

OUR JOURNEY

Southtech is founded in Guangdong China, and the first Glass Tempering line in South of China was successfully developed and put into use;

2002

2005

The research and development of the patent technology of super energy-saving grille quenching has successfully broken through the limit of 3.0mm tempered thickness;

The world's first research and development and application of compressed air convection system;

2008

2009

The continuous glass tempering line is launched and widely used in the pototvoltaic glass industry;

Southtech establish a branch in Wuhu city, Anhui Province;

2012

2015

The world's first 2.0mm glass large-format 2000*1000mm fully tempered tempering line launched;

Vortech convection system opens the era of high quality and high productivity of Low-e architectural glass;

The production line of high borosilicate 4.0 for 6mm safety fireproof tempered glass is fully put into use;

2019

2020

5mm large-format 4.0 high borosilicate fireproof glass was put into production and application.

Launched the third-generation Aeolux fan convection system to further improve Low-e glass product quality and energy-effects.

2021



COMPANY PROFILE



South Glass Technology Co.,Ltd founded in 2002, rooted in Guangdong. Through endless endeavor and innovation, the company has rapidly grown into a leading provider of glass processing technology solutions in the industry. In 2020, South Glass Technology Co., Ltd become one of TOP 500 industrial enterprise in Guangdong Province.

While seizing growth opportunities in emerging markets around the world, Southtech strives to enhance its core competitiveness in key technologies. At present, Southtech's highly recognized products are exported to more than 50 countries and regions, including the United States, Germany, Italy, Russia, and so on. Which create a consistent and reliable product experience for partners in different regions. On the other hand, Southtech builds a technology-driven innovation system and concentrates superior resources to build a global technology-based R&D system. Our R&D center is formed by the industry's top scientific research team and has a large number of proprietary intellectual property patented technologies that are widely used in energy conservation, environmental protection, material applications, and new structures. We dedicated to exploring the commercial value of innovative technologies and expect to match Southtech 's development strategy.

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SOUTHTECH Glass Tempering Solution

Define The Future

HONOR QUALIFICATION



Quality management system certification

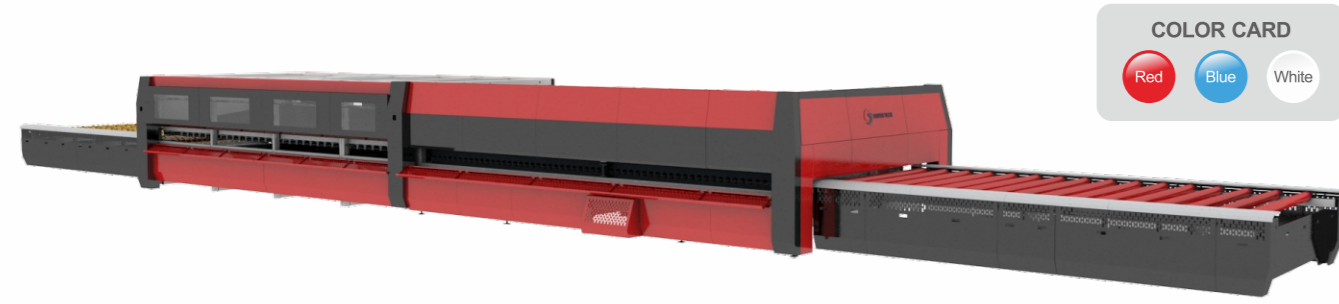


Utility model patent certificate

SALES NETWORK



CONSTRUCTION GLASS TEMPERING FURNACE



Technical Description

- Heating Design" is adopted for the heating system. Thermal radiation + convective heat transfer realizes the efficient production of Low-E glass;
- Unique design of heat recovery device to improve heat utilization efficiency;
- The fine design of convection air tubes ensures air collection effect and improves the efficiency of heat transfer;
- The high quality vortech blower with low energy consumption and quick repair design, the daily maintenance is fast and convenient;

Applicable Glass Types

Clear float glass, ultra-clear glass, silk screen printing glass, patterned glass, tinted glass, Low-E glass, etc.

