

TBR TIMBERY
TECHNOLOGY

广东顺德添百利科技股份有限公司
GUANGDONG SHUNDE TIMBERY TECHNOLOGY CO.,LTD.

TIMBERY TECHNOLOGY

节能 · 高效 · 专业钢化技术研发

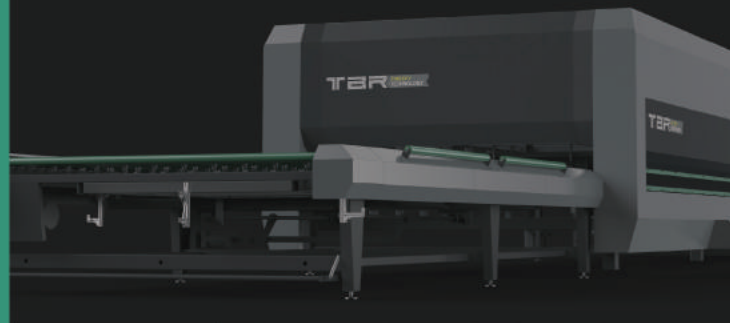
ENERGY-SAVING, HIGHLY EFFEICTIVE,PROFESSIONAL

广东顺德添百利科技股份有限公司

GUANGDONG SHUNDE TIMBERY TECHNOLOGY CO.,LTD.

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公司简介

COMPANY PROFIT

广东顺德添百利科技股份有限公司成立于2011年，是一家拥有多项专利技术并自主研发、生产和销售玻璃钢化炉设备的创新型企业。

我司生产的钢化炉，以其领先的节能技术和高品质的玻璃钢化效果得到客户的一致好评并迅速发展。在我司强大的技术团队的努力下，早在2012年就成功研发2mm玻璃物理全钢化技术，居同行领先水平。

Guangdong Shunde Timbery Technology Co., Ltd was found in 2011. We are a professional and innovative glass tempering furnace manufacturer with patented technologies. With the advanced energy saving technique and high quality glass tempering.

We received high praise from our customers and developing rapidly. In our engineer group's efforts, 2mm glass full tempering technology in 2012, which is ranking the leading position.

专注于提高玻璃钢化炉的质量。细节造产品，用心做服务。

Only focus on Glass Tempering Furnace. To meet user demand for our relentless pursuit.

荣誉资质

HONORARY QUALIFICATIONS

8

产品专利技术

Product patent technology

2mm

玻璃物理全钢化

Full toughening of glass physics

7

year

2011-2017年优秀企业

Excellent enterprise



2011年任顺德机械与玻璃制品协会

会员



2012年中国国际贸易认证

供应商



2014年佛山市顺德区伦教电子装备制造

副会长单位



2014年顺德区优质企业成长工程“星光工程”重点扶持企业

星光工程



2014年天津福机交易内挂牌企业

挂牌企业



2015年中国国际贸易认证

优秀供应商



2011年申请专利,内圆风机对变频

节能减排



2011年申请专利,当架的停冲,整冲

应对自如



2012年申请专利,能够实现厚度为2mm玻璃的全物理钢化

2mm物理钢化



2013年申请专利,使进风口进入塔体的风压,风量更加均衡,汇集于塔底,从而至高温炉内吹风均匀性,使生产的钢化玻璃平整度和平整度更好。

集风箱



2013年申请专利,保证了玻璃钢化炉的一贯性和可复制性,降低了玻璃钢化炉制造的成本。

玻璃钢化炉



2014年申请专利,减轻驱动电机启动第一、二卷扬轴的过应力,使玻璃有更加平滑,同时延长卷扬轴使用寿命。

卷扬缓冲



2017年授予专利证书

变弧风栅和反向弯钢



2017年,发明专利拥有自己的外观专利。

外观专利

我们的优势

OUR ADVANTAGE

01 强大的研发团队以及领先的技术优势

Strong Development Group & Leading Technology

02 细致的设备安装专业的操作培训, 优秀的售后服务

Delicate Installation, Professional Training & Excellent After-sale Service

03 高效的生产流程, 严谨的质控标准

High Efficiency Productivity & Rigorous Quality Control Standard

04 交货期准且产品质量得到广大客户充分认可

Delivery On Time & Gain The Full Recognition By Customers



产品系列

PRODUCT SERIES

01

Radiation Flat Glass
Tempering Furnace

辐射型平玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P07/09
技术参数	Technical parameter	P08/10
BG2036		
BG2050		
BG2436		
BG2442		
BG2450		
BG2460		
BG2650		
BG2660		
BG2850		
BG2860		
BG3080		
BG3380		

02

Flat Glass Tempering
Furnace With Pass Section

通过型平玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P11/13
技术参数	Technical parameter	P12/14
TG0220		
TG0932		
TG1240		
TG1560		
TG2080		
TG2442		
TG2450		
TG2460		
TG2660		
TG3080		
TG2660		

03

Flat Glass Tempering
Furnace with Blower Motor
Convection & Pass Section

风机对流型平玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P15/17
技术参数	Technical parameter	P16/18
TG2442-A		
TG2650-A		
TG2460-A		
TG2650-A		
TG2660-A		
TG2850-A		
TG2660-A		
TG3080-A		
TG3080-A		

04

Flat Glass Double Heating
Chamber Tempering Furnace

双室炉型平玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P19
技术参数	Technical parameter	P20
TG0932-Z		
TG1240-Z		
TG1550-Z		
TG1655-Z		
TG1680-Z		
TG2050-Z		
TG2442-Z		
TG2450-Z		
TG2460-Z		

05

Flat & Bending Glass
Tempering Furnace

平弯型玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P21
技术参数	Technical parameter	P22
HWTG1250-10+3		
HWTG2050-10+3		
HWTG2050-08+4		
HWTG2442-10+3		
HWTG2450-12+3		
HWTG2460-15+3		
HWTG2460-18+2		
HWTG2860-25+2		
HWTG3060-20+2		

06

Bending Glass
Tempering Furnace

弯玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P23
技术参数	Technical parameter	P24
HW1210+3		
HW2010+4		
HW2415+2		
HW3425+2		
YZW1220		
YZW2020		
ZW2442		
ZW2450		

07

Continuous Flat Glass
Tempering Furnace

连续型平钢化玻璃生产线

OPTIONS >

技术特征	Characteristics	P25
技术参数	Technical parameter	P26
LG0600		
LG0925		
LG1220		
LG1225		
LG1525		
LG1725		

08

Flat Glass Tempering
Furnace with Air
Compression & Pass Section

压缩对流型平玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P27
技术参数	Technical parameter	P28
TG2436-CA		
TG2442-CA		
TG2450-CA		
TG2460-CA		
TG2650-CA		
TG2660-CA		
TG2850-CA		
TG2860-CA		
TG3050-CA		
TG3060-CA		
TG3360-CA		
TG3360-CA		

09

2mm small size
glass tempering furnace

2mm小型玻璃钢化生产线

OPTIONS >

技术特征	Characteristics	P29
技术参数	Technical parameter	P30
STG0220		
STG0320		
STG0620		
STG0920		
STG0930		

Swon Series Radiation Flat Glass Tempering Furnace 玄武辐射型平玻璃钢化生产线

技术特征 Characteristics

采用矩形辐射加热与热平衡结合的加热方式，能有效的提高炉内的加热均匀性及提高加热的速度，结合裸露式加热系统，能有效的减少热量的损耗，从而达到节能的效果。多点检测温控系统，确保炉内温度精确的控制，减少局部温度过大造成的“炸炉”现象。各电机配备实时监控，如有故障能马上报警提醒。使用变频风机控制技术，结合获得专利的集风箱设计，以使玻璃冷却达到最佳效果，实现钢化过程的最低能耗。

注：表中尺寸均为mm单位，产量按照5mm普通厚度白玻80%的装载率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。

以上均为公司产品中的小部分。

关于更多内容请查阅专利研发团队。

Products range is not fully listed here.

