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招商热线：高格广泰公司 Tel:0577-8558383

Allwell Nonwoven Technology

欧诺™ 无纺布设备 - 效率首选

# Nonwoven Machinery

Excellent  
non-woven equipment  
suppliers



**OYANG 欧诺™**

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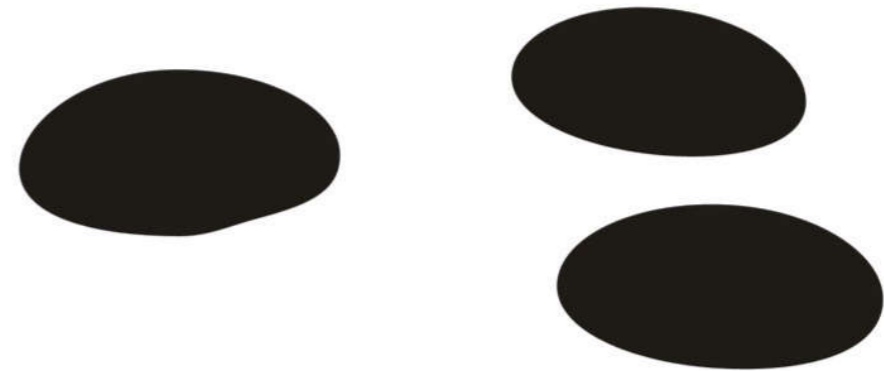


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CE ISO9001:2008

**OYANG 欧诺™**

*Nonwoven  
Machinery*



Siyakwamukela

willkommen

maligayang pagdating

欢迎

歡迎

bem-vindo

환영

**Our values 我们的价值观**

- Teamwork ● 团队合作
- Responsibility ● 责任心
- Commitment ● 敬业
- Continuous improvement ● 持续改进

добро пожаловать

**Our mission 我们的使命**

- To be a preferred supplier in nonwoven fabric production equipment industry and famous for international R&D, quality, service, flexibility and reliability
- 成为无纺布设备行业的首选整体方案供应商。以世界级研发、质量、服务、灵活和可靠而著称。

有你，我们的未来才会更精彩

Join us! We can achieve wonderful future

Selamat Datang

ຍິນດີຕ້ອນຮັບ

بى حر ت

bienvenido

歡迎

आपका स्वागत है

accueil

sambutan

Välkommen

καλωσόρισμα

sambutan



**Polypropylene (PP) Spunbonded  
 Nonwoven Fabric Application**  
**聚丙烯(PP)纺粘无纺布用途**

High processed products from PP spunbonded nonwoven fabric is widely used in garments, shoes, hats, bedding articles, inner lining, sofa, decorative materials, medical and hygienic products, civil works, water-proof materials, travel products, automotive products, agricultural protection, etc.

This polypropylene (PP) spunbonded nonwoven fabric production line is more reasonable in design and operation after practices for many years and improvements by our company. After absorbing advanced technology from other similar equipments from home and abroad, this fabric production line has advantages of superior performance, beautiful color, and good quality. It can form a fibre web symmetrically and is complete in types. It can also add recycled material and stuffing to reduce the cost of products.

聚丙烯纺粘法无纺布的深加工产品被广泛应用于服装鞋帽床上用品, 内里衬里, 沙发, 装饰材料, 医疗卫生, 土木工程, 防水材料, 旅游用品, 汽车用品, 农用防护等领域;

该聚丙烯(PP)纺粘无纺布设备经过本厂多年的生产操作实践而不断更新换代使设计、操作更加合理。同时吸收了国外同类设备的先进技术, 规格齐全、性能优越、成网均匀、色泽美观、品质优良, 并且还可以在原料上加入再生料和填充料以降低产品的成本。

**01**

**Household Products:**  
 Suit Cover, Knitwear Cover, Garderobe Cover, Table Cloth, Other Products Include Pillow Slip, Bedspread, Car Cover, Cover For Quilt, Computer, Air Conditioner And Fan Cover Etc.  
**家居用品:**  
 西装套, 毛衣套, 衣柜套, 桌布, 沙发床垫用布, 吊衣架柜, 鞋架, 汽车罩, 空调罩, 电脑罩, 报纸袋等家居用品。

**02**

**Medical and Hygienic Products**  
 Operation clothes, exposure suit, disinfect cloth, respirator, diaper, duster cloth, wiping cloth, wet face cloth, flexible towel roll, hairdressing products, sanitary towel, pad and any other cloth for single use.  
**医疗卫生用品:**  
 手术服、防护服、消毒包布、口罩、尿片、民用抹布、擦拭布、湿面巾、柔巾卷、美容用品、卫生巾、卫生护垫及一次性卫生用布等。

**03**

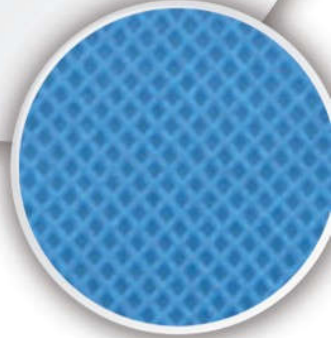
**Daily Commodity Products:**  
 Cloth Sleeves, Apron, Sauna Cloth Etc. Common Purpose Bags Like Shopping Bag, Gift Bag, Advertising Bag, Suit Bag, Quilt Storage Bag, Samples Handbag, Ads Bag, Garbage Bag Etc.  
**日用劳保用品:**  
 袖套, 围裙, 桑拿套服等日用产品; 购物袋, 礼品袋, 西装袋, 被絮储放袋, 程式样手提袋, 广告袋, 垃圾袋等综合袋。

