

**LandGlass**

For your next leap

# Communi Cation 沟通

APRIL  
2018



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砥砺前行  
Forge ahead in 2018

邀您一同重走陆上丝绸之路  
Re-Walk with us on the  
Land-based Silk Road

如果有了兰迪V玻,无人便利店还会关门吗?  
If LandVac had been used, would the unmanned store  
still have to be shut down?

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# 砥砺 2018

律回春晖渐，万象始更新！2018年2月10日，兰迪机器(LandGlass)举行了主题为“砥砺2018”的年度总结表彰大会暨迎新联欢会，兰迪机器董事长兼总经理赵雁向与会的全体员工及众多合作伙伴发表了激情澎湃的新年贺词，以下是赵总新年贺词节选：

**回顾过去的2017年，是曲折坎坷的一年！** 外汇汇率降低，人民币不断升值，国家供给侧改革进一步深化，新一轮环保“风暴”持续来袭，都使得我国装备制造业持续呈现出低位徘徊的趋势。尤其是玻璃深加工行业，可谓是迎来了最为艰难的一年，下游的多数玻璃加工企业都面临着巨大的挑战。在这样的经济环境下，我们也受到了不小的影响。与此同时，市场需求却越来越趋向于个性化、定制化，设计、生产、安装难度不断加大；竞争对手与我们之间的差距也在不断缩小，这都使得我们感受到了前所未有的压力。

**回顾过去的2017年，又是不甘平凡的一年！** 在这一年，我们的钢化设备在欧洲市场的销售取得了前所未有的成绩，兰迪的品牌在制造业强盛的欧洲得到了广泛的认可；在这一年，我们国内市场的销售额不断攀升，国内销售团队也更具战斗力与凝聚力；在这一年，我们的设备工艺取得了长足的进步，攻克了2.5毫米侧窗玻璃的工艺难题，又一次走在了行业的前列；在这一年，我们坚持的每周联席会议，成功的解决了存在了多年的设计、制造、安装、售后之间的衔接问题；在这一年，我们成功的迈出了第一步，运用模块化、数字化、自动化、智能化的方式，将智慧工厂由理念，逐步变成现实；在这一年，我们的真空玻璃无铅焊接技术更趋稳定，小批量订单不断，同时，还顺利获得了ISO与某知名家电玻璃制造商的认证，被动房的认证也指日可待；在这一年，我们加深与国内外知识产权专业机构合作，优化公司知识产权布局，着力提高专利质量，进一步完善公司覆盖研发、生产、调试全流程的知识产权管理体系。这些成绩的取得，离不开在座诸位的智慧和努力，更值得我们每一个兰迪人为之自豪！

**展望已经到来的2018年，是充满挑战的一年！** 工业4.0、物联网、云计算、共享经济、人工智能，未来已来。制造业是技术的应用载体，新一代信息技术与制造业的结合，将驱动智能制造装备、工业控制系统等领域的飞速发展，创新之势，如雨后春笋般



萌发，以数字化、智能化为方向的变革正在展开。未来制造业的发展方向，是智能制造、绿色制造、国家品牌制造；发展关键，是提升生产效率和效益，拥有具有国际影响力的先进制造技术和品牌产品。2018年，面对这样的新时代、新机遇、新挑战，我们如履薄冰。

**展望已经到来的2018年，更是希望无限的一年！** 未来一年，我们将继续加大对太阳能钢化玻璃设备的研发投入，努力成为这个领域的领航者；未来一年，我们将继续深化对汽车侧窗2.5mm玻璃钢化设备的技术革新，努力成为行业的灯塔；未来一年，我们将迈开更大的步伐，将兰迪智能工厂项目，做成行业的标杆；未来一年，我们将持续不断的对真空玻璃生产工艺与装备进行优化与改进，让我们的真空玻璃制造在实现产业化的同时，也成为工业4.0的典范；未来一年，我们也将加大对企业软实力——“管理”的关注，提升管理水平，强化管理创新，开启流程再造，夯实发展基础，为企业积累新动能，焕发新活力，实现新跨越，提供有力保障。我相信，伴随着真空产业与钢化设备产业两大模块的发展，未来一年兰迪将取得更大的成绩，我们在座的每一个兰迪人，都将分享到企业发展，为我们所带来的效益与成长！

**旧岁已展千重锦，新年再进百尺杆！** 已经迎来的2018年，将是“中国制造”迈向新时代的重要一年，相信，不甘平凡的我们，必将以此，作为新的契机、新的起点，不忘初心，不断前行，书写兰迪机器2018的精彩故事！

## Forge ahead in 2018

With the coming of spring, everything takes on a new look! On February 10, 2018, LandGlass held its New Year Party under the theme of "Forge Ahead in 2018". Mr. Zhao Yan, the Chairman and General Manager of LandGlass delivered a passionate New Year speech to all company staff and many partners who attended the meeting. The following are excerpts from Mr. Zhao's New Year speech:

**Looking back, 2017 was a year full of obstacles!** Factors such as decreased foreign exchange rate, appreciation of RMB, the further deepening of national supply-side reform, and a new wave of environmental protection movement, all contributed to the sluggish market for domestic equipment manufacturing industries. It has been an especially difficult year for glass processing industry with most of downstream enterprises facing tremendous challenges. In such an economic environment, we also suffered from significant impact. Meanwhile, the market trend demands more personalized and customized solutions which significantly raise the complexity of design, production, and installation. Competitors are continuously striving to close the gap with us.

**Looking back, 2017 was also an extraordinary year!** In this year, our sales of glass tempering equipment in European market achieved unprecedented results. LandGlass is now a widely recognized brand in this market well known for its strong manufacturing capabilities. In this year, our sales in the domestic market continued rising with extended efforts of our domestic sales team. In this year, we made breakthrough in making the 2.5 mm thick side window, standing again at the forefront of the industry. In this year, through weekly coordination meetings, we successfully solved the integration issues existing for years between design, manufacturing, installation, and after sales. In this year, we took the first step to make the concept of smart factory into reality by incorporating modular, digital, automated, and intelligent measures in our products. In this year, our lead-free soldering technology for LandVac tempered vacuum insulated glass became more mature and continuously received small orders. It has received both ISO certification and certification from some famous household appliances glass supplier. The certification for passive building is also just around the corner. In this year, through deepening cooperation with domestic and international intellectual property organizations, and optimizing the company's IP portfolio, we focused on enhancing our IP quality and management system covering the entire process including R&D, manufacturing, and commissioning. We cannot achieve these goals without your wisdom and efforts. We, LandGlass people, should all be proud of ourselves!

