



NorthGlass Official Website



NorthGlass Facebook

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NorthGlass Group: www.northglass.global

Tempering Furnace Division: tempering.northglass.global

Multilingual Website: www.north-glass.com

NorthGlass Stock Code: 002613

We continuously strive to upgrade product quality. Product specifications are subject to change without prior notice, and product images may not correspond to technical data exactly.

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NorthGlass • Tempering Furnace BU

World's Leading Supplier of Glass Processing Solutions & Processed Glass Products

A world map with a light gray background. A central point in China, marked with a red dot and labeled 'Wuhan', is the origin of numerous thin gray lines that radiate outwards to 100 different countries across all continents. Each country is labeled with its name in black text. The countries include: Norway, Scotland, Estonia, Denmark, Lithuania, Belarus, Russia, Kazakhstan, Mongolia, Korea, Japan, Canada, U.S.A., Mexico, Dominican, Venezuela, Brazil, Argentina, Chile, Paraguay, Peru, Colombia, Guatemala, Honduras, and many others. The map uses a light blue color for landmasses and a light gray color for the ocean. The lines connecting the countries to the central point are thin and gray, creating a dense web of connections that emphasizes the global reach of the outbreak's source.

Exported to over 115 countries and regions

After-sales service team of more than 150 employees

Annual production capacity of glass tempering furnaces exceeds 400 units

Over 1,000 employees in the Tempering Furnace BU

Total production and sales of more than 6,500 glass tempering furnaces

As NorthGlass's inaugural business unit, the Tempering Furnace BU has remained our core and largest business segment for over 30 years. Since 1995, we have produced and sold more than 6,500 glass tempering furnaces, which have been exported to over 115 countries and regions worldwide, including the USA, Germany, UK, France, Switzerland, Russia, Turkey, Japan, Australia, Korea, India, Egypt, etc. The division has a workforce of nearly 1,000 employees, with an annual production capacity over 400 glass tempering furnaces.

NorthGlass has repeatedly broken the dimensional limits of glass tempering processes, with our 8(bent edge)×4m curved tempering furnaces, 3.3×24m flat tempering furnaces, and 3.6(bent edge)×18m combined flat & curved tempering furnaces. Our continuous tempering furnaces maintain a leading market position, with cumulative sales of nearly 500 units. They offer distinct advantages in production capacity, energy efficiency, product quality and equipment stability, and are widely trusted by glass processing companies in the photovoltaic industry and other glass sectors.

Our core strengths lie in leading R&D capabilities for glass tempering processes, equipment design and manufacturing technologies, robust manufacturing bases, and a comprehensive global sales and after-sales service network. These strengths are also a strong guarantee for the efficient and stable operation of NorthGlass furnaces worldwide. A number of glass deep processing technologies developed by NorthGlass have been applied to many major landmark projects at home and abroad (refer to pages 23-26 for project cases and applicable furnaces).

Foreign Reference Customers



Domestic Reference Customers





Luoyang North Glass High-end Equipment Co., LTD. (This production base covers an area of 340,000m² with a building area of 220,000m²)

High-end Equipment Industrial Park "Wanli" VIP Building

Shanghai North Glass Technology Industrial Co., Ltd.

Tianjin North Glass Technology Industrial Co., Ltd.

Luoyang North Glass Triturbo Fan Technology Co., Ltd.

NorthGlass Technologies and products

Tempering Furnace

6500+ NorthGlass tempering furnaces in operation worldwide.

Triturbo Fan

100,000+ NorthGlass Triturbo Fans power efficient operations in high-speed rail and industrial applications.

Pre-processing Line for Glass Intelligent Processing Factory

300+ glass pre-processing lines, cutting machines and glass storage systems sold worldwide.

High-Efficiency Electric Kilns

Utilized in sanitary ware, architectural ceramics, foamed ceramics, cast glass, Light-Stone and other sectors.

Coating Line

30+ NorthGlass coating lines sold worldwide.

Processed Glass

Curtain wall glass integrated into landmark buildings worldwide.

Cast Glass

Redefining possibilities with 15 m² monolithic panels & continuous production.

Light-Stone — Lightweight Microcrystal Stone Unit Wall

With an annual output of 500,000 Light-Stone units for integrated wall systems, NorthGlass is pioneering the era of industrialized green construction.