**04**

**For Garments And Shoes:**  
 Clad And Lining, Shoes Lapping Cloth, Shoes Bag, Shoes Cover Etc.  
**服装鞋革:**  
 内里衬里, 鞋革衬布, 鞋袋, 鞋套, 等服饰材料。

**05**

**Industrial and Agricultural Purpose**  
 Roadbed Cloth, Dykes And Dams Cloth, Waterproof Rolling Fabric, Covering Cloth, Car Interior Decoration Cloth, Filtering Material, Oil Absorption Material Etc.  
**工农业用途:**  
 路基布, 护堤布, 防水卷材用布, 覆盖布, 汽车内装用布, 过滤材料, 吸油材料, 等工农业材料



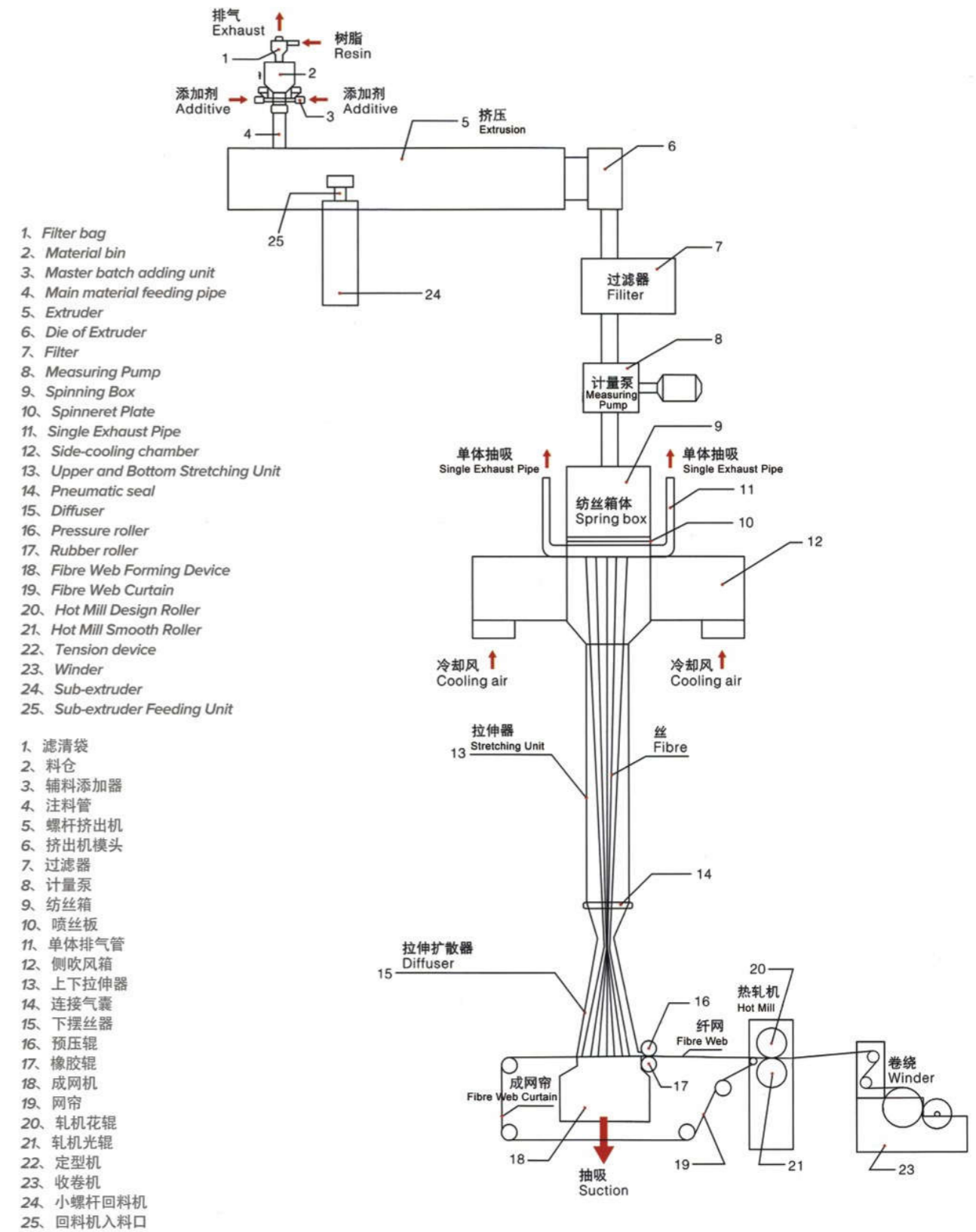


## Spunbonded Nonwoven Fabric Production Line of Single-S 纺粘无纺布单S生产线

### Production Line Main Technical Indicators 生产线主要技术指标

- |  |  |  |
|--|--|--|
| <ul style="list-style-type: none"> <li>• Single-S 1600mm(Product width)<br/>Machine width: 2950mm<br/>Speed: 120m/min<br/>GSM: 10-250g/m<sup>2</sup><br/>Products according to 70g/square meter,<br/>4.5-5t/24Hours</li> <li>• 单S 1600mm (产品净宽)<br/>机器宽幅: 2950mm<br/>速度: 120m/min<br/>克重范围: 10-250g/m<sup>2</sup><br/>产品按70g/平方米, 4.5-5T/24小时</li> </ul> | <ul style="list-style-type: none"> <li>• Single-S 2400mm(Product width)<br/>Machine width: 3750mm<br/>Speed: 120m/min<br/>GSM: 10-250g/m<sup>2</sup><br/>Products according to 70g/square meter,<br/>7-8t/24Hours</li> <li>• 单S 2400mm (产品净宽)<br/>机器宽幅: 3750mm<br/>速度: 120m/min<br/>克重范围: 10-250g/m<sup>2</sup><br/>产品按70g/平方米, 7-8T/24小时</li> </ul> | <ul style="list-style-type: none"> <li>• Single-S 3200mm(Product width)<br/>Machine width: 4550mm<br/>Speed: 120m/min<br/>GSM: 10-250g/m<sup>2</sup><br/>Products according to 70g/square meter,<br/>9-10t/24Hours</li> <li>• 单S 3200mm (产品净宽)<br/>机器宽幅: 4550mm<br/>速度: 120m/min<br/>克重范围: 10-250g/m<sup>2</sup><br/>产品按70g/平方米, 9-10T/24小时</li> </ul> |
|--|--|--|