**Looking forward, 2018 will be a year for more challenges!** Industry 4.0, IoT, cloud computing, sharing economy, and AI, the future is

now. As the carrier for technology applications, the integration of new generation IT and manufacturing industry will lead to the rapid development of smart manufacturing and control systems. The industry is unfolding a new era and transforming itself through digital and intelligent innovations. The future of the manufacturing industry is steered towards intelligent manufacturing, green manufacturing, and manufacturing under national brands. The key to success is to develop advanced manufacturing technology and strong product brands with international recognition while continuously improving productivity and efficiency. In 2018, facing new challenges and opportunities, we shall always stay alert and work smart.

**Looking forward, 2018 will be a year for us to seize more opportunities!** In the upcoming year, we will keep strengthening our investments in R&D of glass tempering equipment for solar glass and strive to be the industrial leader in this area. In the upcoming year, we will continue deepening innovation in glass tempering for 2.5 mm thick automotive side window and set the yardstick for the industry. In the upcoming year, we will take large steps and make LandGlass Smart Factory project the benchmark in the industry. In the upcoming year, we will continue to optimize and improve the process and equipment for vacuum insulated glass manufacturing, making the project an example of modern industry 4.0 while commercializing the product. In the upcoming year, we will stay focused on enhancing the company's soft power — "management". By improving our management skills, beefing up management innovations, re-engineering the existing process, and tamping the foundation of development, our company will revitalize itself to safeguard our endeavor for more achievements. I am confident that the continuous development of vacuum insulated glass sector and glass tempering furnace manufacturing sector in our product portfolio will make significant contribution to furthering the achievements of LandGlass in the upcoming year. And corporate growth will also bring benefits to all of the LandGlass people!

While being proud of our achievements in the past, we have set higher goals for the New Year 2018 is the turning-point for "Made in China". We shall never forget why we started and stay committed to our mission. 2018 will become our new starting point and bring us new opportunities for the next chapter of the splendid story of LandGlass!



# Quality backed by high-tech, market won through hard-working 用科技成就品质 用汗水赢得世界

## 兰迪金钢助力Fuso Glass与Saint-Gobain项目合作

Fuso Glass是印度玻璃深加工行业的领航企业,同时也是印度规模最大的玻璃公司之一,在印度金奈、海德拉巴、孟买都设有工厂,产品广泛应用于印度众多地标性建筑。例如,包括德里、孟买、海德拉巴、班加罗尔在内的18个城市的机场用玻璃都是由Fuso Glass所提供的。除此之外,印度知名的印孚瑟斯技术园区、安娜百年图书馆也是Fuso Glass的项目。近期,Fuso Glass更是成功的走出印度,出口了3.5万平方米的玻璃,用于新加坡的Vison Exchange项目,这是Fuso Glass走向海外的一步。但是,Fuso Glass的经营者并不满足于此,他们希望能够通过与更多的大型跨国公司的合作,进一步提高企业的海外知名度,从而加速企业进军海外市场的步伐。

近日,Fuso Glass就得到了一个和业界翘楚法国圣戈班集团(Saint-Gobain)合作的机会。圣戈班集团,对于合作伙伴产品品质、技术能力、综合实力的苛刻要求,一直业界闻名。因此,此次双方合作的基础自然是Fuso Glass所生产的不同批次与型号



的钢化玻璃,都能够完全通过圣戈班的各项严苛检测。为此,圣戈班的相关技术人员用了好几天时间在Fuso Glass工厂里使用各种仪器,反复检测着钢化炉所生产出来的不同规格的单银、双银、三银Low-E钢化 and 半钢化玻璃的表面应力、波纹度、边部翘曲等各种相关数据。“We are happy with the machine and the products. (我们很满意这台设备和它所生产的产品)”,这是圣戈班检测人员对Fuso Glass的负责人Ashok Jain先生所说的。目前,双方正在就合作事项进行着进一步的商谈,而这次试验的主角是兰迪机器在2015年隆重推出的金钢炉。

其实,这已经是Fuso Glass的第三台兰迪钢化炉了。早在七年前,Fuso Glass就订购了两台兰迪的全对流钢化设备,七年来设备良好的运行与兰迪周到的售后服务,都令Ashok Jain先生感到欣喜。因此2016年,为了更好的应对市场对高品质Low-E玻璃的加工需求,也为了更好地完成公司日益增长的订单,Ashok Jain先生毫不犹豫地选择了兰迪最新的高端钢化设备——兰迪金钢。这台设备投产的前三个月里,就帮助Fuso Glass接连拿到IT巨头Wipro, Lulu, Transasia和ITC的项目,同时还有知名门窗制造商Mero Asia Pacific, Glass Wall Systems和Alufit印度公司的订单。事实也又一次的证明,兰迪机器是最值得信赖的。

基于兰迪金钢炉的优异表现,今年8月,Fuso Glass的Ashok Jain先生又一次来到了中国,在感谢兰迪机器的同时,又订购了一台兰迪金钢炉。他一直在说:“Fuso Glass and LandGlass are a family, we mutually have the absolute trust. I believe LandGlass. I believe your machine and service. (Fuso Glass和兰迪机器是一家人,我们互相之间有绝对的信任。我相信兰迪,相信你们的设备和服务。)”

七年前,Fuso Glass第一次与兰迪合作,七年后,Fuso Glass又一次同兰迪携手。七年,是一个周期,我们用科技成就品质;七年,是一个循环,我们用责任获得信任;七年,是一个轮回,我们用汗水赢得世界!期待下一个七年!

## LandGlass Cyclone assisting to build strong cooperation between Fuso Glass and Saint-Gobain

Fuso Glass is a leading enterprise in Indian glass processing industry, as well as one of the largest glass manufacturers in the country with factories in Chennai, Hyderabad, and Mumbai. Their products are widely used for many landmark constructions in India. Fuso has supplied glasses for 18 Airports in India including major airports of cities like Delhi, Mumbai, Hyderabad, Bengaluru as well as Glazing for Infosys Technologies Campus, Hyderabad and Facade Glazing for Anna Centenary Library, Chennai. Meanwhile, Fuso has also supplied glasses to major IT parts of TCS, Infosys, and exported 35,000 sqmtr of glass for Vison Exchange project in Singapore recently. Now Fuso is expecting to work with more world-renowned multinational companies and increase the company's visibility worldwide.