About Us

Founded on May 18, 1995, by Chairman Mr.Xueming GAO, Luoyang NorthGlass Technology Co., Ltd. (NorthGlass) is a pioneer in the global glass industry. Headquartered in the Luoyang National High-Tech Industrial Development Zone, we specialize in the R&D, design, manufacturing and sales of glass processing equipment and value-added processed glass products. In 2011, NorthGlass was successfully listed on the Shenzhen Stock Exchange (Stock Code: 002613), further strengthening its global presence.

Our Family

Our growth strategy includes the establishment of several subsidiaries, each specializing in different facets of the glass industry. These include:

Shanghai North Glass technology industrial Co., LTD.

Shanghai North Glass Vacuum Coating Technology Co., LTD.

Luoyang North Glass Triturbo Fan Technology Co., LTD.

Tianjin North Glass Technology Industrial Co., LTD.

Shanghai North Glass Automation Technology Co., LTD.

Luoyang North Glass High-end Equipment Co., LTD.

Luoyang North Glass Cast Glass Co.,LTD.

Luoyang North Glass High-temperature Electric Kiln Co., Ltd.

Luoyang North Glass Top Glass Industrial Co., Ltd.

North Glass (Shanghai) Top Glass Industrial Co., Ltd.

Additionally, our strategic investment in Luoyang NorthGlass Light-Stone New Material Co., Ltd. underscores our commitment to diversification and innovation across the glass industry value chain.

Our Products

At NorthGlass, we adhere to the philosophy that "Innovation has no bounds, and success is rooted in perseverance". We have consistently developed industry-leading products that set new benchmarks for the sector. Our product portfolio covers glass tempering furnaces, coating lines and high-end deep-processed glass, setting new industry standards across automation, new materials and other key sectors. Our dedication to technological advancement also includes the development of automated glass processing lines, glass cutting equipment, glass storage systems and our innovative Triturbo Fan technology. Additionally, our strategic investment in nurturing the Light-Stone industry marks our foray into the modular green building materials market, demonstrating our leadership in environmental sustainability and technological innovation.

NorthGlass has cemented its leading position in the global glass industry through relentless innovation and superior manufacturing of advanced glass processing equipment. Our flat and curved glass tempering furnaces have maintained a leading market position for 24 consecutive years, with more than 6,500 units in operation worldwide. Our in-house developed coating lines have also become a mainstream solution for glass coating manufacturers worldwide. At the same time, NorthGlass Automation's intelligent factory solutions are being widely applied in various fields such as architecture, home appliances, solar energy, and shower glass, continuously empowering the intelligent upgrade of industries.

Our high-performance processed glass products form another core business pillar, adorning iconic architectural landmarks worldwide – including Google Bay View (USA), 2050 M Street (Washington, D.C., USA), Oracle Headquarters (Austin, USA), Azabudai Hills Mori JP Tower (Japan), the Leadenhall Building (UK), Abu Dhabi International Airport, New Performing Arts Venue (Brisbane, Australia). These landmarks also include China's national Olympic venues such as the Bird's Nest, the Water Cube and the Ice Ribbon, the National Centre for the Performing Arts (China), National Convention Center (China), Beijing Daxing International Airport (China), "Sun Valley" & "Shiliupu Pier" of EXPO 2010 Shanghai (China), Beijing Library (China), Shanghai Tower (China), Nike Shanghai 001 (China), XRL Topside West Kowloon (Hong Kong, China), Two Taikoo Place (Hong Kong, China), Huawei Global Flagship Store (China), OPPO Headquarters (China), as well as flagship stores of Hermès, Louis Vuitton, GUCCI among many other notable buildings. Furthermore, NorthGlass is proud to be one of the two primary architectural glass suppliers for a world-renowned technology company, providing glass for its global flagship stores and Silicon Valley headquarters. This underscores our global footprint and the trust placed in our products by prestigious clients.

Backed by a comprehensive domestic and international sales and service network, NorthGlass products are available nationwide and exported to more than 115 countries and regions, including the USA, UK, Germany, France, Japan, India, Brazil, Saudi Arabia, Egypt and Turkey.

Tempering Furnace Series



Top Series (T-Series)

Standard features include Super Symmetric Heating Technology and Intelligent Heating Control Technology based on real-time glass discharge temperature. The T-Series tempering furnace delivers ultra-high-quality tempered glass, enabling large-scale, efficient and stable production. It is an ideal choice for leading glass processing enterprises worldwide pursuing industrial upgrading.