### S Working Principle Diagram 单S工作原理示意图

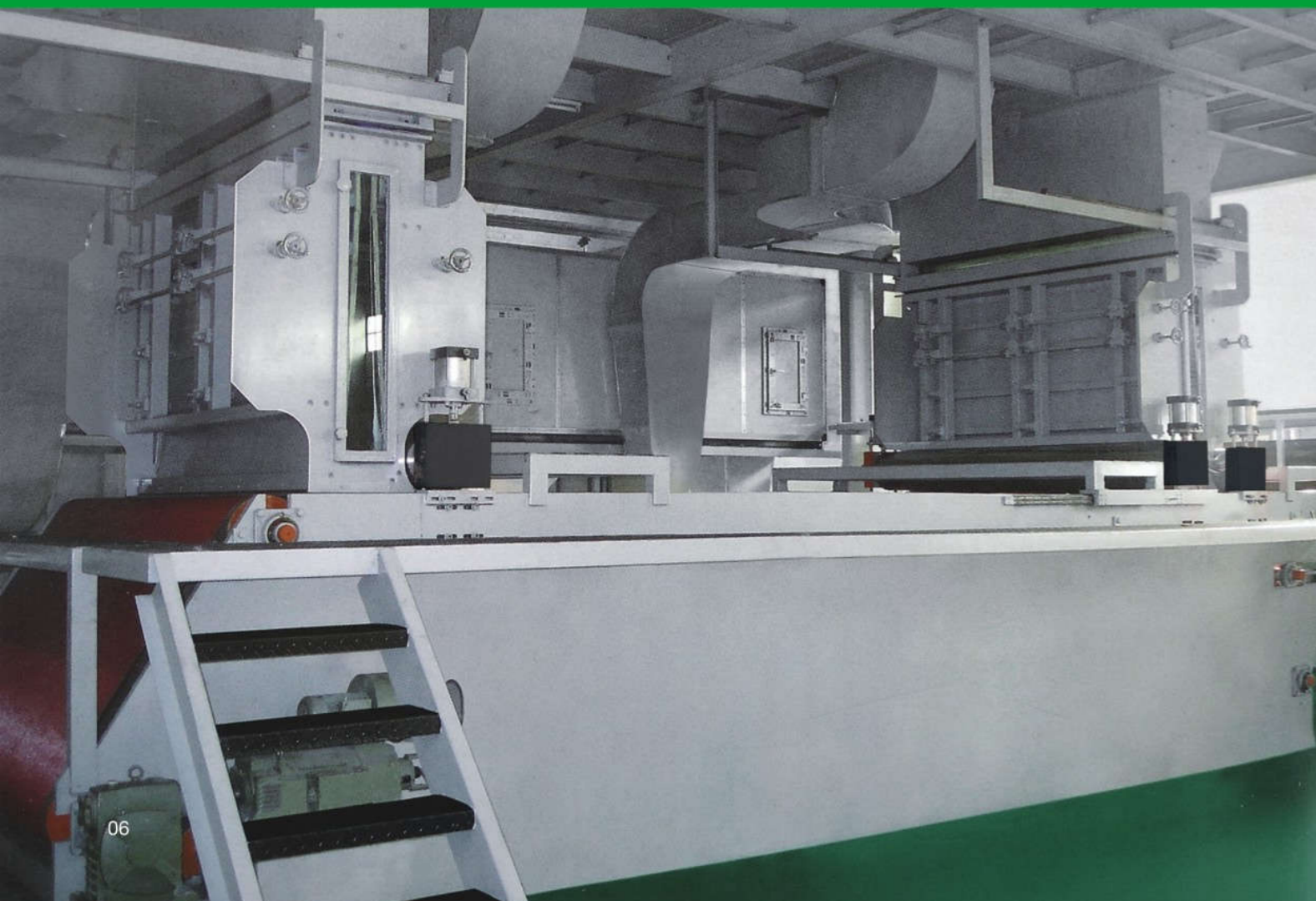


Production Line Main Technical Indicators  
生产线主要技术指标

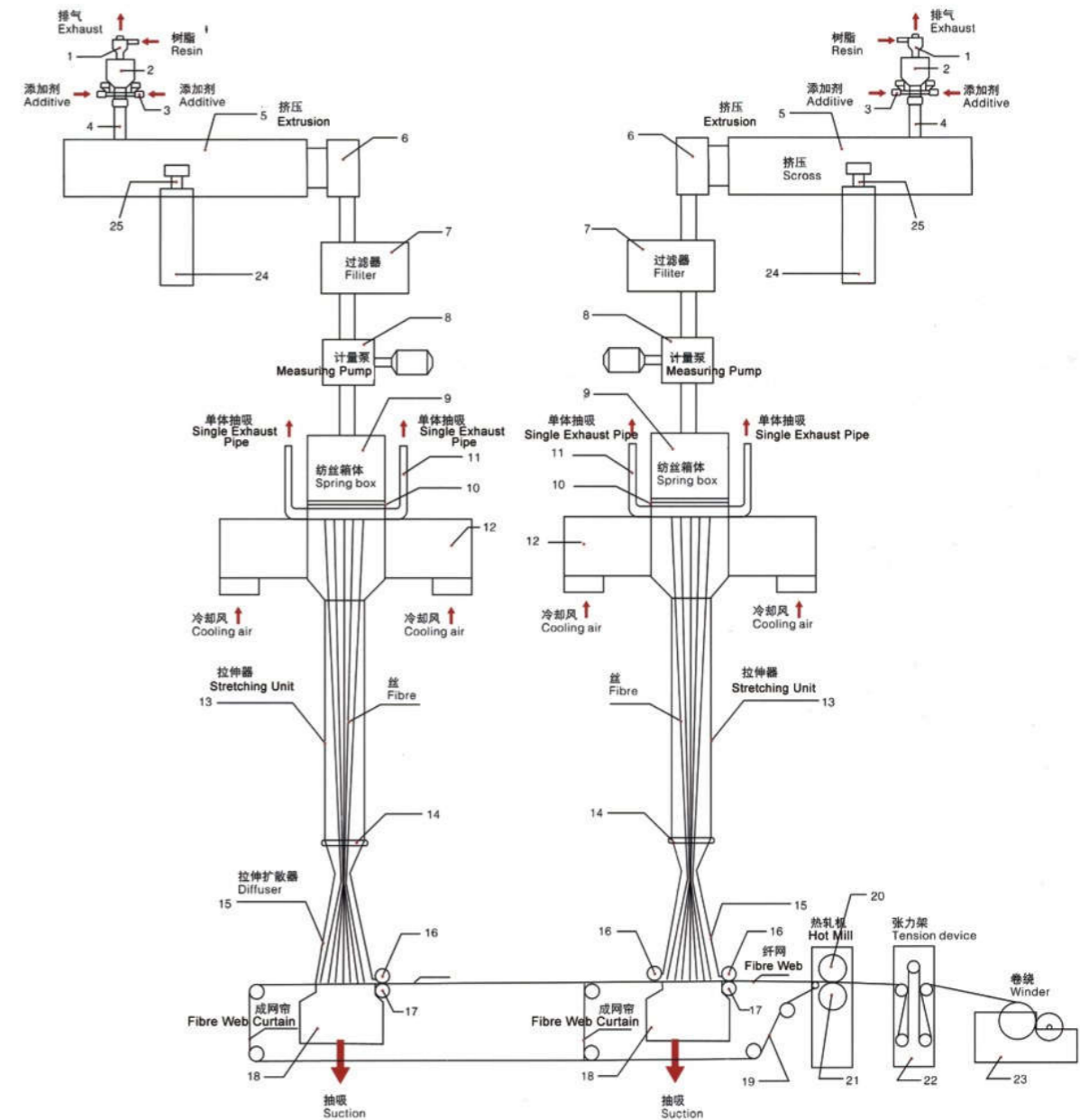
- Double-S 3200mm(Product width)  
Machine Width: 4550mm  
Speed: 300m/min  
GSM: 12-150g/m<sup>2</sup>  
Products according to 30g/square meter,  
15-16T/24Hours
- 双S 3200mm(产品净宽)  
机器宽幅: 4550mm  
速度: 300m/分钟  
克重范围: 12-150g/m<sup>2</sup>  
产品按40g/平方米, 15-16T/24小时

注: 1、最大卷装直径: 1200mm; 2、主要原料: 丙纶切片; 3、加热方式: 导热油升温  
Note: 1. maximum roll diameter: 1200mm; 2. the main raw materials: polypropylene chips; 3. Heating: thermal oil heating

Spunbonded Nonwoven Fabric Production Line of Double-S  
纺粘无纺布双S生产线



SS Working Principle Diagram  
双S工作远离示意图



- |                                      |                              |           |            |
|--------------------------------------|------------------------------|-----------|------------|
| 1. Filter bag                        | 14. Pneumatic seal           | 1. 滤清袋    | 14. 连接气囊   |
| 2. Material bin                      | 15. Diffuser                 | 2. 料仓     | 15. 下摆丝器   |
