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方鼎科技

FANG DING TECHNOLOGY

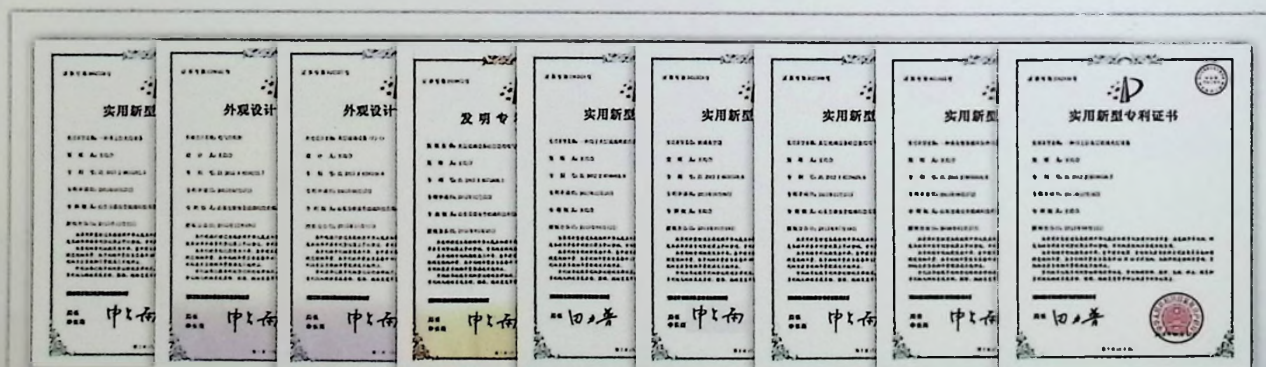
FANG DING
TECHNOLOGY

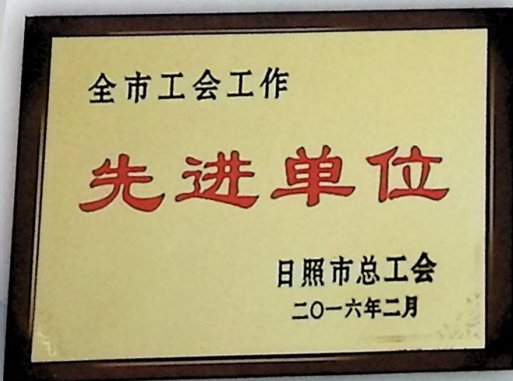
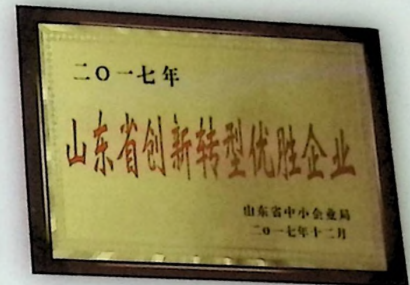
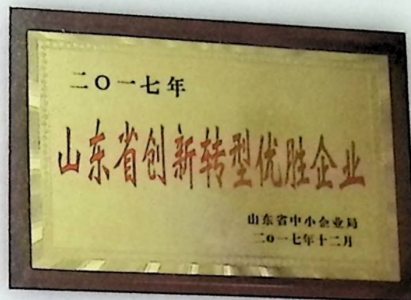
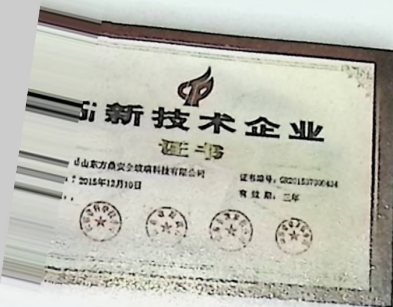
提供夹层玻璃技术全套解决方案
PROVIDE A COMPLETE SOLUTION FOR LAMINATED GLASS TECHNOLOGY

CERTIFICATES AND HONORS

不忘初心 辉煌20载

Remain true to our original aspiration ,develop with glory for 20 years





DOUBLE-LAYER,DOUBLE TRACK EVA LAMINATED GLASS MACHINE

双层双轨道夹胶炉

> 产品特点

- (1) 双轨道独特设计结构，可单双工位灵活使用；
- (2) 可将超大弧形建筑夹胶玻璃一次加工成型；
- (3) 加热快，受热均匀，耗能是同类产品的 40%-50%；
- (4) 可预约开机、定时关机、自动开门、云端控制。



型号 Model	规格 (MM) Glass size	控制系统 Control system	占地尺寸 (MM) Floor space	重量 (KG) Weight	功率 (KW) Power	加工时间 (Min) Process time	产量 / 炉 (m³) Production capacity	外形尺寸 (MM) Dimension
FD-J-2-2	2000*3000*2	电脑触屏 Siemens PLC	3700*9000	2200	33	40-120	36	2600*4000*1150
FD-J-3-2	2200*3200*2	电脑触屏 Siemens PLC	4000*9500	2400	35	40-120	42	2750*4200*1150
FD-J-4-2	2200*3660*2	电脑触屏 Siemens PLC	4000*10500	2500	35	40-120	48	2750*4600*1150
FD-J-5-2	2440*3660*2	电脑触屏 Siemens PLC	4500*10500	2600	39	40-120	53	2980*4600*1150



> FEATURES

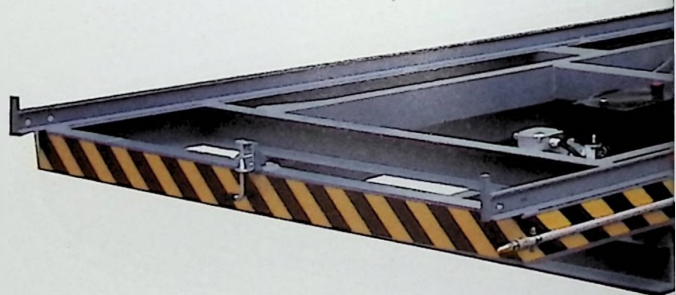
1. Adopt the unique design structure of double track, which can be used flexibly by single or double stations.
2. Super large curved architecture laminated glass can be formed at one time.
3. The machine is heating fast and evenly, energy saving 40%-50%.
4. The machine has the functions of reservation startup, timed shutdown, automatic door opening and cloud control.