For further information, please contact with TIMBERY group.

The perfect combination of radiation heating and heating balance can uniform the heating of chamber and shorten heating time. Heating system without cover can reduce heating loss, achieve the goal of saving energy. Multi-point temperature detecting system ensure precision temperature control, reduce glass breakage in chamber because of excessive temperature differentials. All motors have real-time monitoring if any wrong will alarm. Combining controlling technique of blower with frequency inverter & collect air box patented, make glass cooling achieve the best effect, get the lowest energy consumption.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

技术参数 Technical parameter

Model 型号	MAX	MIN			
BG2036	2000×3660	300×100	5-19	91	≥450
BG2050	2000×5000	300×100	5-19	124	≥550
BG2436	2440×3660	300×150	5-19	110	≥500
BG2442	2440×4200	300×150	5-19	128	≥550

主要应用建筑，卫浴，电器，家具装饰等。

Application: furniture, decorative architecture, building laminated glass, ect.

Model 型号	MAX	MIN			
BG2450	2440×5000	300×150	5-19	152	≥630
BG2460	2440×6000	300×150	5-19	181	≥800
BG2650	2600×5000	330×150	5-19	162	≥700
BG2660	2600×6000	330×150	5-19	195	≥850
BG2850	2800×5000	330×150	5-19	173	≥800
BG2860	2800×6000	330×150	5-19	205	≥900
BG3080	3000×8000	350×200	5-19	290	≥1200
BG3380	3300×8000	350×200	5-19	320	≥1350

主要应用：大规格建筑玻璃，家居装饰，外墙天窗玻璃等。

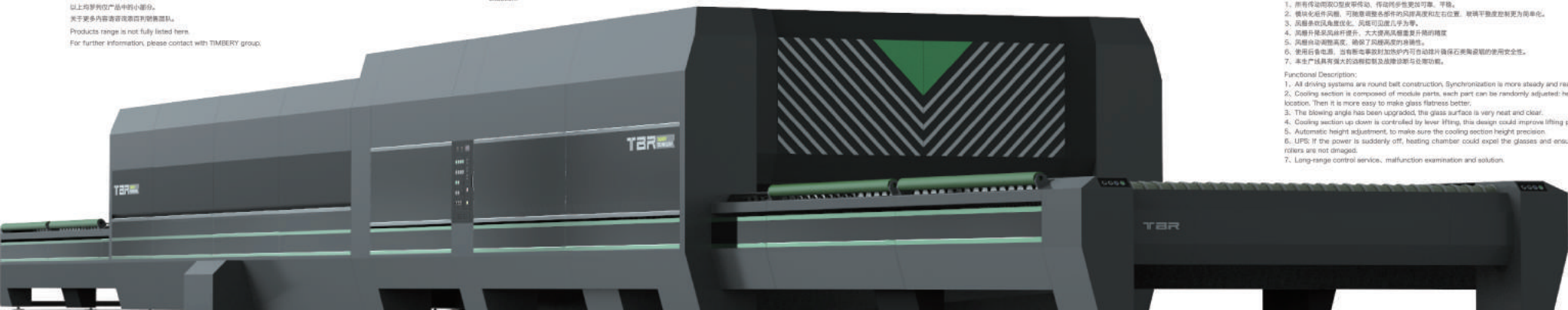
Application: High grade instrumentation, electrical appliances, interiors decoration, solar glass, etc.

功能描述：

- 1、所有传动带均采用皮带传动，传动同步更加可靠、平稳。
- 2、模块化组件问题，可随意调整各部件的风扇高度和左右位置，玻璃平整度控制更为简单化。
- 3、风幕垂直风角度优化，风幕可垂直几乎为零。
- 4、风幕升降采用丝杆提升，大大提升风幕垂直升降的精度。
- 5、风幕自动调整高度，确保了风幕高度的精确性。
- 6、使用后备电源，当有断电事故时加热炉内可自动提升风幕避免玻璃的使用安全性。
- 7、本生产线具有强大的远程控制及故障诊断及故障排除与处理功能。

Functional Description:

- 1、All driving systems are round belt construction, Synchronization is more steady and reliable.
- 2、Cooling section is composed of module parts, each part can be randomly adjusted: height, left/right location, then it is more easy to make glass flatness better.
- 3、The blowing angle has been upgraded, the glass surface is very neat and clear.
- 4、Cooling section up/down is controlled by lever lifting, this design could improve lifting precision.
- 5、Automatic height adjustment, to make sure the cooling section height precision.
- 6、UPS: If the power is suddenly off, heating chamber could expel the glasses and ensure the ceramic rollers are not damaged.
- 7、Long-range control service, malfunction examination and solution.



Radiation Flat Glass Tempering Furnace 辐射型平玻璃钢化生产线

► 技术特征 Characteristics

采用矩阵式辐射加热与热平衡结合的加热方式，能有效提高炉内的加热均匀性及提高加热的速度，结合裸露式加热系统，能有效的减少热量的损耗，从而达到节能的效果。多点检测温控系统，确保炉内温度精确的控制，减少肩部温差过大造成的“炸炉”现象。各电机配备实时监控，如有故障能马上报警提醒。使用变频风机控制技术，结合获得专利的集风箱设计，以使玻璃冷却达到最佳效果，实现钢化过程的最低能耗。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装载率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。

以上均罗列在产品中的小部分，
关于更多内容请咨询售前售后销售团队。

Products range is not fully listed here.
For further information, please contact with TIMBERY group.

BG

开头型号
BG Serie

TK

炉内精准控温
Temperature Precious Control




FC

变频风机控制技术
Frequency Conversion Blower Design




The perfect combination of radiation heating and heating balance can uniform the heating of chamber and shorten heating time. Heating system without cover can reduce heating loss, achieve the goal of saving energy. Multi-point temperature detecting system ensure precision temperature control, reduce glass breakage in chamber because of excessive temperature differentials. All motors have real-time monitoring if any wrong will alarm. Combining controlling technique of blower with frequency inverter & collect air box patented, make glass cooling achieve the best effect, get the lowest energy consumption.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors. It is depend on actual situation.

► 技术参数 Technical parameter

Model 型号	MAX	MIN			
BG2036	2000×3660	300×100	5-19	91	≥450
BG2050	2000×5000	300×100	5-19	124	≥550
BG2436	2440×3660	300×150	5-19	110	≥500
BG2442	2440×4200	300×150	5-19	128	≥550

主要应用：建筑、卫浴、电器、家具玻璃等。
Application: furniture, decorative architecture, building laminated glass, ect.