Recently, Fuso Glass had an opportunity to cooperate with an industrial leader, Saint-Gobain of France. Saint-Gobain is well known in the industry for its stringent requirements on partners' product quality, technical competence, and comprehensive strength. Thus, whether the tempered glass sampled from different batches and of different models can successfully pass each and every Saint-Gobain's test became one of the determining factors for the cooperation. For this purpose, technical inspectors of Saint-Gobain spent days at Fuso Glass facilities, testing repetitively with various equipment the surface stress, waviness, and edge kink of single silver, double silver, triple silver Low-e tempered and semi-tempered glass with different specifications made by the glass tempering furnace at Fuso Glass. "We are happy with the machine and the products" said by Saint-Gobain's inspectors to Fuso Glass' director, Mr. Ashok Jain. At present, the two parties are discussing further about the project. The glass tempering furnace that played the key role during this examination is the Cyclone series glass tempering furnace designed by LandGlass in 2015.

In fact, this is the third glass tempering furnace Fuso Glass has purchased from LandGlass. As early as seven years ago, Fuso Glass already purchased two full Jetconvection glass tempering

furnaces from LandGlass. Since then, the good running condition of the machine and considerate after-sales service provided by LandGlass has totally exceeded Mr. Ashok Jain's expectations. Accordingly, in 2016, when the market demands for high quality Low-e glass increased, Mr. Ashok Jain ordered without hesitation the latest high-end glass tempering machine from LandGlass - Cyclone series glass tempering furnace, in order to fulfill the growing orders. Once again, it is proved that LandGlass Cyclone is trustworthy. Within the first three months of commissioning of its first LandGlass Cyclone, Fuso has already backed major projects from IT giant Wipro, Lulu, Transasia, ITC and from renowned fabricators like Mero Asia Pacific, Glass Wall Systems and Alufit India.

Due to the outstanding performance of the Cyclone series glass tempering furnace during the Saint-Gobain project, Mr. Ashok Jain came to China in August this year. In addition to expressing his thankfulness, he ordered another Cyclone series glass tempering furnace. He kept saying that "Fuso Glass and LandGlass are a family, we mutually have the absolute trust. I believe LandGlass. I believe your machine and service"

Seven years ago, Fuso Glass for the first time, worked with LandGlass. Seven years later, the two companies worked together again. Seven-year is a cycle. During this period, we have improved our product quality with advanced technologies, gained trust from customers by fulfilling our responsibilities, and won the market through our hard working! We look forward to seeing what we can achieve in the upcoming seven years!





# A native of China in Sydney

## 中国人在悉尼

众所周知的《北京人，在纽约》讲述了上个世纪一批北京人在纽约奋斗与挣扎的生存故事。近日，李克强总理访问澳大利亚，让中国人在悉尼成为了主角，也让那些在悉尼奋斗、打拼多年，推动当地经济发展的华人企业家，成为关注的焦点。

澳大利亚Watson Glass钢化玻璃集团的老板，陶孝栋先生就是其中一员，陶先生早年从中国前往澳大利亚在悉尼创建了Watson Glass钢化玻璃集团。区别于主要从事体力劳动与低端产业的早期海外移民，新时期的海外华人陶先生选择投身对文化知识、专业技术与资金要求更高的玻璃深加工产业。凭借着自己的勤劳与努力，Watson Glass集团在十几年间得到了快速发展，成为澳大利亚规模最大的玻璃深加工企业之一，现年产值已达5000万澳元，拥有数百名员工，其中70%以上来自中国，澳大利亚许多知名建筑的玻璃幕墙都是来自Watson Glass集团。伴随着公司规模的不断扩大，Watson Glass集团不仅为本地区提供了更多的就业岗位，更加推动了整个悉尼玻璃深加工行业的发展。现在，华人在澳大利亚正在逐步成为国家经济、政治发展的一支重要力量，他们所经营的企业已经深入国家经济的各个领域，与此同时，当地华人也积极投身政治，为地区的发展建言献策，现在已经有不少华人成为议员、市长，甚至于政府内阁人员。

作为澳大利亚华人打拼的榜样和缩影，WATSON GLASS集团自然也就成为了，此次陈润儿省长率领的河南省政府代表团，访澳期间参观考察的首选对象。3月25日，代表团参观了位于悉尼的WATSON GLASS集团，并参加了该公司的第五台钢化设备，来自河南洛阳的兰迪钢化炉启动剪彩仪式。这台钢化炉是兰迪生产的全对流钢化设备，采用了行业领先的喷流式强制对流加热技术，是为加工高端Low-E节能玻璃产品度身定制的钢化设备，其效率和产品质量都无出其右。这已经是WATSON GLASS集团从兰迪购买的第四台钢化设备，作为澳大利亚顶级玻璃产品的供应商，WATSON GLASS集团对钢化设备有着严格的要求，良好的设备运行，优良的产品品质，及时周到的售后服务，是这十几年来，WATSON GLASS集团坚持选择兰迪的原因。

其实，WATSON GLASS集团只是华人企业在国外的一个缩影，同样，兰迪钢化设备也只是“中国制造”走出中国，立足国际的一个缩影。相信未来，会有更多的华人企业家带着更多的“中国制造”在世界各地站稳脚跟，为全球经济做贡献的同时，也向世界展示中国人的勤奋与智慧。



"A Native of Beijing in New York" is a well known TV series broadcasted last century telling a story of a few Beijingers who struggled and survived in New York. Recently, Premier Li Keqiang's visit to Australia also put a spotlight on the Chinese in Sydney, drawing media attention to the Chinese entrepreneurs who devoted years of their efforts in the attempt to integrate into local communities and contribute to the development of local economy.

Chris Tao, the Managing Director of Australian Watson Glass Pty Ltd is one of them. Mr. Tao moved to Australia from China in earlier years and founded Watson Glass Pty Ltd in Sydney. Unlike the early Chinese immigrants who were mostly engaged in labor and lower end industrial sectors, as a well educated Chinese in the new era, Mr. Tao chose to join in the glass processing industry, a profession that requires expertise and financial strength. Through his unremitting diligence and efforts, Watson Glass grew up rapidly in the past decade and has now become one of the largest glass processing companies in Australia. It now has annual output worth 50 million AUD and several hundreds of employees, among them, over 70% are from China. Glass for curtain walls of many famous Australian buildings were supplied by Watson Glass. With the continuous growth of its business, Watson Glass has not only offered more career opportunities to the local job market and promoted the development of Sydney's glass processing industry; it has also actively participated in the local community development and various charitable events. Currently, Chinese has become an important presence in the political process and economic development in Australia, investing in business covering various economic fields. While making substantive contribution to regional economy and public goods, local Chinese have actively

engaged in politics and provide inputs into local development. At present, there are numbers of Chinese being elected as local council members, mayors, and officers in Cabinet.