FOUR-LAYER,DOUBLE CIRCULATION EVA LAMINATED GLASS MACHINE

四层双循环设备

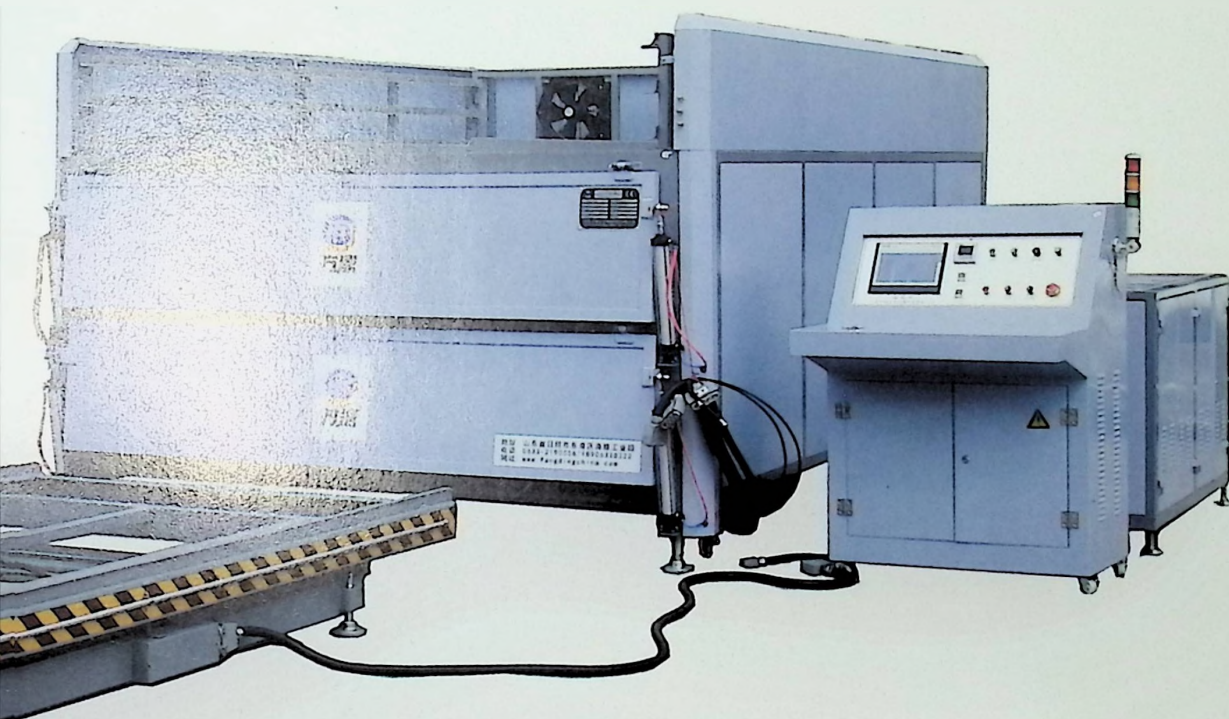
> 产品特点

- (1) A区B区两套炉体，独立控制，可同时生产不同参数的玻璃，循环工作，降本增效；
- (2) 独立真空系统具备断电保压、油水分离、泄压报警、保养提醒、防尘降噪等功能；
- (3) 多层独立加热，模块化区域加温控制，加热速度快、效率高、温差小；
- (4) 设备保温层进行无缝化处理，减少热量流失，保温效果更强，更加节能环保；
- (5) 采用PLC控制系统，全新人性化UI界面，设备状态全程可视化，所有程序自动运行；
- (6) 全新升级设计，升降平台具备一键升降功能，满载玻璃升降不变形无回弹。



> FEATURES

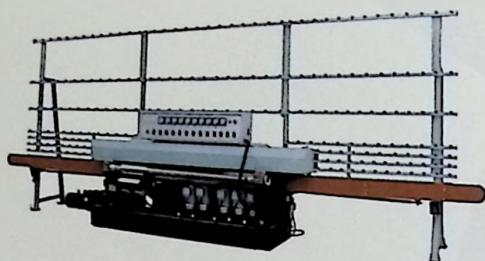
- 1. The machine have 2 operation systems, can laminate different kinds of glass with different parameters at the same time, realize cycle work, reduce costs and and increase efficiency.
- 2.The independent vacuum system has the functions of power failure and pressure maintenance, oil-water separation, pressure relief alarm, maintenance reminder, dust prevention and noise reduction, etc.
- 3.Multi-layer independent heating and modular area heating control, make the machine has fast heating speed, high efficiency and small temperature difference.
- 4.The insulation layer is seamlessly processed to reduce heat loss, the insulation effect is stronger, and it is more energy-saving.
- 5.The machine adopts PLC control system and the new humanized UI interface, the whole process of machine status can be visualized, and all procedures can be completed automatically.
- 6.New upgraded design, the lifting platform has a one-button lifting function, and the full-load glass lifts without deformation and rebound.



型号 Model	规格 (MM) Glass size	控制系统 Control system	占地尺寸 (MM) Floor space	重量 (KG) Weight	功率 (KW) Power	加工时间 (Min) Process time	产量 / 炉 (m²) Production capacity	外形尺寸 (MM) Dimension
FID-J-2-4	2000*3000*4	电脑触屏 Siemens PLC	3720*9000	3700	65	40-120	72	2530*4000*2150
FID-J-3-4	2200*3200*4	电脑触屏 Siemens PLC	4020*9500	3900	70	40-120	84	2730*4200*2150
FID-J-4-4	2200*3660*4	电脑触屏 Siemens PLC	4020*10500	4100	70	40-120	96	2730*4600*2150
FID-J-5-4	2440*3660*4	电脑触屏 Siemens PLC	4520*10500	4300	73	40-120	107	2965*4600*2150

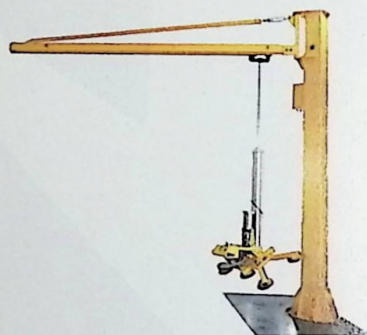
THE PROCESSING FLOW OF EVA LAMINATED GLASS