Scope of application

High quality home appliance glass, decoration glass, curtain wall glass, Low-E glass, etc.

TECHNICAL PARAMETER

Model	Maximum Loading Area	Minimum Glass Size	Glass Thickness	Capacity	Running Power
TPG5020x4.0	5000mm x 2000mm	300mm x 300mm	4.0-19mm	≥19 batches/h	630 KW
TPG5024x4.0-2	5000mm x 2440mm	300mm x 300mm	4.0-19mm	≥25 batches/h	1250 KW
TPG6026x4.0-V	6000mm x 2650mm	300mm x 300mm	4.0-19mm	≥19 batches/h	980 KW
TPG7026x4.0-2S-V	7000mm x 2650mm	300mm x 300mm	4.0-19mm	≥23 batches/h	2050 KW
TPG6030x5.0-V	6000mm x 3000mm	350mm x 350mm	5.0-19mm	≥17 batches/h	1120 KW

* Forced convection system as an option

ADVANCED CONSTRUCTION GLASS TEMPERING FURNACE

Applicable Glass Types

Clear float glass, ultra-clear glass, high borosilicate glass, etc.

Scope of application

High quality decoration glass, curtain wall glass, etc.

TECHNICAL PARAMETER

Model	Maximum Loading Area	Minimum Glass Size	Glass Thickness	Capacity	Running Power
FTPG6020x4.0	6000mm x 2000mm	300mm x 300mm	4.0-19mm	≥18 batches/h	870 KW
FTPG6022x4.0	6000mm x 2200mm	300mm x 300mm	4.0-19mm	≥18 batches/h	960 KW

* Forced convection system as an option

SOLAR PANEL GLASS CONTINUAL TEMPERING FURNACE

Technical Description

- The multi heating zone design can shorten the heating cycle and ensure the ultra-high optical properties of tempered glass;
- The temperature zone from low temperature to high temperature, which can reduce the defects caused by temperature difference when glass enters the heating chamber;
- Multi acceleration mode: four independently driven acceleration zones can accelerate and decelerate synchronously. The glass position is automatically detected in the four heating zones for multiple synchronous acceleration to improve the glass quality;
- Quick opening and closing system of quenching and cooling section to help quickly handle the emergency problems in quenching and cooling section;
- The spacing of ceramic rollers is arranged at unequal intervals according to the thermal deformation of glass;

Applicable Glass Types

Clear float glass, ultra-clear glass, silk screen printing glass, patterned glass, tinted glass, etc.

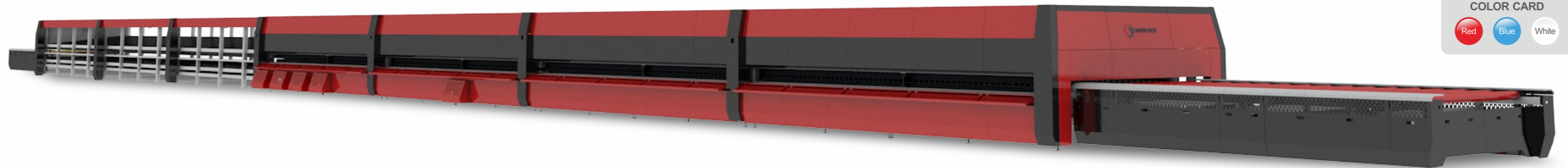
Scope of application

High quality solar panel glass.

TECHNICAL PARAMETER

Model	Maximum Glass Size	Heating Section Length	Glass Thickness	Capacity	Running Power
LPG2513x2.5-36	2500mm x 1300mm	36m	2.5-4mm	1050 m ² /h	3840 KW
LPG2514x2.5-42	2500mm x 1400mm	42m	2.5-4mm	1243 m ² /h	4240 KW
LPG2514x2.5-48	2500mm x 1400mm	48m	2.5-4mm	1432 m ² /h	4700 KW
LPG2514x2.5-54	2500mm x 1400mm	54m	2.5-4mm	1626 m ² /h	5140 KW
LPG2514x2.5-60	2500mm x 1400mm	60m	2.5-4mm	1814 m ² /h	5550 KW

