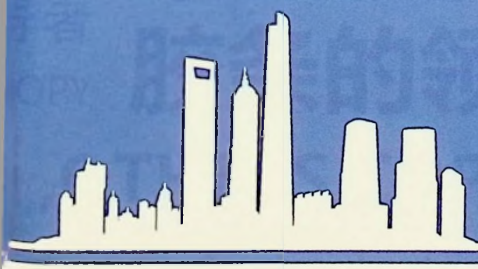
TRUSPACER
窗利来



TRUSPACER INSULATING GLASS SOLUTIONS

盘锦窗利来中空玻璃材料有限公司 PANJIN TRUSPACER INSULATING GLASS MATERIALS CO., LTD.

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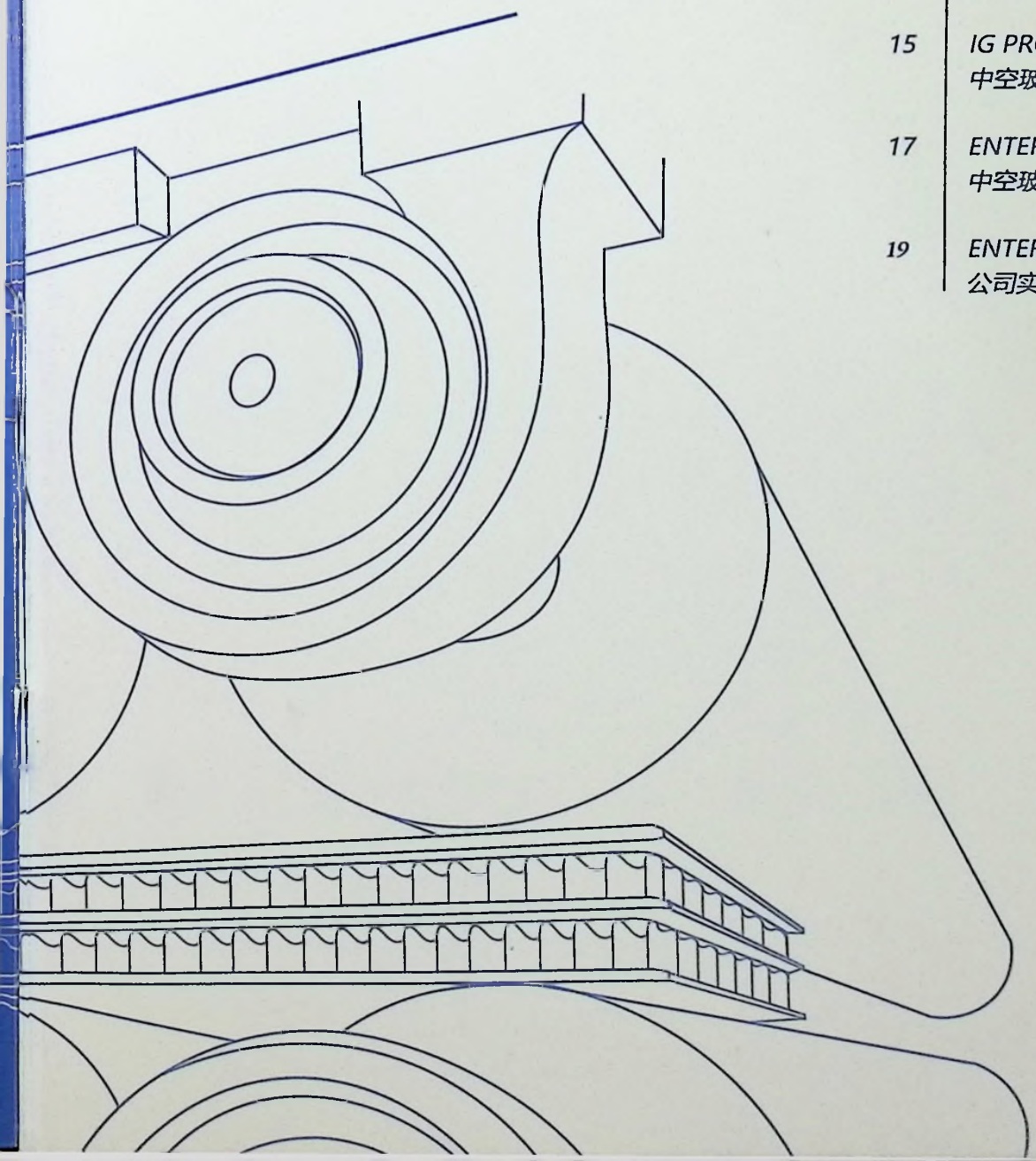
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25 years
specialized in IG warm edge technology
专注中空玻璃暖边技术25年







Brand Story

品牌故事

拼拇成就梦想，时间印证品质！

党忠民，窗利来公司创始人，国产中空玻璃胶条研发人。年少时党忠民的父母不幸病逝，早年的艰辛让他恒得唯有不断拼拇才能改变命运的道理，于是在1996年，有着国企工作的他毅然决然的承包了濒临破产的金宇门窗配件厂，正式走上了创业的道路。