As the role model for local Chinese who strive for success in business, Watson Glass naturally became one of the enterprises that the Henan provincial delegation led by Governor Chen Runer wanted to visit during their trip to Australia. On March 25, the delegation came to Watson Glass to participate in the ribbon-cutting ceremony to inaugurate the installation of the 5th glass tempering furnace acquired by the company. By adopting the industrial leading JetConvection heating technology, this convection glass tempering furnace manufactured by LandGlass is a glass tempering system tailored for the processing of high-end Low-E energy efficient glass products with efficiency and quality unmatched in the industry. It is the fourth tempered glass machine Watson Glass purchased from LandGlass. As one of the top glass product suppliers in Australia, Watson Glass has very demanding requirements to the equipment they procure. System reliability, outstanding product quality, timely after-sales service and support are among the reasons that have made Watson Glass a loyal customer of LandGlass in the past decade.

Watson Glass Pty Ltd is one of the representing examples of Chinese enterprises overseas. Likewise, the glass tempering furnace of LandGlass also represents the endeavor of many who strive to introduce the branding of "Made in China" to the world. We are convinced that there will be many more Chinese entrepreneurs in the future to tell their stories of success around the world with the equipment "Made in China". While contributing to the development of the global economy, being demonstrated to the world are also the intelligence and unremitting diligence of Chinese people.





# Re-Walk with us on the Land-based Silk Road

## 邀您一同 重走陆上丝绸之路

### Unveil LandGlass' "Go West" exploration along the "Belt and Road"

#### 沿着“一带一路”，揭秘兰迪机器的“西行记”

“一带一路”分别指的是丝绸之路经济带和21世纪海上丝绸之路。作为中国首倡、高层推动的国家战略，“一带一路”对我国现代化建设和屹立于世界的领导地位具有深远的战略意义。因此，作为中国玻璃深加工行业的领航者，兰迪机器也早已开启了自己的“西行记”，重走陆上丝绸之路，将中国的玻璃深加工设备，带去“一带一路”沿线的国家和地区。

众所周知，“一带一路”从中国出发，一路向西，走过了中亚、南亚、西亚、以及欧洲的许多地区。那么接下来，就让我们一起去走走、停停，看看“陆上丝绸之路”上的“兰迪美景”。

The "Belt and Road" refers to the Silk Road Economic Belt and the 21st-Century Maritime Silk Road respectively. As a national strategy promoted at the highest level, Chinese "One Belt, One Road" initiative has great and far-reaching strategic significance for the country's modernization and establishment of its leading standing in the world. While LandGlass is one of the industrial leaders in glass processing field in China, it has launched its own "Go West" journey for long, bringing its glass tempering furnaces to the regions and countries along the Silk Road.

As is known to all, the "Belt and Road" begins in China before stretching westwards to most of European areas through Central Asia, Southern Asia, and Western Asia. So, let's walk through this path together and enjoy the "Scenic Sites of LandGlass" on this road.



#### (一) 中国西安

西安是路上丝绸之路的一个重要起点，也是中国西部省份的门户。陕西联创玻璃工程有限公司，就座落于泾河国家级开发区，是一家集生产销售和服务为一体大型玻璃深加工企业。

2013年到2017年，陕西联创公司分别从兰迪机器购买了三台玻璃钢化设备，该设备均采用喷流式强制对流技术，通过高温对流风机，以及加热炉内的对流箱体和加热系统，保持炉内高温气流垂直喷向玻璃上、下表面，实现快速、均匀的加热玻璃，以保证优异的玻璃钢化效果。现在该企业的产品已经覆盖西安，以及周边省市和地区，产品被用于当地的众多标志性建筑上，也许哪天，您走在西安的大街上，那块映射出您美丽身影的玻璃就是出自兰迪玻璃钢化设备。

#### (I) Xi'an, China

Xi'an, a gateway city China's western region, is the starting point of the land-based Silk Road. Located in the state-level Jinghe National Development Zone, Shaanxi Lian Chuang Glass Engineering Co., Ltd. is a vertically integrated large-scale glass processing enterprise.

During the period from 2013 through 2017, the company acquired successively from LandGlass three glass tempering furnaces. All the furnaces they purchased are the ones using JetConvection technology. Through a heating system consisting of high temperature convection blower and convection box in its heating chamber, the furnace applies high temperature air jets vertically on both top and bottom surfaces of the glass sheet via a quick and even heating process to guarantee the excellent quality of the tempered glass products. The company's products are now sold in the market covering Xi'an and the provinces and cities in the surrounding areas, widely being used on local landmark buildings. One day, when you walk down the street, the glass that reflects your great figure is most likely a product made by LandGlass tempering machine.



公司名称: 陕西联创玻璃工程有限公司

设备特点: 强制对流钢化设备

Company: Shaanxi Lian Chuang Glass Engineering Co., Ltd.  
Machine: JetConvecl Glass Tempering Furnace



#### (二) 中国兰州

过了西安，我们继续西行就来到了甘肃省会兰州，兰州是陆上丝绸之路的一个重要站点。兰州德奥铝塑门窗有限公司，是一家在甘肃地区颇有名气的门窗企业。公司拥有一台兰迪AB系列平弯双向式玻璃钢化设备，这种类型的设备在加热炉的两侧分别配置平钢化段和B弯钢化段，通过不同的玻璃进炉方向，在一台设备上就成功地满足了平板钢化和B型弯钢化两种产品需求。一台设备，满足两个种类的产品加工需求，有效控制成本和场地需求的同时，产出高端品质的钢化玻璃产品。

#### (II) Lanzhou, China

After the Xi'an stop, we continue our journey to Lanzhou, the capital of Gansu province and an important site along the land-based Silk Road. Lanzhou De Ao Aluminum and Plastic Fenestration Co., Ltd. is a fenestration manufacturer well-known in Gansu province. The company is equipped with a LandGlass AB series Flat and Bent Bi-directional glass tempering furnace. This model has a flat and a bent quenching section on each side of the heating furnace. Through different loading inlet, the glass tempering machine can temper both flat and bent glass. Since one furnace fulfills the requirements for two different types of glass processing, it makes top quality tempered products while effectively reducing the production cost and space requirement.



