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2026 年 03 月印刷


PINHE 品和

INSULATING GLASS PROCESSING
# INTELLIGENT EQUIPMENT

**中空玻璃智能设备专业制造商**

PINHE品和

# 让智能制造成为标配
# 融入玻璃加工行业

**Make intelligent manufacturing a standard and integrate into the glass processing industry**

**品和自动化**以机械制造、软件开发为主导，在自动化控制及智能嵌入式系统方面做了大量的研究探索，致力于中空玻璃智造软硬件的无缝衔接，专业服务于中空玻璃智造行业，**为玻璃智造提供智能化、自动化、信息化的全方位解决方案。**

Guided by mechanical manufacturing and software development, we have done a lot of research and exploration in automatic control and intelligent embedded system, devoted ourselves to the seamless connection between the hardware and software of insulating glass intelligent manufacturing, professionally served the insulating glass intelligent manufacturing industry, and provided intelligent, automatic and information-based all-round solutions for glass intelligent manufacturing.




# 专业决定品质 · 实力铸就品牌

Specialty determines quality
Strength casts brand

优质高效　合作共赢　专业制造　全球共享

品行天下 · 以和为贵
Win-win Cooperation and Advantage Sharing

COMPANY
# PROFILE

## 关于品和

**深耕行业** Deep ploughing industry　**20+年**

**研发团队** R & D team　**30+人**

**全球用户** Whole world user　**900+家**

**山东品和自动化设备有限公司**是国内专业制造中空玻璃加工设备的高新技术企业。公司拥有完善的研发设计、加工制造、售后服务体系。公司拥有多名高级电气工程师、机械工程师，在电气控制，机械结构方面经验丰富，秉承规范适用的原则，在多个领域（中空玻璃生产线、塑钢门窗生产线、铝门窗生产线等）为客户提供全自动智能设备。

公司拥有经验丰富的优秀工程师和技术服务专家，可提供安装调试、技术咨询、设备操作培训等全方位的售后服务。

公司以严格的生产管理、精湛的加工精度、完美的售后服务以及良好的企业信誉赢得国内外的一致好评。

公司秉承“每天超越自我、时刻追求卓越”的企业理念，塑一流的人才，做一流的产品，立一流的企业。

我们坚信“专业决定品质、实力铸就品牌、诚信创造永远”。

山东品和自动化设备有限公司与您携手共创辉煌！

SHANDONG PINHE AUTOMATION EQUIPMENT CO., LTD. is a high-tech enterprise specializing in manufacturing insulating glass processing equipment in China. The company has perfect R&D design, processing and manufacturing, and after-sales service system. The company has many senior electrical engineers and mechanical engineers with rich experience in electrical control and mechanical structure. Adhering to the principle of standard application, the company provides customers with fully automatic intelligent equipment in various fields (insulating glass production line, plastic steel door and window production line, aluminum door and window production line, etc.).
The company has experienced excellent engineers and technical service experts, and can provide all-round after-sales services such as installation and commissioning, technical consultation and equipment operation training. With strict production management, superb processing precision, perfect after-sales service and good corporate reputation, the company has won unanimous praise at home and abroad.
Adhering to the corporate philosophy of "surpassing ourselves every day and always pursuing Excellence", the company has molded first-class talents, made first-class products and established a first-class enterprise.
We firmly believe that "professionalism determines quality, strength casts brand, and integrity creates forever".
Shandong pinhe automation equipment co., ltd. will join hands with you to create brilliant future!




- 山东省高新技术企业
- 中国绿色环保产品
- AAA 级信用企业
- 中国行业十佳品牌
- 60 多项国家专利

见证辉煌 · 创造价值
Witness Brilliance and Create Value

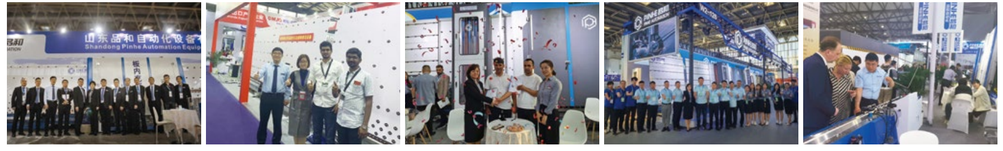
QUALIFICATION
# HONOR
## 资质荣誉

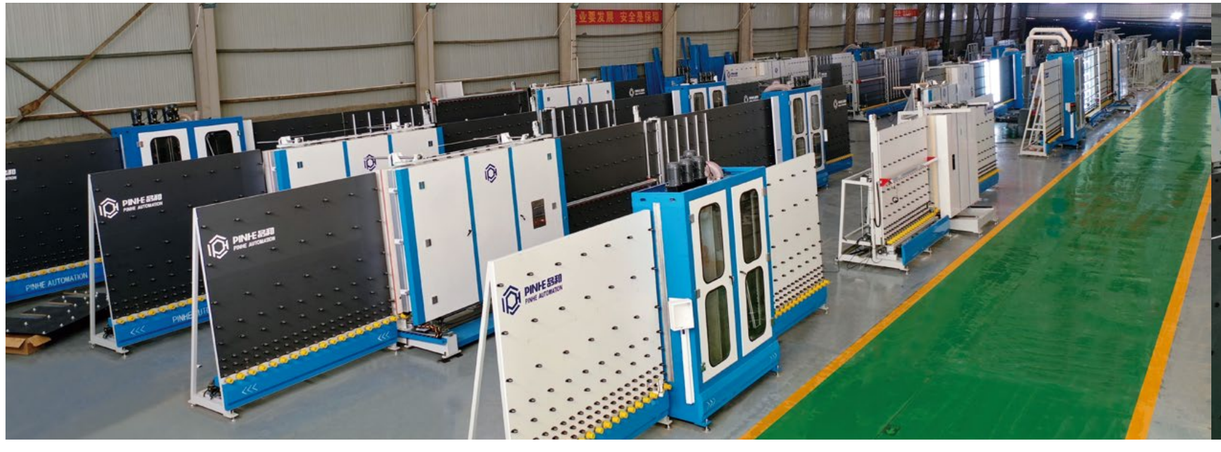
**ISO9001**
生产管理体系　Production management system

**CE**
欧盟 CE 认证　E.u. CE certification

**SGS**
SGS 认证　SGS certification

为社会创造财富，为客户创造价值，为员工创造机遇。
品质追求，行业典范，质量规范方式的缔造者。







高效高能·精于智造
High efficiency and high yield

PRODUCTION
# STRENGTH
## 智造实力

**品和自动化**智造团队由服务行业 20 余年的资深工程师组成，拥有丰富的实践经验和研发制造能力，标准化、精细化、系统化、智能化是公司常规生产模式，不断提升产品质量与交期，能完全满足大客户高标准的需求。

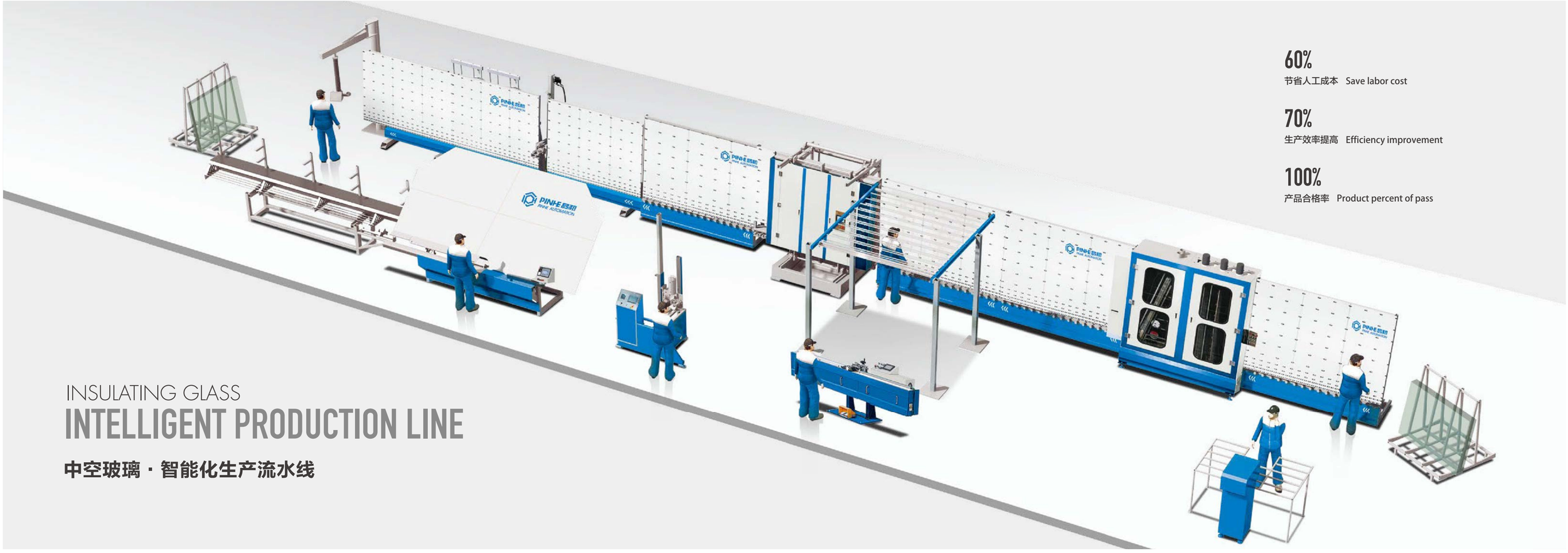
PINHE AUTOMATION manufacturing team is composed of more than 20 years of senior engineers in the service industry, with rich practical experience and R&D and manufacturing capabilities. Standardization, refinement, systematization and intelligence are the company's regular production modes, constantly improving product quality and delivery, which can fully meet the high-standard needs of major customers.