夹层玻璃加工工艺流程



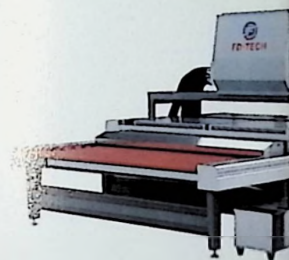
玻璃磨边机

Glass edging machine



玻璃机械手

Glass vacuum lifter

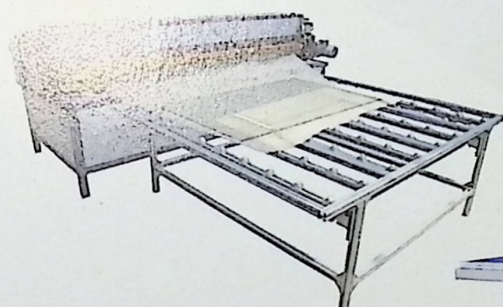


玻璃清洗机

Glass washing machine

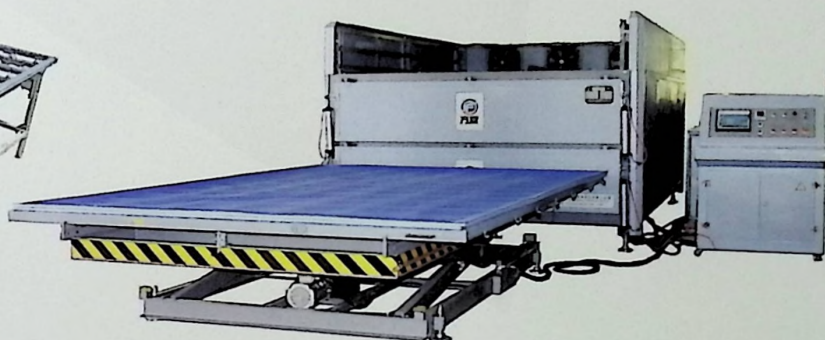
流程简易 操作便捷

SIMPLE PROCEDURE, EASY TO OPERATE



胶片架与合片台

Film shelf & combine table



四层双循环设备

EVA laminated glass machine

LAMINATED GLASS AUTOCLAVE

夹层玻璃蒸压釜

> 产品特点

强制对流玻璃蒸压釜采用了上下循环以及前后循环双重对流加热的压力容器，采用PID控制，可以实现对温度压力的精确控制，使温度压力可以完全按照设计曲线图变化；适合各种工艺要求的夹层玻璃的合成制作。特别是中间膜为PVB或者SGP材料的产品，并能保证完美的产品质量和成品率。



> FEATURES

The forced convection glass autoclave adopts the pressure vessel with double convection heating of up and down circulation and front and back circulation, and adopts PID control, which can realize the accurate control of temperature and pressure, so that the temperature and pressure can change completely according to the design curve; It is suitable for the synthesis and manufacture of laminated glass with various process requirements. In particular, the intermediate membrane is made of PVB or SGP materials, and can ensure perfect product quality and yield.



› 平面及弯曲夹层玻璃

› Flat and curved laminated glass

› 温度、压力程序自动控制

› Automatic control of temperature and pressure program

› 安全联锁装置

› Safety interlock

LAMINATED GLASS AUTOCLAVE

夹层玻璃蒸压釜



TECHNICAL PARAMETERS

技术参数

名称 Name	单位 Units	DN2100*6000	DN2600*6000	DN2860*6000	DN3000*6000	DN3200*8000	DN3600*8000	DN3800*8000
釜体内径 Inner diameter	mm	2100	2600	2860	3000	3200	3600	3800
有效长度 Glass length	mm	6000	6000	6000	6000	8000	8000	8000
最大玻璃加工尺寸 Max.glass size	mm	1700*6000	2200*6000	2440*6000	2600*6000	2800*8000	3200*8000	3400*8000
设计压力 Max.press	Mpa	1.5	1.5	1.5	1.5	1.5	1.5	1.5
设计温度 Max.temp	℃	160	160	160	160	160	160	160
工作压力 Operating press	Mpa	1.3	1.3	1.3	1.3	1.3	1.3	1.3
工作温度 Operating temp	℃	120~135	120~135	120~135	120~135	120~135	120~135	120~135
釜内搅拌 Orbital stirrer	转/分	700	800	850	1000	1000	1100	1100
循环风功率 Circulating fan power	kW	15~30	18.5~37	18.5~37	22~45	22~45	37~75	37~75
加热功率 Heating power	KW	160	180	228	280	310	360	400
冷却水池容积 Cooling water volume	m3	30	30	40	40	45	50	60
配套螺旋空压机功率 Compressor power	KW	37	45	55	75	75	90	110
釜接入电缆截面积 (铜线走线槽, 不算空压机) Cable cross-section area	mm2	95	120	150	185	240	300	400

* 可根据客户实际需求进行定制

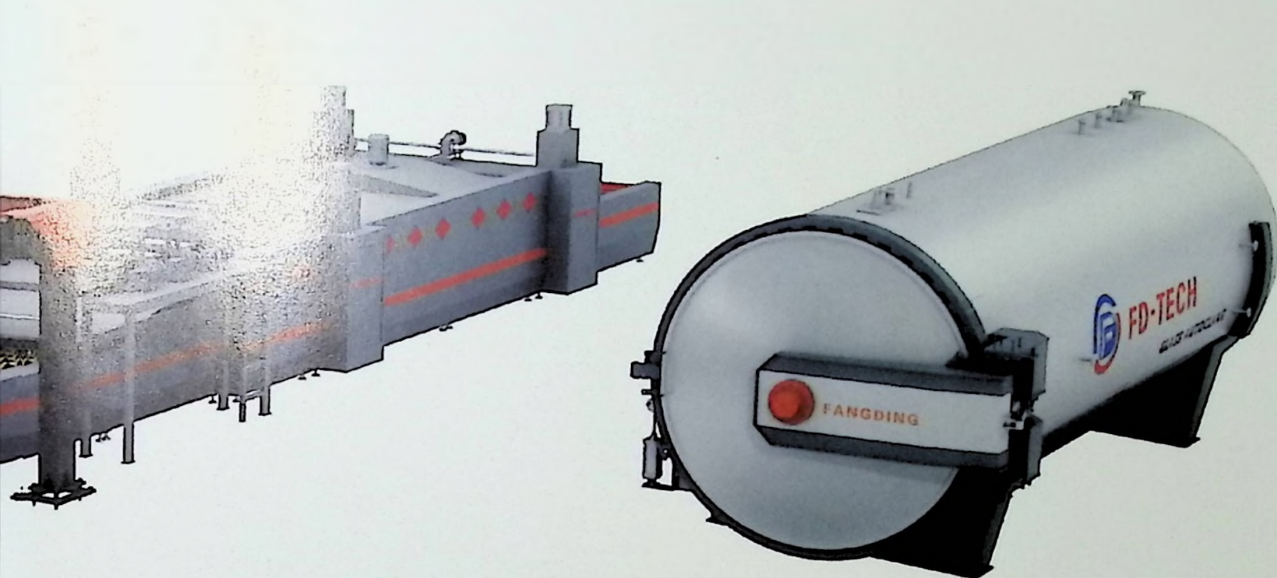
原件名称	品牌型号		备注
断路器 (Circuit breaker)	德力西 (Delixi)	CDM1系列 (CDM1 Series)	可定制 (Customizable)
断路器 (Circuit breaker)	德力西 (Delixi)	DZ47s 系列 (DZ47s Series)	可定制 (Customizable)
接触器 (Contactor)	德力西 (Delixi)	CJX2S系列 (CJX2S Series)	可定制 (Customizable)
隔离变压器 (Isolation transformer)	德力西 (Delixi)	BK系列 (BK Series)	可定制 (Customizable)
PLC模块 (PLC modular)	西门子 (Siemens)	S7-200系列 (S7-200 Series)	可定制 (Customizable)
触摸屏 (Touch screen)	西门子 (Siemens)	SMART 1000IE V3 (SMART 1000IE V3)	可定制 (Customizable)
电动机保护器 (Motor protector)	正泰 (Chint)	NS2系列 (NS2 Series)	可定制 (Customizable)
中间继电器 (Intermediate relay)	和泉 (IDEC)	RJ系列 (RJ Series)	可定制 (Customizable)
三相固态继电器 (Three phase solid state relay)	固特 (Gute)	SAM3E型 (SAM3E Type)	可定制 (Customizable)
变频器 (Frequency converter)	台达 (Delta)	MS系列 (MS Series)	可定制 (Customizable)
开关电源 (switch power supply)	名纬 (Mingwei)	NDR系列 (NDR Series)	可定制 (Customizable)
三相智能电流电压组合表 (Three phase smart current voltage combination meter)	仪欧 (Yige)	YG889U1-3X4 (YG889U1-3X4)	可定制 (Customizable)
保温材料 (Thermal insulation materials)	硅酸铝棉 (Aluminium silicate cotton)		
加热管 (Heating tube)	翅片式加热管 (Fin heating tube)		