Model 型号	MAX	MIN			
BG2450	2440×5000	300×150	5-19	152	≥630
BG2460	2440×6000	300×150	5-19	181	≥800
BG2650	2600×5000	330×150	5-19	162	≥700
BG2660	2600×6000	330×150	5-19	195	≥850
BG2850	2800×5000	330×150	5-19	173	≥800
BG2860	2800×6000	330×150	5-19	205	≥900
BG3080	3000×8000	350×200	5-19	290	≥1200
BG3380	3300×8000	350×200	5-19	320	≥1350

主要应用：高档建筑玻璃、家居装饰、外饰夹层玻璃等。
Application: High grade instrumentation, electrical appliances, interiors decoration, solar glass, etc.






Swon Series Flat Glass Tempering Furnace With Pass Section 玄武通过型平玻璃钢化生产线

技术特征 Characteristics

对于薄玻璃的钢化，采用最新研发的通过式高压风压，取得明显的节能效果，同时使钢化玻璃的平整度和光学效果得到有效的保证。采用矩阵式辐射加热与热平衡结合的加热方式，能有效的提高炉内的加热均匀性以及提高加热的速度，结合裸露式加热系统，能有效的减少热量的损耗，从而达到节能的效果。使用变频风机控制技术，结合获得专利的集风箱设计，以使玻璃冷却达到最佳效果，实现钢化过程的最低能耗。强大的控制系统确保高度自动化生产，人机界面友好，操作简单易学，数据安全可靠。高精度，实时相应快，低干扰等优势实现对各环节的精确控制。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装瓶率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。

技术参数 Technical parameter

Model 型号	MAX	MIN		 min/h	 KVA
TG0220	250×2000	40×40	2.85-8	6	≥70
TG0932	900×3200	130×60	2.85-12	36	≥250
TG1240	1250×4000	180×100	2.85-19	63	≥350
TG1550	1500×5000	220×150	2.85-19	93	≥480
TG2050	2000×5000	300×100	4-19	124	≥550
TG2442	2440×4200	300×150	4-19	128	≥550
TG2450	2440×5000	300×150	4-19	152	≥630
TG2460	2440×6000	300×150	4-19	181	≥800
TG2660	2600×6000	330×150	4-19	195	≥850
TG2860	2800×6000	330×150	4-19	205	≥900

主要应用：高档仪表、太阳能、灯罩等高精度和超小规格玻璃，建筑玻璃，家居装饰，外楼幕墙玻璃等。
High grade instrumentation, electrical appliances, interiors decoration, solar glass, furniture, decorative, architecture, building laminated glass etc.

Adopt the latest high pressure pass quenching section for 2.85-4mm glass tempering, which owns outstanding energy-saving features. Furthermore, it can achieve the best performance for graininess, flatness and optical effects. The perfect combination of radiation heating and heating balance can uniform the heating of chamber and shorten heating time. Heating system without cover can reduce heating loss, achieve the goal of saving energy. Combining controlling technique of blower with inverter & collect air box patented, make glass cooling achieve the best effect, get the lowest energy consumption. Powerful control system ensure automated production, friendly man-machine interface, convenient operation, and data security and reliability. Every step be controlled accurately by high precision, real time response and low interference system.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors. It is depend on actual situation.

Application: High quality thin glass of large batch production appliances, lamp glass, industrial instrumentation, etc.

功能说明:

1. 所有传动采用O型皮带传动，传动同步性更加可靠，平整。
2. 钢化出炉件风压，可根据调整各部件的风压高度和左右位置，玻璃平整度控制更为精准。
3. 风压系统风压角度优化，风压可见度几乎为零。
4. 风压升降采用风压杆提升，大大减少风压垂直升降的精度。
5. 风压自动调整系统，确保了风压高度的准确性。
6. 使用自备电源，当有断电现象时加热炉内可自动停止使玻璃石其有足够的使用安全。
7. 本生产线具有强大的远程控制及故障诊断与处理功能。

以上为系列化产品中的小部分。

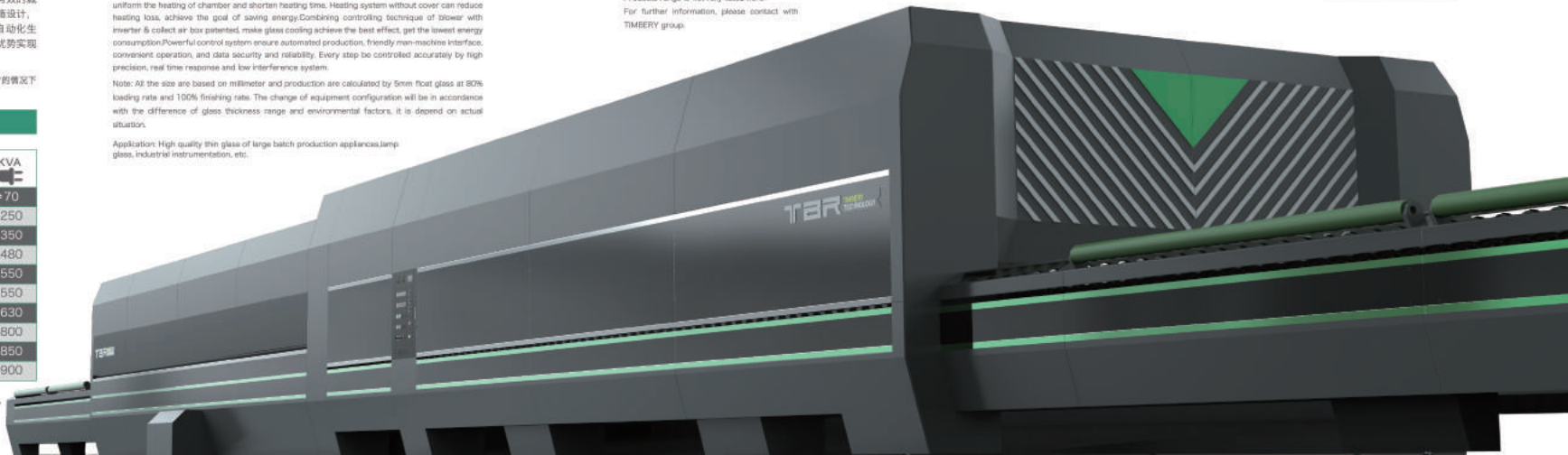
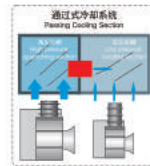
关于更多内容请咨询销售工程师。

Products range is not fully listed here.

For further information, please contact with TIMEERY group.

Functional Description:

1. All driving systems are round belt construction. Synchronization is more steady and reliable.
2. Cooling section is composed of module parts, each part can be randomly adjusted height, left/right location. Then it is more easy to make glass flatness better.
3. The blowing angle has been upgraded, the glass surface is very neat and clear.
4. Cooling section up/down is controlled by lever lifting, this design could improve lifting precision.
5. Automatic height adjustment, to make sure the cooling section height precision.
6. UPS: if the power is suddenly off, heating chamber could expel the glasses and ensure the ceramic rollers are not damaged.
7. Long-range control service, malfunction examination and solution.