制造技师
Manufacturing technician
140+ 人

年产设备
Annual production equipment
650+ 台

优秀供应商
Excellent supplier
160+ 家





INSULATING GLASS

# INTELLIGENT PRODUCTION LINE

## 中空玻璃 · 智能化生产流水线

**60%**

节省人工成本　Save labor cost

**70%**

生产效率提高　Efficiency improvement

**100%**

产品合格率　Product percent of pass

# LBG2850/3060/3390

## Automatic Gas-filled Insulating Glass Production Line
## 中空玻璃自动板外（板内充气）多功能合片生产线

专利号：ZL 2022 2 0055008.8
ZL 2022 2 0161759.8
ZL 2022 3 0064812.8
ZL 2022 2 0055006.9

- 双板压结构适合超大片玻璃生产，下充气模式，浓度达到国家标准。
- 拥有内合，外合两套程序，功能全面。
- 全程 PLC 控制系统，触摸屏人机界面。
- 自动识别镀膜玻璃和 LOW- E 玻璃。
- 采用特殊精制真空发生器和吸盘，玻璃吸合效果会更佳。
- 可生产二层，三层中空玻璃，大小片（不等边）幕墙中空玻璃及异型中空玻璃。
- 微电脑程序数字化控制生产线、节省劳动等待时间，提高生产效率。
- 压合条用伺服压合，同步带驱动，运行平稳，压合均匀。
- 玻璃托起，大小片定位，跟随密封挡板均采用伺服电机驱动，高效可靠。
- 可根据用户需求定制全横梁输送结构。

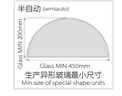
- Double-plate pressing structure is suitable for the production of ultra-large glass, and the concentration reaches the national standard under the aeration mode.
- It has two sets of procedures, internal and external, with comprehensive functions.
- Automatic identification of coated glass and LOW- E glass.
- Using special refined vacuum generator and sucker, the glass suction effect will be better.
- It can produce two-layer and three-layer insulating glass, large and small (unequal) curtain wall insulating glass and special-shaped insulating glass.
- The pressing strip is pressed by servo and driven by synchronous belt, which runs smoothly and presses evenly.
- Glass lifting, large and small pieces positioning and following sealing baffle are all driven by servo motor, which is efficient and reliable.
- All-beam conveying structure can be customized according to user's requirements.

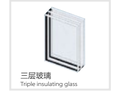
| 技术参数 | TECHNICAL PARAMETER | LBG2850 | LBG3060 | LBG3390 |
|---|---|---|---|---|
| 总功率 | Total power | 70kW | 90kW | 100kW |
| 玻璃最大尺寸 | Max. glass size | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 玻璃最小尺寸 | Min. glass size | 280×450mm | 280×450mm | 280×450mm |
| 原片玻璃厚度 | Raw glass thickness | 3~30mm | 3~30mm | 3~30mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~80mm | 12~80mm | 12~80mm |
| 玻璃清洗速度 | Glass washing speed | 2~12m/min | 2~12m/min | 2~12m/min |
| 工作速度 | Working speed | 2~45m/min | 2~45m/min | 2~45m/min |
| 空压机流量（气压） | Air flow (Air pressure) | 0.8m³/min (1MPa) | 0.8m³/min (1MPa) | 0.8m³/min (1MPa) |
| 水电导率 | Water electrical conductivity | ≤40 μ s/cm | ≤40 μ s/cm | ≤40 μ s/cm |
| 外形尺寸 | Overall dimension | 30500×3200×3700mm | 42000×3200×3900mm | 57500×3200×4200mm |












# LBG2500/2000

## Automatic Gas-filled Insulating Glass Production Line
## 中空玻璃自动板外（板内充气）多功能合片生产线

专利号：ZL 2022 2 0055008.8
ZL 2022 2 0161759.8
ZL 2022 3 0064812.8
ZL 2022 2 0055006.9

- 拥有内合，外合两套程序，功能全面。
- 全程 PLC 控制系统，触摸屏人机界面。
- 自动识别镀膜玻璃和 LOW- E 玻璃。
- 采用特殊精制真空发生器和吸盘，玻璃吸合效果会更佳。
- 可生产二层，三层中空玻璃，大小片（不等边）幕墙中空玻璃及异型中空玻璃。
- 微电脑程序数字化控制生产线、节省劳动等待时间，提高生产效率。
- 在线板内充气，下充气模式，浓度达到国家标准。
- 压合条用伺服压合，同步带驱动，运行平稳，压合均匀。
- 玻璃托起，大小片定位，跟随密封挡板均采用伺服电机驱动，高效可靠。

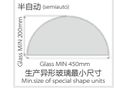
- Outside and inside assembly program, Comprehensive function.
- The entire process is controlled by a PLC system with a touch screen human-machine interface.
- Automatically identifies coated glass and LOW-E glass.
- Adopt imported vacuum generator and sucker resulted in perfect suction effect to the glass.
- Produce double-glazed and triple-glazed glass, curtain wall,the step unit (unequal sides), and irregularly shaped insulated glass.
- Microcomputer program Digital Control Production Line, save labor waiting time, improve production efficiency.
- In-board inflatable, under the inflatable curtain, the concentration of national standards.
- The pressing strip uses servo pressing with synchronous belt drive, ensuring smooth operation and uniform pressing.
- The glass lifting, the step unit positioning, and following of the sealing baffle are all driven by servo motors, which are highly efficient and reliable.

| 技术参数 | TECHNICAL PARAMETER | LBG2500 | LBG2000 |
|---|---|---|---|
| 总功率 | Total power | 46kW | 36kW |
| 玻璃最大尺寸 | Max. glass size | 2500×4000mm | 2000×3000mm |
| 玻璃最小尺寸 | Min. glass size | 280×450mm | 280×450mm |
| 原片玻璃厚度 | Raw glass thickness | 3~12mm | 3~12mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~56mm | 12~56mm |
| 玻璃清洗速度 | Glass washing speed | 2~12m/min | 2~12m/min |
| 工作速度 | Working speed | 2~45m/min | 2~40m/min |
| 空压机流量（气压） | Air flow (Air pressure) | 0.8$m^3$/min (1MPa) | 0.8$m^3$/min (1MPa) |
| 水电导率 | Water electrical conductivity | ≤40 μ s/cm | ≤40 μ s/cm |
| 外形尺寸 | Overall dimension | 25300×3200×3600mm | 21000×3000×2910mm |



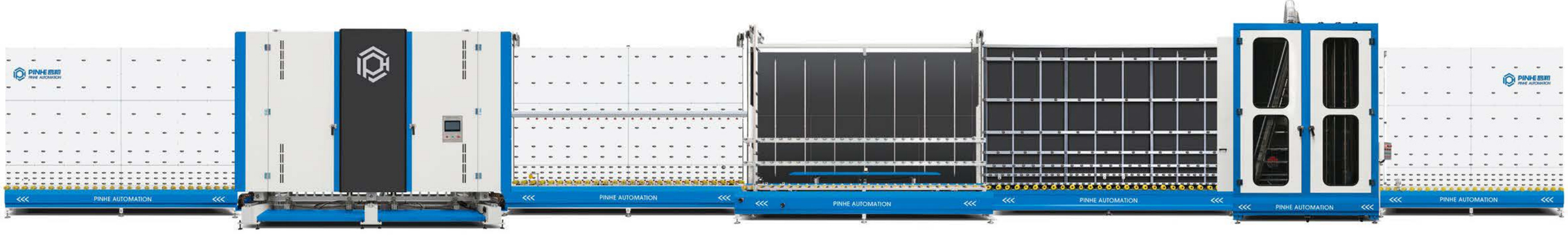












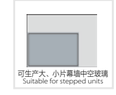
# LBJ2500/2000

## Automatic Flat-pressed Insulating Glass Production Line
## 中空玻璃自动板外（板内）双功能合片生产线

- 拥有内合，外合两套程序，功能全面。
- 全程 PLC 控制系统，触摸屏人机界面。
- 自动识别镀膜玻璃和 LOW- E 玻璃。
- 采用特殊精制真空发生器和吸盘，玻璃吸合效果会更佳。
- 可生产二层，三层中空玻璃，大小片（不等边）幕墙中空玻璃及异型中空玻璃。
- 微电脑程序数字化控制生产线、节省劳动等待时间，提高生产效率。

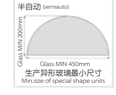
- Outside and inside assembly program, Comprehensive function.
- The entire process is controlled by a PLC system with a touch screen human-machine interface.
- Automatically identifies coated glass and LOW-E glass.
- Adopt imported vacuum generator and sucker resulted in perfect suction effect to the glass.
- Produce double-glazed and triple-glazed glass, curtain wall,the step unit （unequal sides), and irregularly shaped insulated glass.
- Microcomputer program Digital Control Production Line, save labor waiting time, improve production efficiency.