一次机缘巧合中，他发现了一款进口的中空玻璃复合胶条，可以节省中空玻璃制作成本而且节能环保，但是价格昂贵且供货周期长，不服气的他，暗自决定要做出属于中国人自己的胶条。历经上百次的辛苦试验后产品终于研发成功，相比昂贵的进口胶条，这款国产胶条大幅地降低了中空玻璃生产企业的成本，提高了门窗的保温隔热性能，胶条投入市场后广受好评，成功引领了门窗用户的节能环保理念，这就是第一代窗利来复合胶条。

随着企业不断的成长，生产线也从建厂初期的一条增加到了三十条，现拥有专利十四项，持续更新的胶条产品先后通过了美国IGCC认证和欧洲认证。自从打入国际市场以来，产品已销往全球六十多个国家和地区，窗利来终于证明了“中国制造”一样可以成为世界一流产品！

Work hard to achieve dreams, time proves quality!

Dang Zhongmin, founder of Truspacer, researcher and developer of domestic IG spacers. Dang Zhongmin' s parents passed away unfortunately when he was young, the hardships of his early years taught him the truth that only constant struggle can change his destiny. So in 1996, he resolutely contracted the Jinyu Doors and Windows Fittings Factory, which was on the verge of bankruptcy, and he officially embarked on the road of entrepreneurship.

In a coincidence, he discovered an imported IG butyl sealant spacer, which can save the cost of IG production and is energy-saving and environmentally friendly. However, the price is expensive and the delivery time is long. Unconvinced, he secretly decided to make it belong to the Chinese own butyl sealant spacer. After hundreds of hard tests, the product was finally successfully developed. Compared with expensive imported butyl sealant spacer, this domestic butyl sealant spacer greatly reduces the cost of IG manufacturers and improves the thermal insulation performance of doors and windows. The butyl sealant spacer got widely praised after being into the market, it successfully led the concept of energy saving and environmental protection for door and window users. This is the first generation of Truspacer butyl sealant spacer.

With the continuous growth of the company, the number of production lines has increased from one at the beginning of the factory to 30, and now has 14 patents. The continuously updated butyl sealant spacer products have successively passed the US IGCC certification and the European certification. Since entering the international market, its products have been sold to more than 60 countries and regions around the world. Truspacer finally proved that "Made in China" can also become a world-class product!

窗利来®中空玻璃暖边胶条

Truspacer® Warm Edge Spacer For IG

简介 Introduction

窗利来®中空玻璃暖边胶条是一种新型暖边间隔系统，它预装了丁基密封胶、3A分子筛、波浪铝带、隔热条等，适合大批量生产双层和三层中空玻璃，替代传统中空玻璃生产模式，大幅提高生产效率。

Truspacer® is a warm edge spacer system ideal for high-volume production of double and triple pane insulating glass , it is preassembled with butyl sealant, 3A molecular sieve, undulating aluminum spacer bar and heat insulation strip and so on , it can replace the traditional IG production mode and greatly improve production efficiency.

特点 Features

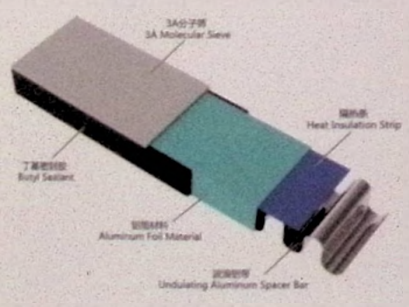
- 不需要二道密封胶。
- 密封性能好。
- -40℃不结露。
- 抗紫外线能力优异。
- 卓越的氩气保持性能。
- 可做异形玻璃。

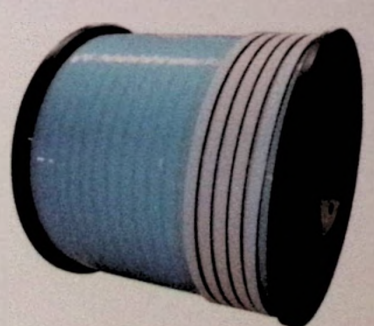
- No need the secondary seal.
- Good sealing performance.
- No dew at -40℃.
- UV resistance excellent.
- Excellent argon retention performance.
- It can be used for special-shaped glass.

应用 Application range

可用于门窗、汽车、火车、冷藏柜等中空玻璃的制作。

It can be used in the production of insulating glass for doors and windows, buses, trains, refrigerator, etc.





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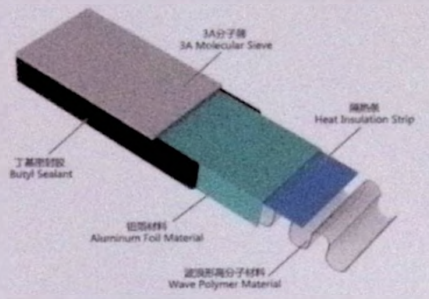
窗利来®全塑中空玻璃暖边胶条

Truspacer® Plastic Warm Edge Spacer For IG

简介 Introduction

这是一种不含金属的暖边间隔系统，它预装了丁基密封胶、3A分子筛、波浪形高分子材料、隔热条等，适合大批量生产双层和三层中空玻璃，保温隔热效果更显著。

It is a metal-free warm edge spacer system ideal for high-volume production of double and triple pane insulating glass , it is pre-assembled with butyl sealant, 3A molecular sieve, undulating polymer material and heat insulation strip and so on , more significant thermal insulation effect.