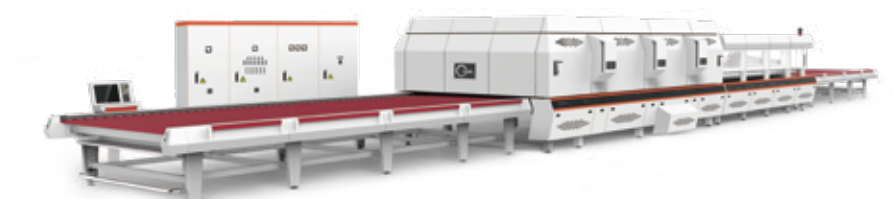
Advanced Series (A-Series)

Standard features include Advanced Gapless Forced Convection System, Intelligent Heating Control Module, Advanced Symmetric Heating Technology and Super Flat & Spotless Finish Technology. The A-Series tempering furnace can stably and efficiently temper most glass varieties with minimal deformation and low anisotropy. It is the optimal choice for glass processing enterprises pursuing high-quality glass as their core tempering furnace solution.



Standard Series (B-Series)

Standard features include the new NorthGlass Heating Temperature Control System, Standard Gapless Forced Convection System and Standard Symmetric Heating Technology. The B-Series tempering furnace significantly improves glass quality and production efficiency while reducing energy consumption. It is the most cost-effective choice for all types of glass processors.



Top Series (T-Series)

■ TG12B6025R

Optional Color



Intelligent Control of Glass Discharge Temperature®
A breakthrough in tempering furnace heating control. By monitoring the real-time temperature of glass in the heating chamber, the furnace precisely controls glass discharge temperature – reducing operational complexity, improving glass quality, yield and production capacity, while lowering energy consumption.



Precision Heating Control Zones
An ultra-fine, symmetric layout of heating control zones enables precise heating temperature control, facilitating the production of ultra-high-quality tempered glass.



Gapless Forced Convection Technology®
Fully optimized fan-driven forced convection system with densely arranged convection air distribution pipes installed at a longitudinal incline. This design ensures more uniform and rapid glass heating, delivering finished glass with superior optical performance and stress uniformity – ideal for high-quality large glass panels and Low-E curtain wall glass. The system features a simplified structure for easy maintenance.



Super Flat & Spotless Finish®
Eight-fold stepped & interlaced arrangement of upper and bottom air nozzles, plus NorthGlass's patented lateral swing of upper and bottom chillers, which bring the lighter and more even anisotropy for industry-leading quality worldwide.



Nano-Material Insulation
This new insulation material, co-developed by NorthGlass and research institutions, inhibits internal micro-convection, delivering superior thermal insulation and energy efficiency.



Rigid Roller Bending & Tempering Technology
Upper and lower rollers are curved to form a processing channel, ensuring glass is not subjected to excessive external force during forming. This enables the production of curved tempered glass with exceptional shape accuracy.



Intelligent Heating Control Module®
The independent Intelligent Heating Control Module, co-developed by NorthGlass and professional partners, enables precise and stable heating control with distinct advantages of agility, fast response and anti-interference.



Triturbo Fan
This new quenching fan features a 3D impeller designed with three-dimensional flow technology, achieving Grade 1 Energy Efficiency. It delivers superior energy-saving and noise-reducing performance (see page 13 for details).



Sub-station Control
Each segment is controlled by distributed I/O based on the Profinet field bus, enabling easy installation and maintenance as well as stable and reliable operation.



Concave / Convex Bending & Tempering Technology with Flexible Rollers®
The conveying and quenching table is equipped with flexible rollers, so the straight edge length of glass is not limited by the furnace width. Convex bending can be added to the standard concave bending function to meet diverse forming requirements.

Popular Furnace Models in International Market

Applications	Enterprise Scal	Common Model	Production capacity ¹	Production capacity ²	Rated power (kW)
Doors & Windows	Large Scale	TG-1E50	43-45	18-20	1550
		TG-1E70	43-45	18-20	2000
Architectural Curtain Wall	Large Scale	TG-1S60	43-45	18-20	2000
		TG-1S80	43-45	18-20	2750
Interior Decoration	Medium-large Scale	TG-1E50	43-45	18-20	1550
		TG-1E70	43-45	18-20	2000
Home Appliances Furniture	Large Scale	TG-1B50	43-45	18-20	1200
		TG-1B70	43-45	18-20	1650

Note:
The parameters are for reference only. Production Capacity¹ is based on 4mm clear float glass panels with 50% load and dual-cycle production. Production Capacity² is based on 6mm clear float glass panels with full load and single-cycle production. Production capacity unit: loads / hour.