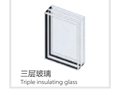
| 技术参数 | TECHNICAL PARAMETER | LBJ2500 | LBJ2000 |
|---|---|---|---|
| 总功率 | Total power | 46kW | 33kW |
| 玻璃最大尺寸 | Max. glass size | 2500×4000mm | 2000×3000mm |
| 玻璃最小尺寸 | Min. glass size | 280×450mm | 280×450mm |
| 原片玻璃厚度 | Raw glass thickness | 3~12mm | 3~12mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~40mm | 12~40mm |
| 玻璃清洗速度 | Glass washing speed | 2~12m/min | 2~12m/min |
| 工作速度 | Working speed | 2~45m/min | 2~45m/min |
| 空压机流量（气压） | Air flow (Air pressure) | 0.8m³/min (1MPa) | 0.8m³/min (1MPa) |
| 水电导率 | Water electrical conductivity | ≤40 μ s/cm | ≤40 μ s/cm |
| 外形尺寸 | Overall dimension | 25300×3200×3600mm | 19700×3000×3170mm |

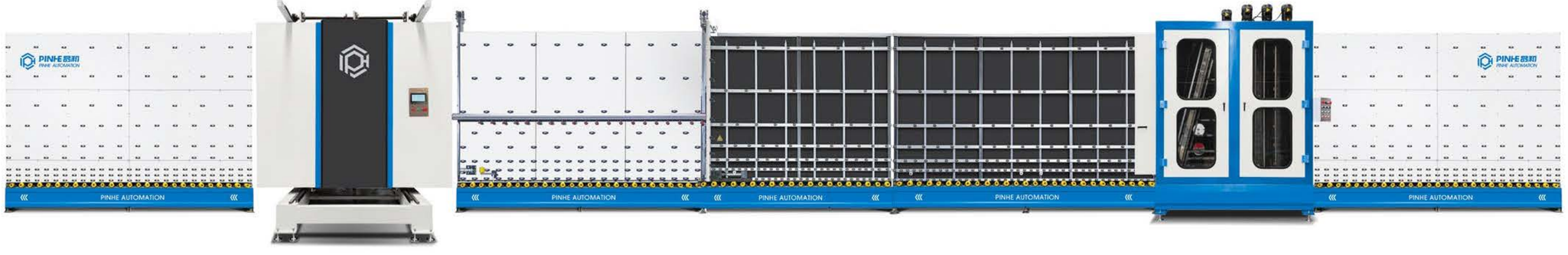








# TPSS2500/2800/3000

## TPSS Thermoplastic Warm Edge Insulating Glass Production Line
## TPSS 热塑性暖边中空玻璃生产线

专利号：ZL 2024 1 1885478.7
ZL 2024 1 0045249.2

- TPSS 热塑性间隔条内部不含任何金属嵌入物，减少了中空玻璃边部的冷、热传导系数。
- 使中空玻璃整体温度更为平均分布，有效降低了凝露的产生。
- 柔性的边部密封，使中空玻璃异型制作更方便。
- 热塑型隔条与玻璃化学粘接，中空玻璃具有更长的使用寿命。
- 二道密封胶可以使用硅酮结构胶或聚硫胶（经过相熔反应性实验后）。
- 湿气透过率和气体泄漏率方面优于铝隔条系统。
- 特有的密封性、抗共振和隔音性，适用于高端中空玻璃。
- 整线可加工两玻、三玻、四玻三腔。

- TPSS thermoplastic spacer does not contain any metal inserts, which reduces the cold and thermal conductivity of the edge of insulating glass.
- The overall temperature of insulating glass is more evenly distributed, and the generation of condensation is effectively reduced.
- Flexible edge sealing makes it more convenient to make hollow glass special-shaped
- Thermoplastic spacers are chemically bonded to glass, and insulating glass has a longer service life.
- The second sealant can use silicone structural adhesive or polysulfide adhesive (after the phase melting reactivity experiment).
- The moisture permeability and gas leakage rate are better than those of aluminum spacer system.
- Unique sealing, anti-resonance and sound insulation, suitable for high-end insulating glass.
- The whole line can process double-glazed, triple-glazed, and quadruple-glazed (triple-chamber) insulating glass units.

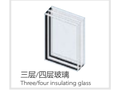
| 技术参数 | TECHNICAL PARAMETER | TPSS2500 | TPSS2800 | TPSS3000 |
|---|---|---|---|---|
| 总功率 | Total power | 70kW | 80kW | 90kW |
| 玻璃最大尺寸 | Max. glass size | 2500×4000mm | 2800×5000mm | 3000×6000mm |
| 玻璃最小尺寸 | Min. glass size | 280×450mm | 280×450mm | 280×450mm |
| 原片玻璃厚度 | Raw glass thickness | 3~12mm | 3~30mm | 3~30mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~80mm | 12~80mm | 12~80mm |
| TPSS 最大间隔宽度 | TPSS Max. interval width | 3~19mm | 3~19mm | 3~19mm |
| 玻璃清洗速度 | Glass washing speed | 2~12m/min | 2~12m/min | 2~12m/min |
| 工作速度 | Working speed | 2~45m/min | 2~45m/min | 2~45m/min |
| 空压机流量（气压） | Air flow (Air pressure) | 0.8m³/min (1MPa) | 0.8m³/min (1MPa) | 0.8m³/min (1MPa) |
| 水电导率 | Water electrical conductivity | ≤40 μ s/cm | ≤40 μ s/cm | ≤40 μ s/cm |
| 外形尺寸 | Overall dimension | 34500×3200×3400mm | 43500×3200×3700mm | 52000×3200×3900mm |

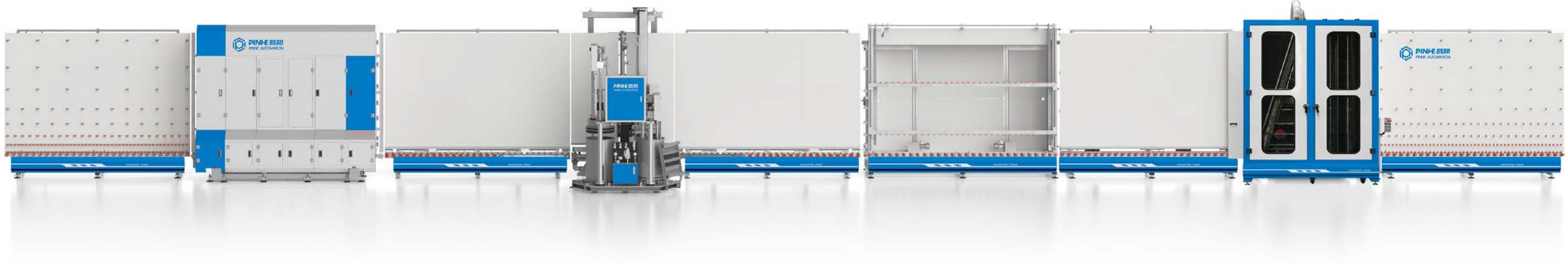








# ZNJ2540-F ZNJ2850-F
# ZNJ3060-F ZNJ3390-F

## Automatic Insulating Glass CNC Sealing Machine (Front Head)
## 中空玻璃全自动封胶线（前置机头）

专利号：ZL 2022 2 0055002.0
ZL 2022 3 0065317.9






- 前置打胶机头，实现大小片及异形玻璃打胶，调整更为方便。
- 与中空线水平对接，运行稳定、生产效率高。
- 适合大规模玻璃深加工企业使用，降低生产劳动强度、节省人力，提高生产效率。
- 全智能触摸式人机界面、操作简洁方便。
- 伺服控制系统采用世界知名品牌，性能稳定。
- 同步带式传送使玻璃输送平稳，定位精确。
- 设备关键部件采用特殊材料精制而成，设备操作稳定可靠、使用寿命长。
- 涂胶后玻璃周边饱满无气线，角部充实，表面平整无需修角。
- 可配备两套供胶系统，两种密封胶切换快捷，一键式操作。
- 可涂四玻三腔中空玻璃。（选装）

- The front gluing machine head can glue the step unit and special-shaped glass, which is more convenient to adjust.
- Horizontally connected to the insulating glass line, it runs stably with high production efficiency.
- Suitable for large-scale glass deep processing enterprises, it reduces labor intensity, saves manpower, and improves production efficiency.
- The fully intelligent touch-screen human-machine interface is simple and convenient to operate.
- Servo control system adopts world famous brand, the performance is stable.
- Synchronous belt conveyors ensure smooth glass transport and precise positioning.
- The key components of the equipment are made of special materials, ensuring stable and reliable operation and a long service life.
- After sealing,the glass edges are full and free of air bubbles, the corners are solid, and the surface is smooth, requiring no corner trimming.
- Optional:It can be equipped with two sets of adhesive supply systems, allowing for quick switching between two types of sealant with one-button operation.(Model-II)
- Optional:capable of sealing quadruple-glazed (triple-chamber) insulating glass units.