特点 Features

- 无金属导热，真正的暖边间隔系统。
- 不需要二道密封胶。
- -40℃不结露。
- 抗紫外线能力优异。
- 卓越的氩气保持性能。
- 超长的潮气传送通道。

- Real warm edge spacer, no metal.
- No need the secondary seal.
- No dew at -40℃.
- UV resistance excellent.
- Excellent argon retention performance.
- Long moisture transmission channel.

应用 Application range

可用于门窗、汽车、火车、冷藏柜等中空玻璃的制作。

It can be used in the production of insulating glass for doors and windows, buses, trains, refrigerator, etc.

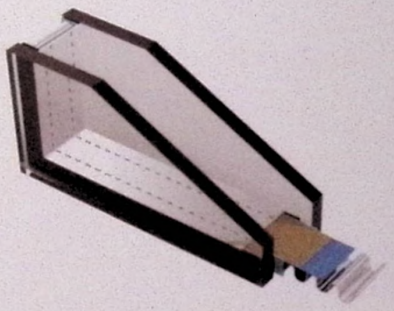
CLL®槽铝式中空玻璃胶条

CLL® Aluminum Compound Sealing Spacer For IG

简介 Introduction

CLL®槽铝胶条将铝带与胶条完美结合，外观达到槽铝式中空玻璃的标准，支撑力更强，耐老化性能显著提高。

CLL® perfectly combines aluminum strip and butyl spacer, the appearance meeting the requirements for aluminum frame type IG, the supporting force is stronger and the aging resistance performance is significantly improved.





特点 Features

- 铝带做表面，更美观，支撑力更强。
- 不需要二道密封胶。
- -40℃不结露。
- 耐老化能力强。
- 可做异形玻璃。
- 工艺简单，生产效率高。

- The spacer is more beautiful due to aluminum surface, the supporting force is stronger.
- No need the secondary seal.
- No dew at -40℃.
- UV resistance excellent.
- It can be used for special-shaped glass.
- Simple operation makes higher production efficiency.

应用 Application range

- 替代传统铝隔条制作中空玻璃。
- 胶条可独立密封，也可涂结构胶来增强其结构性（需做相容性试验）。
- Replace traditional aluminum spacers to make IG.
- The spacer can be sealed independently, or it can be coated with structural glue to enhance its structure (compatibility test is required).

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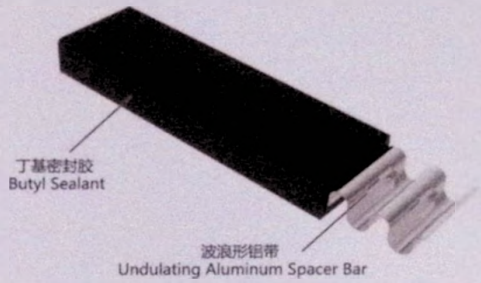
金宇®中空玻璃胶条

Jinyu® Compound Spacer For IG

简介 Introduction

该产品由丁基密封胶、高分子粘合剂、分子筛和波浪形铝带复合而成，具有优良的密封效果，超强的干燥能力和极低的水汽渗透率。

This product is made from high-quality butyl sealant, polymer adhesives, molecular sieve and continuous undulating aluminum spacer bar. The product has a good sealing effect, super drying ability and extremely low water vapor permeability.





特点 Features

- 不需要二道密封胶。
- 密封性能好。
- 抗结露性能优异。
- 耐老化能力强。
- 生产速度快，节约成本。
- 有效节省人工。

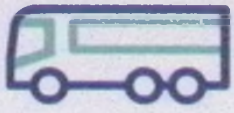
- No need the secondary seal.
- Good sealing performance.
- No dew at -40℃.
- UV resistance excellent.
- Fast production speed, cost saving.
- Effective labor saving.



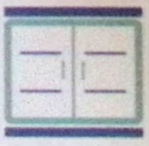
门 窗
Doors and windows



高铁窗户
High speed train windows



公交车窗户
Bus windows



冷藏柜
Refrigerator

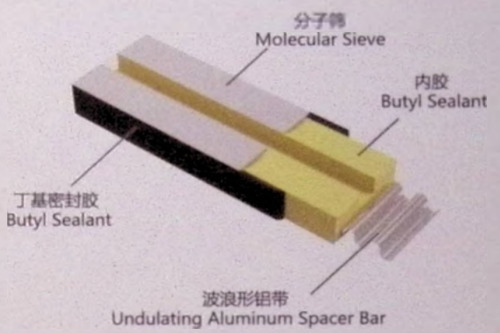
窗利来®中空玻璃镶嵌胶条

Truspacer® Decorative Glass Spacer

简介 Introduction

该产品由丁基密封胶、分子筛、内胶（骨架胶）三大功能区构成，并有波浪形铝带作支撑，产品结构设计独特而实用，生产操作简单，质量易于控制。

This product consists of three major functional elements, including the butyl sealant, molecular sieve and internal adhesive (skeleton adhesive), with the wavy aluminum strip as support, bringing a unique and practical structure design of the product. Its production and quality control proves to be easy, it is suitable for making decorative glass.