Note: ® Registered Patent Technology Ⓢ Optional parts

Advanced Series (A-Series)

■ AG1B50

Optional Color



Professional-grade NorthGlass Heating Control System

Integrated with globally adaptive local boost heating technology¹. With the same transformer capacity, production efficiency is increased by 5%. Individual heating control loops offer faster response, and three-phase load balance is significantly improved.



Professional-grade Symmetric Heating Technology

New heating partition is 50% finer than previous², heating temperature control is more accurate and finished glass quality is improved. Heating power configurations are further optimized, which make upper and lower heating more symmetrical and heating speed faster.



Newly designed High-efficiency Chiller[®]

This newly developed quencher and air nozzle assembly is the result of 5 years of R&D and computational fluid dynamics (CFD) simulation. It boosts quenching efficiency by 15%.



Newly designed HMI

The function of the new control software has been greatly enhanced, and the new HMI is more intuitive. The furnace comes with multiple sets of default glass processing parameters, easier to start using. Production records are automatically stored for convenient quality traceability.



Intelligent Control of Glass Discharge Temperature[®]

A breakthrough in tempering furnace heating control. By monitoring the real-time temperature of glass in the heating chamber, the furnace precisely controls glass discharge temperature – reducing operational complexity, improving glass quality, yield and production capacity, while lowering energy consumption.



Temper Cloud[®]

Temper Cloud features multi-furnace data analytics, real-time remote furnace status monitoring, authorized remote technical support, cloud-based production record storage, cloud-based processing parameter download, and additional features currently in development³.



Upgraded Gapless Forced Convection Technology[®]

Heaters and convection pipes inside both upper and lower chambers are arranged in a longitudinal inclined pattern. The structure is more stable, radiant heating is more efficient and faster, and convective heating is more uniform.



Super Flat & Spotless Finish[®]

An 8-stage stepped and interlaced arrangement of upper and lower air nozzles, combined with NorthGlass' s patented lateral swing of upper and lower quenchers, delivers minimal, uniformly distributed anisotropy for industry-leading glass quality worldwide.



Ternary Flow Fan

This new insulation material, co-developed by NorthGlass and research institutions, inhibits internal micro-convection, delivering superior thermal insulation and energy efficiency.



Nano Material Insulation

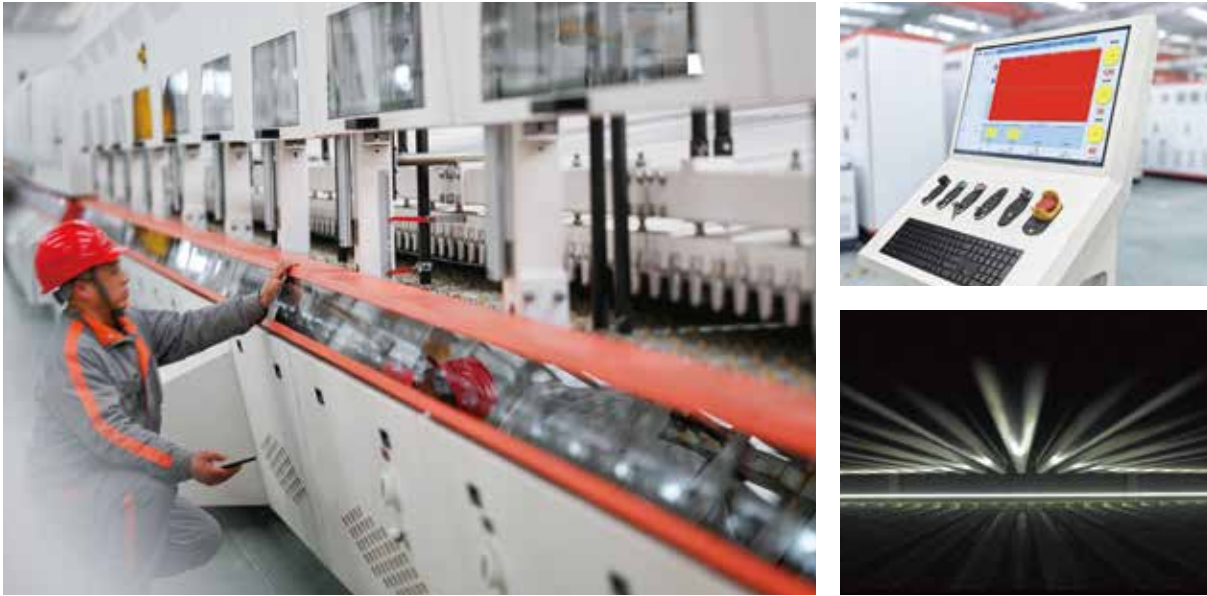
This new insulation material, co-developed by NorthGlass and research institutions, inhibits internal micro-convection, delivering superior thermal insulation and energy efficiency.