FULL AUTOMATIC LAMINATED GLASS PRODUCTION LINE

全自动夹层玻璃生产线



- Fangding fully automated laminated glass production line can realize automatic loading, high - speed lamination, forced convection heating and roller pressing, automatic unloading and intelligent production of the whole line.



➤ 方鼎全自动夹层玻璃生产线，可实现全自动上片、快速合片、强制对流加热辊压、自动卸片整线智能化生产。

FULL AUTOMATIC LAMINATED GLASS PRODUCTION LINE

全自动夹层玻璃生产线

玻璃以水平方式经过全自动上片台、玻璃清洗干燥机、高精度定位输送机、双工位玻璃合片机、变频过渡输送机、红外预热预压机、翻转式下片台后，制成夹层玻璃半成品，再经过蒸压釜制成成品玻璃。

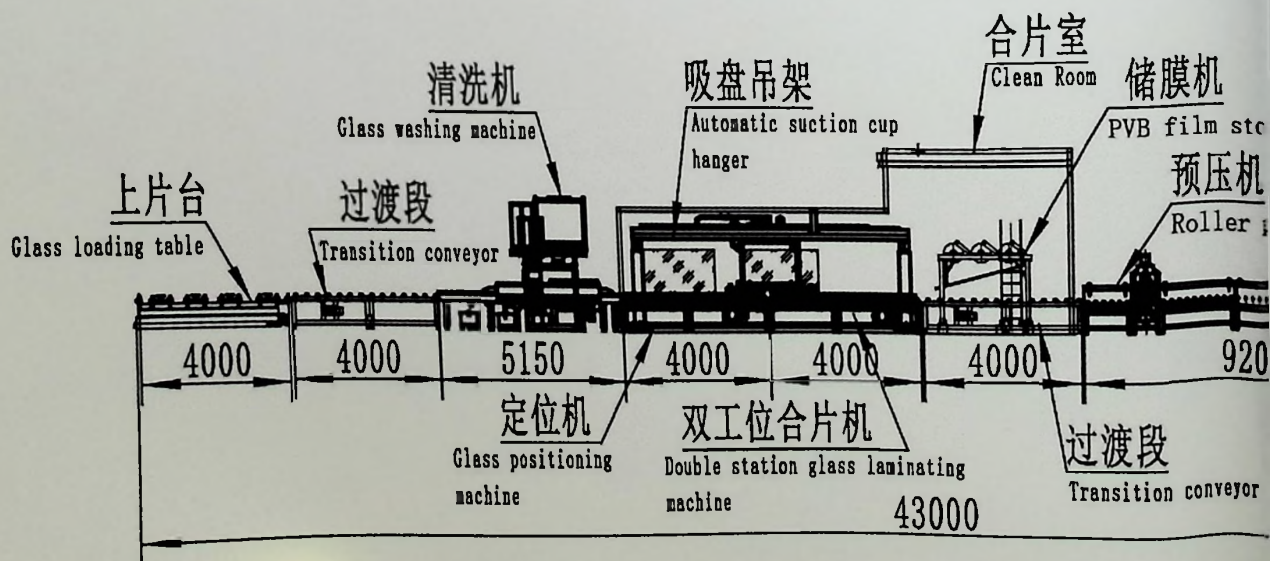
After passing by the automatic loading table, glass washing and drying machine, high-precision positioning conveyor, double-station glass combining machine, frequency conversion transition conveyor, infrared roller pressing machine, and flip-type unloading machine in a horizontal way, the glass is processed as semi-finished laminated glass, and then finished glass is processed by the autoclave.

> 组成

- 1、全自动上片台
- 2、多功能玻璃清洗干燥机
- 3、高精度玻璃定位输送机
- 4、双工位玻璃合片机
- 5、自动吸盘吊架
- 6、PVB 水平三滚筒储膜机
- 7、变频过渡输送机
- 8、夹层玻璃预压机
- 9、翻转式下片机
- 10、玻璃蒸压釜

> FORM

- 1.The automatic glass loading machine
- 2.The multifunctional glass washing & drying machine
- 3.The high precision glass positioning conveyor
- 4.The double station glass combining machine
- 5.The automatic movable suction cup hanger
- 6.The horizontal 3-roller film storage machine
- 7.The frequency conversion transition conveyor
- 8.The infrared roller pressing machine
- 9.The flip-type glass unloading machine
- 10.The glass autoclave