Flat Glass Tempering Furnace With Pass Section 通过型平玻璃钢化生产线

► 技术特征 Characteristics

对于薄玻璃的钢化，采用最新研发的通过式高压风槽，取得明显的节能效果，同时使钢化玻璃的平整度、平整度和光学效果得到有效的保证。采用矩阵式辐射加热与热平衡结合的加热方式，能有效的提高炉内的加热均匀性以及提高加热的速度。结合裸露式加热系统，能有效的减少热量的损耗，从而达到节能的效果。使用变频风机控制技术，结合获得专利的集风箱设计，以使玻璃冷却达到最佳效果，实现钢化过程的最低能耗。强大的控制系统确保高度自动化生产，人机界面友好，操作简单易学，数据安全可靠。高精度，实时相应快，低干扰等优势实现对各环节的精确控制。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装瓶率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类、环境温度均会引起设备配置变化，具体以实际情况为准。

以上为罗列产品中的一部分，
关于更多内容请咨询或访问销售网站。
Products range is not fully listed here.
For further information, please contact with
TMDERY group.

TG

开头型号
TG Serial



高压风槽
High Pressure Pass Quenching



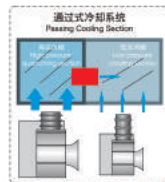
变频风机控制技术
Frequency Conversion Blower Design

Adopt the latest high pressure pass quenching section for 2.85-4mm glass tempering, which owns outstanding energy-saving feature. Furthermore, it can achieve the best performance for flatness, flatness and optical effects. The perfect combination of radiation heating and heating balance can uniform the heating of chamber and shorten heating time. Heating system without cover can reduce heating loss, achieve the goal of saving energy. Combining controlling technique of blower with inverter & collect air box patented, make glass cooling achieve the best effect, get the lowest energy consumption. Powerful control system ensure automated production, friendly man-machine interface, convenient operation, and data security and reliability. Every step be controlled accurately by high precision, real time response and low interference system.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

► 技术参数 Technical parameter

Model 型号	MAX	MIN			
TG0220	250 × 2000	40 × 40	2.85-8	6	≥ 70
TG0932	900 × 3200	130 × 60	2.85-12	36	≥ 250
TG1240	1250 × 4000	180 × 100	2.85-19	63	≥ 350
TG1550	1500 × 5000	220 × 150	2.85-19	93	≥ 480
TG2050	2000 × 5000	300 × 100	4-19	124	≥ 550
TG2442	2440 × 4200	300 × 150	4-19	128	≥ 550
TG2450	2440 × 5000	300 × 150	4-19	152	≥ 630
TG2460	2440 × 6000	300 × 150	4-19	181	≥ 800
TG2660	2600 × 6000	330 × 150	4-19	195	≥ 850
TG2860	2800 × 6000	330 × 150	4-19	205	≥ 900



主要应用：高级仪表、太阳能、灯饰家电等超薄型超小规格玻璃，建筑玻璃，家居装饰，外墙夹胶玻璃等。
High grade instrumentation, electrical appliances, interiors decoration, solar glass, furniture, decorative, architecture, building laminated glass, etc.



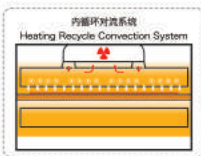
Swon Series Flat Glass Tempering Furnace with Blower Motor Convection & Pass Section

玄武风机对流型平玻璃钢化生产线

技术特征 Characteristics

结合辐射加热与上部对流强制加热。通过耐高温对流风机和不锈钢对流管道，使高温气流垂直喷向玻璃表面，实现快速、均匀的加热玻璃。采用内循环对流结构，不会造成热量损失，有效节约能源。上护体高温板内衬板能有效固定保温材料，能降低炉内尘埃的数量。对于薄玻璃的钢化，采用最新研发的通过式高压风箱，取得明显的节能效果。同时使钢化玻璃的颗粒度、平整度和光学效果得到有效的保证。强大的控制系统确保高度自动化生产。人机界面友好，操作简单易学，数据安全可靠。高精度、实时相应快、低干扰等优势实现对各环节的精确控制。

注：表中尺寸均为mm单位。产量按5mm普通浮法白玻80%的装瓶率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类、环境变化均会引起设备配置变化，具体以实际情况为准。



以上为系列产品中的一部分，
关于更多内容请咨询德信机械集团。

Products range is not fully listed here.
For further information, please contact with TIMBERLY group.

Metric radiation heating combined with upper forced convection, equip with high temperature resistance convection fan and stainless air pipe, hot-air spray to the surface of glass vertically, speed up the heating for glass evenly. Internal recycle construction will not cause heat loss for energy-saving. Inner shielding structure of upper part heating chamber could effectively fix thermal insulation and reduce quantity of the dust inside chamber. Adopt the latest high pressure pass quenching section for 2.85-4mm glass tempering, which owns outstanding energy-saving feature. Furthermore, it can achieve the best performance for graininess, flatness and optical effects. Powerful control system ensure automated production, friendly man-machine interface, convenient operation, and data security and reliability. Every step be controlled accurately by high precision, real time response and low interference system.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

技术参数 Technical parameter

Model 型号	MAX	MIN			
TG2442-A	2440 × 4200	300 × 150	4-19	140	≥550
TG2450-A	2440 × 5000	300 × 150	4-19	166	≥630
TG2460-A	2440 × 6000	300 × 150	4-19	195	≥800
TG2650-A	2600 × 5000	330 × 150	4-19	178	≥700
TG2660-A	2600 × 6000	330 × 150	4-19	208	≥850
TG2850-A	2800 × 5000	330 × 150	4-19	190	≥800
TG2860-A	2800 × 6000	330 × 150	4-19	223	≥900
TG3080-A	3000 × 8000	350 × 200	5-19	313	≥1200
TG3380-A	3300 × 8000	350 × 200	5-19	345	≥1350

主要应用：石蜡、高温单丝、深罩Low-E玻璃、高铁仪器、太阳能、灯管等中等超薄超薄小规格玻璃，太阳能建筑玻璃，幕墙玻璃，外窗夹胶玻璃等。

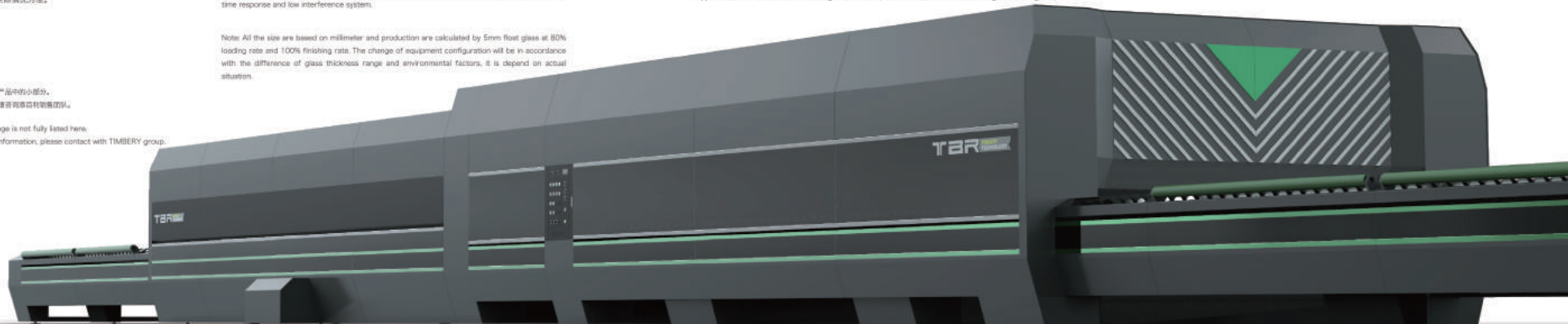
Application: On-line, off-line single silver and double silver Low-E glass, high grade instrumentation, electrical appliances, interiors decoration, solar glass, furniture, decorative architecture, building laminated glass etc.