公司名称: 兰州德奥铝塑门窗有限公司

设备特点: 平弯双向式强制对流钢化设备

Company: Lanzhou De Ao Aluminum and Plastic Fenestration Co., Ltd.  
Machine: Flat and Bent Bi-directional JetConvection Glass Tempering Furnace



### (三) 中国青海

离开兰州，继续西行，就有一个不得不提的一个地方，那就是位于世界屋脊青藏高原东北部的青海省。这里气候条件严酷，但即便是在这样的高海拔的环境下，依然有着兰迪设备的身影。

青海青玻实业有限公司有着许多个“第一”，该公司既是青海省第一个引进钢化玻璃生产线的企业，同时他们所组建的“太阳能光伏玻璃厂”，更是填补了西北六省区无光伏玻璃生产企业的空白。走进他们的整洁、宽敞的厂房里，您一眼就能看见这台兰迪的组合式平玻璃钢化设备，该设备有两个依次布置的加热区域，可以根据工艺的要求，灵活的配置加热区域的加热方式。这样，在实际使用中，客户可以通过加热区域阶梯温度的设定，明显减少光学变形、球面弯曲、麻点、白雾等缺陷，保证玻璃钢化后的最佳品质。此外，该设备还具有等温连通的功能，该功能可以有效的满足客户加工超大幅的钢化玻璃的需求。



### (III) Qinghai, China

After leaving Lanzhou and continuing our "Go West" trip, there is a place that has to be mentioned. That is Qinghai province located on the north-eastern part of the Qinghai-Tibetan Plateau. Despite the harsh climate conditions in a high altitude environment, LandGlass' tempered glass machine can still be found in the region.

As one of the pioneer enterprises in Qinghai, Qinghai Glass Co., Ltd. is the first company that acquired a glass tempering furnace in the province. Their solar PV glass factory filled the gap of lacking PV glass manufacturing capacity in the six northwestern provinces.

Walking into the neat, spacious workshop, you will see LandGlass Combined Flat Glass tempering furnace immediately. The furnace has two heating sections, allowing easy adaptation of heating modes to various process needs. Thus, in actual practice, the customer can significantly reduce defects such as optical distortion, spherical bending, hot spots, and white haze through proper settings of temperature gradient in heating section to optimize the quality of tempered glass. In addition, when combining the two heating sections to work as one unit, the furnace can effectively temper extra large glass.

公司名称:青海青玻实业有限公司

设备特点:组合式平玻璃钢化设备

Company: Qinghai Qing Glass Co., Ltd.

Machine: Combined Flat Glass Tempering Furnace



### (四) 土库曼斯坦

土库曼斯坦位于中亚，是陆上丝绸之路的一个重要国家，该国拥有丰富的石油天然气资源。土库曼斯坦ANYK TEKLIP 公司，是一家集生产销售和服务为一体大型玻璃深加工企业。

在ANYK TEKLIP 公司，一台兰迪AC平弯双向式设备在日以继夜的运行着，该机组中的C弯冷却段采用纵向弯弧结构(即玻璃弯弧方向与玻璃运动方向垂直)，传动辊道是带有滚轮组的性能刚柔俱佳的软轴，配合灵活的工艺方式，可以生产出高品质的弯钢化玻璃，产品主要用于大规模建筑幕墙、穹顶、展柜、家居装潢、设计师定制品等。这家企业在土库曼斯坦承接过许多项目，高品质玻璃产品对当地的玻璃深加工产业有着极大的带动作用。

### (IV) Turkmenistan

Located in Central Asia, Turkmenistan is an important country on land-based Silk Road with rich natural resources such as oil and natural gas. ANYK TEKLIP is a large glass processing company in Turkmenistan offering a full range of services from manufacturing, sales, to service support.

In ANYK TEKLIP's facility, a LD-AC F&B Bi-directional glass tempering furnace made by LandGlass is running day and night. The furnace adopts crosswise bending structure (i.e. Glass bending direction vertical to its movement) in C-bent quenching section and flexible shaft with wheel-sets that accommodates both rigid and flexible needs of the drive rollers. Combined with diversified processing solutions, it can manufacture high-quality curved tempered glass for large-scale architectural curtain wall, sky dome, showcases, household appliance and decorations, as well as customized works. This company has undertaken various projects in Turkmenistan. Its high-quality glass products play a key role in the development of local glass processing industry.



公司名称:土库曼斯坦ANYK TEKLIP公司

设备特点:LD-AC玻璃钢化设备

Company: ANYK TEKLIP

Machine: LD-AC Glass Tempering Furnace



### (五) 伊朗

我们继续西行来到西亚，伊朗是西亚的主要经济体之一，也是陆上丝绸之路的一个重要站点。TJK 公司，在伊朗是一家颇有名气的工业企业。公司拥有一台兰迪AB平弯双向玻璃钢化设备，这种类型的设备在加热炉的两侧分别配置平钢化段和B弯钢化段，通过不同的玻璃进炉方向，在一台设备上就成功地满足了平板钢化及B型弯钢化两种产品需求。其中的B弯，采用硬轴成型辊道，横向成弧工艺，且变弧机构由多组变弧装置组成，成型精度高。这样的一台设备，满足平、弯两个种类的产品加工需求，有效控制成本的同时，还能够产出高端品质的玻璃产品。

Commercial Complex Vylazh Tourists 商业区、Tehran 第三公园、Kish International Airport 国际机场、以及Atlantic Commercial Property 商业地产等，许多当地知名的地标项目所使用的玻璃，都来自TJK 公司的这台兰迪AB平弯双向玻璃钢化设备。

### (V) Iran

We now continue our journey to West Asia. Iran is one of the major economies in West Asia and an important country on the land-based Silk Road. TJK is a well-known industrial enterprise in Iran. The company is equipped with a LD-AB F&B Bi-directional glass tempering furnace made by LandGlass. With flat and bent tempering sections located on each side of the heating chamber, by loading glass from different directions, the tempering line can fulfill the needs of both flat and B-bent tempered glass. The B-bent section employs lengthwise bending process on hard shaft forming rollers with its bending mechanism composed of multiple bending devices for high-precision bending. While one furnace serves two types of products, it not only outputs top quality glass, but also effectively keeps the cost down.

Glass used on many local landmarks, such as Commercial Complex Vylazh Tourists business park, Tehran Third Park, Kish International Airport, and Atlantic Commercial Property are manufactured by this LD-AB F&B Bi-directional glass tempering furnace.



公司名称:伊朗TJK公司

设备特点:LD-AB玻璃钢化设备

Company: TJK

Machine: LD-AB Glass Tempering Furnace





## (六) 西班牙

离开西亚，继续西行，就到了另一个大洲——欧洲。西班牙，位于欧洲西南部，地处欧洲与非洲的交界处，位列欧元区第五大经济体。在这里，您依然可以看见兰迪设备的身影，西班牙 ASTIGLASS 公司就是兰迪金钢系列钢化设备的忠实用户。

ASTIGLASS 公司是西班牙国内知名的玻璃深加工企业，Edificio Marbella 广场、Royalton White Sands 酒店、Roble Corporate 中心，都是他们承接的知名项目。每当走进他们公司整洁、宽敞的生产车间时，一眼都会看见这台兰迪金钢玻璃钢化设备，该设备采用颠覆性的弧形炉体结构，以及新一代 Cyclone™ Convection 对流加热系统，因而，具有更加优化的对流风机和箱体结构设计，以及更好的参数匹配性，对流风压空前均匀，大幅提高玻璃加热均匀性。与此同时，配合 GeniusCool™ 钢化技术、高智能化的自适应操控及全面精确的数据分析等一系列领先科技，在保证钢化玻璃品质的同时，有效的实现了设备的智能操控，满足了客户对品质、成本，以及智能化的需求。

## (VI) Spain

Further west after leaving West Asia, the trip takes us to another Continent - Europe. Spain, located in Southwestern Europe near the border between Europe and Africa, is the fifth largest economy in Eurozone. You will find the presence of LandGlass equipment there too. ASTIGLASS is one of the loyal customers of LandGlass' Cyclone series glass tempering furnaces.