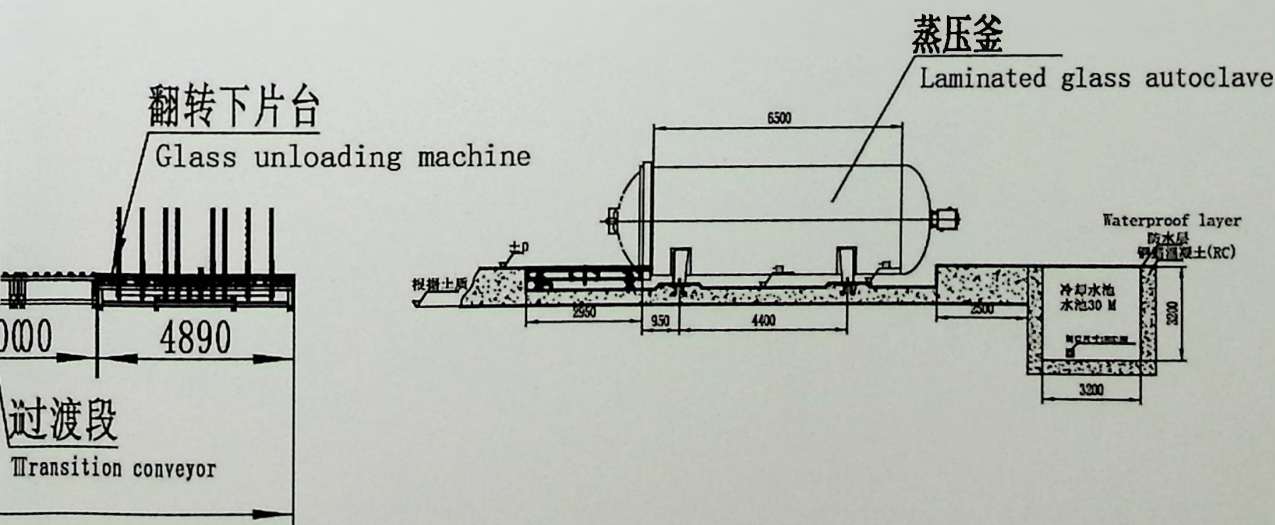
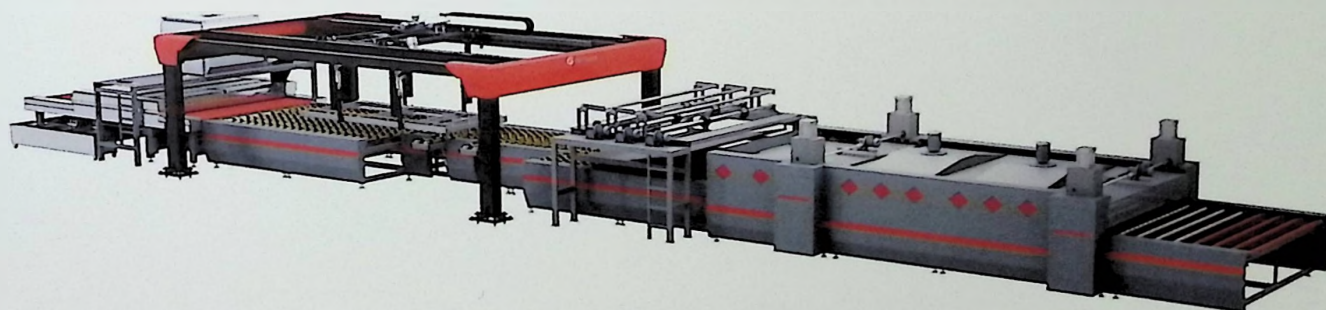


► 技术特点

► TECHNICAL FEATURES

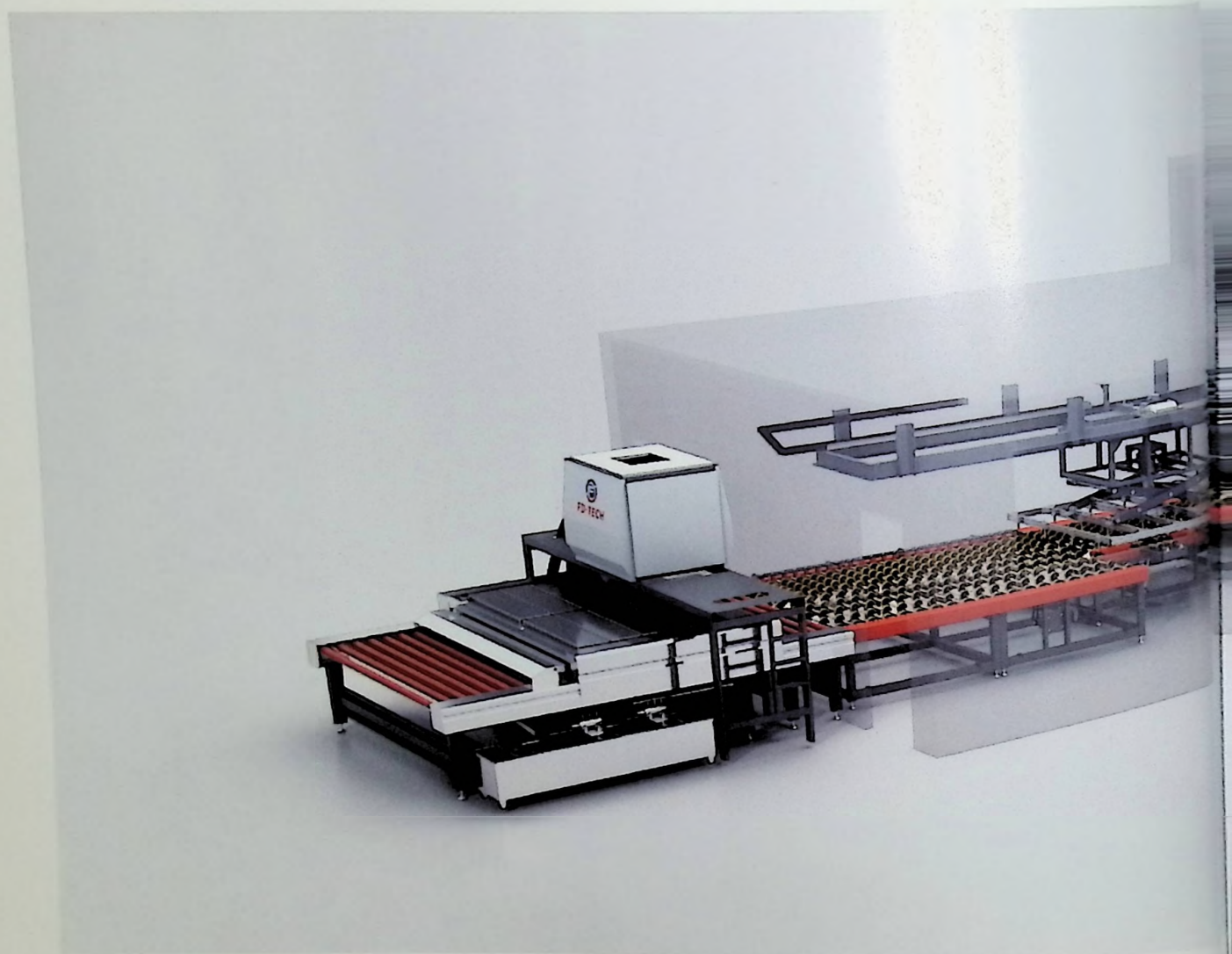
- 1、全线各段采用 PLC 集中控制，变频调速，三个 HMI 界面操作；
- 2、特殊用途段装有编码器和伺服电机，保证设备稳定和加工精度；
- 3、整线设计上考虑高效、节能、环保、噪音等特殊控制功能；
- 4、全线设备均实现通信功能，控制方便，操作简单。
- 5、整套设备采用西门子 PLC 集中控制，主要配置台达变频器、施耐德/正泰电器元件；
- 6、全套设备实现自动化操作，节省人力，安全可靠，高效节能。