* Forced convection system as an option



HOME APPLIANCE GLASS TEMPERING FURNACE

Technical Description

- MATRIX TYPE DIRECTLY HEATING SYSTEM which can improve the heating uniformity and speed inside the heating section, and provide the most convenience maintenance of heating elements.
- BLOWER FREQUENCY CONTROL TECHNOLOGY which can reduce high power capacity running time to achieve energy saving. ELECTRICITY POWER ADJUSTMENT TECHNOLOGY is SOUTHTECH self-developed temperature control system is equipped with high-precision temperature control module to achieve accurate temperature control of ±2°C.
- ALUMINUM SILICATE INSULATION BOARD WITH SIX SURFACE POLISHING TECHNOLOGY which is applying high quality insulation layer through scientific arrangement and six surface polishing technology, achieve thermal conductivity and heat storage capacity index is better, greatly improve the heat utilization efficiency and reduce heat loss.
- PASSING SECTION TECHNOLOGY which will separate tempering process and cooling process, so that can increase the thickness range of tempered glass and shorten tempering time.
- BLOWER ZERO FREQUENCY STANDBY MODE is that after finishing the tempering process, blowers will decelerate to zero speed for standby, reducing the energy consumption of the high-power blower to the minimum.
- SOUTHTECH ELECTRICITY POWER ADJUSTMENT TECHNOLOGY by adjusting the real-time ratio of electric energy between heating system and tempering system, the total electric energy of the system can be used by staggered peak, means heating and tempering will not run with full power at the same time, so the result is achieve lower energy consumption.

Applicable Glass Types

Clear float glass, ultra-clear glass, silk screen printing glass, patterned glass, tinted glass, etc.

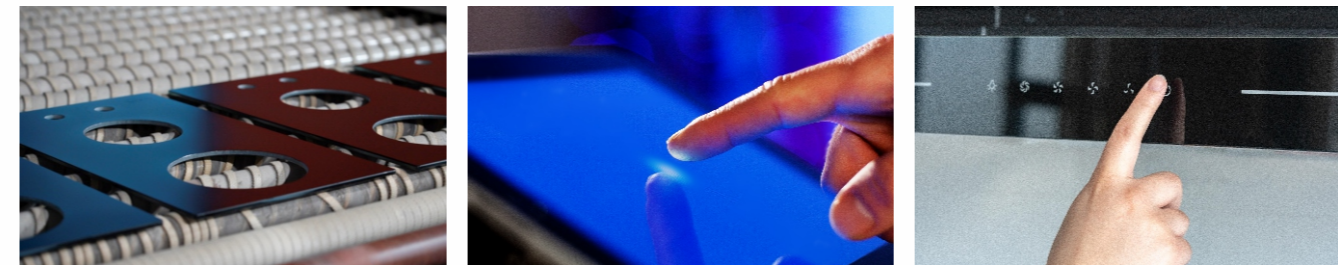
Scope of application

Electronic appliance glass, furniture glass.