特点 Features

- 耐老化性能优异。
- 高分子粘合剂保证优良的密封性。
- -40℃不结露。
- 防错片性能优异。
- Excellent aging resistance performance.
- Polymer adhesive guarantees excellent sealing performance.
- No dew at -40℃.
- Excellent prevents misalignment performance.

应用 Application range

- 适用于制作中空镶嵌玻璃。
- 胶条可独立密封，也可涂结构胶来增强其结构性（需做相容性试验）。
- Suitable for making hollow decorative glass.
- The spacer can be sealed independently, or it can be coated with structural glue to enhance its structure (compatibility test is required).

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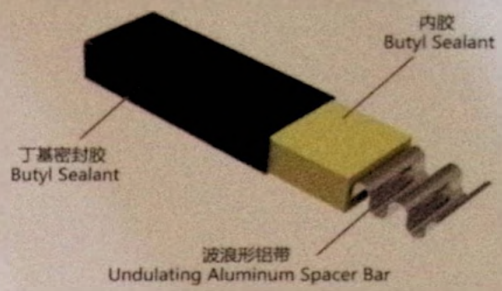
窗利来®防火玻璃胶条

Truspacer® Fireproof Glass Spacer

简介 Introduction

该产品主要由丁基密封胶和高分子粘合剂等材料制成，适用于灌注型防火玻璃的边部密封。

It is made of butyl sealant, polymer adhesive and so on, it suitable for the edge sealing of infused fireproof glass.



特点 Features

- 密封性能好。
- 支撑力强，确保防火玻璃尺寸精准。
- 不与防火液发生化学反应。
- 使用方便，更高效。

- Good sealing performance.
- Strong supporting force to ensure accurate glass assembly.
- No chemical reaction with fireproof liquid.
- Easy to use and more efficient.



应用 Application range

- 灌注型防火玻璃。
- 适用于碱性或酸性防火液。

- Infused fireproof glass.
- Suitable for alkaline or acid fireproof liquid.

产品参数 Product parameters

产品规格 Product specifications	颜色 Color	内部包装 Inner packing	包装方式 Packing method
1-20mm（可定制） Customizable	黑 Black	小盘 5m/Roll	纸箱 Carton packing

窗利多®中空玻璃复合间隔条

Truleader® Insulating Glass Compound Spacer



该产品是由丁基密封胶和高强铝条经过特殊工艺复合而成，结构性更强，操作简单，简化中空玻璃制作的繁琐工序，世界首创技术，是一种全新的中空玻璃制作方式。

This product is compounded by butyl sealant and aluminum spacer through a special process, with stronger structure, it is easy to operate and it greatly simplifies the tedious processes of IG production, the world's first technology, it is a new way of making IG.

特点 Features

- 生产效率是铝条工艺的2倍。
- 不需要二道密封胶。
- 减少80%机械投入。
- 无需固化时间。
- 自带丁基密封胶。

- The production efficiency is twice that of the aluminum bar process.
- No need secondary seal.
- Reducing the investment of machinery by 80%.
- No curing time.
- Self-contained butyl sealant.

应用 Application range

隔条可独立密封，也可涂结构胶来增强其结构性（需做相容性试验）。

The spacer can be sealed independently, or it can be coated with structural glue to enhance its structure (compatibility test is required).

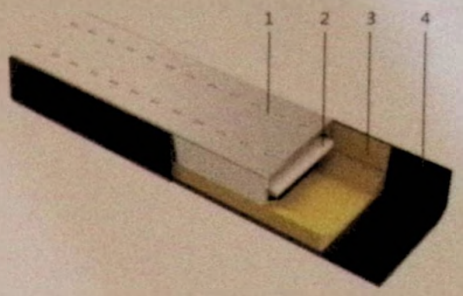
产品参数 Product parameters

产品规格 Product specifications	可选颜色 Color	内部包装 Inner packing	包装方式 Packing method
6-27mm（可定制） Customizable	银色/黑色 Silver/Black	5米/根 5m/pc	纸箱 Carton packing

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产品结构 Product structure

1. 高频焊铝条 High frequency welding aluminum bar
2. 3A分子筛条（选配） 3A molecular sieve strip (Optional)
3. 内胶 Inner rubber
4. 丁基密封胶 Butyl sealant



制作工序 Production process

- 清洗玻璃
- 窗利多隔条制框
- 中空玻璃合片
- 中空玻璃热压

- Cleaning glass
- Frame the Truleader spacer
- Assembly the glass and spacer
- Hot-pressed the IG











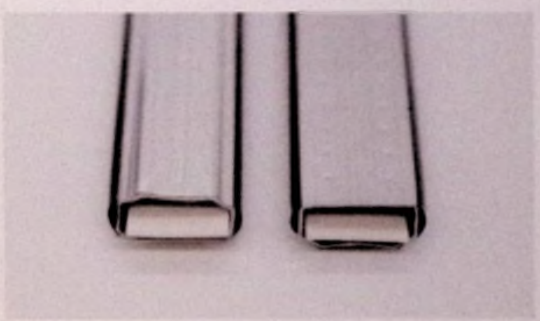
窗利来®涂胶铝隔条

Truspacer® Butyl Coated Aluminum Spacer

简介 Introduction

该产品由高频焊铝条两侧均匀涂布丁基密封胶复合而成，可改善中空玻璃压合后丁基密封胶外溢的情况，提高了中空玻璃成品的美观度。

This product is composed of high frequency welding aluminum spacer evenly coated with butyl sealant on both sides, which can improve the overflow of butyl sealant after the IG is pressed, and improve the aesthetics of the finished insulating glass.