- 1.All parts of the whole line adopt PLC centralized control system,frequency conversion,3 sets of HMI interface operation.
- 2.The special purpose part is equipped with encoder and servo motor to ensure stability and processing accuracy during production.
- 3.The whole production line is designed with high efficiency, energy saving, environmental protection, lower noise and other features.
- 4.Each part of the whole line can realize communication function with its neighboring parts,which is convenient to control and easy to operate.
- 5.The whole line adopts Siemens PLC centralized control system,main configurations are equipped with Delta Transducer and Schneider/Chint electrical components.
- 6.The whole line can realize automatic operation, labor-saving ,safe and reliable, high efficiency and low energy consumption.



INTELLIGENT LAMINATED GLASS PRODUCTION LINE

智能夹层玻璃生产线



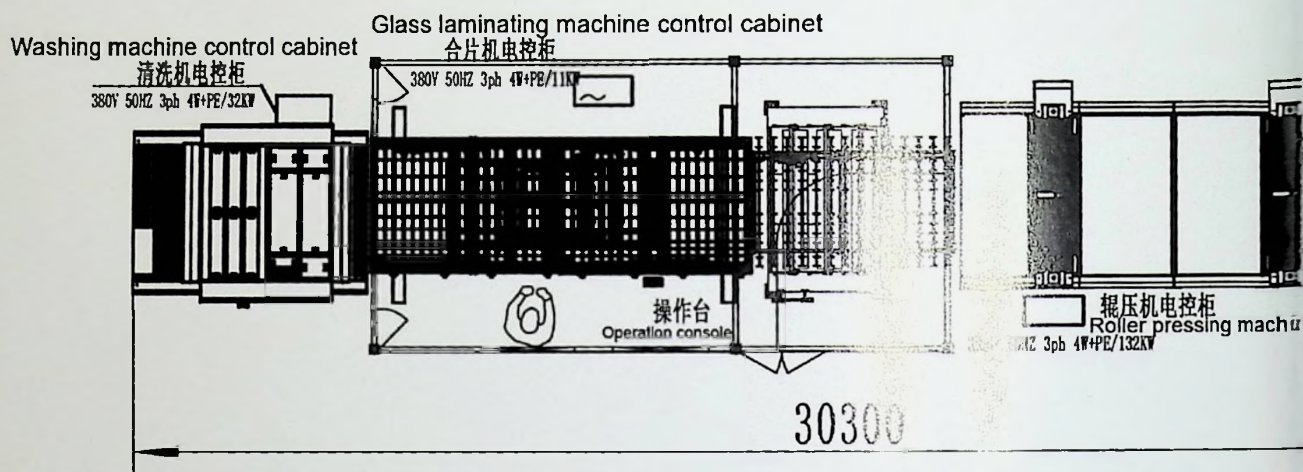
➤ 方鼎智能型夹层玻璃生产线，全线可人工手动或自动 PLC 集中控制，结构合理，操作便捷，整机运行平稳可靠。



- Fangding intelligent laminated glass production line can be manual control or automatic PLC centralized control. The whole equipment has reasonable structure, convenient operation and stable and reliable operation.

INTELLIGENT LAMINATED GLASS PRODUCTION LINE

智能夹层玻璃生产线

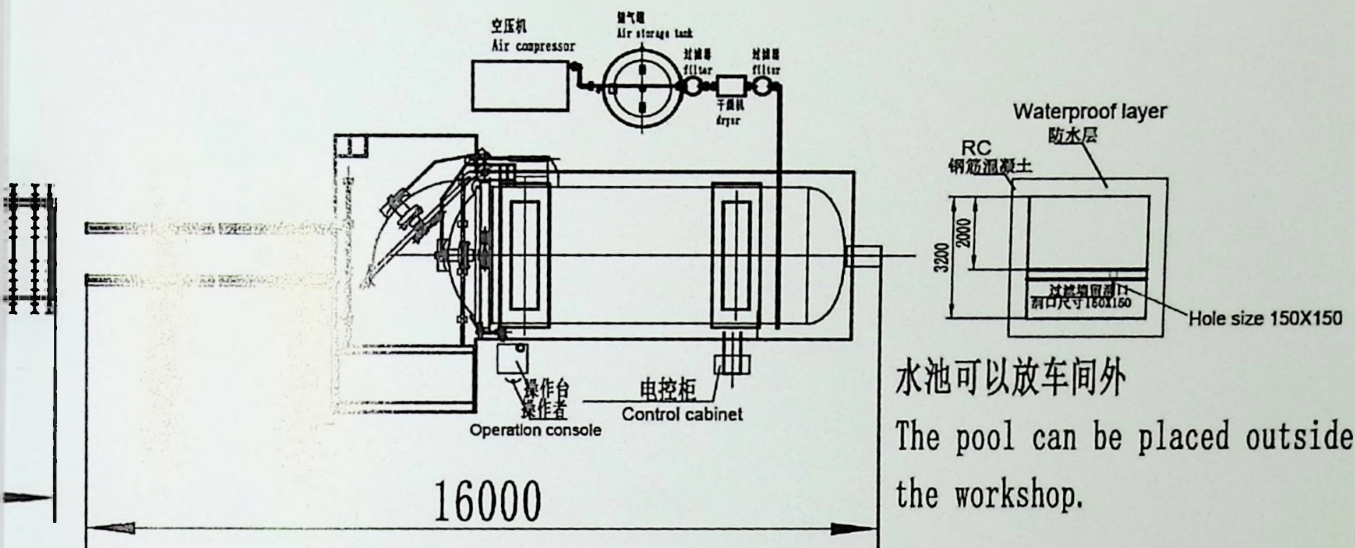


> 组成

- 1、玻璃清洗干燥机
- 2、玻璃预定位机或取片过渡机 (二选一)
- 3、双工位玻璃合片台
- 4、半自动吸盘吊架机
- 5、水平三滚筒 PVB 储膜机
- 6、过渡输送机
- 7、玻璃预压机
- 8、玻璃蒸压釜

> FORM

- 1.Glass washing & drying machine
- 2.Glass positioning conveyor or glass taking conveyor (Alternative)
- 3.Double station glass combining machine
- 4.Semi-automatic suction cup hanger
- 5.The horizontal 3-roller film storage machine
- 6.Transition conveyor
- 7.Roller pressing machine
- 8.Glass autoclave