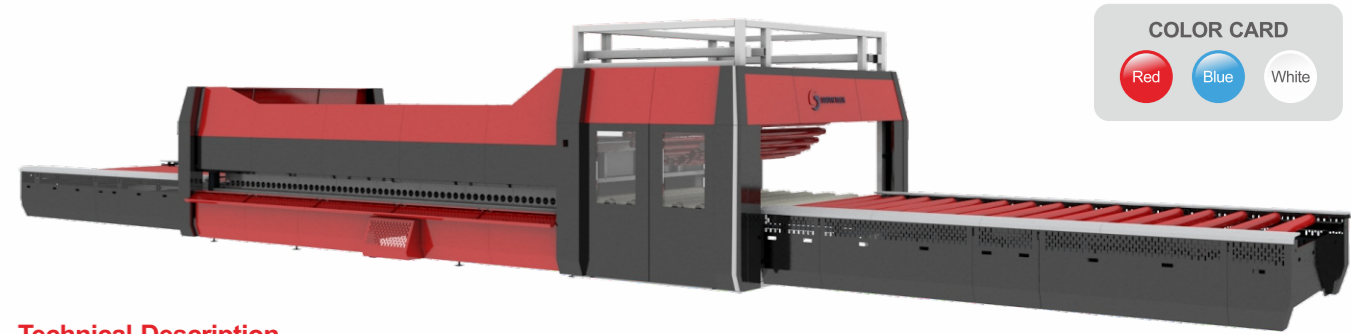
TECHNICAL PARAMETER

Model	Maximum Glass Size	Heating Section Length	Glass Thickness	Capacity	Running Power
LPG2010x2.85-18	2000mm x 1000mm	18m	2.5-4mm	349 m ² /h	1250 KW
LPG2012x2.85-21	2000mm x 1200mm	21m	2.5-4mm	503 m ² /h	1820 KW
LPG2513x2.85-24	2500mm x 1300mm	24m	2.5-4mm	652 m ² /h	2010 KW

* Forced convection system as an option



BEND GLASS TEMPERING FURNACE



Technical Description

- Advanced CNC processing bending structure, ensures accuracy of bending glass.
- Simple computer radius adjustment technology, can reduce more adjustment time.
- Unique compressed roller structure reduces the length of straight edges at both ends of the curved.
- Hydraulic drive system which can improve curve forming stability.
- With manual radius adjustment structure, can produce multi radius bend tempering glass.

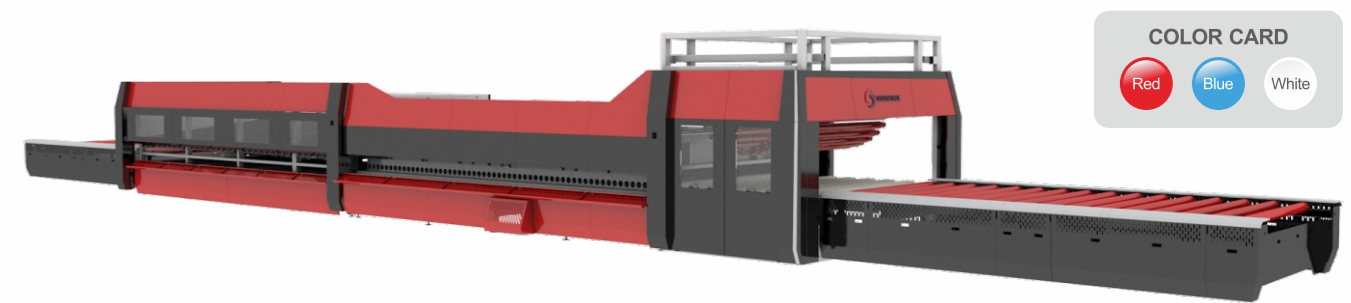
Scope of application

Home appliance glass, furniture glass, car side wind shield glass, shower room glass, architectre curtain-wall glass, kitchen ventilator, showcase glass, freezer glass, etc.

TECHNICAL PARAMETER

Model	Maximum Loading Area	Minimum Glass Size	Glass Thickness	Capacity	Running Power
HWG0813x3.2-3	800mm x 1300mm	350mm x 200mm	3.2-12mm	≥50 pieces/h	550 KW
HWG1524x5.0-2	1500mm x 2440mm	400mm x 400mm	5.0-12mm	≥27 pieces/h	770 KW
ZWG3624x6.0	3600mm x 2440mm	400mm x 400mm	6.0-12mm	≥12 pieces/h	680 KW

FLAT AND BEND GLASS TEMPERING FURNACE



TECHNICAL PARAMETER

Model	Bedding Maximum Loading Area	Minimum Glass Size	Bedding Glass Thickness	Capacity	Running Power
NTPWG50 13x3.2 +0x3.2	800mm x 1300mm	350mm x 200mm	3.2-12mm	≥50 pieces/h	550 KW
NTPWG50 24x4.0 +15x5.0	1500mm x 2440mm	400mm x 400mm	5.0-12mm	≥27 pieces/h	770 KW
NTPWG60 26x4.2 +20x5.0	2000mm x 2650mm	400mm x 400mm	5.0-12mm	≥27 pieces/h	950 KW

* Forced convection system as an option