特点 Features

- 省掉了涂布机，节省了设备、人工和时间成本。
- 可直接用折弯机折弯，改变传统工艺。
- 如选用自带分子筛款，还可省去灌装分子筛的工序和设备。
- No coating machine is needed, saving equipment, labor and time costs.
- It can be directly bent with a bending machine, which changes the traditional process.
- If you choose the self-contained molecular sieve one, the process and equipment of filling molecular sieve can be omitted.

产品参数 Product parameters

材质 Material	长度 Length	内部包装 Inner packing	包装方式 Packing method
铝+丁基密封胶 Aluminum+Butyl sealant	5米/根 5m/pc	单根隔离膜包装 Single isolation film package	纸箱 Carton packing

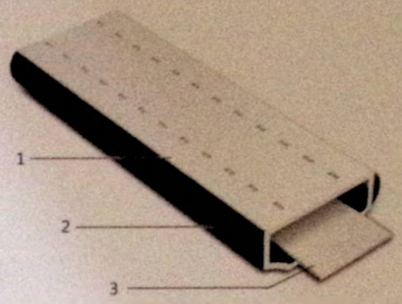
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产品结构 Product structure

1. 高频焊铝条　High frequency welding aluminum spacer

2. 丁基密封胶　Butyl sealant

3. 3A分子筛条（选配）　3A molecular sieve strip(Optional)



制作工序 Production process

- 清洗玻璃
- 窗利来涂胶铝隔条制框
- 中空玻璃合片
- 中空玻璃压合
- 打二道密封胶

- Cleaning glass
- Frame the spacer bar
- Assembling the glass and spacer
- Pressing the IG unit
- Apply secondary seal

应用 Application range

省去丁基密封胶涂布过程，减化生产工艺，提高生产效率。

The coating process of butyl sealant is omitted, the production process is reduced and the production efficiency is improved.

窗利来®中空玻璃用长条3A分子筛

Truspacer® Long-striped 3A Molecular Sieve for IG

简介 Introduction



该产品由3A分子筛原粉和高分子材料制成，可完美代替传统颗粒分子筛。

The product is made of 3A molecular sieve raw powder and polymer materials, which can perfectly replace traditional particle molecular sieve.

特点 Features

- 灌装简单，效率是传统颗粒分子筛的7倍。
- 无需机器。
- 有效吸潮时间可长达168个小时。
- 小包装，使用方便。

- The filling is simple and the efficiency is 7 times that of the traditional particle molecular sieve.
- No machine required.
- Effective moisture absorption time can be up to 168 hours.
- Small package, easy to apply.

应用 Application range

代替颗粒分子筛，吸收中空玻璃腔体内的水汽。

Instead of particle molecular sieves, it absorbs moisture in the insulating glass space layer.

产品参数 Product parameters

	3A分子筛条 striped 3Amolecular sieve	3A分子筛（颗粒） 3A molecular sieve (particles)
设　备 Equipment	无需设备 手工灌装 No equipment required	分子筛灌装机 Need equipment
静态水吸附 Static adsorbed water	≥16.3％	≥20％
露点 Dew point	≤-60℃	≤-60℃
包装含水量 Moisture content in packaging	≤1	≤1.5
灌装速度（200g） Manual filling speed (200g)	10s	72s

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Patented products, counterfeiting not allowed!

窗利来®中空玻璃热熔丁基胶

Truspacer® Hot Melt Butyl Sealant For IG

简介 Introduction



该产品是一款中空玻璃用第一道密封胶，对玻璃、铝和不锈钢等有超强的粘接能力，并且具有较好的气密性与良好的抗紫外线能力，可与硅酮胶、聚硫胶等构成一个优异的抗湿气系统。

This product is the first sealant for IG, it has super adhesion to glass, aluminum and stainless steel, and has good air tightness and strong UV resistance. It can be combined with silicone rubber, polysulfide rubber, etc. constitute an excellent anti-moisture system.

应用 Application range

- 槽铝式双道密封中空玻璃第一道密封。
- Used in the first sealing process in the manufacture of dual-sealed insulated glass.

包 装 Package

- 桶装直径160mm/180mm，重量5kg/7kg。
- Barreled diameter 160/180 mm, weight 5/7 kg.