功能说明：

- 1、所有传动带采用C型皮带传动，传动同步更加可靠、平稳。
- 2、钢化炉炉内风道，可根据玻璃各部分的吹风高度和左右位置，实现平整度控制更为简单化。
- 3、风道吹风角度优化，风压可调节几乎为零。
- 4、风道升降采用丝杆提升，大大提升风道垂直升降的精度。
- 5、风道自动调整风压，确保了风道高度的精确性。
- 6、使用后备电源，当有新电事故时风道炉内可自动停转并确保石英陶瓷管的使用寿命。
- 7、本生产线具有强大的远程诊断及故障诊断与处理功能。

Functional Description:

1. All driving systems are round belt construction, Synchronization is more steady and reliable.
2. Cooling section is composed of module parts, each part can be randomly adjusted height, left/right location. Then it is more easy to make glass flatness better.
3. The blowing angle has been upgraded, the glass surface is very neat and clear.
4. Cooling section up down is controlled by lever lifting, this design could improve lifting precision.
5. Automatic height adjustment, to make sure the cooling section height precision.
6. UPS: if the power is suddenly off, heating chamber could expel the glasses and ensure the ceramic rotors are not damaged.
7. Long-range control service, malfunction examination and solution.



Flat Glass Tempering Furnace with Blower Motor Convection & Pass Section 风机对流型平玻璃钢化生产线

► 技术特征 Characteristics

结合辐射加热与上部对流强制加热，通过耐高温对流风机和不锈钢对流管道，使高温气流垂直向玻璃表面，实现快速、均匀的加热玻璃。采用内循环对流结构，不会造成热量损失，有效节能。上部高铝板内衬板能有效固定保温材料，降低炉内尘埃的数量。对于薄玻璃的钢化，采用最新研发的通过式高压风圈，取得明显的节能效果，同时使钢化玻璃的颗粒度、平整度和光学效果得到有效的保证。强大的控制系统确保高度自动化生产，人机界面友好，操作而简单易学，数据安全可靠。高精度，实时响应快，低干扰等优势实现对各环节的精确控制。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装箱率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。

Metals radiation heating combined with upper forced convection, equip with high temperature resistance convection fan and stainless air pipe, hot-air spray to the surface of glass vertically, speed up the heating for glass evenly. Internal recycle construction will not cause heat loss for energy-saving. Inner cladding structure of upper part heating chamber could effectively fix thermal insulation and reduce quantity of the dust inside chamber. Adopt the latest high pressure pass quenching section for 2.85-4mm glass tempering, which owns outstanding energy-saving feature. Furthermore, it can achieve the best performance for graininess, flatness and optical effects. Powerful control system ensure automated production, friendly man-machine interface, convenient operation, and data security and reliability. Every step be controlled accurately by high precision, real time response and low interference system.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.



高压风圈
High Pressure Pass Quenching



精准控制
Controlled Accurately



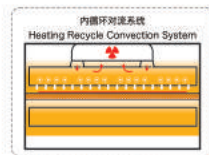
均匀加热
Uniform heating

► 技术参数 Technical parameter

Model 型号	MAX	MIN			
			m³/h	min/h	
TG2442-A	2440 × 4200	300 × 150	4-19	140	≥550
TG2450-A	2440 × 5000	300 × 150	4-19	166	≥630
TG2460-A	2440 × 6000	300 × 150	4-19	195	≥800
TG2650-A	2600 × 5000	330 × 150	4-19	178	≥700
TG2660-A	2600 × 6000	330 × 150	4-19	208	≥850
TG2850-A	2800 × 5000	330 × 150	4-19	190	≥800
TG2860-A	2800 × 6000	330 × 150	4-19	223	≥900
TG3080-A	3000 × 8000	350 × 200	5-19	313	≥1200
TG3380-A	3300 × 8000	350 × 200	5-19	345	≥1350

Application: On-line, off-line single silver and double silver Low-E glass, high grade instrumentation, electrical appliances, interiors decoration, solar glass, furniture, decorative architecture, building laminated glass etc.

主要应用：在线、离线单层、双银Low-E玻璃，高级仪表，太阳能，灯饰家电等超薄型超小规格玻璃，大楼玻璃幕墙，家居装饰，外境夹胶玻璃等。



以上为罗列仅产品中的小部分，
关于更多内容请咨询各当地销售经理。

Products range is not fully listed here.
For further information, please contact with
TIMBERY group.



Swon Series Flat Glass Double Heating Chamber Tempering Furnace

玄武双室炉型玻璃钢化生产线

技术特征 Characteristics

两个依次布置的加热区域，可以根据工艺要求，灵活配置加热方式，避免了玻璃在加热过程中由于玻璃温度与加热炉的相差太大造成的变形，钢化后的玻璃更平整。双室炉设计能有效的缩短加热周期，产能是传统单室炉的1.5-1.8倍。采用较低的工作温度能减少进炉后玻璃的“炸炉”与“炸角”等不良反应，减少破损率。可明显的减少光学变形、球面弯曲、麻点等各种钢化玻璃质量缺陷，保证玻璃钢化质量。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装载率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类、环境温度均会引起设备配置变化，具体以实际情况为准。




以上均罗列在产品中的小部分。
关于更多内容请致电咨询销售团队。

Products range is not fully listed here.
For further information, please contact with TIMBERY group.

Double heating chamber can according technological requirements allowing you full flexibility in configuring your heating type, improve the flatness of the glass surface. Double heating design can shorten heating time so it is high production efficiency, 1.5-1.8 times compares to traditional single chamber tempering furnace. The use of lower temperature entry of furnace decrease the bad reaction such as "break in heating chamber" and "break because of drilling", so breakage can be reduced. Glass quality defects such as Optical distortion, bending spherical, pitting were decreased evidently, ensure glass tempered quality.

Note: All the size are based on millimeter and production are calculated by firm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

技术参数 Technical parameter

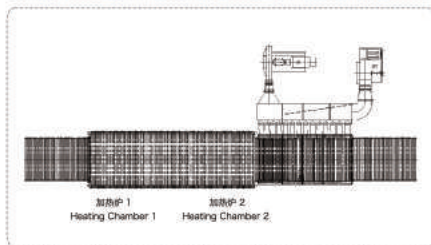
Model 型号	MAX	MIN			
TG0932-2	900 × 3200	130 × 60	2.85-12	65	≥500
TG1240-2	1250 × 4000	180 × 100	2.85-19	113	≥700
TG1550-2	1500 × 5000	220 × 150	2.85-19	168	≥900
TG1655-2	1650 × 5500	230 × 150	2.85-19	203	≥1100
TG1680-2	1650 × 8000	230 × 150	2.85-19	285	≥1100
TG2050-2	2000 × 5000	250 × 100	4-19	230	≥1000
TG2442-2	2440 × 4200	300 × 150	4-19	230	≥1000
TG2450-2	2440 × 5000	300 × 150	4-19	270	≥1250
TG2460-2	2440 × 6000	300 × 150	4-19	310	≥1600

Application: High grade instrumentation, electrical appliances, interiors decoration, solar glass, furniture, decorative architecture, building laminated glass big size glass, etc.