Popular Furnace Models in International Market

Applications	Enterprise Scal	Common Model	Production Capacity ¹	Production Capacity ²	Rated Power (kW)
Doors & Windows	Large Scale	AG-1E60	43-45	18-20	1850
	Medium-Large scale	AG-1E50	43-45	18-20	1550
	Medium-Small scale	AU-1Q36	33-35	13-15	650
Architectural Curtain Wall	Large Scale	AG-1S80	43-45	18-20	2750
	Medium-Large scale	AG-1S60	43-45	18-20	2000
Interior Decoration	Medium-Large scale	AG-1B50	43-45	18-20	1200
	Medium-Small scale	AU-1Q36	33-35	13-15	650
Shower room	Medium-Large scale	AG-1B50	43-45	18-20	1200
	Medium-Small scale	AU-1Q36	33-45	13-15	650
Home Appliances Furniture	Large Scale	AG-1B70	43-45	18-20	1650
	Medium-Large scale	AG-1B50	43-45	18-20	1200

Note:
The parameters are for reference only. Production Capacity¹ is based on 4mm clear float glass panels with 50% load and dual-cycle production. Production Capacity² is based on 6mm clear float glass panels with full load and single-cycle production. Production capacity unit: loads / hour.

Note: ④ Registered Patent Technology ⑤ Optional parts
1.When loading rate is below 80%. 2. Taking furnace data of B or E width as an example. 3. Temper Cloud is a free optional feature.



Available Quenching Sections

1-Type



2-Type



3-Type



5-Type



7-Type



X1-Type



X2-Type



Width Code	A	D	P	Q	B	E	K	S	T
Max. glass loading width (mm)	1250	1500	1700	2100	2440	2850	3200	3300	3400

Example of A-series Furnace Configuration

AD1B50-GUD (Optional Color)



AG12B5025R (Optional Color)



AU25B2550 (Optional Color)



High Stress Tempering Furnace

Multiple Models

A variety of models to meet customers' diverse furnace size requirements.

High Quality

Efficient and stable production of high-quality tempered glass.

Low Spontaneous Breakage

Uniform surface stress of tempered glass for reduced spontaneous breakage.

Strong Compatibility

Compatible for productions of both architectural glass and fireproof glass.



© Professional customization enables the tempering of both high stress glass and borosilicate fireproof glass respectively.

Triturbo Fan

The Triturbo Fan is a new type of ventilation fan designed based on the "impeller ternary flow theory", combined with the CFD simulation optimization algorithm for three-dimensional flow fields. After ternary optimization, the blade surface load distribution is more uniform, airflow loss is reduced, and the adverse effects of various airflow disturbances on aerodynamic performance are minimized. This optimizes fan efficiency, reduces energy consumption, shrinks impeller size and weight, and lowers operating noise.



Efficiency Improvement

Enables smoother airflow with an efficiency improvement of approximately 3%-15%.

Weight Reduction

Impeller diameter reduced by approximately 5% with an overall weight reduction of about 10%.

Energy Saving

Reduces energy consumption and electricity costs, achieving green and environmental protection.

Low Noise

Active noise reduction with a noise reduction of approximately 5dB(A) or more.