| 3. Master batch adding unit          | 16. Pressure roller          | 3. 辅料添加器  | 16. 预压辊    |
| 4. Main material feeding pipe        | 17. Rubber roller            | 4. 注料管    | 17. 橡胶辊    |
| 5. Extruder                          | 18. Fibre Web Forming Device | 5. 螺杆挤出机  | 18. 成网机    |
| 6. Die of Extruder                   | 19. Fibre Web Curtain        | 6. 挤出机模头  | 19. 网帘     |
| 7. Filter                            | 20. Hot Mill Design Roller   | 7. 过滤器    | 20. 轧机花辊   |
| 8. Measuring Pump                    | 21. Hot Mill Smooth Roller   | 8. 计量泵    | 21. 轧机光辊   |
| 9. Spinning Box                      | 22. Tension device           | 9. 纺丝箱    | 22. 定型机    |
| 10. Spinneret Plate                  | 23. Winder                   | 10. 喷丝板   | 23. 收卷机    |
| 11. Single Exhaust Pipe              |                              | 11. 单体排气管 | 24. 小螺杆回料机 |
| 12. Side-cooling chamber             |                              | 12. 侧吹风箱  | 25. 回料机入料口 |
| 13. Upper and Bottom Stretching Unit |                              | 13. 上下拉伸器 |            |



