

Lamination, tempering and chemical tempering furnaces from TK

With over 20 years of experience in the glass industry, TK specializes in the design and construction of furnaces for lamination, tempering and chemical tempering, all with the possibility of customization and, therefore adapting to all customer needs.

Intrinsically Italian, TK designs and manufactures high-quality and innovative Made in Italy glass machinery, appreciated worldwide. Thanks to the company's values, technology, customization and high-quality standards are at the base of the construction of TK machinery: the furnaces are able to adjust to any small-, medium- or large companies' needs, whether wanting to start a new production line, expand the existing one or improve the qualitative performances of finished products.

Reliable, with refined details and technologically advanced: this is how a client would describe a TK furnace, supporting glass fabricators on a daily basis



TK Chemical Temper



TK Lamijet Convection

and, therefore, guaranteeing extremely satisfactory performance: an output of products that are qualitatively competitive with a significant reduction in production costs.

Technological innovation and peace of mind are fundamental elements for TK, that's why the company has developed two methods for the remote control of production: thanks to a PLC or Thermo Computer, customers can constantly monitor production processes, in compliance with Industry 4.0 standards.

CUSTOMIZATION

Thanks to the possibility of customization, the customer can find the right furnace, choosing among TK's four product lines: laminating furnaces – the company's core business, chemical tempering furnaces, Heat Soak Test furnaces and thermal tempering furnaces.

TK has developed three laminating technologies, Lamijet, Convection and Brevia, three products designed for different types of production: according

to the type of interlayer, to the necessary heating and cooling systems, and to the need to add an HST cycle. TK has also taken into account the needs of the market in the development of thermal tempering furnaces with three product lines, Easy Temper, Star Temper and Master Temper, starting from small production lines up to production plants covering each and every production need.

CHEMICAL TEMPERING

TK chemical tempering furnaces are complex machines with exceptional details, that allow glass to obtain higher mechanical properties than the ones obtained through a thermal tempering process.

The mechanical resistance of chemically tempered glass is 5 to 8

times greater than thermally tempered glass and the resistance of the glass to impact is higher.

Despite decades of experience in the construction of chemical tempering furnaces, TK has never stopped improving the performance of its machines: To date, TK furnaces allow to process glass maximum size of 2500mm h. x 4000mm w. x 1500 mm l., which takes place in a tank containing 42 tons of Potassium Nitrate (KN03).

Thanks to technical know-how, the reliability of a Made in Italy production process, European raw materials of proven quality and the ability to focus on

the real needs of consumers, not only in terms of production but also from a professional point of view, TK works side-by-side with customers along their growth path necessary to compete in an increasingly demanding market.

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