► 设备技术特点

- 1、清洗机结构坚固，造型美观，采用节能设计，具有停机保护功能，独立供风系统使玻璃更加洁净；
- 2、玻璃输送定位机，定位速度快、精度高，适合大片玻璃生产；
- 3、双工位玻璃合片台，由前、后工位组成，方便合片和裁切胶片，可进行人工和自动合片；
- 4、吸盘吊架机吸盘采用特殊材料，保证玻璃表面不留痕迹，从而确保生产出高品质的产品；
- 5、水平三滚筒 PVB/SGP 储膜机，自动放膜、电动回卷，胶膜更换快速方便；
- 6、过渡输送机，为发挥本线最佳同步、均衡、快速生产而设计；
- 7、预压机结构合理，操作简单，加热分布均衡，整机运行平稳可靠。

► TECHNICAL CHARACTERISTICS OF EQUIPMENT

- 1.The washing machine has a solid structure, beautiful appearance, energy-saving design, equipped with shutdown protection function, and an independent wind-supply system to make the glass more cleaner;
- 2.Glass positioning conveyor, with fast positioning speed and high precision performance, suitable for the large pieces of glass production ;
- 3.Double-station glass combining machine, composed of front and rear stations, which is convenient for glass combination and film cutting, and can be operated by manually and automatically;
- 4.The suction cup of the hanger adopts special materials to ensure that no traces are left on the glass surface, so as to ensure the production of high-quality products;
- 5.The horizontal 3-roller PVB/SGP film storage machine is equipped with automatic film releasing and rolling up functions, and this design makes the film replacing work more faster and convenient;
- 6.The transition conveyor is designed with the best synchronous, smooth and fast production performance;
- 7.The structure of the roller pressing machine is reasonable, the operation is simple, the heating distribution is evenly, and the operation of the whole machine is stable and reliable.

GLASS WASHING & DRYING MACHINE

玻璃清洗干燥机



组成

1. 上片段
2. 清洗干燥段
3. 下片段
4. 独立供风系统
5. 清洗水循环系统

FORM

1. Glass loading section
2. Washing&Drying section
3. Glass unloading section
4. Independent air supply system
5. Water-cycling system



► 技术特点

- 1、外观造型简洁美观，结构坚固；
- 2、设备具有停机保护功能，节能省电；
- 3、独立供风系统，新增加热装置使玻璃清洗更加干净；
- 4、水箱外置，便于换水和清理淤垢；
- 5、可洗 Low-e 玻璃；
- 6、可选择单机使用或连线使用。

► TECHNICAL FEATURES

- 1.The appearance is simple and elegant , and the structure is solid and durable .
- 2.Equipped with shutdown protection function, which is energy saving .
- 3.The additional heating device of the independent air supply system makes glass cleaner.
- 4.The external water tank is convenient to change water and clean up dirt .
- 5.Low-e glass can be washed.
- 6.This machine can be used independently or connected with the production line.

产品应用 APPLICATIONS



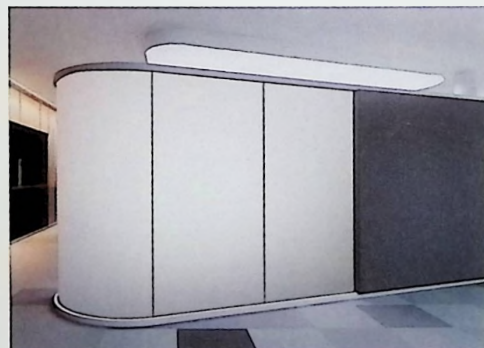
护栏玻璃
Guardrail glass



雨棚玻璃
Carport glass



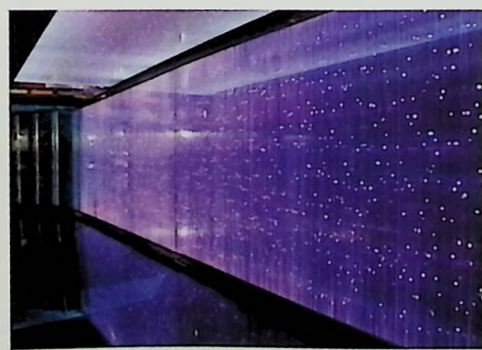
防弹玻璃
Bullet proof glass



调光玻璃
Switchable Glass



汽车玻璃
Auto glass



LED玻璃
LED glass



彩色玻璃

Color glass



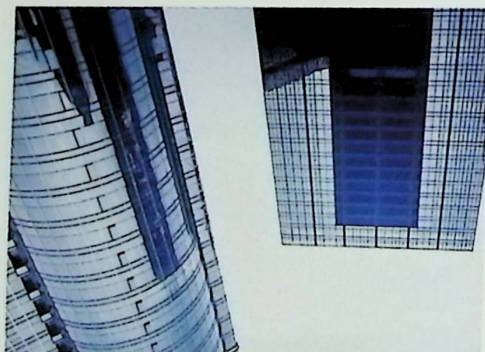
装甲防弹玻璃

Armored bulletproof glass



夹丝夹绢玻璃

Silk laminated glass



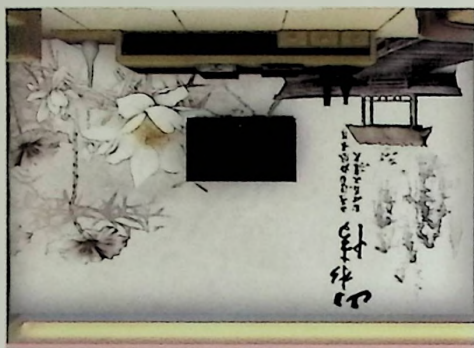
弯钢夹胶玻璃

Curved tempered glass



动车玻璃

CRH glass



山水画夹胶玻璃

Landscape painting laminated glass

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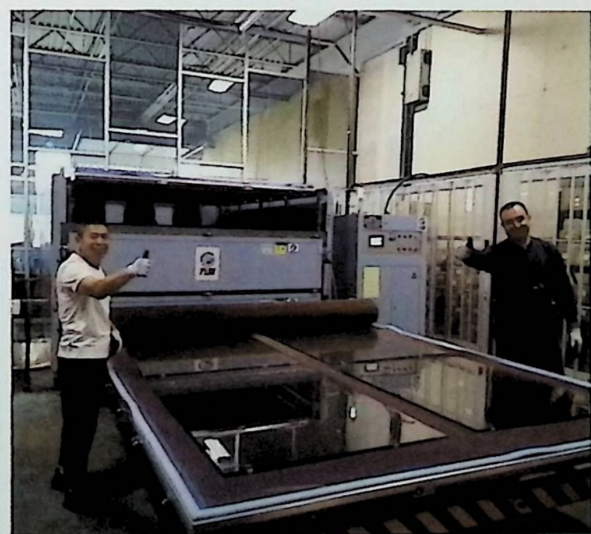




誠信為本

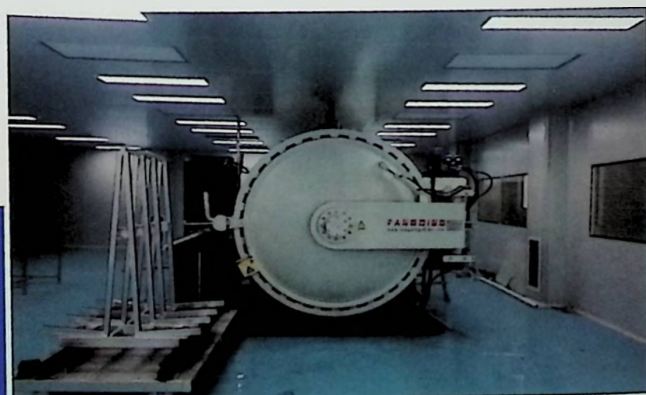
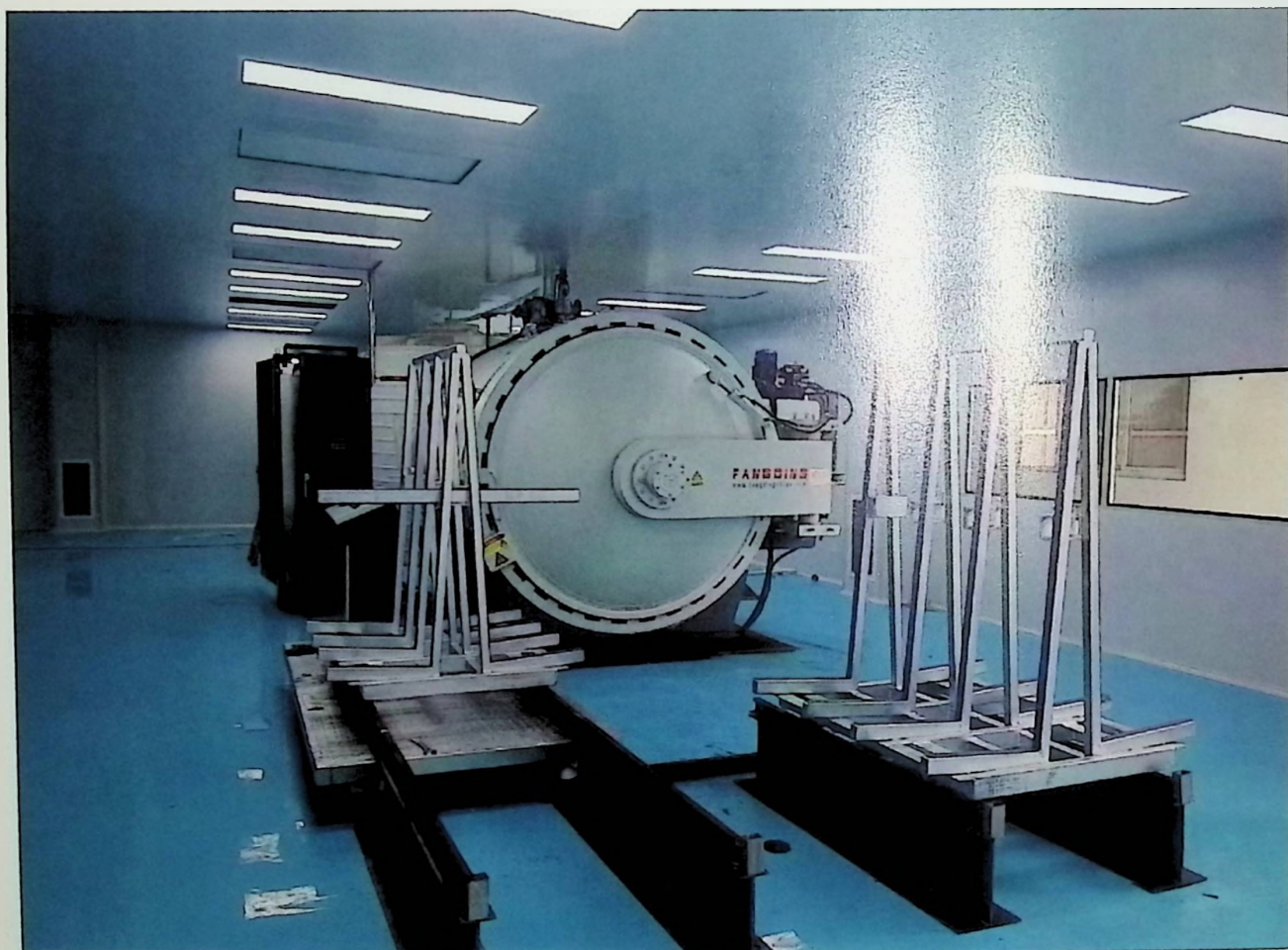
效率成就品牌 诚信铸就未来

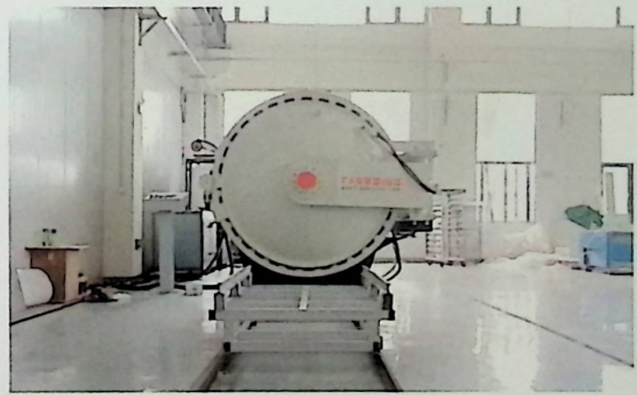
EFFICIENCY MAKES A BRAND INTEGRITY CASTS THE FUTURE



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FANGDING TECHNOLOGY DELIVERY SITE

方鼎科技发货现场



方鼎科技有限公司致力于为玻璃深加工企业提供全套的夹层玻璃解决方案，以研发为中心，以质量为根本，不断创新，精益求精，全新一代的夹胶炉及夹层玻璃生产线，性能优异，设计合理，深受广大用户的青睐。

Fangding Technology Co., Ltd. is committed to providing a complete set of laminated glass solutions for glass deep-processing enterprises, focusing on R&D, taking quality as the foundation, and keeping innovating and improving. With excellent performance and reasonable design, our new generation of EVA laminated glass machines and PVB laminated glass production lines enjoy great popularity all over the world.





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