## Spunbonded Nonwoven Fabric Production Line of SMS 纺粘无纺布SMS生产线

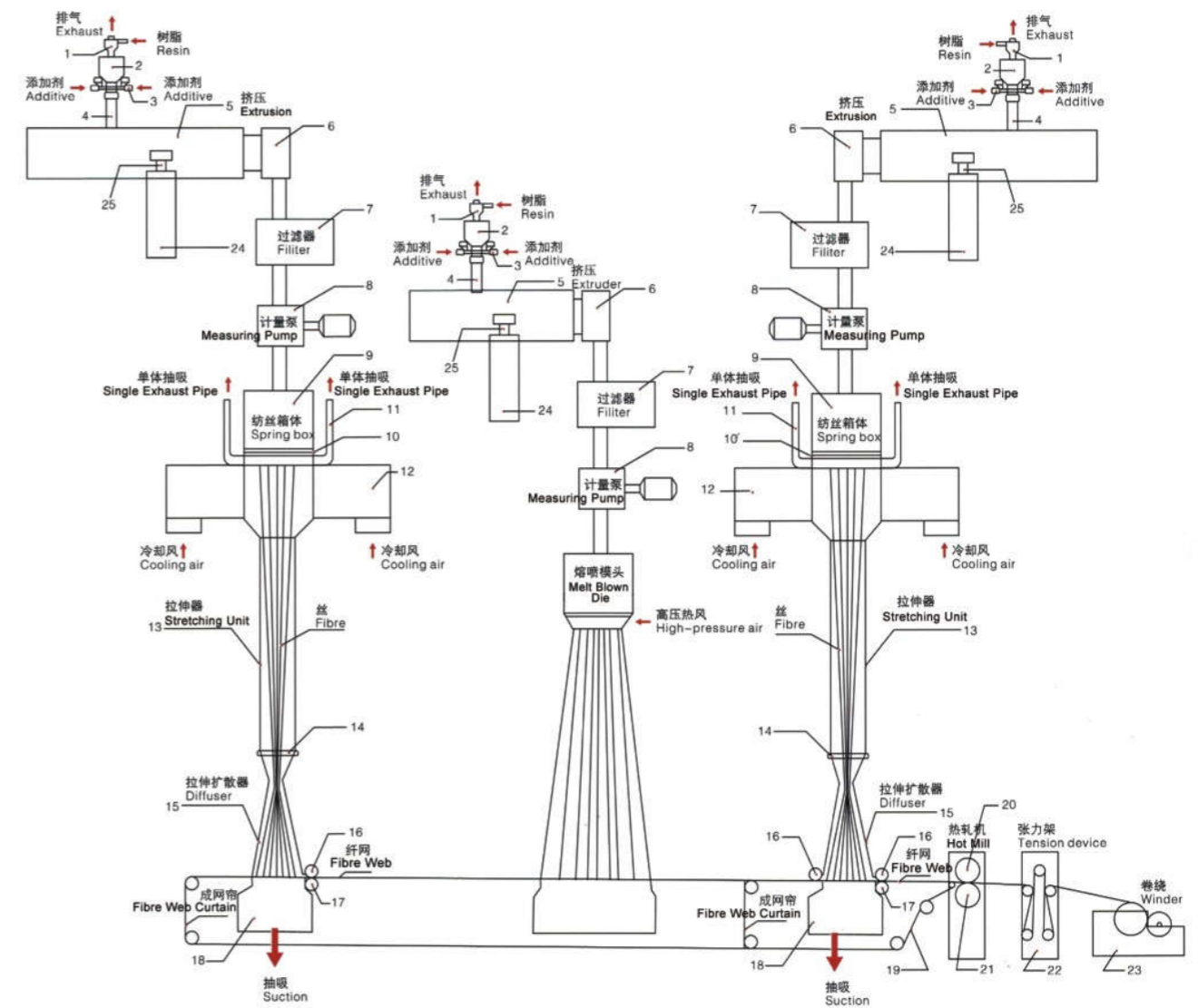
### Production Line Main Technical Indicators

#### 生产线主要技术指标

- SMS 3200mm(Product Width)  
Machine Width: 4550mm  
Speed: 350m/min  
GSM: 14-120g/m<sup>2</sup>  
Products according to 30g/square meter,  
15-16T/24Hours
- SMS 3200mm(产品净宽)  
机器宽幅: 4550mm  
速度: 350m/分钟  
克重范围: 14-120g/m<sup>2</sup>  
产品按30g/平方米, 15-16T/24小时

注: 1、最大卷装直径: 1200mm; 2、主要原料: 丙纶切片; 3、加热方式: 导热油升温  
Note: 1. maximum roll diameter: 1200mm; 2. the main raw materials: polypropylene chips; 3. Heating: thermal oil heating

### SMS Working Principle Diagram SMS工作原理示意图



- |                                  |                              |           |            |
|----------------------------------|------------------------------|-----------|------------|
| 1. Filter bag                    | 14. Pneumatic seal           | 1. 滤清袋    | 14. 连接气囊   |
| 2. Material bin                  | 15. Diffuser                 | 2. 料仓     | 15. 下摆丝器   |
| 3. Master batch adding unit      | 16. Pressure roller          | 3. 辅料添加器  | 16. 预压辊    |
| 4. Main material feeding pipe    | 17. Rubber roller            | 4. 注料管    | 17. 橡胶辊    |
| 5. Extruder                      | 18. Spin belt carriage       | 5. 螺杆挤出机  | 18. 成网机    |
| 6. Extruder flange               | 19. Spin belt                | 6. 挤出机模头  | 19. 网帘     |
| 7. Filter                        | 20. Calender design roller   | 7. 过滤器    | 20. 轧机花辊   |
| 8. Spin pump                     | 21. Calender smooth roller   | 8. 计量泵    | 21. 轧机光辊   |
| 9. Spinning chamber              | 22. Tension device           | 9. 纺丝箱    | 22. 定型机    |
| 10. Spinneret                    | 23. Winder                   | 10. 喷丝板   | 23. 收卷机    |
| 11. Monomer fan                  | 24. Co-extruder              | 11. 单体排气管 | 24. 小螺杆回料机 |
| 12. Side-cooling chamber         | 25. CO-extruder feeding area | 12. 侧吹风箱  | 25. 回料机入料口 |
| 13. Upper bottom stretching unit |                              | 13. 上下拉伸器 |            |