| 技术参数 | TECHNICAL PARAMETER | ZNJ2540-F | ZNJ2850-F | ZNJ3060-F | ZNJ3390-F |
|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 9.0kW | 10kW | 10kW | 13kW |
| 玻璃最大尺寸 | Max. glass size | 2500×4000mm | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 玻璃最小尺寸 | Min. glass size | 300×300mm | 300×300mm | 300×300mm | 300×300mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~56mm | 12~56mm | 12~56mm | 12~56mm |
| 涂胶速度 | Coating speed | 5~40m/min | 5~40m/min | 5~40m/min | 5~40m/min |
| 挤胶最大压力 | Squeeze pressure | 32MPa | 32MPa | 32MPa | 32MPa |
| 气源 | Air pressure | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa |
| 外形尺寸 | Overall dimension | 8630×1400×3420mm | 10300×1400×3650mm | 12300×1400×3850mm | 18500×1400×4050mm |

# ZNJ2540-I / II ZNJ2850-I / II
# ZNJ3060-I / II ZNJ3390-I / II

## Automatic Insulating Glass CNC Sealing Machine
## 中空玻璃全自动封胶线

专利号：ZL 2022 2 0055002.0
ZL 2022 3 0065317.9



- 适合大规模玻璃深加工企业使用，降低生产劳动强度、节省人力，提高生产效率。
- 全智能触摸式人机界面、操作简洁方便。
- 伺服控制系统采用世界知名品牌，性能稳定。
- 同步带式传送使玻璃输送平稳，定位精确。
- 设备关键部件采用特殊材料精制而成，设备操作稳定可靠、使用寿命长。
- 涂胶后玻璃周边饱满无气线，角部充实，表面平整无需修角。
- 可配备两套供胶系统，两种密封胶切换快捷，一键式操作。（型号 II ）
- 支持三层玻璃涂胶。

- Suitable for large-scale glass deep processing enterprises, it reduces labor intensity, saves manpower, and improves production efficiency.
- The fully intelligent touch-screen human-machine interface is simple and convenient to operate.
- Servo control system adopts world famous brand, the performance is stable.
- Synchronous belt conveyors ensure smooth glass transport and precise positioning.
- The key components of the equipment are made of special materials, ensuring stable and reliable operation and a long service life.
- After sealing,the glass edges are full and free of air bubbles, the corners are solid, and the surface is smooth, requiring no corner trimming.
- Optional:It can be equipped with two sets of adhesive supply systems, allowing for quick switching between two types of sealant with one-button operation.(Model-II)
- Optional:Supports triple-glazed glass sealing.



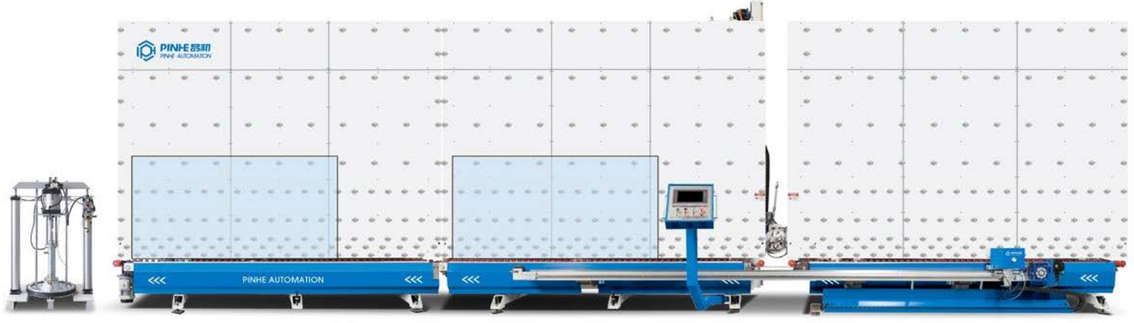

| 技术参数 | TECHNICAL PARAMETER | ZNJ2540-I / II | ZNJ2850-I / II | ZNJ3060-I / II | ZNJ3390-I/II |
|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 9.0kW | 10kW | 10kW | 13kW |
| 玻璃最大尺寸 | Max. glass size | 2500×4000mm | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 玻璃最小尺寸 | Min. glass size | 300×300mm | 300×300mm | 300×300mm | 300×300mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~56mm | 12~56mm | 12~56mm | 12~56mm |
| 涂胶速度 | Coating speed | 5~40m/min | 5~40m/min | 5~40m/min | 5~40m/min |
| 挤胶最大压力 | Squeeze pressure | 32MPa | 32MPa | 32MPa | 32MPa |
| 气源 | Air pressure | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa |
| 外形尺寸 | Overall dimension | 8630×1400×3420mm | 10300×1400×3650mm | 12300×1400×3850mm | 18500×1400×4050mm |

# ZNJ2025-I / II ZNJ2030-I / II ZNJ2535-I / II

## Automatic Insulating Glass CNC Sealing Machine
## 中空玻璃全自动封胶线

专利号：ZL 2022 2 0055002.0
ZL 2022 3 0065317.9






- 适合大规模玻璃深加工企业使用，降低生产劳动强度、节省人力，提高生产效率。
- 全智能触摸式人机界面、操作简洁方便。
- 伺服控制系统采用世界知名品牌，性能稳定。
- 同步带式传送使玻璃输送平稳，定位精确。
- 设备关键部件采用特殊材料精制而成，设备操作稳定可靠、使用寿命长。
- 涂胶后玻璃周边饱满无气线，角部充实，表面平整无需修角。
- 第三段可预存玻璃，实现了流水作业和在线封胶。
- 可配备两套供胶系统，两种密封胶切换快捷，一键式操作。（型号 II ）
- 支持三层玻璃涂胶。

- Suitable for large-scale glass deep processing enterprises, it reduces labor intensity, saves manpower, and improves production efficiency.
- The fully intelligent touch-screen human-machine interface is simple and convenient to operate.
- Servo control system adopts world famous brand, the performance is stable.
- Synchronous belt conveyors ensure smooth glass transport and precise positioning.
- The key components of the equipment are made of special materials, ensuring stable and reliable operation and a long service life.
- After sealing,the glass edges are full and free of air bubbles, the corners are solid, and the surface is smooth, requiring no corner trimming.
- The third section allows for pre-stored glass, enabling continuous production and online sealing.
- Optional:It can be equipped with two sets of adhesive supply systems, allowing for quick switching between two types of sealant with one-button operation.(Model-II)
- Optional:Supports triple-glazed glass sealing.

| 技术参数 | TECHNICAL PARAMETER | ZNJ2025-I / II | ZNJ2030-I / II | ZNJ2535-I / II |
|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 7.0kW | 7.0kW | 9.0kW |
| 玻璃最大尺寸 | Max. glass size | 2000×2500mm | 2000×3000mm | 2500×3500mm |
| 玻璃最小尺寸 | Min. glass size | 300×300mm | 300×300mm | 300×300mm |
| 中空玻璃厚度 | Max. I.G. unit thickness | 12~56mm | 12~56mm | 12~56mm |
| 涂胶速度 | Coating speed | 5~40m/min | 5~40m/min | 5~40m/min |
| 挤胶最大压力 | Squeeze pressure | 32MPa | 32MPa | 32MPa |
| 气源 | Air pressure | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa |
| 外形尺寸 | Overall dimension | 8030×1400×2950mm | 9530×1400×2950mm | 11530×1400×3420mm |

# LZJ02

## Automatic Aluminum Spacer Bar Bending Machine
## 铝间隔条全自动折弯机

**可定制半自动机型**

**专利号：** ZL 2022 2 3610073.1
ZL 2022 2 0130981.1










- 适用于中空玻璃用铝间隔条的折弯。
- PLC 控制系统，触摸屏人机界面，设备操作简单方便。
- 采用数控伺服电机进料系统，数控折弯角度控制系统。
- 四个储料槽，可以分别存放 4 种不同规格的铝条。
- 折弯和切割时自动避让铝条之间连接处，圆弧处，折弯后自动切割。
- 手动操作功能，便于设备的调试和检修。
- 可以折三角、矩型、正五方型、正六边型、圆弧等形状。
- 该机配有标签打印装置，实时在线打印加工信息。
- 激光打码功能。( 选配 )
- 快速换刀头和自动接插件功能。( 选配 )