Application Fields for Different Quenching Sections

1-Type

Flat quenching section



2-Type

Cylindrical curved quenching section with glass straight edges perpendicular to the transmission direction



3-Type

Mold curved quenching section



5-Type

Cylindrical curved quenching section with glass straight edges parallel to the transmission direction



7-Type

Curved quenching section for multi-curvature cylindrical curved glass



X1-Type

Continuous flat quenching section



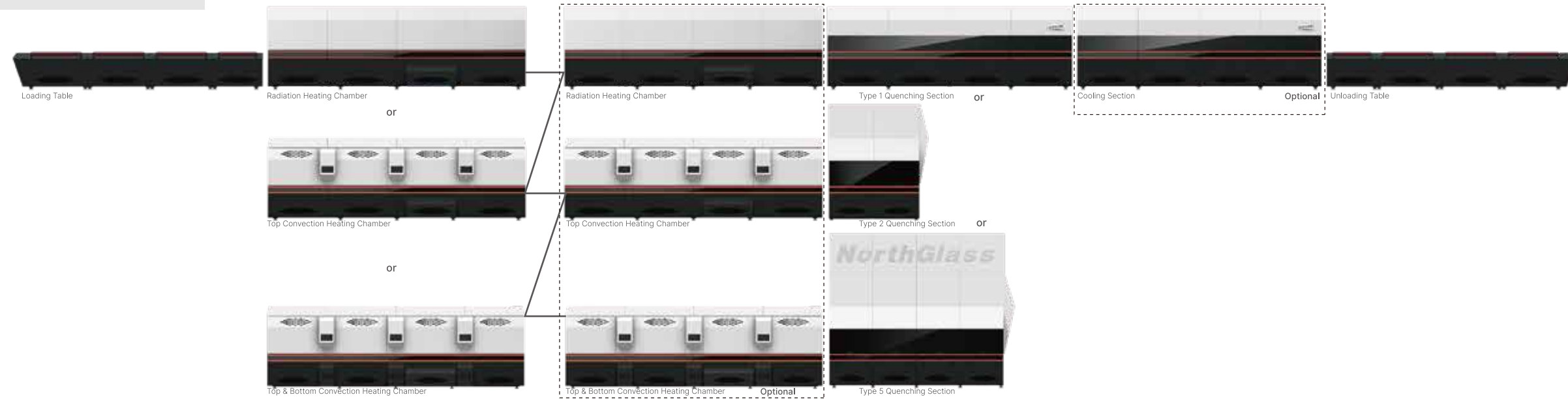
X2-Type

Continuous cylindrical curved quenching section with glass straight edges perpendicular to the transmission direction