### Winder 卷绕机

- (1) Online cutting, automatic fabric rolls changing. The maximum speed is 150m/min.
- (2) Tension is uniform, winding is neat. The largest diameter of fabric roll is 1.5m.
- (3) Counting meters synchronously and accurately. The maximum number is 9999m.
- (4) It can run separately (single action status).

- (1) 在线分切，自动换卷。最高速度150m
- (2) 张力均匀，卷绕整齐。最大卷径1.5m
- (3) 同步计米，数量准确。最大-9999M
- (4) 可以单独运转（单动状态）

### Hot mill 热轧机

- (1) Temperature is uniform, difference in temperatures  $\leq 2^{\circ}\text{C}$
- (2) Pressure is uniform, fabric is even.
- (3) Speed is even, which is (10-150) m/min
- (4) Easy operation and maintenance.

- (1) 温度均匀，温差  $\leq 2^{\circ}\text{C}$
- (2) 压力均匀，布面平整。采用中高级交差进行压力补偿
- (3) 速度平稳，(10~150) m/min
- (4) 操作简单，并且易于保养



### Stretching Unit 牵伸器

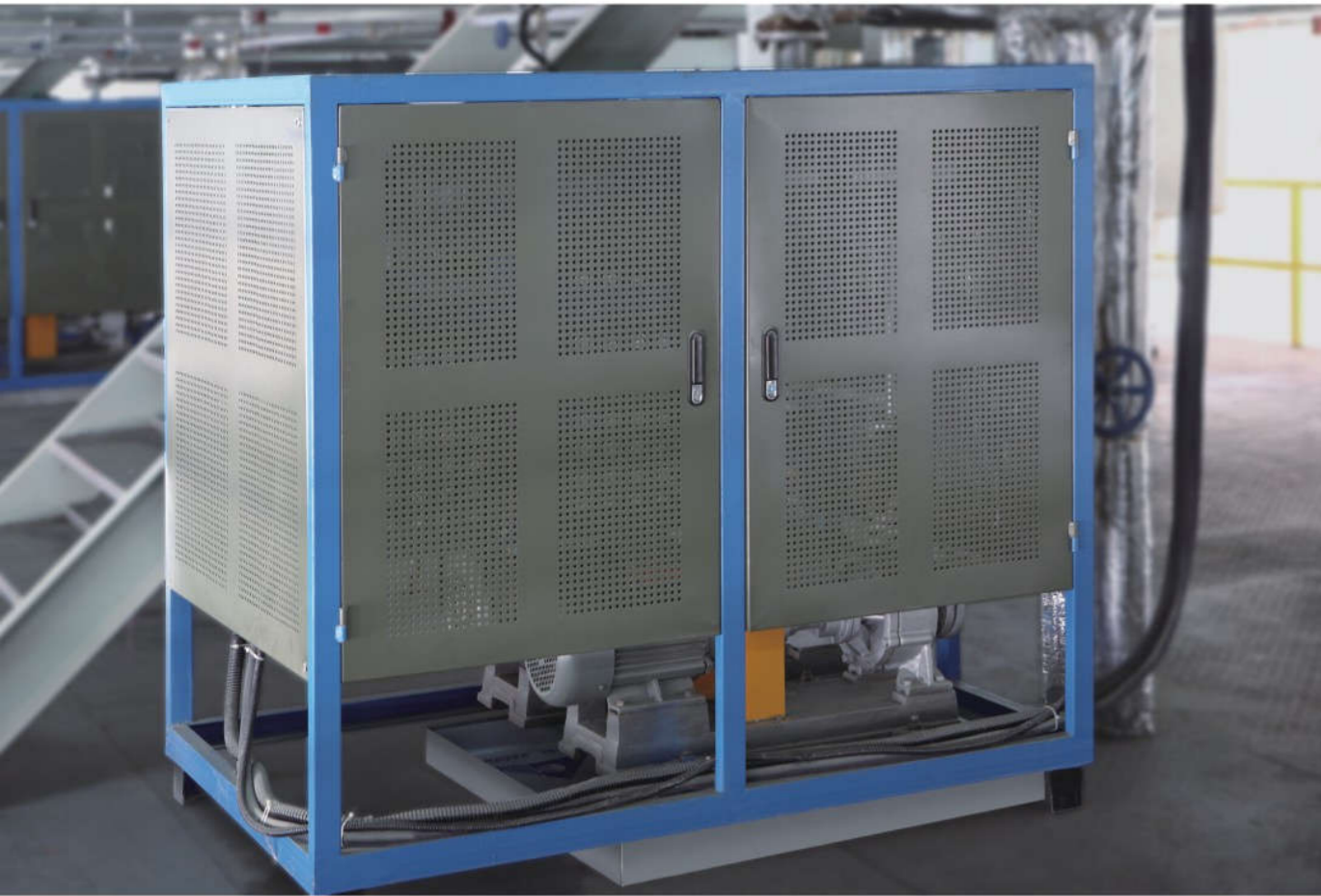
Features: The stretching unit is slit type.