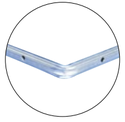
- Suitable for bending aluminum spacers for insulating glass.
- PLC control system, touch screen man-machine interface, simple and convenient equipment operation.
- Adopt CNC servo motor feeding system and CNC bending angle control system.
- Four storage tanks can store four kinds of aluminum bars with different specifications.
- When bending and cutting, the joint and arc between aluminum bars are automatically avoided, and after bending, the aluminum bars are automatically cut.
- Manual operation function, convenient for equipment debugging and maintenance.
- Can be folded into triangle, rectangle, regular pentagon, regular hexagon, arc and other shapes.
- The machine is equipped with a label printing device, which can print processing information online in real time.
- Laser coding function. (Option)
- Quick tool change and automatic connector function. (Option)

| 技术参数 | TECHNICAL PARAMETER | LZJ02 | LZJ03 ( 激光打码 ) | LZJ04 ( 半自动 ) |
|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 4.0kW | 4.5kW | 2.0kW |
| 工作压力 | Working air pressure | 0.7MPa | 0.7MPa | 0.7MPa |
| 铝条规格 | Aluminum bar specification | 5.5~26.5mm | 5.5~26.5mm | 5.5~26.5mm |
| 最大加工铝框尺寸 | Max. aluminum spacer frame size | 2000×2000mm | 2500×2500mm | 2500×2500mm |
| 最小加工铝框尺寸 | Min. aluminum spacer frame size | 300×300mm | 300×300mm | 350×350mm |
| 铝条厚度 | Aluminum spacer thickness | 6.5mm | 6.5mm | 6.5mm |
| 折弯角度误差 | Bending angle error | ±0.3° | ±0.3° | ±0.3° |
| 折弯角度范围 | Bending angle range | 10° ~150° | 10° ~150° | 10° ~150° |
| 折弯速度 | Bending spped | <20s/ 个 (1000×1000mm) | <20s/ 个 (1000×1000mm) | / |
| 外形尺寸 | Overall dimension | 10000×2200×2600mm | 10000×2200×2600mm | 4400×1600×2300mm |

# FZS02

## Automatic Molecular Sieve Filling Machine
## 分子筛全自动灌装机





**专利号：** ZL 2023 2 3372868.8

- 适用于中空玻璃铝间隔条的打孔及分子筛罐装工序。
- PLC 控制系统，人机界面，操作方便。
- 在密闭条件下灌装，解决了干燥剂吸水汽失效，提高效率及中空玻璃寿命。
- 核心控件采用进口品牌。
- 铝条背面中间打孔、灌装、自动封胶。
- 可灌装自动折弯成形铝框和普通直插角铝框。
- 灌装高度可根据铝框大小调节。
- 独特的先进上料装置，可自动补料。
- 本机型可定制圆弧角铝框灌装（例如高铁玻璃）。

- Suitable for punching insulating glass aluminum spacer and filling molecular sieve.
- PLC control system, man-machine interface, easy to operate.
- Filling under closed conditions solves the problem of water vapor absorption failure of desiccant, and improves efficiency and service life of insulating glass.
- Imported brands are adopted for core controls.
- Punching, filling and automatic sealing in the middle of the back of aluminum strip.
- Can be filled with automatic bending aluminum frame and ordinary straight angle aluminum frame.
- The filling height can be adjusted according to the size of aluminum frame.
- Unique advanced feeding device can automatically replenish materials.
- This model can be customized for filling with arc angle aluminum frame (such as high-speed rail glass).

| 技术参数 | TECHNICAL PARAMETER | FZS02 | FZS03（多根铝条） |
|---|---|---|---|
| 电源 / 总功率 | Power supply / Total power | 220V/50Hz 1.0kW | 220V/50Hz 1.5kW |
| 工作压力 | Working air pressure | 0.5~0.8MPa | 0.5~0.8MPa |
| 分子筛流量 | Flow control | 约 24g/s | 约 24g/s |
| 灌装速度 | Filling speed | 8~12s/ 个 (1m × 1m 9a) | 6~8s/ 个 (1m × 1m 9a) |
| 灌装铝框最小尺寸 | Min. Aluminum bar size | 350 × 350mm | 350 × 350mm |
| 灌装铝框最大尺寸 | Max. Aluminum bar size | 3200 × 3200mm | 3200 × 3200mm |
| 灌装铝条规格 | Specification of aluminum spacer | 最小 6.5mm 最大 27mm | 最小 6.5mm 最大 45mm |
| 分子筛直径 | Molecular sieve diameter | 0.5~0.9mm | 0.5~0.9mm |
| 外形尺寸 | Overall dimension | 900 × 1200 × 3600mm | 1000 × 1200 × 3200mm |




# DJT02

## Automatic Butyl Sealant Extruder Machine
## 丁基胶涂布机

**专利号：** ZL 2022 3 0042336.X
ZL 2022 2 0040171.7








| 技术参数 | TECHNICAL PARAMETER | DJT02 |
|---|---|---|
| 电源 / 总功率 | Power supply / Total power | 220V/50Hz 3.0kW |
| 输送速度 | Conveying speed | 18~40m/min |
| 打胶温度 | Extruding temperature | 110~160℃ |
| 气动压力 | Air pressure | 0.5~0.8MPa |
| 挤胶压力 | Extruding pressure | 12~18MPa |
| 胶头可调范围 | Adjustable range of extruding nozzle | 6~27mm |
| 加工铝条宽度 | Width of machined aluminum strip | 4~30mm |
| 胶桶容量 | Rubber bucket capacity | 14kg |
| 外形尺寸 | Overall dimension | 3000 × 700 × 900mm |

- 适用于中空玻璃铝间隔条第一道密封，整体结构模块化，故障率低，易检修。
- 为保持稳定的出胶性能，采用先进的气液增压技术。
- 触摸屏温度控制，精度高，操作简单易行。
- 传送速度 5 档控制功能。胶量实时仪表显示，提前预警。
- 胶嘴宽度可自动感应调节，快速定位。
- 丁基胶装胶量 14KG，加工铝条宽度 4-30mm。油箱自动加油、洁净、省力。

- Suitable for the first seal of insulating glass aluminum spacer.The whole structure is modular,with low failure rate and easy maintenance.
- The use of advanced gas liquid pressurization technology ensures stable glue output.
- Touch screen temperature control, high precision, simple operation.
- Transmission speed 5-speed control function.Real-time instrument display of glue quantity, early warning.
- The width of the rubber nozzle can be automatically adjusted by induction, which can quickly locate.
- The amount of butyl rubber is 14KG, and the width of processed aluminum strip is 4-30mm.
- Automatic refueling of fuel tank is clean and labor-saving.

# DJT06

## Automatic Butyl Sealant Extruder Machine
## 丁基胶涂布机

**专利号：** ZL 2022 3 0042336.X
ZL 2022 2 0040171.7








| 技术参数 | TECHNICAL PARAMETER | DJT06 |
|---|---|---|
| 电源 / 总功率 | Power supply / Total power | 220V/50Hz 4.0kW |
| 输送速度 | Conveying speed | 18~40m/min |
| 打胶温度 | Extruding temperature | 110~160℃ |
| 气动压力 | Air pressure | 0.5~0.8MPa |
| 挤胶压力 | Extruding pressure | 12~18MPa |
| 胶头可调范围 | Adjustable range of extruding nozzle | 0~50mm |
| 加工铝条宽度 | Width of machined aluminum strip | 4~45mm |
| 胶桶容量 | Rubber bucket capacity | 14kg |
| 外形尺寸 | Overall dimension | 3000×700×900mm |

- 适用于中空玻璃铝间隔条第一道密封，整体结构模块化，故障率低，易检修。
- 为保持稳定的出胶性能，采用双泵气液增压技术。
- 两个胶嘴单独温度控制，出胶量控制更精准。
- 触摸屏温度控制，精度高，胶嘴宽度屏幕一键式调节，操作简单。
- 传送速度 5 档控制功能。
- 丁基胶装胶量 14KG，加工铝条宽度 4-45mm。

- Suitable for the first seal of insulating glass aluminum spacer.The whole structure is modular,with low failure rate and easy maintenance.
- The use of advanced gas liquid pressurization technology ensures stable glue output.
- In order to keep the stable glue output performance, Double-pump gas-liquid pressurization technology is adopted.
- The temperature of the two glue nozzles is controlled separately, and the glue output is controlled more accurately.
- Touch screen temperature control, high precision, one-button screen adjustment of rubber nozzle width, simple operation.
- Transmission speed 5-speed control function.
- The amount of butyl rubber is 14KG, and the width of processed aluminum strip is 4-45mm.

# DJT07

## Automatic Butyl Sealant Extruder Machine (Add paper strip)
## 丁基胶涂布机（添加纸条型）

**专利号：** ZL 2022 3 0042336.X
ZL 2022 2 0040171.7








| 技术参数 | TECHNICAL PARAMETER | DJT07 |
|---|---|---|
| 电源 / 总功率 | Power supply / Total power | 220V/50Hz 3.0kW |
| 输送速度 | Conveying speed | 18~40m/min |
| 打胶温度 | Extruding temperature | 110~160℃ |
| 气动压力 | Air pressure | 0.5~0.8MPa |
| 挤胶压力 | Extruding pressure | 12~18MPa |
| 胶头可调范围 | Adjustable range of extruding nozzle | 6~27mm |
| 加工铝条宽度 | Width of machined aluminum strip | 4~30mm |
| 胶桶容量 | Rubber bucket capacity | 14kg |
| 外形尺寸 | Overall dimension | 3000×700×1100mm |

- 适用于中空玻璃铝间隔条第一道密封，整体结构模块化，故障率低，易检修。
- 方形出胶口设计，出胶平整，容易粘纸带，纸带粘贴均匀，送纸速度快。
- 为保持稳定的出胶性能，采用先进的气液增压技术。
- 触摸屏温度控制，精度高，操作简单易行。
- 传送速度 5 档控制功能。胶量实时仪表显示，提前预警。
- 胶嘴宽度可自动感应调节，快速定位。
- 丁基胶装胶量 14KG，加工铝条宽度 4-30mm。

- Suitable for the first seal of insulating glass aluminum spacer.The whole structure is modular,with low failure rate and easy maintenance.
- Square glue outlet design, flat glue outlet, easy to stick paper tape, even paper tape paste, fast paper feeding speed.
- The use of advanced gas liquid pressurization technology ensures stable glue output.
- Touch screen temperature control, high precision, simple operation.
- Transmission speed 5-speed control function.Real-time instrument display of glue quantity, early warning.
- The width of the rubber nozzle can be automatically adjusted by induction, which can quickly locate.
- The amount of butyl rubber is 14KG, and the width of processed aluminum strip is 4-30mm.