ASTIGLASS is a notable company in Spanish glass processing industry. Edificio Marbella Plaza, Royalton White Sands Resort, and Roble Corporate Center are among those well-known projects they undertook. Walking into the company's clean, spacious workshop, the Cyclone series glass tempering furnace will catch your eyes right away. This equipment features a revolutionary arch-shaped structure, and the new generation Cyclone™ Convection heating system. Through the optimized design for the convection fans and enclosure, it offers better matched parameters and unprecedented uniformity of convection air pressure for improved even distribution of heat over glass. In the meantime, GeniusCool™ tempering technology, high intelligent adaptive control, comprehensive data analysis, and a series of leading technologies incorporated in the system ensure the quality of the tempered glass and effective implementation of smart control over the equipment while fulfilling customers' expectation on quality, cost, and intelligent operation.

公司名称: 西班牙 ASTIGLASS 公司

设备特点: 兰迪金钢®玻璃钢化设备

Company : ASTIGLASS

Machine: Cyclone® glass tempering furnace



## (七) 意大利

离开西班牙，紧接着我们就到了欧洲民族和文化的摇篮——意大利，这里是古代丝绸之路的终点，同时也是现代陆上丝绸之路，与海上丝绸之路的交汇点。由于悠久的历史 and 特殊的地理位置，意大利在艺术和时尚领域都处于世界领导地位，而米兰作为意大利的经济及工业中心，作为世界时尚之都，更是拥有数不胜数的奢侈品品牌。

ASCOLESE ITALY 公司，就位于米兰，是一家专门为意大利奢侈品品牌提供橱窗和展柜玻璃的企业，该公司在2年前购买了一台兰迪的AB平弯双向玻璃钢化设备。说起当初选择兰迪的原因，公司的负责人 Stefano 先生说：“我们公司于1982年成立，经过多年的发展，已经取得了不错的成绩，在2016年，我们觉得是时候向前再迈一步了，我们想要脱颖而出。于是，再三挑选之后，我们选择了兰迪，因为它具备一些绝对创新的技术，比如独特的弯钢化工艺。事实证明，这台设备的成功运行，让我们得到了飞快发展，我们做了英明的决定，兰迪是我们最好的合作伙伴。”

## (VII) Italy

We then left Spain for our next stop - Italy, known as the cradle of European culture and civilizations. It is the end of the ancient Silk Road and where the land route and marine route of the modern Silk Road intersect. Thanks to its long tradition and advantageous geographical location, Italy has been in the leading position in the field of art and fashion. Moreover, as the center of Italy's economics and industries, as well as the capital of the world's fashion industry, Milan gathers a tremendous number of luxury brands.

ASCOLESE ITALY is a company headquartered in Milan, supplying glass for luxury product showcases. The company purchased a LD-AB F&B Bi-directional glass tempering furnace from LandGlass two years ago. Speaking of the reasons for choosing LandGlass equipment, Mr. Stefano, the head of the company said, "Our Company was founded in 1982. After years of development, we have achieved good results. In 2016, we felt it was time to step forward. We want to stand out from the crowd. After careful review, we decided to choose LandGlass, because of the innovative technologies it has, such as its unique bending and tempering process. It turns out to be a wise decision. The successful operation of this equipment has ensured our rapid business expansion. LandGlass is our best business partner."



公司名称: 意大利 ASCOLESE ITALY 公司

设备特点: LD-AB玻璃钢化设备

Company : ASCOLESE ITALY

Machine: LD-AB glass tempering furnace

为了探索，我们一起，由西安出发，一路向西，从亚洲走到了欧洲，从内陆走到沿海，从中国走向了世界，我们看到了“一带一路”沿线的“兰迪美景”，感受到了“一带一路，重器先行”的壮阔。

我们有理由相信，沿着一带一路走出去，将是中国工业企业未来发展的新常态。未来，兰迪将与我们的用户，一起把握好这难得的机遇，以尖端的技术，先进的工艺，卓越的品质，全面的服务，与用户共谋发展，共享硕果！

To explore the "Scenic Sites of LandGlass" along the route of "One Belt, One Road", we started the trip together in Xi'an. We headed west from Asia to Europe and from inland to the coast, appreciating the spectacular of "One Belt One Road - Let heavy machinery lead the way" approach.

We have reasons to believe that the rapid development along the Silk Road will be the new normal to drive the future of Chinese industries. LandGlass will seize this opportunity and prosper together with our customers by rendering state-of-the-art technologies, advanced processes, outstanding product quality, and comprehensive service support to them.



# If LandVac had been used, would the unmanned store still have to be shut down?

## 如果有了兰迪V玻，无人便利店还会关门吗？

之前，上海首家无人便利店上线，一时间众说纷纭，不少人持观望态度，没想到近日有媒体报道，该店开业不足一月，目前已经撤空停运，关店原因出人意料：没败给市民素质，输给了持续高温！便利店两面为透明玻璃墙，面积在10平方米左右。在36度的室外温度下，室内就算空调开足，温度居然也有40度，比室外还高出4度。货架上的甜甜圈也扛不住高温，糖霜和巧克力都有融化迹象。

作为处于玻璃深加工产业技术研发一线、致力于科技让生活更美好的兰迪人，我们看到先进的无人智能技术不敌高温这样一个结果，着实有些遗憾。如果能够采用兰迪V玻，无人便利店可能就不会面临这样的问题。据了解，该便利店的两面墙都是玻璃，而玻璃房的常用建材是中空玻璃，其U值高达 $2.87W/(m^2 \cdot k)$ ，而V玻U值为 $0.48W/(m^2 \cdot k)$ ，厚8.3mm的V玻隔热效果超过1.5m厚的砖墙。因为高真空腔有效隔绝了热量的传播，既可以抵御外界热量进入室内，又可以保证室内空调的冷气不散发出去。按照这个数据换算，外界36度，室内开