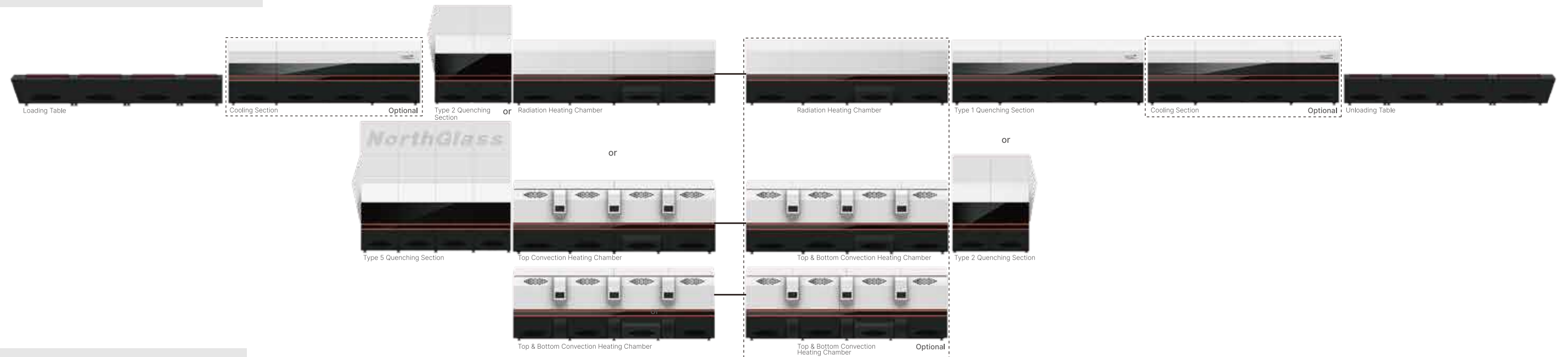


Furnace Type Selection and Combination with Quenching Sections

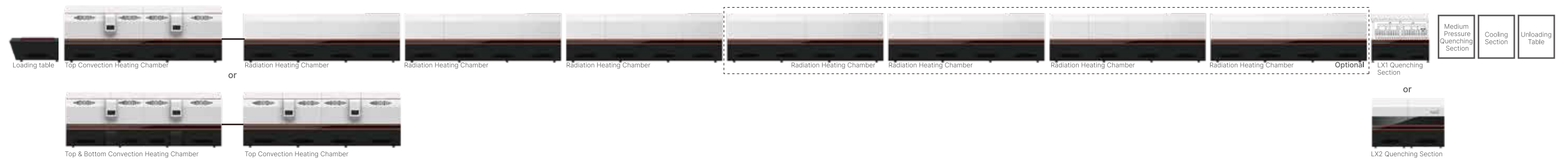
One-direction Glass Tempering Furnace



Reversible-direction Glass Tempering Furnace

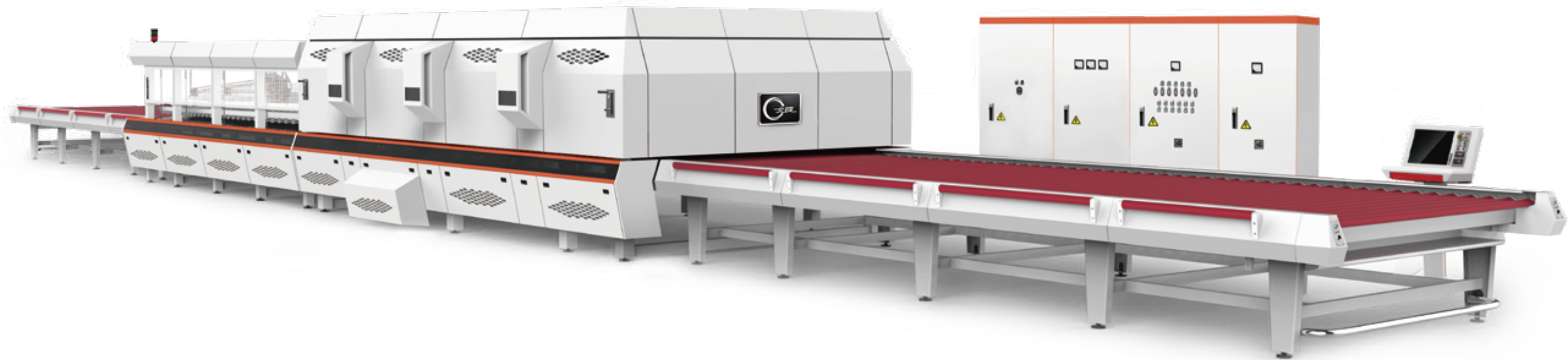


Continuous Glass Tempering Furnace



Standard Series (B-Series)

■ BU1B50



Standard Gapless Forced Convection System[®]

Fully optimized fan-driven forced convection system with convection air distribution pipes arranged in a longitudinal incline. This configuration achieves uniform and rapid glass heating, noticeably enhancing the quality of finished glass products. The system features a simplified structure for convenient maintenance.



Triturbo Fan[®]

This new quenching fan features a 3D impeller designed with three-dimensional flow technology, achieving Grade 1 Energy Efficiency. It delivers superior energy-saving and noise-reducing performance (see page 13 for details).



Rigid Roller Bending & Tempering Technology

Upper and lower rollers are curved to form a processing channel, ensuring glass is not subjected to excessive external force during forming. This enables the production of curved tempered glass with exceptional shape accuracy.



Standard Symmetrical Heating Technology

Upper and lower heating control zones are arranged symmetrically with an optimized heating power ratio, combined with matched PID parameters to achieve symmetrical glass heating effects.



NorthGlass New Heating Control System

Smooth heating current, faster reaction, stronger anti-interference ability, more accurate and stable heating temperature control.



Layered Insulation Technology

Different insulation materials are laid in a staggered pattern, with high-performance materials selected for specific temperature ranges to maximize energy efficiency.



Concave / Convex Bending & Tempering Technology with Flexible Rollers[®]

The conveying and quenching table is equipped with flexible rollers, so the straight edge length of glass is not limited by the furnace width. Convex bending can be added to the standard concave bending function to meet diverse forming requirements.



Multi-layer Deflector

Effectively prevent cold air backflow from the quenching section to the heating chamber, ensure uniform furnace temperature, minimize heat loss during glass discharge, enhance finished glass quality and reduce energy consumption.