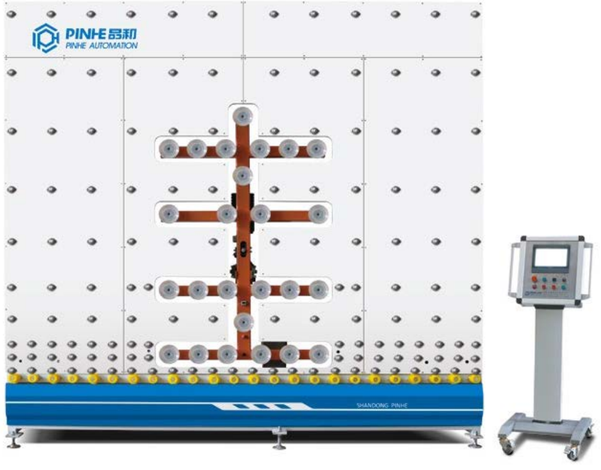
# GUM2000/2500/2800/3000/3300

## Vertical Glass Loading Machine
## 全自动立式智能上片机

**专利号：** ZL 2022 2 0039887.5








- **翻转模式：** 采用国内先进的伺服电机翻转，任意角度可停，运行速度稳定。
- **上片角度：** 垂直方向 0-15 度可调节，可满足各种角度玻璃架上片。
- **吸片深度：** 可满足 700mm 以内的上片深度，无需任何辅助架，直接从玻璃架进行上片作业。
- **感应装置：** 采用国际品牌感应光电，可有效杜绝因感应失灵导致的安全事故。
- **吸附装置：** 吸盘采用先进的双层吸附结构（内外两层），使吸附作业时，吸片更牢固，杜绝了吸盘外层划伤而导致的吸附漏气缺陷。
- **吸盘控制：** 每组吸盘均可通过显示屏进行智能化选择开与关，可自由选择吸盘工作数量组，方便各种尺寸的玻璃进行上片吸附作业。
- **提升装置：** 设备具有独特的提升程序装置，使玻璃有效分片。
- **操作模式：** 设备带有自动模式和手动模式两种功能供选择，操作方便更直观。
- **操作界面：** 采用彩色液晶触摸屏显示界面，中文显示模块，操作方便快捷。
- **保护装置：** 如遇到玻璃架放置与设备太近时只前伸到一定位置前伸停止，不下降避免下降时与传送轮相撞。设备装有急停开关，可在出现异常时进行设备停止控制。

- **Turnover mode:** The domestic advanced servo motor is used to overturn, which can stop at any angle and has stable running speed.
- **Loading angle:** Adjustable from 0 to 15 degrees in the vertical direction, which can meet the requirements of loading glass frames at various angles.
- **Suction depth:** It can meet the loading depth within 700mm, and can be loaded directly from the glass frame without any auxiliary frame.
- **Sensing device:** The international brand sensing photoelectric device can effectively prevent safety accidents caused by sensing failure.
- **Adsorption device:** The suction cup adopts advanced double-layer adsorption structure (inner and outer layers), which makes the suction sheet firmer during adsorption operation and eliminates the defect of adsorption air leakage caused by scratching the outer layer of the suction cup.
- **Sucker control:** Each group of suckers can be intelligently selected on and off through the display screen, which can be freely selected. The number of suckers is set, which is convenient for glass of various sizes to be adsorbed on the upper sheet.
- **Lifting device:** The equipment has a unique lifting program device, which can effectively prevent glass breakage caused by glass joint.
- **Operation mode:** The equipment has two functions to choose from: automatic mode and manual mode. Easy to operate and more intuitive.
- **Operating interface:** It adopts color LCD touch screen display interface and Chinese display module, which is convenient and quick to operate.
- **Protection device:** If the glass frame is placed too close to the equipment, it only extends forward to a certain position and stops, and does not descend to avoid colliding with the transfer wheel when descending. The equipment is equipped with an emergency stop switch, which can stop the equipment in case of abnormality.

| 技术参数 | TECHNICAL PARAMETER | GUM2000 | GUM2500 | GUM2800 | GUM3000 双臂 | GUM3300 三臂 |
|---|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 5.0kW | 6.0kW | 7.0kW | 12kW | 14kW |
| 工作气压 | Working air pressure | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa |
| 最大加工尺寸 | Max. machining size | 2000×2500mm | 2500×4000mm | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 最小加工尺寸 | Min. machining size | 400×400mm | 400×400mm | 500×400mm | 500×400mm | 500×400mm |
| 加工玻璃厚度 | Thickness of glass | 3~12mm | 3~15mm | 5~27mm | 6~27mm | 6~27mm |
| 最大载重 | Max. load | ≤250kg | ≤400kg | ≤600kg | ≤800kg | ≤1800kg |
| 外形尺寸 | Overall dimension | 2500×2300×2400mm | 3500×2300×2900mm | 4000×2400×3200mm | 6000×2400×3400mm | 9000×2400×3700mm |

# GDM2000/2500/2800/3000/3300

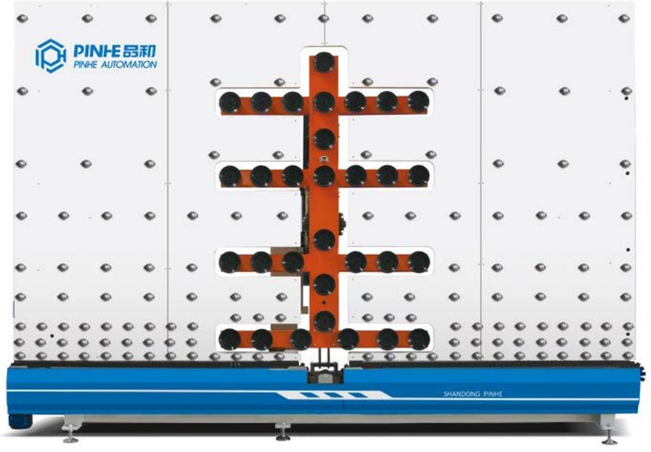
## Vertical Glass Unloading Machine
## 全自动立式智能下片机

专利号：ZL 2022 2 0161680.5










- **翻转模式：**采用国内先进的伺服电机翻转，任意角度可停，运行速度稳定。
- **下片角度：**垂直方向 0-15 度可调节，可满足各种角度玻璃架下片。
- **吸片深度：**可满足 700mm 以内的上片深度，无需任何辅助架，直接从玻璃架进行下片作业。
- **感应装置：**采用国际品牌感应光电，可有效杜绝因感应失灵导致的安全事故。
- **吸附装置：**吸盘采用先进的双层吸附结构（内外两层），使吸附作业时，吸片更牢固，杜绝了吸盘外层划伤而导致的吸附漏气缺陷。
- **吸盘控制：**每组吸盘均可通过显示屏进行智能化选择开与关，可自由选择吸盘工作数量组，方便各种尺寸的玻璃进行上片吸附作业。
- **提升装置：**设备具有独特的提升程序装置，使玻璃有效分片。
- **操作模式：**设备带有自动模式和手动模式两种功能供选择，操作方便更直观。
- **操作界面：**采用彩色液晶触摸屏显示界面，中文显示模块，操作方便快捷。
- **保护装置：**如遇到玻璃架放置与设备太近时只前伸到一定位置前伸停止，不下降避免下降时与传送轮相撞。设备装有急停开关，可在出现异常时进行设备停止控制。

- **Turnover mode:** The domestic advanced servo motor is used to overturn, which can stop at any angle and has stable running speed.
- **Loading angle:** Adjustable from 0 to 15 degrees in the vertical direction, which can meet the requirements of loading glass frames at various angles.
- **Suction depth:** It can meet the loading depth within 700mm, and can be loaded directly from the glass frame without any auxiliary frame.
- **Sensing device:** the international brand sensing photoelectric device can effectively prevent safety accidents caused by sensing failure.
- **Adsorption device:** the suction cup adopts advanced double-layer adsorption structure (inner and outer layers), which makes the suction sheet firmer during adsorption operation and eliminates the defect of adsorption air leakage caused by scratching the outer layer of the suction cup.
- **Sucker control:** Each group of suckers can be intelligently selected on and off through the display screen, which can be freely selected. The number of suckers is set, which is convenient for glass of various sizes to be adsorbed on the upper sheet.
- **Lifting device:** The equipment has a unique lifting program device, which can effectively prevent glass breakage caused by glass joint.
- **Operation mode:** the equipment has two functions to choose from: automatic mode and manual mode. Easy to operate and more intuitive.
- **Operating interface:** It adopts color LCD touch screen display interface and Chinese display module, which is convenient and quick to operate.
- **Protection device:** If the glass frame is placed too close to the equipment, it only extends forward to a certain position and stops, and does not descend to avoid colliding with the transfer wheel when descending. The equipment is equipped with an emergency stop switch, which can stop the equipment in case of abnormality.