着空调，室温可以控制到24-26度，完全可以达到舒适的体感温度。在这样的温度条件下，更不用担心超市内食物因高温而变质。

无人便利店——缤果盒子定位是全球第一款真正意义上的可规模化复制的24小时无人值守便利店，希望给人们带来更便捷的购物体验，让生活更舒适。同样，兰迪机器也是致力于高科技引领新生活，不断追求产品和服务的创新，兰迪V玻的研发，也为生活更安全、更美好提供了助力。我们已经知道，构建绿色制造体系，建设绿色工厂，实现生产洁净化、废物资源化、能源低碳化是中国制造2025实现“制造大国”走向“制造强国”的重要战略之一。作为兰迪人，更为此做出了自己的努力：兰迪智能全钢化真空玻璃生产线的研发成功，为真空玻璃的大规模商业化应用奠定了坚实基础，将对全球绿色节能、低碳环保事业做出划时代的贡献！兰迪机器愿为生活更安全、更美好贡献自己的一份力量，为共同实现智能制造2025迈出坚定的步伐。

Earlier, Shanghai launched its first unstaffed convenience store. While the public opinion is still divided on the business model and many remain skeptical, it is reported recently by news media that the store has already been closed after less than a month of operation. The reason for the closing is beyond most people's expectation: the store was defeated not by the quality of the shoppers but by the consistent high temperature climate! The convenience store is approximately 10 square meters in size with two walls made of transparent glass. When the outdoor temperature is at 36-degree Celsius, the indoor temperature will reach 40-degree, 4 degrees higher than outside, even though the air conditioner is running at full capacity. Sugar frost and chocolate toppings of the donuts on the shelves start to melt under such temperature.

LandGlass people who have been working at the R&D front-line of glass processing industry and are dedicated to improve the quality of life, feel really sorry to see such an ending for the application of an advanced unmanned intelligent technology. If the convenience store had used LandVac, it would not have confronted this problem. It is known that the store has two glass walls. The architectural material commonly used for glass houses is insulated glass with U-value  $2.87W/(m^2 \cdot k)$ . In comparison, LandVac enjoys a U-value of  $0.48W/(m^2 \cdot k)$ . The thermal insulation effect of 8.3 mm thick LandVac is better than a 1.5 m thick brick wall. Thanks to the high vacuum chamber, LandVac not only can prevent the outside heat from getting in, it will also ensure not to lose the valuable cooled indoor air. Based on this calculation, provided that the outdoor temperature is at 36-degree and the air conditioner in full operation, it is possible to have the indoor temperature sustained at 24-26 degrees, a very comfortable temperature range. Under such condition, one doesn't have to worry about the acceleration of food deterioration due to high temperature.

The self-service convenience store - Bingo Box, positions itself as the world's very first 24-hour unstaffed convenience store that can be replicated in large scale, hoping to bring more convenient shopping experiences to consumers. By the same token, LandGlass is also committed to improve the safety and quality of lives by devoting itself to the continuous innovation of leading technology and development of new products. As we already know, it is one of the national strategies to realize the transformation from a manufacturing giant to a world manufacturing power through building green manufacturing system and plants, promoting clean manufacturing environment, recycling waste resource, and implementing low carbon energy. For this goal, LandGlass has made its own efforts: the successful development of LandGlass Intelligent Fully Tempered Vacuum insulated Glass production line has laid a solid foundation for the commercialization of our vacuum insulated glass, making our landmark contributions to global environmental conservation. To achieve the common goal for an Intelligent Manufacturing 2025, LandGlass is willing to make its best endeavors and take firm steps toward the safety and better quality of living.





# LandVac is chosen to be the designated building material for an upscale villa

## 兰迪V玻入驻西安别墅区 营造高端品质生活

兰迪V玻自上市量产以来，受到市场广泛关注，其在各个应用领域均展示了超高的性能优势。日前，兰迪V玻入驻西安高档别墅区阳光房项目，安装后隔音隔热效果显著，受到了业主的好评。

该项目是高档别墅区，居于闹市却闹中取静，南边毗邻西安大唐芙蓉园，不仅交通便利，还是重点学区房，一栋售价动辄上千万元，能在此处居住，也彰显了业主的显赫身份和非凡品味。经过严格的身份登记后，我们进入小区，这里环境幽雅，绿树成荫。V玻的安装现场位于别墅顶楼西侧的阳光房，本次项目采用的是双层夹胶真空复合中空兰迪V玻，最大尺寸达到1495\*1925毫米，玻璃规格也随着各面墙体受热程度、日晒以及位置的不同，进行了精心的定制，保证在采光充足的同时，隔热保温节能降噪效果达到最优。

业主陈先生看到我们的到来，热情地迎了上来，聊起V玻，他满面笑容：“我做建材生意几十年，经手的建材也不在少数，之前装上的Low-E中空玻璃U值 $1.8W/(m^2 \cdot k)$ 已经算不错的了，可像兰迪V玻这样U值在 $0.4W/(m^2 \cdot k)$ 的，我还是头一次见到。见过样品后，我毫不犹豫地定了一批。”随后，他邀请

我们一同上楼看安装现场，登上位于三层顶楼西侧的阳光房，一股热浪扑面而来，室外30多摄氏度的高温天气已是炎热不堪，我们站在室内更是如同置身烤箱，很快就汗流浹背。看着旁边堆放着准备安装的V玻，业主陈先生笑了一下说：“明天热不热，就看它们的了。”次日下午，我们又来到这间换好V玻的阳光房，同样是西晒的阳光，室内明显比昨天感觉凉爽，置身其中再也没有灼热感。此时，我看了一下温度计，整整比外面低了6—7摄氏度。更换前，小区树上的蝉鸣声还能隐隐地传过来，将玻璃全部更换成V玻后，关上门窗，V玻的高真空腔有效地阻隔了声音传播，房间内静谧无声。业主陈先生表示，V玻阳光房的隔热降噪效果如此显著，等他手下另外一个大项目完工后，将首选V玻作为门窗建材。

V玻是兰迪机器历时八年潜心研发、具有自主知识产权的全钢化真空玻璃，具备优异的节能隔热特性。安装时是夏天，仅能感受到V玻的隔热降噪性能，其抗凝露性能、高强度抗冲击性能必将在未来的应用中得到一一验证。兰迪V玻竭诚为您营造舒适环境，邀您共享高品质家居生活。

Since the launch of LandVac series vacuum insulated glass, it has demonstrated superior performance in various applications and received widespread market attention. Recently, LandVac made by LandGlass was chosen to be the designated construction material for the sunroom project in an upscale villa in Xi'an. The upgrade delivers outstanding sound and thermal insulation and is well received by the property owners.