特点 Features

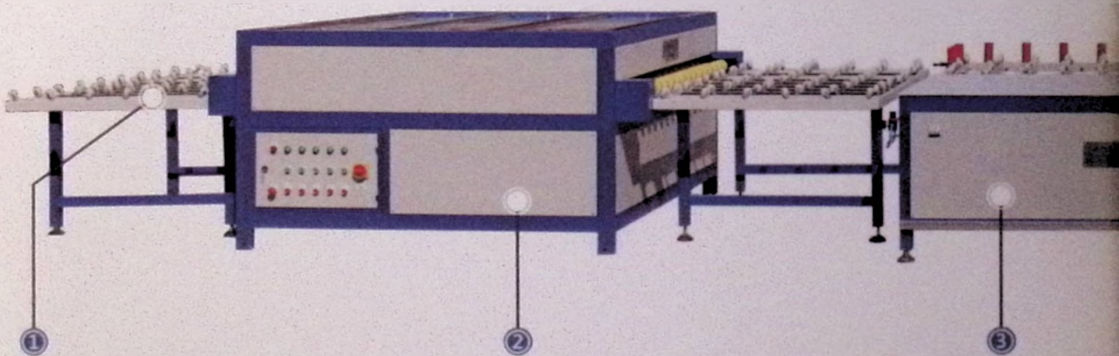
- 抗紫外线能力优异。
- 100℃不流淌，-40℃不硬化、不开裂。
- 水汽阻隔效果好。
- UV resistance excellent.
- It will not melt under 100℃, not harden nor cracks under -40℃.
- The water vapor barrier effect is good.

使用方法 Usage

- 将热熔丁基胶放入挤出机胶仓内加热到110℃-120℃，温控器保持恒温后，开始挤出丁基胶，当其均匀不断线时，将丁基胶涂抹到铝隔条两侧，稍放凉后，与干净的玻璃压合成中空玻璃半成品，待涂完二道密封胶并固化后即为中空玻璃成品。
- 当与其他胶接触前，必须先作相容性试验。
- Put the hot melt butyl sealant into the extruder cylinder and heat to 110℃-120℃, after temperature maintaining stability inthermostat, apply the butyl sealant onto the rabbet of the aluminum spacer when the extruding butyl sealant is evenly distributed without breaking, cool it down and compress with the clean glass to make semi-finished insulated glass, after apply the butyl sealant onto the outer trackand become solid, the insulated glass is finally output.
- Before making the dual-sealed insulated glass, the related compatibility experiment to double sealant is necessary.

CLLQT-1600/1800窗利来®卧式中空玻璃生产线

CLLQT-1600/1800 Truspacer® Horizontal Insulating Glass Production Line



① 玻璃输送台
Glass guide platform

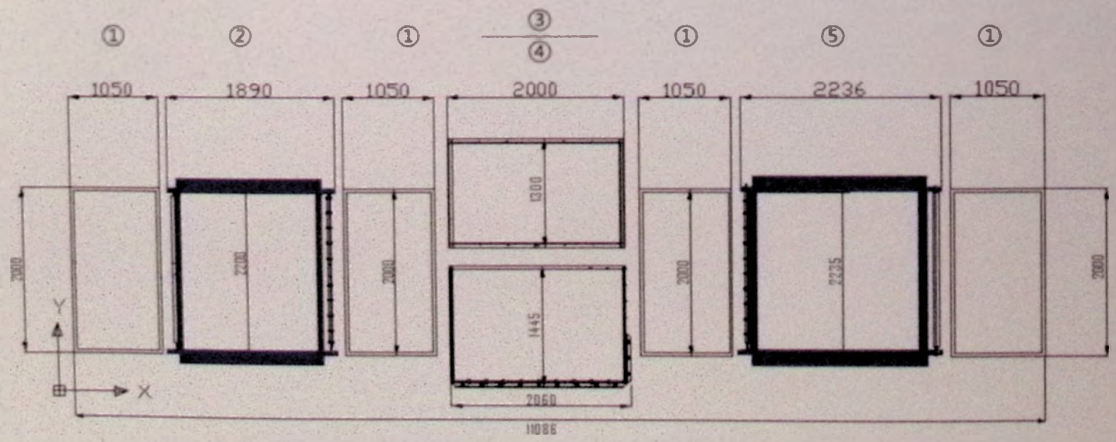
② 玻璃清洗干燥机
Glass washing and drying machine

③ 气浮台
Air-floating station

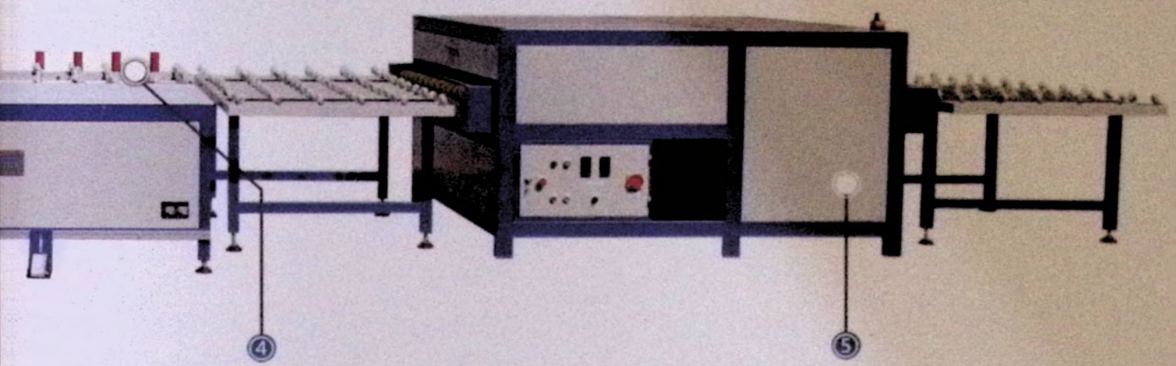
简介 Introduction

CLLQT-1600/1800窗利来®卧式中空玻璃生产线是由我公司独立研发，生产，用于制作中空玻璃的现代化生产线。本生产线采用水平卧式结构，具有传送平稳、占地面积小、耗电量低、所需操作人员少、生产效率高、质量稳定等优点，是生产复合胶条式中空玻璃的必备设备。

