

LandGlass

Perfect solutions
for tempering
jumbo-sized bent
tempered glass



LandGlass showcases new furnaces capable of bending jumbo-size glass faster and more efficiently

LANDGLASS LD-C+ CONEBEND™ GLASS TEMPERING FURNACE

Because of the constant pursuit of perfection in artistic design, architectural appearance is increasingly customized and distinctive, requiring the use of bent tempered glass with straight edges reaching from 3 meters up to 18 metres long. As the length grows, the standards for product quality also become progressively more stringent. As a result, glass tempering furnaces for producing large bent glass with ultra-long straight edges have huge market potential.



As a world-renowned manufacturer of glass tempering furnaces, LandGlass has always been at the forefront of the industry in the R&D of various glass tempering furnaces. As early as 2001, LandGlass independently developed the LD-C bent glass tempering furnaces, which are mainly used to produce bent tempered glass products such as architectural glass curtain walls, sky domes and outer wall decorations. These new advances have led the industry. Our products are exported to over 50 countries and regions all around the world, and are well received by the market. After more than ten years continuous product and technology optimization, LandGlass stands ready to take the next innovative step with the introduction of their LD-C⁺ ConeBend™ glass tempering furnace. The furnace, which has won a number of national invention patents, can make jumbo-sized bent tempered glass with a maximum of 18 metres straight edge. Furthermore, the furnace achieves smoother bending with adjustable structures and it can rightly be called LandGlass's new masterpiece.

MORE DIVERSIFIED PRODUCT SPECIFICATIONS

A wide span of glass sizes

Conventional bent glass tempering furnaces with flexible shafts can only temper bend glass with straight

edges less than 6 metres. When the straight edge of the glass is over 5, it is extremely prone to product quality problems. However, the LD-C⁺ ConeBend™ glass tempering furnace introduced different processing methods to address the distinct specification requirements for different glass sizes. It enables the furnace to produce high-quality curved tempered glass for large-scale architectural curtain wall with a height from 0.8 metre to 18 metres, making the design conceptualization of huge curtain wall glass a reality.

Producing cone shaped glass

The LD-C⁺ ConeBend™ glass tempering furnace, using its special bending system, adopts the ConeBend™ Technology (patented technology), to shape the glass gradually. Through the special bending and driving system, it can adjust the shape to realize smooth changes of radii along the length of the glass sheet and ensures a perfect shape and smoother bending for sheets of different sizes and shapes.

PRODUCT QUALITY OPTIMIZATION

ConeBend Technology guarantees high quality products

The LD-C⁺ ConeBend™ glass tempering furnace adjusts the bending section into different radii along the length of the surface to



be bent. After heating, the glass is loaded and shaped on pre-set bending sections at the same time.

Then, the four corners of the bending sections are hoisted up until desired shape with different radii come into being.

The glass is then quenched and tempered. The glass sheet is shaped much earlier than it could be in a more conventional process, so the shape is smoother and edge cracks along the front side are completely avoided, ensuring excellent quality.

Seamless connection of chillers ensures even stress.

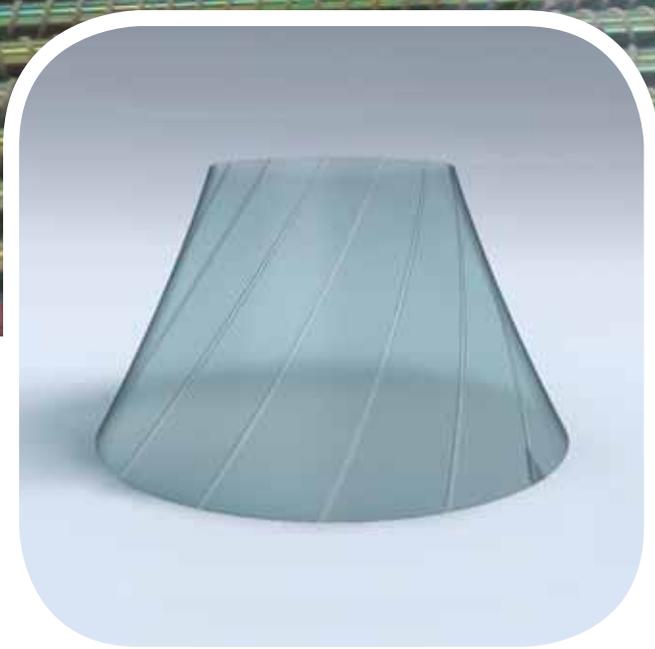
The bending system is

equipped in such a way that chiller sections can be installed so closely that the connection between chillers is nearly seamless, which achieves even stress, less air marks and excellent optical quality.

PRODUCTION EFFICIENCY IS HIGHLY IMPROVED

Smart bending technology ensures higher production efficiency

The servo motor and servo control system are adopted in the bending system and the shape of the bending section can be achieved by simply imputing the radius parameters into



the computer. The signals converted by the system are then sent to the servo motor, which adjusts the bending section to desired shapes quickly so high efficiency is guaranteed.

Innovative technology improves production efficiency

In conventional flat & bent bi-directional glass temper-

pering furnaces, the distance between two pieces of glass is larger during flat glass tempering processing in order to avoid glass collision. In these cases, sometimes only one piece of glass can be loaded along the width of the bending section.

Now with the innovative technology used in LD-C+ ConeBend™ glass temper-

ing furnace, the bending section is completely flattened automatically. This technology ensures a flatter roller surface and greatly increases the loading rate of flat glass, effectively increasing the yield of flat glass production.

In recent years, as the ConeBend™ technology has become more sophisticated, LD-C+ ConeBend™ glass tempering furnaces have won wide acclaim from our customers. As we are exporting all over the world, we are also constantly realizing the ultimate beauty

in designing and producing jumbo-sized curtain wall glass and customized-shape decorative glass.

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