Adjacent to Xi'an Tang Paradise in the south, the luxury villas offer a quiet residential neighborhood in the city with the location advantage of key school district and convenient access to transportation. While the prices for these houses easily exceed 10 million RMB, it has been one of the preferred communities for many wealthy families. After ID registration at the entrance gate, we were permitted to tour the area. The LandVac installation project is located on the west side of the top floor. The glass selected for this project is the laminated LandVac, with maximum size up to 1495\*1925 mm. The actual sizes of the customized glass are carefully adjusted based on the sunlight exposure of each wall and their particular positions. While the performance of thermal insulation, energy savings, and noise reduction are optimized, sufficient daylight in the structure is also warranted.

On our arrival, Mr. Chen, one of the owners, greeted us warmly. Talking about the LandVac, he said with a big smile, "I've been in building materials business for several decades and handled all types of materials. Before, the Low-E insulated glass with U-value  $1.8W/(m^2 \cdot k)$  is already considered a great product. Now LandVac with U-value  $0.4W/(m^2 \cdot k)$ , it's the first time I've seen. I placed the order without hesitation when I saw the samples." He then invited us to the installation site. Stepping into the sunroom on the west side of the 3rd floor, we were surrounded by heat waves. With outdoor temperature reaching 30 degree Celsius, the temperature inside the sunroom was steaming hot like that in an oven. Looking at the LandVac stacked on the floor, ready for installation, Mr. Chen said, "hot or not, let's wait and see tomorrow." In the afternoon of the following day, we visited the place again to see

the sunroom that just had glass replaced by LandVac. With sunshine strong as the previous day, the indoor temperature was obviously much cooler. The burning feeling was gone. I looked at the thermometer. It showed that the temperature was 6-7 degrees Celsius lower than outdoor. Meanwhile, before the replacement, you could hear the traffic noise from the streets. After the glass all got replaced by LandVac, the vacuum chamber of LandVac effectively blocked sound transmission. Having door and windows closed, the room shut also the noise out. Mr. Chen said that the thermal and noise insulation effects were so impressive that he would make LandVac his number one choice for windows and doors in his future projects.

LandVac is fully tempered vacuum insulated glass developed by LandGlass with independent intellectual property rights after eight years of devoted work. It has demonstrated outstanding properties in thermal insulation and energy conservation. In summer, we the benefits of heat and noise reduction brought to us by LandVac. In the coming time, we will also be able to experience all other advantages LandVac offers, such as free of condensation and great impact resistance. LandVac will help you to build a comfortable environment and improve the quality of life.

Watson Glass Ply Ltd is one of the representing examples of Chinese enterprises overseas. Likewise, the glass tempering furnace of LandGlass also represents the endeavor of many who strive to introduce the branding of "Made in China" to the world. We are convinced that there will be many more Chinese entrepreneurs in the future to tell their stories of success around the world with the equipment "Made in China". While contributing to the development of the global economy, being demonstrated to the world are also the intelligence and unremitting diligence of Chinese people.







## LandGlass assists national defense with high quality LandVac

### 兰迪机器边境绽放 高品质V玻助力国防建设

近日，洛阳兰迪玻璃机器股份有限公司技术人员远赴吉林某边防哨所，一行人克服边境地区气候多变等不利因素，为哨所全部近30个窗体更换了定制的兰迪全钢化真空玻璃——兰迪V玻。此次承建项目顺利完工后，兰迪V玻优异的性能获得驻地官兵的一致称赞，一举奠定了兰迪V玻在业内的超凡品质，赢得了用户的至高口碑。

据了解，该哨所原来配置的是铝合金单层玻璃窗，不仅保温性能差，而且漏风、渗水，根本无法帮助战士们抵御冬季零下20°C的低温。而兰迪机器为哨所更换的玻璃窗采用U值低至0.4W/(m<sup>2</sup>·k)的全钢化真空玻璃和高档窗体材料，使整窗的保温、降噪、抗凝露效果更胜一筹！此外，V玻已经通过美国ATI±7200Pa抗风压测试、ANSI抗冲击测试、SGCC安全玻璃认证，即使遭遇冰雹、硬物冲击等情况，高强度的V玻不仅可以轻松对抗边境的恶劣天气，更为战士们的人身安全增加了一重保障。

兰迪V玻此次在边防哨所建筑上的应用，标志着该产品已率先进入了军用领域，我们期待着它的卓越品质能为国防领域建设做出更多贡献，其超高性能也必将在未来的应用中得到一一验证。

On May 2, a team of LandGlass technicians visited a border post in Jilin. Overcoming harsh climatic conditions at border areas, the team replaced nearly 30 window panes for the post with LandVac fully tempered vacuum insulated glazing. Upon successful completion of this project, the outstanding quality of LandVac is highly praised by the station officers and soldiers and greatly contributes to the establishment of LandVac's reputation among our customers as well as in the industry.

It is understood that the original windows were single pane glazing with aluminum alloy frames with poor thermal insulation and the sealing of the window can't prevent the air and water leaking in. The environment was tough for the soldiers especially in the winter temperature 20°C below zero. Fortunately, the window pane LandGlass replaced for the post adopts fully tempered vacuum insulated glass with U-value as low as 0.4W/(m<sup>2</sup>·k). The upscale materials allow the windows performing much better in terms of thermal insulation, noise reduction and resistance against condensation. Further, LandVac has passed U.S. ATI ±7200 Pa wind-resistance test, ANSI impact test, SGCC safety glass authentication. The high strength of LandVac not only can easily handle harsh weather, it is also tough enough to withstand impact from hail or hard objects, providing extra protection to soldiers.

The successful installation of LandVac on border post buildings indicates that the product is ready for military applications. We look forward to making more contributions to the national defense construction in the future while receiving global recognition for the superior performance of our high quality LandVac.

# 2018 Meet LandGlass At Exhibitions

## 2018 展会列表



- 01 03.07-10  
伊斯坦布尔 Istanbul  
土耳其 Glass Expo
- 02 03.21-24  
纽伦堡 Nuremberg  
德国 Fensterbau
- 03 04.19-22  
上海 Shanghai  
中国 China Glass
- 04 05.28-31  
莫斯科 Moscow  
俄罗斯 Mir Stekla
- 05 09.12-14  
拉斯维加斯 LasVegas  
美国 GlassBuild America
- 06 10.11-13  
北京 Beijing  
中国 CIEHI
- 07 10.23-26  
杜塞尔多夫 Dusseldorf  
德国 Glasstec
- 08 10.31-11.03  
北京 Beijing  
中国 FENESTRATION BAU China
- 09 11.14-16  
马来西亚 Malaysia  
亚洲 Glasstech Asia
- 10 12.06-09  
孟买 Mumbai  
印度 ZAK Glass