| 技术参数 | TECHNICAL PARAMETER | GDM2000 | GDM2500 | GDM2800 | GDM3000 双臂 | GDM3300 三臂 |
|---|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 6.0kW | 7.0kW | 8.0kW | 14kW | 16kW |
| 工作气压 | Working air pressure | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa | 0.6~0.8MPa |
| 最大加工尺寸 | Max. machining size | 2000×3000mm | 2500×4000mm | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 最小加工尺寸 | Min. machining size | 400×400mm | 400×400mm | 500×400mm | 500×400mm | 500×400mm |
| 加工玻璃厚度 | Thickness of glass | 20~50mm | 20~50mm | 20~80mm | 20~90mm | 20~100mm |
| 最大载重 | Max. load | ≤300kg | ≤500kg | ≤700kg | ≤900kg | ≤2000kg |
| 外形尺寸 | Overall dimension | 2500×2300×2400mm | 3500×2300×2900mm | 4000×2400×3200mm | 6000×2400×3400mm | 9000×2400×3700mm |

# FMJ2000/2500/2800/3000/3300

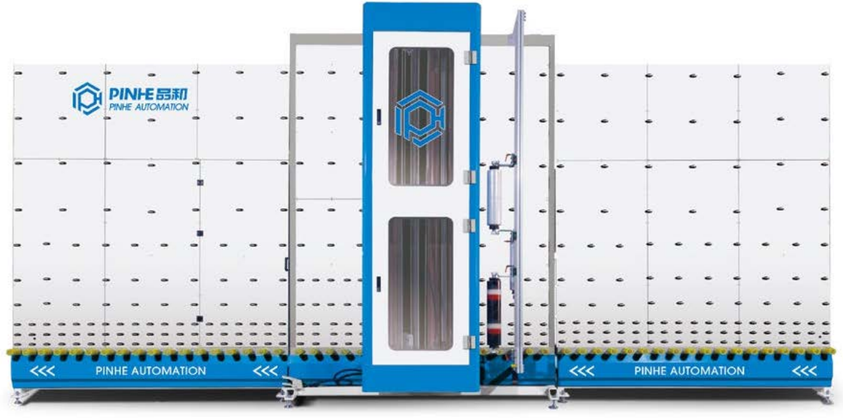
## Full-automatic Film Covering Machine
## 全自动立式覆膜机

可根据需求定制加工尺寸










- 各种参数可调，所有动作均可在 HMI 上实现手动操作并显示实时反馈信息。
- 设备具有双面贴膜和单面贴膜功能。
- 立式设计更节省空间，玻璃垂直到垂直转运更省劲，安全。
- 操作界面 / 调试具有手动，自动及暂停的功能；操作 / 维修二级密码权限 ( 操作人员无法调整参数 )。
- 保护膜分层式设计，膜尺寸灵活组合， 节省膜的成本。
- 故障报警功能，片数计数功能。
- 滚动刀头切膜，压力自动控制，杜绝划伤玻璃。
- 上料 / 下料处配有急停装置，不可为软急停。
- 进片方向：面对设备正面 ( 有触摸屏的一面 ) 左上右下。
- 带有三边切膜功能，留白宽度范围在 HMI 中单独调试；底部留白在安装膜时预留。

- Various parameters can be adjusted, and all actions can be manually operated on HMI and real-time feedback information can be displayed.
- The equipment has double-sided and single-sided film pasting functions.
- Vertical design saves more space, and vertical glass transportation saves more energy and is safer.
- Interface/debugging has manual, automatic and pause functions; Operation/maintenance secondary password authority (the operator cannot adjust the parameters).
- Layered design of protective film, flexible combination of film sizes, saving film cost.
- Fault alarm function, piece count function.
- Rolling cutter head cuts film, pressure is automatically controlled, so as to avoid scratching the glass.
- The loading/unloading place is equipped with an emergency stop device, which cannot be a soft emergency stop.
- Film feeding direction: facing the front of the equipment (the side with touch screen), top left, bottom right.
- With trilateral film cutting function, the range of blank width is debugged separately in HMI; The bottom blank space is reserved when installing the membrane.

| 技术参数 | TECHNICAL PARAMETER | FMJ2000 | FMJ2500 | FMJ2800 | FMJ3000 | FMJ3300 |
|---|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 工作压力 | Working air pressure | 0.5~0.8MPa | 0.5~0.8MPa | 0.5~0.8MPa | 0.5~0.8MPa | 0.5~0.8MPa |
| 最小玻璃高度 | Min. glass height | 300mm | 300mm | 300mm | 300mm | 300mm |
| 最大玻璃高度 | Max. glass height | 2000mm | 2500mm | 2800mm | 3000mm | 3300mm |
| 最小玻璃长度 | Min. glass length | 620mm | 620mm | 620mm | 620mm | 620mm |
| 最大玻璃长度 | Max. glass length | 3000mm | 4000mm | 5000mm | 6000mm | 9000mm |
| 适应玻璃厚度 | Adapt to glass thickness | 4~50mm | 4~50mm | 4~50mm | 4~50mm | 4~50mm |
| 覆膜速度 | Film covering speed | 4~20m/min( 可调 ) | 4~20m/min( 可调 ) | 4~20m/min( 可调 ) | 4~20m/min( 可调 ) | 4~20m/min( 可调 ) |
| 外形尺寸 | Overall dimension | 8500×1890×3010mm | 10500×1890×3510mm | 12500×1890×3810mm | 14500×1990×4010mm | 20500×2240×4310mm |

# LQJ2000/2500/2800/3000/3300

## Automatic Vertical Glass Washing and Drying Machine
## 全自动立式玻璃清洗机

可根据需求定制加工尺寸






- 清洗机机身采用加厚不锈钢材质，耐腐蚀。
- 三级清洗，六个 150mm 直径优质 1010 尼龙毛刷加四个喷头。
- 干燥箱内风刀、靠背架均采用不锈钢材质。
- 合理的风刀角度可调，玻璃干燥效果更佳。
- 独特的循环风设计，节能低噪。
- 内外隔音板设计，防风降噪。

- The cleaning machine body is constructed of thickened stainless steel for corrosion resistance.
- 3-stage cleaning, with 6pcs 150mm diameter high-quality 1010 nylon brushes and 4 nozzles.
- The air knife and backrest inside the drying chamber are both made of stainless steel.
- The air knife are adjustable at a suitable angle for optimal glass drying.
- The unique recirculating air design is energy-efficient and low-noise.
- Internal and external soundproofing panels provide wind and noise reduction.

| 技术参数 | TECHNICAL PARAMETER | LQJ2000 | LQJ2500 | LQJ2800 | LQJ3000 | LQJ3300 |
|---|---|---|---|---|---|---|
| 电源 | Power supply | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz | 380V/50Hz |
| 总功率 | Total power | 20.0kW | 25.0kW | 35.0kW | 45.0kW | 45.0kW |
| 玻璃最大尺寸 | Max. glass size | 2000×3000mm | 2500×4000mm | 2800×5000mm | 3000×6000mm | 3300×9000mm |
| 玻璃最小尺寸 | Min. glass size | 280×450mm | 280×450mm | 280×450mm | 280×450mm | 280×450mm |
| 原片玻璃厚度 | Glass sheet thickness | 3~12mm | 3~12mm | 3~30mm | 3~30mm | 3~30mm |
| 玻璃清洗速度 | Glass washing speed | 2~12m/min | 2~12m/min | 2~12m/min | 2~12m/min | 2~12m/min |
| 工作速度 | Working speed | 2~40m/min | 2~40m/min | 2~40m/min | 2~40m/min | 2~40m/min |
| 气源 | Air pressure | 1MPa | 1MPa | 1MPa | 1MPa | 1MPa |
| 水电导率 | Water electrical conductivity | ≤40 μ s/cm | ≤40 μ s/cm | ≤40 μ s/cm | ≤40 μ s/cm | ≤40 μ s/cm |
| 外形尺寸 | Overall dimension | 8500×3000×3200mm | 10500×3000×3700mm | 13000×3500×4100mm | 15000×3500×4300mm | 20000×3500×4500mm |

# CP2030/2540

## Cork Pad Paving Machine
## 软木垫全自动铺贴机





- 适用中空玻璃软木垫铺贴工序。
- 各种参数可调，所有动作均可在 HMI 上实现手动操作并显示实时反馈信息。
- 操作界面 / 调试具有手动、自动及暂停的功能；操作 / 维修二级密码权限（操作人员无法随意调整参数）。
- 设有故障报警功能。
- X 轴水平方向木垫数量可调节。
- Z 轴竖直方向由伺服电机驱动，定位精准。
- Z 轴竖直方向木垫高度自动调节。
- X 轴水平方向由伺服电机驱动，木垫贴放位置均匀美观。
- 设备配有多个料盘，更换操作简单方便。
- 立式设计更节省空间，提高效率，安全生产。