主要应用：高级仪器、太阳能、灯管等中小规格玻璃、建筑玻璃、家居装饰、光伏玻璃等超大规格钢化玻璃。

功能特点：

1. 所有传动均采用O型皮带传动，传动同步性更加可靠，平稳。
2. 模块化组件供能，可根据调整各组件的风速高度和左右位置，玻璃平整度控制更为简单化。
3. 风栅垂直风角度优化，风栅可见度几乎为零。
4. 风栅升降采用丝杆提升，大大提高风栅垂直升降的精度。
5. 风栅垂直调整高度，确保了风栅高度的精确性。
6. 使用防漏电罩，当有触电事故发生时炉内可自动弹出确保操作人员使用安全性。
7. 本生产线具有强大的远程控制及故障诊断与处理功能。



Functional Description:

1. All driving systems are built rigid construction. Synchronization is more steady and reliable.
2. Cooling section is composed of module parts, each part can be randomly adjusted height, left/right location. Then it is more easy to make glass flatness better.
3. The blowing angle has been upgraded, the glass surface is very neat and clear.
4. Cooling section up down is controlled by lever lifting, this design could improve lifting precision.
5. Automatic height adjustment, to make sure the cooling section height precision.
6. LPS: If the power is suddenly off, heating chamber could expel the glasses and ensure the ceramic rollers are not damaged.
7. Long-range control services, malfunction examination and solution.

Swon Series Flat & Bending Glass Tempering Furnace 玄武平弯型玻璃钢化生产线

技术特征 Characteristics

采用辊道铺压成型技术，上下辊道同步成型，玻璃弧线更加圆滑。电脑自动调弧功能，使变弧更方便省时。可选液压驱动系统，使弧形更顺滑精确。采用精密数控机床加工部件，确保成型精度可靠。变弧结构由多组变弧装置组成，单个变弧装置不仅可主动变弧，而且设有单独微调结构，成型精度高，适合高品质弯钢化玻璃。

注：表中尺寸均为mm单位，产量按照5mm普通浮法日破80%的装载率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。






以上均罗列平弯型产品系列中的小型号，
关于更多内容请联系原厂销售团队。

Adopt synchronous processing forming way technology on bend section, which can make sure the accurate and smooth shape of bend tempered glass. quality bend tempered glass. Automatic bending system offering easy operation. Hydraulic pressure driving system ensure glass bending stable and accurate. Precision CNC processed components guarantee the bending accuracy. Multi-group bending mechanisms, each one can center by itself, and also can be slightly adjusted separately, providing a higher accuracy curvature and meet the requirement of high quality bend tempered glass.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

Products range is not fully listed here.
For further information, please contact with TIMBERY group.

技术参数 Technical parameter

Model 型号	Flat Glass 平钢				Bend Glass 弯钢					Power KVA
	MAX	MIN			MAX	MIN				
HWTG1250-10+3	1250×4000	180×100	2.85-19	113	1250×1000	350×350	3.2-8	500	45	≥400
HWTG2050-10+3	2000×5000	300×100	4-19	124	2000×1000	350×350	4-15	500	45	≥550
HWTG2050-08+4	2000×5000	300×100	4-19	124	2000×800	350×350	4-15	450	60	≥550
HWTG2442-10+3	2440×4200	300×150	4-19	128	2440×1000	350×350	4-15	500	45	≥550
HWTG2450-12+3	2440×5000	300×150	4-19	152	2440×1200	350×350	5-15	600	45	≥630
HWTG2460-15+3	2440×6000	300×150	4-19	181	2440×1500	400×400	5-15	700	45	≥800
HWTG2460-18+2	2440×6000	300×150	4-19	181	2440×1800	400×400	5-15	800	30	≥900
HWTG2860-25+2	2800×6000	330×150	4-19	205	2440×2500	700×700	6-15	1500	26	≥900
HWTG3060-20+2	3000×6000	330×150	5-19	216	2440×2000	500×500	6-15	1000	26	≥1000

Application: Furniture, shower glass, interior decorations, electrical appliance, architectural curve glass, automotive side window, etc.

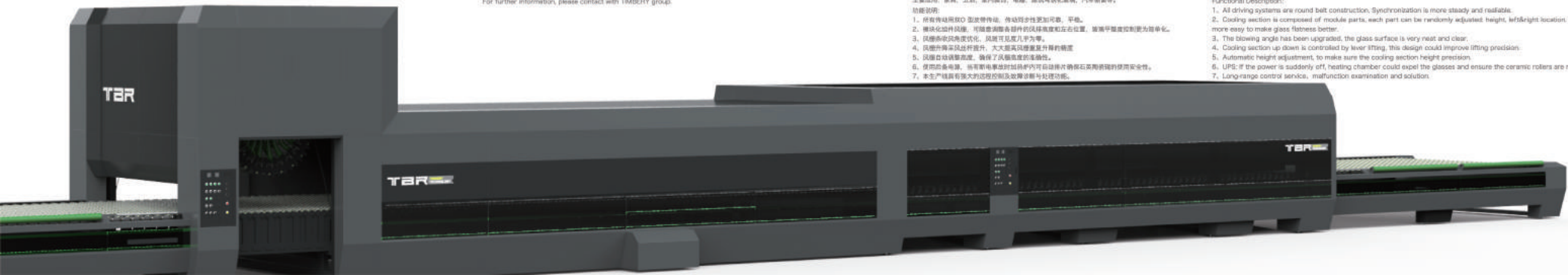
主要应用：家具，卫浴，室内装饰，电器，建筑弯钢化玻璃，汽车侧窗等。

功能说明：

1. 所有传动用双O型密封件，传动同步性更加可靠、平稳。
2. 模块化设计风箱，可根据风箱部件的风压高度和左右位置，实现单独控制更为简单化。
3. 风箱采用大角度设计，风压可见度几乎为零。
4. 风压升降采用丝杆提升，大大提升风压垂直升降的精度。
5. 风压自动调整功能，确保了风压高度的精确性。
6. 备用电源，当有新电事故时随时启动可以及时确保石英玻璃的正常使用安全。
7. 本生产线具有强大的故障诊断及报警诊断与处理功能。

Functional Description:

1. All driving systems are round belt construction, Synchronization is more steady and reliable.
2. Cooling section is composed of module parts, each part can be randomly adjusted height, left/right location. Then it is more easy to make glass flatness better.
3. The blowing angle has been upgraded, the glass surface is very neat and clear.
4. Cooling section up down is controlled by lever lifting, this design could improve lifting precision.
5. Automatic height adjustment, to make sure the cooling section height precision.
6. UPS: if the power is suddenly off, heating chamber could expel the glasses and ensure the ceramic rollers are not damaged.
7. Long-range control services, malfunction examination and solution.