- 1. High efficiency of stretching, low power consumption
- 2. Filament is uniform after stretching, small difference in monofilament
- 3. Long-distance stretching, full stretching
- 4. Good effect after filament separating and fibre web forming.
- 5. System is closed, which is easy to control.

特点：牵伸器属于整体宽狭缝式牵伸

- 1. 牵伸效率高，能耗小。
- 2. 牵伸丝条均匀，单丝差异较小。
- 3. 牵伸距离长，牵伸充分。
- 4. 分丝效果好，铺网均匀。
- 5. 系统封闭，利于控制。





### Thermal Oil Heating System 导热油加热系统

- |  |                       |
|--|-----------------------|
| (1) The head of screw is heated by thermal oil heating system.                     | (1) 螺杆头部是通过导热油加热系统来加热 |
| (2) The filter is heated and retained heat by thermal oil heating system.          | (2) 过滤器通过导热油循环加热、保温   |
| (3) The measuring pump is heated and retained heat by thermal oil heating system.  | (3) 计量泵采用导热油循环加热、保温   |
| (4) The spinning box is heated and retained heat by thermal oil heating system.    | (4) 纺丝箱体采用导热油循环加热、保温  |
| (5) The pressure roller is heated and retained heat by thermal oil heating system. | (5) 预压辊由导热油循环加热、保温    |

### Fibre Web Forming Machine

The fibre web forming machine gets feedback from imported encoder. It runs smoothly and forms a fibre web symmetrically which can make the fabric more even in the surface.

### 成网机

成网机采用进口编码器反馈，转速稳定，铺网均匀，布面更加平整。



### Vacuum Calciner

Vacuum calciner is a vacuum heat treatment device, using electricity as its energy. Compared with traditional calcinations, it can reduce exhaust emissions and oxidation of calciner so as to increase the life of calciner to get an ideal effect.

### 真空煅烧炉

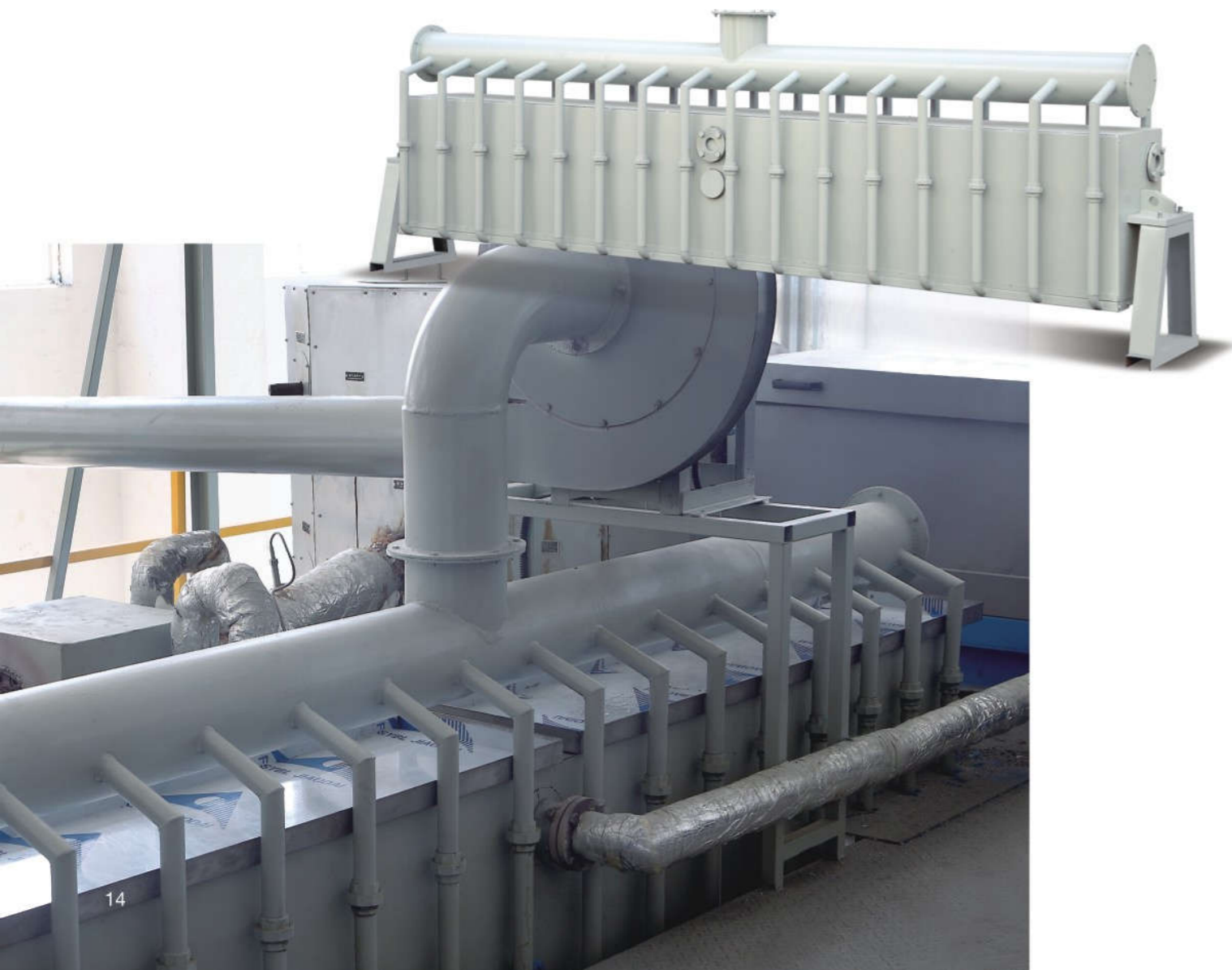
真空煅烧炉是一种用于真空高温处理装置，以电作能源，相比传统煅烧，可减少废气排除保护环境，降低煅烧件氧化程度，从而提高煅烧件的使用寿命达到理想效果。



### Spinning Box and Spinning Components 纺丝箱体及纺丝组件

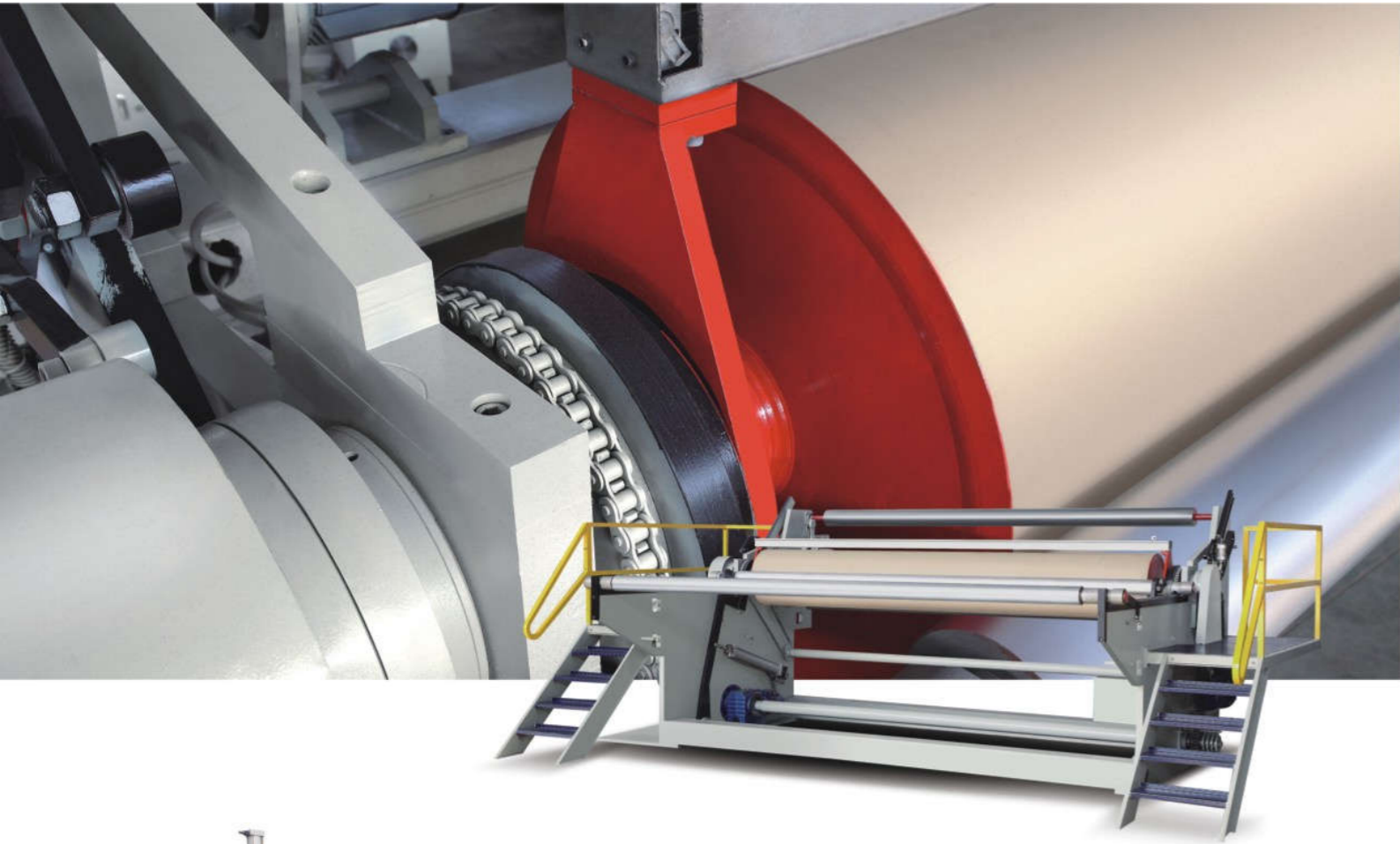
- (1) The function of spinning box is to put melted material which is input by measuring pump, symmetrically by pressure to spinning components and heat and retain heat for melted material as the last step.
- (2) The spinning box is heated and retained heat by thermal oil heating system.
- (3) The spinning components include filter, distributing plate, sealing strip, etc.

- (1) 纺丝箱体的作用是将计量泵输入的熔体在一定的压力下均匀到纺丝组件内，并且对熔体进行最后一道加热和保温。
- (2) 纺丝箱体采用导热油炉循环加热、保温。
- (3) 纺丝组件有滤网、分配板、密封条等。



### Electrical Control System 电器控制系统

According to the characteristics of producing spunbonded nonwoven fabric, our company adopts external advanced electric control manner to operate the extruder by manual and automatic way.  
我公司根据纺粘无纺布的生产工艺特点，采用了国外先进的电气控制方式，通过手动和自动两种方式来控制模头。



**Synchronizer for High Speed Slitting Machine**  
高速分切机同步架

The maximum speed is 600m/min.  
最高速度600m/min

**High Speed Winder**  
高速收卷机

The maximum speed is 400m/min.  
最高速度400m/min

**Low Speed Slitting Machine**  
低速分切机

The maximum speed is 300m/min.  
最高速度300m/min

**Automatic High Speed Slitting Machine**  
全自动高速分切机

Adopts Siemens control system, the  
maximum speed is 600m/min  
采用西门子控制系统，最高速度600m/min