CLLQT-1600/1800 Truspacer® horizontal insulating glass production line is independently developed and manufactured by our company , it is a modern production line that is used to make IG. This machine adopts horizontal structure, transfer smoothly, small footprint, low power consumption, fewer people to operate, high production efficiency, stable quality, saving cost, which makes it is a necessary machine to make compound sealing spacer IG.



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④ 翻转合片台
Glass rolling over table

⑤ 中空玻璃热压机
Glass hot presser

特点 Features

- 操作简单，生产效率高。
- 占地面积小，节约空间。
- 玻璃传送平稳。

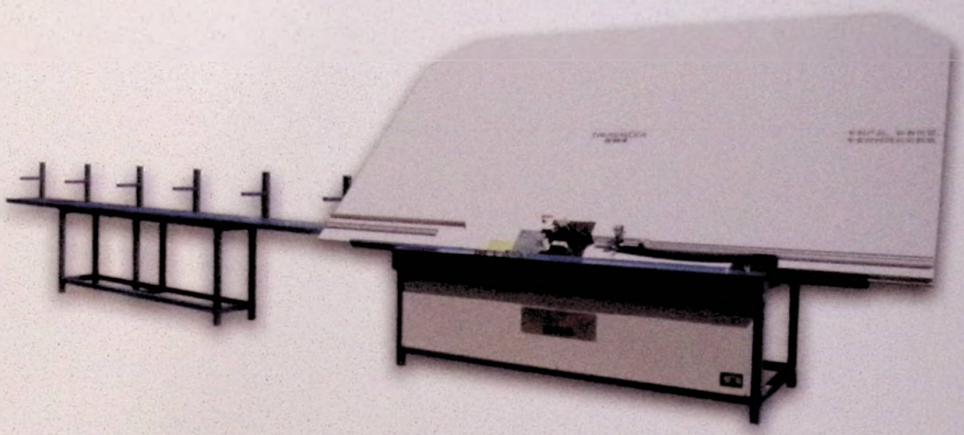
- This production line is easy to operate and efficient.
- Small footprint, saving space.
- It can transport glass stably.

产品参数 Product parameters

型号 Model	电源 Power	玻璃最大宽度（mm） Max glass width	玻璃最小宽度（mm） Min glass width	总功率（Kw） Total	气源压力（Mpa） Source pressure
CLLQT-1600	380V 50HZ	≤1600	400	28.5	0.6
CLLQT-1800	380V 50HZ	≤1800	400	32	0.6

窗利来®卧式手动折弯机

Truspacer® Horizontal Manual Bending Machine



简介 Introduction

卧式手动折弯机是用于制作窗利多复合间隔条中空玻璃的专用设备，此设备可将窗利多复合间隔条制作成多种尺寸的矩形框，制框后可以角部封口也可边部封口。该设备具备定尺切割功能，操作简单，安全稳定。

Truspacer® horizontal manual bending machine is a special equipment used to make Truleader composite spacer IG. This equipment can make Truleader composite spacer into rectangular frames of various sizes. After the frame is made, it can be sealed at the corners or at the edges. The equipment has the function of cutting to length, simple operation, safe and stable.

特点 Features

- 隔条6-27mm多规格，多尺寸适配。
- 设有直插与角插两组折弯模式选择。
- 支持直插接料连续使用，材料不浪费。
- 德国西门子PLC控制系统。
- 高精度光电传感器，具备空机保护功能。

- Spacer size from 6to27mm，multi-specification, multi-size adaptation.
- There are two sets of bending modes，edge or corner connection.
- Support continuous bending when using the connector, no waste of materials.
- Germany Siemens PLC control system.
- High-precision photoelectric sensor, with empty machine protection function.

Patented products, counterfeiting not allowed!

窗利来®分子筛灌装机

Truspacer® Molecular Sieve Filling Machine

简介 Introduction

分子筛灌装机主要用于窗利多复合间隔条制作的角部封口矩形框的分子筛灌装工作。

Molecular sieve filling machine is mainly used for molecular sieve filling of Truleader compound spacers frame that corner sealing.



特点 Features

- 料筒采用透明亚克力管，分子筛状态清晰可见。
- 出料口可以左右40度旋转，并由弹簧柱塞定位，方便灌装大尺寸隔条框架。
- 每个出料口的通断都由单独的时间继电器控制，通过时间值控制灌装量。

- The barrel is transparent acrylic, the state of the molecular sieve is clearly visible.
- The discharge port can be rotated 40 degrees left and right, and is positioned by a spring plunger, which is convenient for filling a large size spacer frame.
- The on-off of each discharge port is controlled by a separate time relay, and the filling volume is controlled by the time value.