Bending Glass Tempering Furnace

弯玻璃钢化生产线

▶ 横弯型玻璃钢化生产线系列参数表

Parameter of hard bending glass tempering furnace






Model 型号	MAX	MIN					
HW1210+3	1250 × 1000	350 × 350	3-2-8	500	45	≥400	
HW2010+4	2000 × 1000	350 × 350	4-1-5	500	60	≥550	
HW2415+2	2440 × 1500	350 × 350	5-1-5	700	30	≥500	
HW2425+2	2440 × 2500	700 × 700	6-1-5	1500	26	≥700	

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装瓶率，在100%成品率连续生产的情况下计算。玻璃厚度增加以及种类、环境变化均会引起设备配置变化，具体以实际情况为准。

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

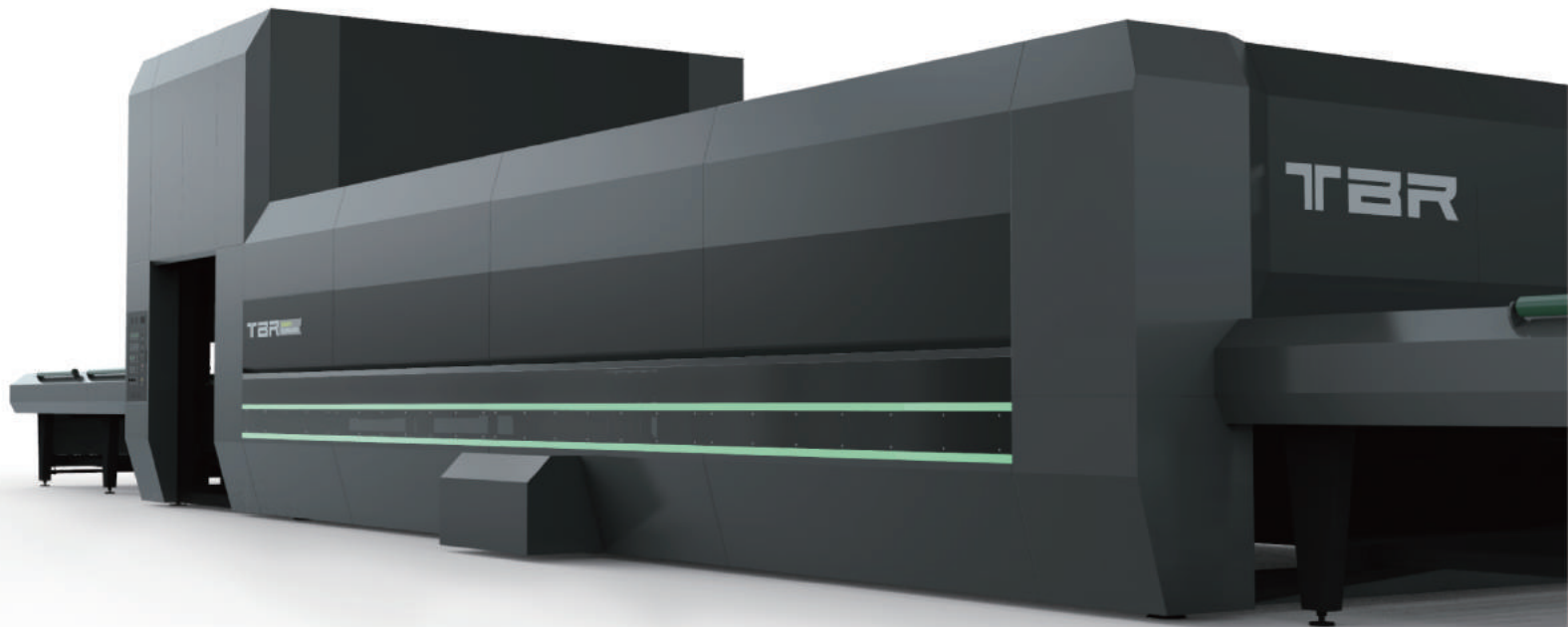
▶ 纵弯型玻璃钢化生产线系列参数表

Parameter of soft bending glass tempering furnace

Model 型号	MAX	MIN					
YZW1220	1250 × 2000	1000 × 800	5-8	230	14	≥300	
YZW2020	2000 × 2000	1000 × 800	6-8	230	12	≥350	
ZW2442	2440 × 4200	1000 × 1000	6-8	1200	12	≥550	
ZW2450	2440 × 5000	1000 × 1000	6-8	1200	12	≥630	

Products range is not fully listed here. For further information, please contact with TIMBERY group.

以上均罗列仅产品系列中的小部分，关于更多内容请咨询德百利数据团队。



Continuous Flat Glass Tempering Furnace 连续型平钢化玻璃生产线系列

► 技术特征 Characteristics

采用连续式传动及加热工艺，有效地减少玻璃与陶瓷辊表面地摩擦，提高加热均匀性。采用较低工作温度，避免了进炉后玻璃表面损伤。采用出炉状态检测技术确保出炉地安全。快速风阀开合系统能及时处理风阀内的紧急情况。

以上均罗列仅产品中的小部分。
关于更多内容请咨询我们销售团队。
Products range is not fully listed here.
For further information, please contact with
TIMBERY group.



开头型号
LG Serie





炉内精准控温
Temperature Precious Control



高压风阀
High Pressure Pass Quenching

Through adopting the continuous transmission and heating techniques LPG is able to reduce the friction between the surface of the glass and the surface of the ceramic rollers so that it can improve the heating uniformity. The use of lower temperature entry for the furnace avoids the breakage of the surface of the glass after the entry. The technique of testing the state of glasses' exit ensures the safety of the glasses' exit of the furnace. The emergency inside the flat quenching can be dealt in time because of the fast opening and closing system for it.

► 技术参数 Technical parameter

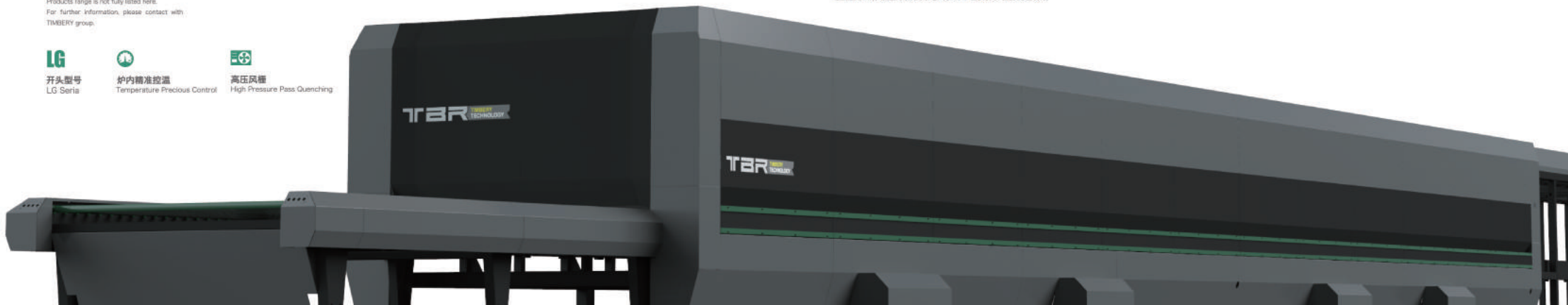
Model 型号	MAX	MIN			
LG0620	2000×600	150×100	2.85-6	158	≥1000
LG0925	2500×900	200×100	2.85-6	237	≥1250
LG1220	2000×1250	300×300	3-6	330	≥1600
LG1225	2500×1250	300×300	3-6	330	≥1600
LG1525	2500×1500	300×300	3.2-6	400	≥1800
LG1725	2500×1700	300×300	3.2-6	450	≥2000

Application: High quality thin glass of large batch production appliances, lamp glass, industrial instrumentation, etc.