- Suitable for paving process of insulating glass cork cushion.
- Various parameters can be adjusted, and all actions can be manually operated on HMI and real-time feedback information can be displayed.
- The interface/debugging has manual, automatic and pause functions; Operation/maintenance secondary password authority (the operator can't adjust the parameters at will).
- Equipped with fault alarm function.
- The number of wooden mats in the horizontal direction of X axis can be adjusted.
- Automatic adjustment of height of wooden mat in vertical direction of Z axis.
- The horizontal direction of the axis is driven by servo motor, and the wooden pad is placed evenly and beautifully.

| 技术参数 | TECHNICAL PARAMETER | CP2030/2540 |
|---|---|---|
| 电源 | Power supply | 380V/50Hz |
| 总功率 | Total power | 3.0kW |
| 加工玻璃高度 | Height of processed glass | 最小 300mm 最大 2000/2500mm |
| 加工玻璃长度 | Length of processed glass | 最小 500mm 最大 3000/4000mm |
| 适应玻璃厚度 | Suitable glass thickness | 4~60mm |
| 传送速度 | Conveying speed | 4~20m/min ( 可调 adjustable) |
| 外形尺寸 | Overall dimension | 1000×1500×3500mm |




# BST03

## Pneumatic Two Component Silicone Extruder
## 纯气动双组份涂胶机





- 适用于中空玻璃或门窗幕墙企业大规模批量生产。
- 纯气动控制，使用方便，易操作。
- 主、副马达采用美国先进技术，动力稳定、出胶量大。
- 基料泵、固化剂泵、比例泵一体式结构，杜绝漏胶。
- 基料泵、固化剂泵设有特殊装置，避免泵体空打。
- 比例泵特制单向阀，出胶流畅，适合各种密封胶，彻底解决混胶不匀。
- 多道过滤装置，杜绝杂质进入泵体。
- 国际流行式特制胶枪，搅拌均匀：不锈钢混合芯轴，精密、耐用。
- 单向阀采用高耐磨材料，换向稳定，设备寿命长。
- 旋转臂配有万向装置，灵活轻便。

- Sutiable for mass production of insulating glass and curtain walls.Pneumatic control, easy to operate.
- Main and auxiliary motor all adoptAmerican advanced technology, stable power, large sealant output.
- Integrated structure of base material pump, curing agent pump and proportioning pump, avoid leaking sealant.
- Special device in base material pump and curing agent pump, avoid running idle.
- Special check valve in proportioning pump to make the sealant coming out more fluently, suitable for all kinds of sealant,avoid incomplete mixing.
- Multichannel filtering device, eliminate the impurities into the pump body.
- Special glue gun, evenly stirred: stainless steel mixed mandrel, precise and durable.

| 技术参数 | TECHNICAL PARAMETER | BST03 |
|---|---|---|
| 混合比 | Mixing ratio | 6:1~14:1 |
| 基料桶 | Material drum | 55gallon (200L) |
| 固化剂桶 | Curing agent drun | 5gallon (20L) |
| 胶气压力比 | Glue pressure ratio | 50:1 |
| 挤胶最大压力 | Max. pressure of extruding glue | 32MPa |
| 出胶量 | Glue output | 4~10L/min |
| 外形尺寸 | Overall dimension | 1750x950x1980mm |



## ALD360

Automatic Gantry Structure Loading / Unloading Machine

龙门式自动上 / 下片机



## MCY-02

Edging and Film Removing Integrated Machine

玻璃磨边除膜一体机



## SSJ-01

Spacer Transfer Machine

铝间隔框输送机



## HZT-01

Rotating Table

旋转涂胶台



## WFM-02

Horizontal Automatic Film Covering Machine

卧式全自动覆膜机



## SJT-02

Hydraulic Lifting Table

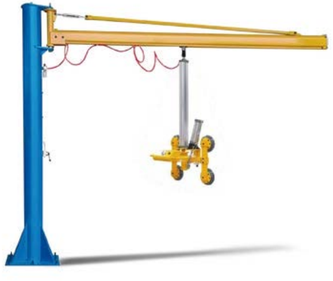
液压升降台



## XPJ-300

Glass Unloading Machine

玻璃下片机

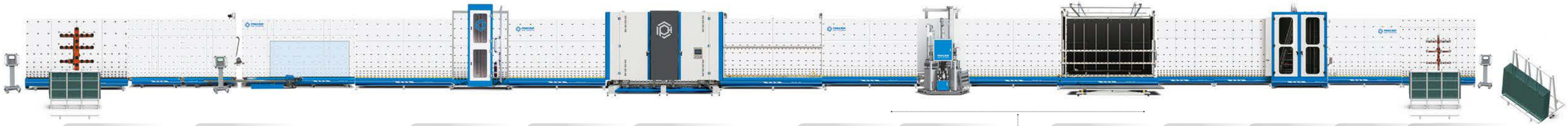


## ZCJ-02

Inter Gas Inflator (Argon)

中空玻璃充气机





全自动下片机
Glass Unloading Machine

全自动封胶线
Automatic Insulating Glass CNC Sealing Machine

全自动覆膜机
Full-automatic Film Covering Machine

出料段
Transmission Section

板内合片充气段
In-plate laminate Inflation Section

板外合片段
Combined Section

TPSS 打胶段
TPSS Gluing Section

铝框装配段
Aluminum Frame Assembly Section

出料段
Transmission Section

清洗干燥段
Cleaning & Drying Section

进料段
Feed Section

全自动上片机
Glass Loading Machine



INSULATING GLASS

# EFFICIENT PRODUCTION SOLUTIONS

## 中空玻璃生产 · 高效配置方案



铝间隔条全自动折弯机
Automatic Aluminum Spacer Bar Bending Machine



TPSS 工艺 · 铝框工艺
一键转换
TPSS technology aluminum frame technology
One-key conversion

双工位分子筛全自动灌装机
Automatic Molecular Sieve Filling Machine



丁基胶涂布机
Butyl Sealant Extruder Machine





玻璃磨边除膜一体机
Edging and Film Removing Integrated Machine

## 专业致力 · 打造中空玻璃加工智慧工厂

体验中空玻璃智能加工新境界

Create a smart factory for insulating glass processing

Experience the new realm of intelligent processing

**山东品和**中空玻璃智能生产管理系统，实现软件与硬件无缝衔接，基于大数据及物联网的智慧加工解决方案及关键技术为核心，以数字化、网络化和智能化等信息技术与中空玻璃智能加工设备的深度融合为基础，达到中空玻璃前端设计与车间生产一线的完美结合。通过自动化、智能化、柔性化生产来代替人工生产，摆脱管理的制约，深度改善成本结构。
以高效、精确、便捷、节能、安全、环保为主要目标，达到玻璃制造数据零失误、省人工、高效率。

SHANDONG PINHE insulating glass intelligent production management system, with intelligent processing solutions and key technologies based on big data and Internet of Things as the core, is based on the deep integration of digital, networked and intelligent information technologies and insulating glass intelligent processing equipment, achieving the perfect combination of insulating glass front-end design and workshop production line. With high efficiency, accuracy, convenience, energy saving, safety and environmental protection as the main goals, the glass manufacturing data will be zero error, labor saving and high efficiency.

**山东品和**中空玻璃智慧工厂已助力多家玻璃企业实现质变 —**降低管理费用 70%、节省人工成本 60%、提高生产效率 70% 以上、产品合格率达到 99.9%**。真正为客户提高了产品品质和生产效率，为中空玻璃加工企业的快速发展，提供全套解决方案和技术支持。

SHANDONG PINHE insulating glass smart factory has helped many glass enterprises to achieve qualitative change-reducing management costs by 70%, saving labor costs by 60%, improving production efficiency by more than 70%, and reaching the product qualification rate of 99.9%. Really improve the product quality and production efficiency for customers, and provide a full set of solutions and technical support for the rapid development of insulating glass processing enterprises.




## Highly meet the needs of users

# Seamless coordination
# Service Items

## 高度满足用户需求 · 无缝协调服务内容

关注需求 · 主动服务
Active service and problem solving

EXPERT
# SERVICE
## 极致服务

为客户提供从系统选择到设备安装再到投入生产，从及时有效的技术支持到安装调试深度培训的全方位服务。

To provide customers with all-round services from system selection to equipment installation to production, from timely and effective technical support to in-depth training in installation and debugging.

**品和**拥有一支高素质的国内外市场营销队伍。
**品和**的产品遍布全国各地以及欧洲，并远销欧美、中东、非洲、东南亚等几十个国家和地区。
**品和**已成为全球知名的玻璃机械生产商之一。
一套优秀的营销体系铸就了我们现在的辉煌业绩，但我们不骄傲、**品和**正向着更高的目标而奋进。

Only by dominating the market can an enterprise seek for further development. With a high-quality domestic and overseas marketing team. The products sell well at home and abroad, and some were exported to the countries in Europe, Africa,Middle east and Southeast Asia.
We have already become one of the well-known glass machinery manufactures.It is a favorable marketing system that helps us make glorious achievements.
However,we will never be arrogant and never stop. PINHE people are striving on the way to reach higher goals.

**24h**
**24 小时在线服务**
24-hour online service

**100+**
**销往全球 100 多个国家**
Sold to 100 countries world

**40+**
**40 余人的专业服务团队**
A service team of 40 people