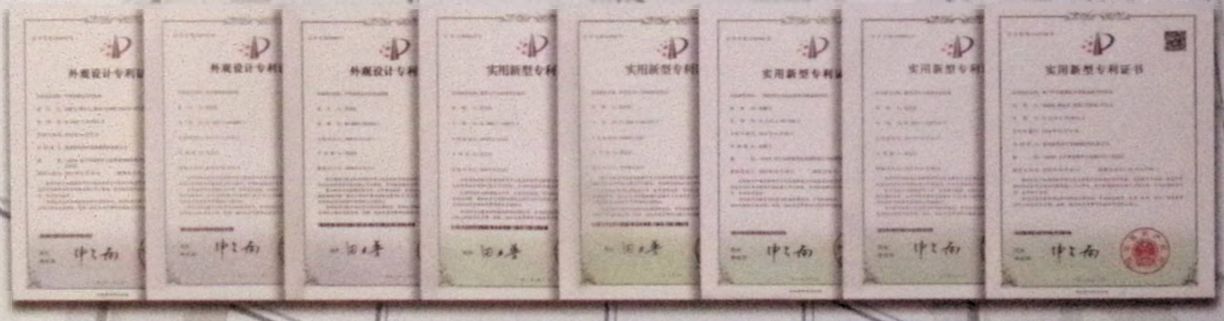
产品参数 Product parameters

- 适用分子筛直径 Diameter of molecular sieve：0.5mm
- 尺寸规格 Size：400×360×2300mm
- 电压 Voltage：220v
- 隔条尺寸支持 Spacer size range：6-27mm
- 气压 Air pressure：0.6Pa
- 功率 Power：50w

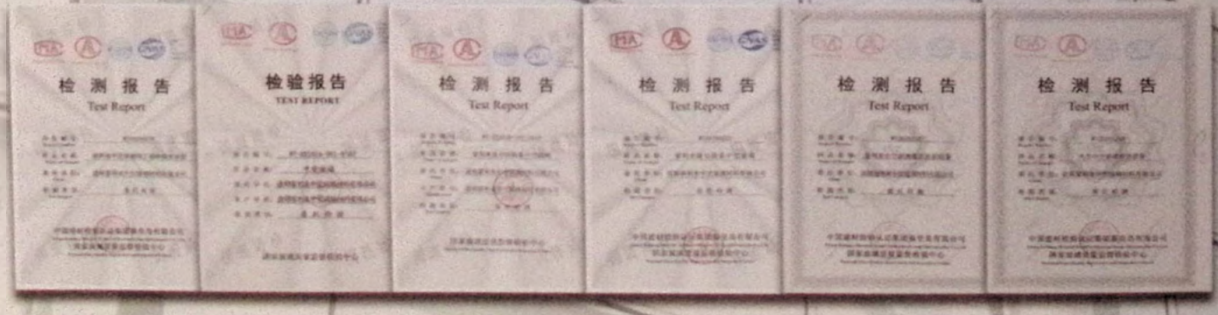
Enterprise Strength
公司实力



国际认证（ 美国IGCC / ISO9001 / 欧洲EN1279 / 俄罗斯GOST / 韩国KTR / CE认证）



专利证书 Patent certificate



国家检测 National testing

技术 TECHNOLOGY

富利来拥有一支优秀的研发团队，将用户的需求变为可能，持续创新，让中空玻璃制作更简单。

Truspacer has an excellent R&D team, which makes possible the needs of users, continues to innovate, and makes the production of insulating glass easier.



检测 TESTS

富利来具备中空玻璃国家检测的自检能力，产品先后通过了国内外多项权威认证和测试。

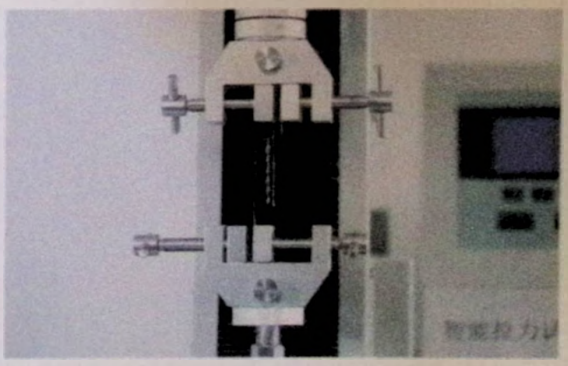
Truspacer has the self-inspection capability of the national inspection of insulating glass, and our products have passed many authoritative certifications and tests at home and abroad.



质量 QUALITY

富利来出口全球六十多个国家和地区，产品质量得到了国内外客户的一致认可和好评。

Truspacer products are exported to more than 60 countries and regions around the world, and the product quality has been unanimously recognized and praised by customers at home and abroad.



服务 SERVICE

富利来专业严谨的技术团队，不断完善的服务体系，为您的产品品质保驾护航。

Truspacer's professional and rigorous technical team and continuous improvement of the service system guarantee the quality of your products.



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