主要应用：特大批量高级民用家电、灯饰、工业仪表等高品质薄型玻璃。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的载量率，在100%成品率连续生产的情况下计算。3-6mm玻璃采用连续式工艺生产，8-19mm采用摆动式工艺生产，玻璃厚度增减以及种类、环境温度变化均会引起设备配置变化，具体以实际情况为准。

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.



Flat Glass Tempering Furnace with Air Compression & Pass Section 压缩对流型平玻璃钢化生产线

► 技术特征 Characteristics

配有强制高压对流加热系统，采用管道对高压空气进行加热方式，有效利用炉室内闲置热源。通过高压对流提高玻璃表面的受热效率，提高玻璃受热效果的均匀性。热增强对流可有效降低能耗，可使用软低温生产高品质玻璃。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的装载率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类、环境变化均会引起设备配置变化，具体以实际情况为准。

Equipped with forced convection heating system, by use of warming high-pressure air to make effective use the spare heating air in chamber. Forced convection will improve the heating efficient on glass surface to get better heat uniformity. Strengthen heating and decrease power consumption, then low temperature could produce high quality glass.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

TG

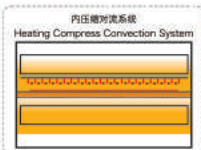
开头型号
TG-CA Serial



高压对流加热
Forced Convection Heating



热增强对流
Strengthen Heating



以上均罗列在产品中的小部分。
关于更多内容请咨询德能利德集团。

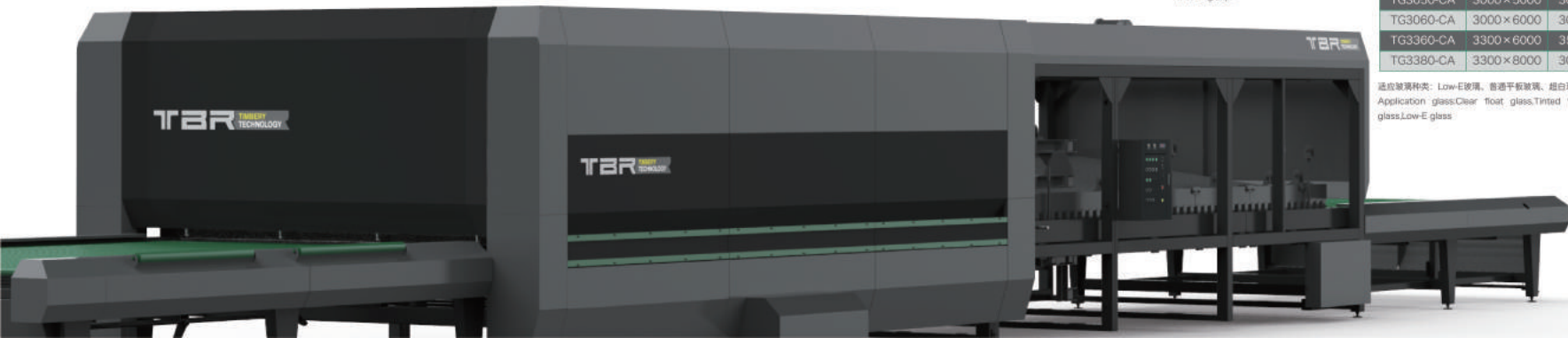
Products range is not fully listed here.
For further information, please contact with
TMBERY group.

► 技术参数 Technical parameter

Model 型号	MAX	MIN				
TG2436-CA	2440×3360	300×100	4-19	105	≥500	30KW
TG2442-CA	2440×4200	300×100	4-19	122	≥550	37KW
TG2450-CA	2440×5000	300×100	4-19	144	≥630	37KW
TG2460-CA	2440×6000	300×100	4-19	172	≥800	45KW
TG2650-CA	2600×5000	300×100	4-19	156	≥700	45KW
TG2660-CA	2600×6000	300×100	4-19	190	≥850	55KW
TG2850-CA	2800×5000	300×100	4-19	168	≥800	55KW
TG2860-CA	2800×6000	300×100	4-19	200	≥900	75KW
TG3050-CA	3000×5000	300×100	5-19	180	≥1000	75KW
TG3060-CA	3000×6000	300×100	5-19	216	≥1100	75KW
TG3360-CA	3300×6000	350×200	5-19	237	≥1200	75KW
TG3380-CA	3300×8000	300×200	5-19	316	≥1350	90KW

适应玻璃种类: Low-E玻璃、普通平板玻璃、超白玻璃、丝网印刷玻璃、压花玻璃、着色玻璃等。

Application glass: Clear float glass, Tinted float glass, Single side screen-printed glass, Figured glass, Normal flat glass, Low-E glass.



2mm small size glass tempering furnace 2mm小型玻璃钢化生产线

► 技术特征 Characteristics

采用高性能保温材料，最大程度避免热量流失，先进的温控技术，尽可能地降低电耗。特殊的专利高压风栅结构，配合压缩空气吹风，达到全物理钢化2mm薄玻璃的效果。解决了行业技术难题。高压风栅高压风冷技术，大大降低能耗和工作噪音。

注：表中尺寸均为mm单位，产量按照5mm普通浮法白玻80%的换算率，在100%成品率连续生产的情况下计算。玻璃厚度增减以及种类，环境变化均会引起设备配置变化，具体以实际情况为准。

High-performance material laid inside the furnace reduce the heat infiltration from inner furnace to the outside, then highly improve furnace heating insulation capacity. Power-saving capability is obviously because of its advanced temperature control technology. Unique high pressure cooling section patented design conjunction with air compression, 2mm ultrathin glass can be full tempered, solve the technical problems in 2mm physical full tempering. High pressure air from air compressor, lower energy consumption and noise.

Note: All the size are based on millimeter and production are calculated by 5mm float glass at 80% loading rate and 100% finishing rate. The change of equipment configuration will be in accordance with the difference of glass thickness range and environmental factors, it is depend on actual situation.

以上均罗列在产品中的小部分，
关于更多内容请咨询原厂和销售团队。

Products range is not fully listed here.
For further information, please contact with
T&E group.

STG

开头型号
STG Serial高压风栅
High Pressure Pass Quenching高压风冷技术
High Pressure Air

► 技术参数 Technical parameter

Model 型号	MAX	MIN		 m ² /h	 KVA
STG0220	200×2000	40×40	2-8	6	≥85
STG0320	300×2000	60×60	2-8	9	≥105
STG0620	600×2000	100×50	2-12	18	≥180
STG0920	900×2000	120×50	2-12	25	≥200
STG0930	900×3200	120×50	2-12	39	≥280

我司在2012年成功开发出2mm超薄玻璃钢化技术，并申请获得国家知识产权局发明专利授权。2014年该产品被认定为广东省高新技术产品。2015年1月份我司又成功研发出2mm超薄大版面玻璃全物理钢化技术，且生产的钢化玻璃抗弯强度和抗冲击强度更高，可作为安全玻璃广泛应用于太阳能、光伏、建筑和家电的各个领域，填补了行业的空白。

Our company has developed the 2mm ultrathin full tempered glass technology in 2012, and also we applied obtained the invention patent grant from State Intellectual Property Office. The product has identified as Guangdong-high-tech product in 2014. 2mm ultrathin large panel glass physical full tempered technology developed in Jan.2015, which has excellent effect in flexure strength and impact resistance. Applied to various fields of solar, photovoltaic, construction and household appliances which fills up the blank space in 2mm physical full tempered.