Popular Furnace Models in International Market

Applications	Enterprise Scal	Common Model	Production Capacity ¹	Production Capacity ²	Rated Power (kW)
Doors & Windows	Medium-Large scale	BU-1E50	33-35	13-15	1200
	Medium-Small scale	BU-1B42	33-35	13-15	820
		BU-1Q36	33-35	13-15	620
Interior Decoration	Medium-Large scale	BU-1E50	33-35	13-15	1200
	Medium-Small scale	BU-1B42	33-35	13-15	820
		BU-1Q36	33-35	13-15	620
Shower room	Medium-Large scale	BU-1E50	33-35	13-15	1200
	Medium-Small scale	BU-1B42	33-35	13-15	820
		BU-1Q36	33-35	13-15	620
Home Appliances Furniture	Medium-Large scale	BU-1B42	33-35	13-15	820

Note:

The parameters are for reference only. Production Capacity¹ is based on 4mm clear float glass panels with 50% load and dual-cycle production. Production Capacity² is based on 6mm clear float glass panels with full load and single-cycle production. Production capacity unit: loads / hour.

Note: © Registered Patent Technology Ⓢ Optional parts

Examples of B-series Furnace Configuration

BD1B50-UUD



BU12B5025R



BU15B50R



Available Quenching Sections

1-Type



2-Type



3-Type



5-Type



X1-Type



X2-Type



Width Code	A	P	Q	B	E	K	S
Max. glass loading width (mm)	1250	1700	2100	2440	2850	3200	3300

Continuous Glass Tempering Furnace for Photovoltaic Glass



Custom-Designed Heating Temperature Control System for Photovoltaic Glass

Leveraging decades of photovoltaic industry experience, this system features a revolutionary heating control design tailored to the thermal characteristics of photovoltaic panels. It enables rapid heating, easy processing parameter adjustment and consistent finished glass quality.

Optimized Heating Zoning and Power Configuration for Photovoltaic Glass

Our re-optimized heating zoning and power configuration – tailored to the thermal characteristics of photovoltaic panels and built on decades of PV industry experience – maximizes our customers' return on investment (ROI).

Upgraded High & Medium Pressure Quenching Sections®

Following over 30 rounds of fluid dynamics simulation, the newly optimized high and medium-pressure quenching sections deliver 8-15% energy savings.

Specialized Heating Chamber and Quenching Section for Photovoltaic Industry

The heating chamber and quenching section are custom-sized for photovoltaic panel glass, reducing customer capital and operational costs.

Triturbo Fan®

Quenching energy consumption accounts for a large proportion of the photovoltaic glass tempering process. The Grade 1 Energy Efficiency (GB19761-2020) Triturbo Fan is adopted for quenching to ensure higher energy efficiency.

Optimized Quencher Airflow Solution

Tailored to the unique tempering process characteristics of photovoltaic glass, this solution reduces capital and operational costs.

Note: Ⓢ Optional parts

Common Model	Production Capacity(m²/hr)	Rated Power (KVA)	Production Capacity(m²/hr)	Rated Power (KVA)
GX1G26-60	1640	5800	1500	5500
GX1G26-54	1450	5300	1300	5000
GX1G26-48	1230	4900	1100	4500
GX1G26-42	1100	4300	1000	4000
GX1G26-36	980	4000	900	3600
2.5mm Tempered Glass			3.2mm Tempered Glass	

Note:
Parameters are for reference only. Production capacity is based on continuous production with maximum glass size (unit: m²/hour).

Representative Glass Applications

Project: China National Convention Center Phase II · China
Equipment: TD1T60-GGT
Project: Beijing Library · China
Equipment: AU1K240



Project: Xi'An Greenland Center Twin Towers · China
Equipment: TG1B50

Project: Huawei Taikoo Li Flagship Store · China
Equipment: AG15B180R

Project: Two Taikoo Place · China
Equipment: TD1T60-GGT

Project: Denver Art Museum Welcome Center · USA
Equipment: B22S2536R, B15B8050R



Project: Washington 2050 M Street · USA
Equipment: AC15E128R

Project: Opera Residences · Australia
Equipment: AG22K2536R (Convex&Concave curved)

Project: The World Famous Electronics Company · USA
Equipment: AG1T165, AU15M180R



Sales Network

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Sales Agent: