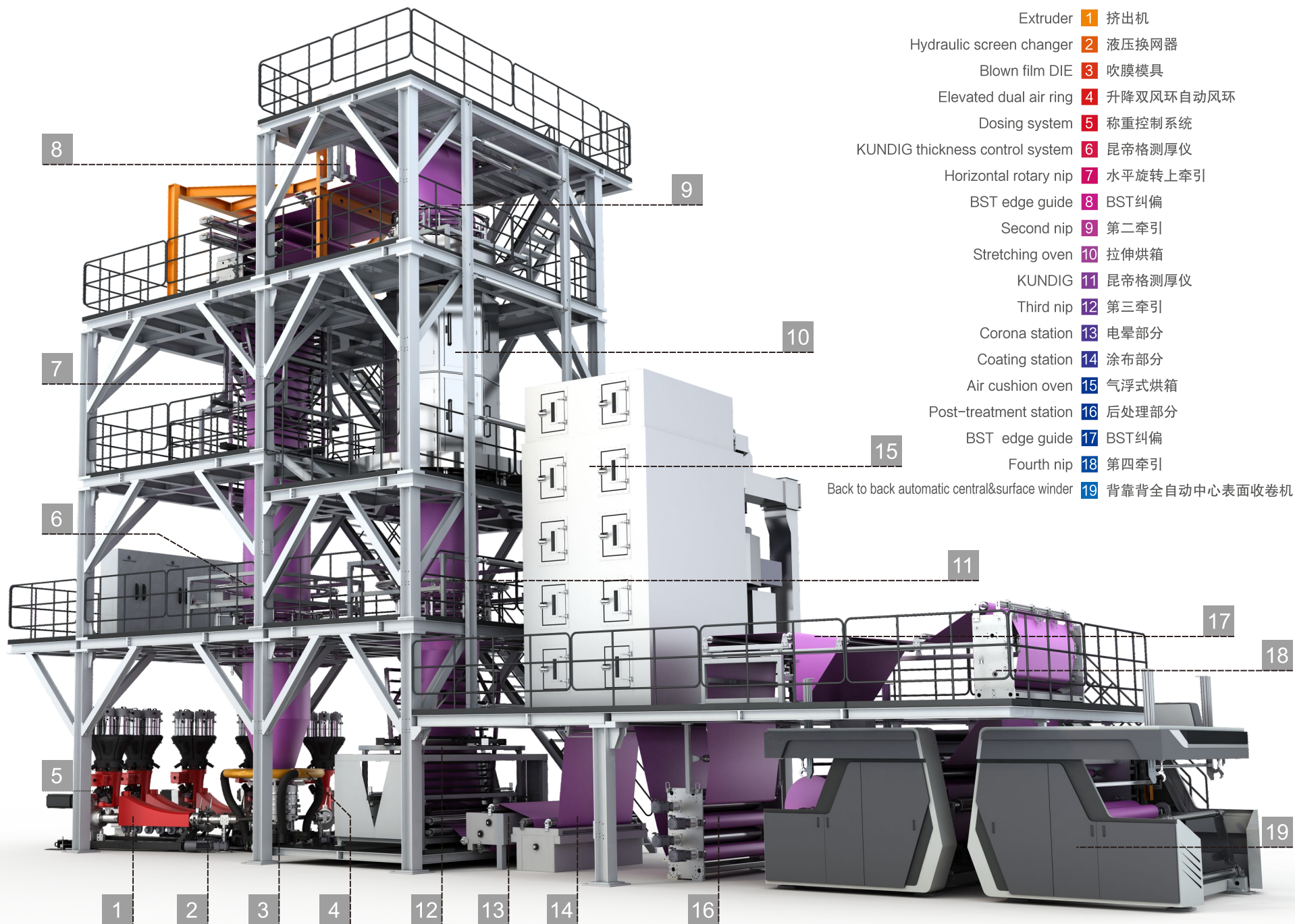
易回收可降解

可微波加热

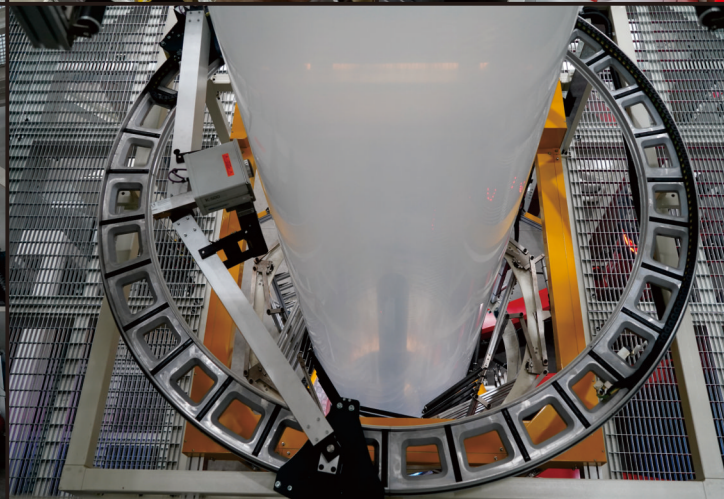
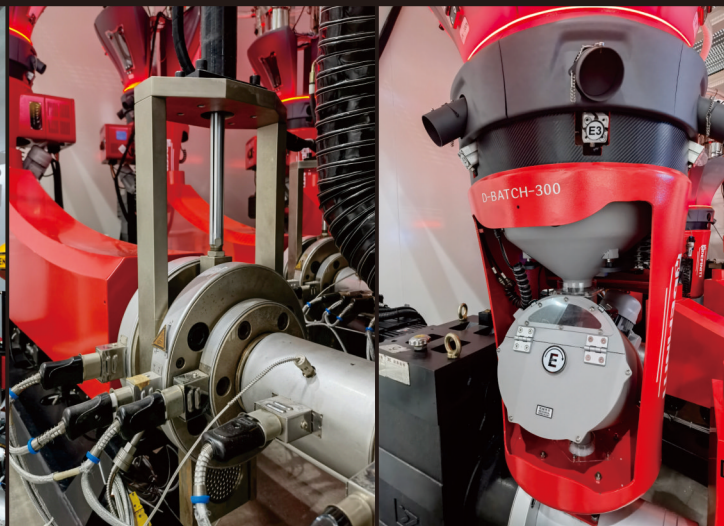
OTR < 0.1

透氧 < 0.1

- 整线控制PLC西门子S7-1500系列;
- 自动风环, 瑞士全套进口昆帝格K-500测厚控制系统;
- 整线采用伺服电机/伺服驱动, 挤出机采用菲仕伺服电机, 牵引电机全部采用西门子伺服电机, 驱动全系列采用西门子伺服CU320系列, 齿轮箱采用西门子SIMOGEAR;
 - 针对MDOPE设计的专用螺杆以及模具流道;
 - 模具加工采用进口超高精度五轴加工中心加工;
- 特殊方式的在线拉伸, 成品率高, 损耗少, 拉伸比例可控;
 - 双面高阻隔材料在线涂布, 涂层厚薄伺服比例控制;
 - 气浮式烘箱, 不接触膜面;
 - 全自动中心表面收卷机, 自动换卷/自动上卷;
- 收卷根据卷径大小锥度张力控制, 保证收卷平整, 尤其是大直径收卷, 膜卷直径变大之后保证膜卷张力;
 - 张力控制采用E+L德国进口张力传感器, 张力稳定, 波动小, 保证薄膜不拉伸变形;
- 两种换卷模式自由切换, 方便操作, 手动换卷模式和自动换卷模式。自动换卷模式可选长度换卷和直径换卷两种, 设定长度和直径后自动换卷, 一键操作;
 - 中心驱动采用西门子伺服电机驱动, 出力稳定;
 - 液压卸卷, 安全平稳, 可在任意位置卸膜, 操作灵活;
- 收卷架前后移动比例阀控制, 可根据薄膜厚薄灵活设置使用;
 - 抓轴机械手设计安全平稳, 带无轴保护;
- 换卷带智能保护功能, 预判及预防因操作失误带来的伤害;



DETAIL DISPLAY 细节展示



11-LAYER CO-EXTRUSION HIGH-BARRIER BLOWN FILM SOLUTION

Technical characteristics



- Whole line control PLC: Siemens S7-1500 series;
- Online automatic airring&thickness measurement&control, imported KUNDIG thickness measurement&control system;
- The entire line uses Servo motors, the extruder uses Servo motors, all nip motors use German geared motors, the gearbox uses German gearbox, and the nip drive uses SIEMENS Cu320;
- Blown film DIE: Unique technology for blown film processing;
- Fully automatic central&surface winding machine, automatic roll changing/automatic winding/automatic unloading;
- The winding is controlled based on the taper tension of the coil diameter to ensure smooth winding, especially for large diameter winding;
- After the diameter of the membrane coil increases, the tension of the membrane coil is ensured;
- Tension control: E+L imported tension sensor from Germany, which ensures stable tension and small fluctuations, ensuring that the film does not stretch or deform;
- The central winding and gap winding modes can be freely switched for easy operation;
- Surface winding driven by Siemens servo motor;
- Central winding driven by Siemens servo motor;
- The automatic roll changing mode can be divided into two options;
- length roll changing and diameter roll changing, After setting the length or diameter, the roll can be automatically changed with one click operation;
- The center drive is driven by a German geared motor, with stable output; Hydraulic unwinding, safe and stable, can unload film at any position, with flexible operation;
- The design of the unloading hydraulic manipulator is safe and stable, with no shaft protection;
- Intelligent protection function for changing the coil, predicting and preventing injuries caused by operational errors.

11层共挤高阻隔吹膜解决方案

技术特点 ▶

- 整线控制PLC西门子S7-1500;
- 自动风环, 瑞士全套进口昆帝格K-XRAY测厚控制系统;
- 整线采用伺服电机, 挤出机采用菲仕伺服电机, 牵引电机全部采用西门子伺服电机, 齿轮箱采用西门子SIMOGEAR;
- 模具加工采用超高精度加工中心加工, 厚薄偏差小于0.005mm;
- 全自动中心表面收卷机, 自动换卷/自动上卷;
- 收卷根据卷径大小锥度张力控制, 保证收卷平整, 尤其是大直径收卷, 膜卷直径变大之后保证膜卷张力;
- 张力控制采用E+L德国进口张力传感器, 张力稳定, 波动小, 保证薄膜不拉伸变形;
- 两种换卷模式自由切换, 方便操作, 手动换卷模式和自动换卷模式;
- 自动换卷模式可选长度换卷和直径换卷两种, 设定长度和直径后自动换卷, 一键操作;
- 中心驱动采用西门子伺服电机驱动, 出力稳定;
- 液压卸卷, 安全平稳, 可在任意位置卸膜, 操作灵活;
- 收卷架前后移动比例阀控制, 可根据薄膜厚薄灵活设置使用;
- 抓轴机械手设计安全平稳, 带无轴保护;
- 换卷带智能保护功能, 预判及预防因操作失误带来的伤害;

DETAIL DISPLAY 细节展示



- 收卷模式: 表面收卷模式, 中心收卷模式, 间隙收卷模式。
收卷直径可达1500mm, 大直径收卷。
- 锥度张力控制, 保证收卷平整, 尤其是大直径收卷, 膜卷直径变大之后保证膜卷张力。
- 张力控制采用德国进口张力传感器, 张力稳定, 波动小, 保证薄膜不拉伸变形。
- 两种换卷模式自由切换, 方便操作, 手动换卷模式和自动换卷模式。自动换卷模式可选长度换卷和直径换卷两种, 设定长度和直径后自动换卷, 一键操作。
- 中心驱动采用进口伺服电机驱动, 出力稳定。
- 液压卸卷, 安全平稳, 可在任意位置卸膜, 操作灵活
- 收卷架前后移动比例阀控制, 可根据薄膜厚薄灵活设置使用。
- 抓轴机械手设计安全平稳, 带无轴保护。
- 换卷带智能保护功能, 预判及预防因操作失误带来的伤害。



挤出机

采用伺服电机驱动
电机齿轮箱无联轴器直连
采用高效节能带翅片陶瓷加热器
螺杆经有限元优化设计

Extruder

servo motor drive
no couple connection between
motor and gearbox
ceramic heater with cooling fan
special designed screw

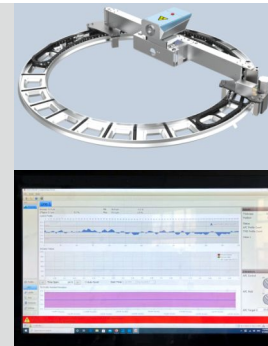


自动风环

双唇唇烟筒式自动风环设计
风道经有限元分析后优化设计
分区细化控制
响应精确

Automatic air ring

dual lip designed air ring
independent zone control
fast response



测厚控制系统

和挤出系统准确对应
和自动风环精确连接
响应迅速, 减少原料浪费
操作界面简单

thickness measurement&control system

according to extrusion system
point to point control to air ring
fast response
easy operation



电柜

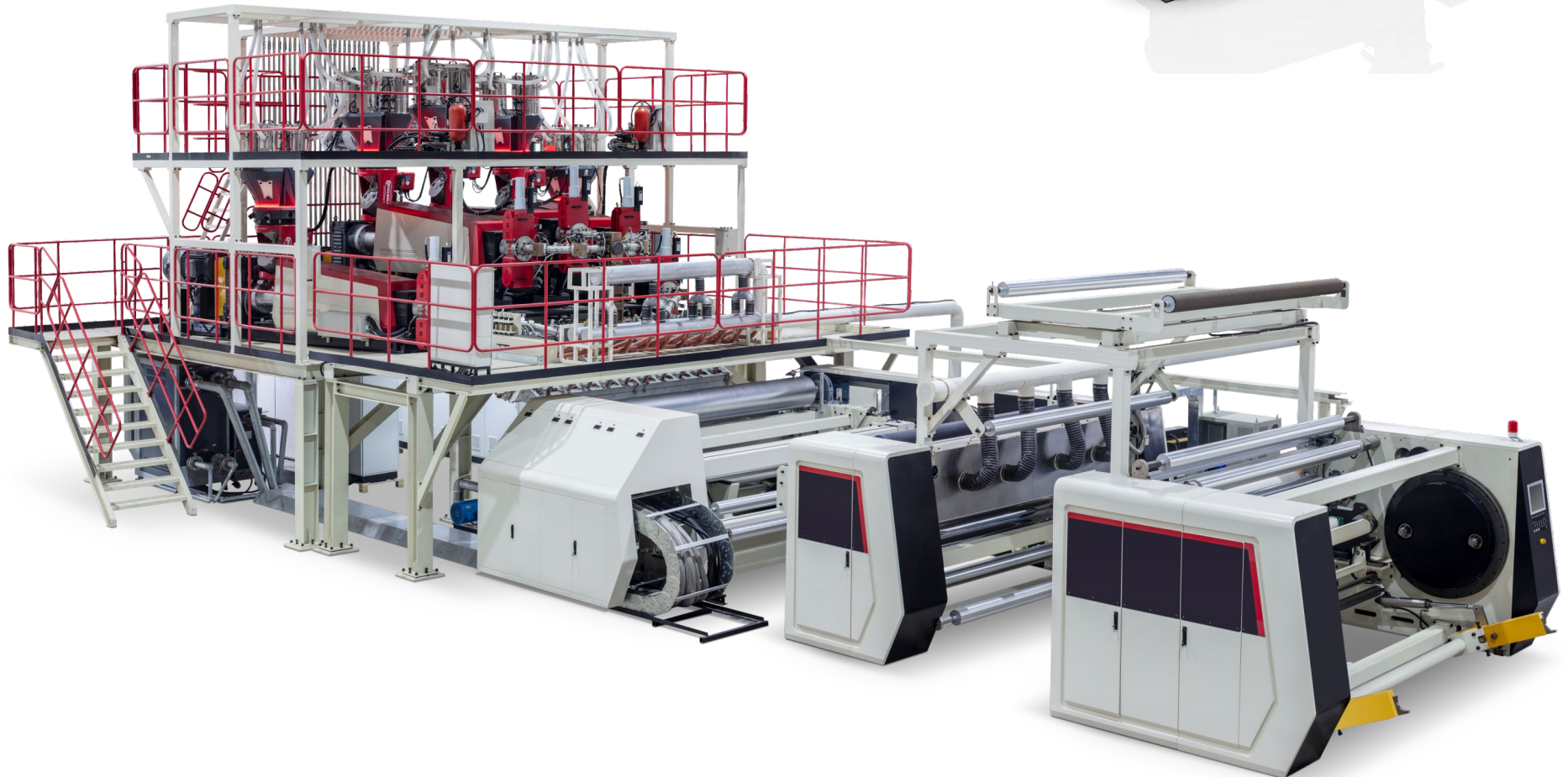
ABB维纳尔低压元件
西门子PLC
布局合理

heating cabinet

ABB/wohner
Siemens PLC
special designed cabinet

ULTRA MULTI LAYER CAST FILM SOLUTION

超多层流延薄膜解决方案



Technical characteristics

技术特点 ▼

- 整线控制PLC西门子S7-1500系列；
- 在线自动测厚，全套进口NDC红外测厚控制系统；
- 整线采用德国电机，挤出机采用西门子电机，牵引电机全部采用德国NORD电机，齿轮箱采用NORD GEAR，牵引驱动采用SIEMENS S120；
- 流延模具：JC-TIMES模内多层共挤独有技术；
- 分配器：JC-TIMES超多层倍增技术；
- 全自动中心转塔收卷机，自动换卷/自动上卷/自动卸卷；
- 收卷根据卷径大小锥度张力控制，保证收卷平整，尤其是大直径收卷，膜卷直径变大之后保证膜卷张力；
- 张力控制采用E+L德国进口张力传感器，张力稳定，波动小，保证薄膜不拉伸变形；
- 中心收卷和间隙收卷两种收卷模式自由切换，方便操作。自动换卷模式可选长度换卷和直径换卷两种，设定长度或者直径后自动换卷，一键操作；
- 中心驱动采用德国NORD减速电机驱动，出力稳定；
- 液压卸卷，安全平稳，可在任意位置卸膜，操作灵活；
- 卸卷液压机械手设计安全平稳，带无轴保护；
- 换卷带智能保护功能，预判及预防因操作失误带来的伤害。

- Whole line control PLC siemens s7-1500 series;
- Online automatic thickness measurement&control, imported NDC infrared thickness measurement&control system;
- The entire line uses Servo motors, the extruder uses Servo motors, all nip motors use German geared motors, the gearbox uses German gear, and the nip drive uses SIEMENS S120;
- Casting DIE: JC-TIMES technology for multi-layer co extrusion;
- Distributor:JC-TIMES ultra multi-layer multiplication technology;
- Fully automatic central turret winding machine, automatic roll changing/automatic winding/automatic unloading;
- The winding is controlled based on the taper tension of the coil diameter to ensure smooth winding, especially for large diameter winding.

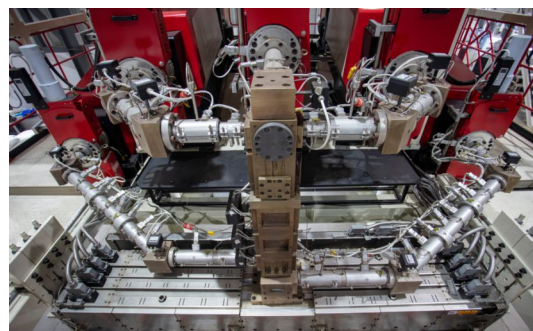
After the diameter of the membrane coil increases,the tension of the membrane coil is ensured;

- Tension control: E+L imported tension sensor from Germany, which ensures stable tension and small fluctuations, ensuring that the film does not stretch or deform;
- The central winding and gap winding modes can be freely switched for easy operation.

The automatic roll changing mode can be divided into two options:

length roll changing and diameter roll changing, After setting the length or diameter, the roll can be automatically changed with one click operation;

- The center drive is driven by a German geared motor, with stable output;Hydraulic unwinding, safe and stable, can unload film at any position, with flexible operation;
- The design of the unloading hydraulic manipulator is safe and stable, with no shaft protection;
- Intelligent protection function for changing the coil, predicting and preventing injuries caused by operational errors.





www.jwell.cn

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