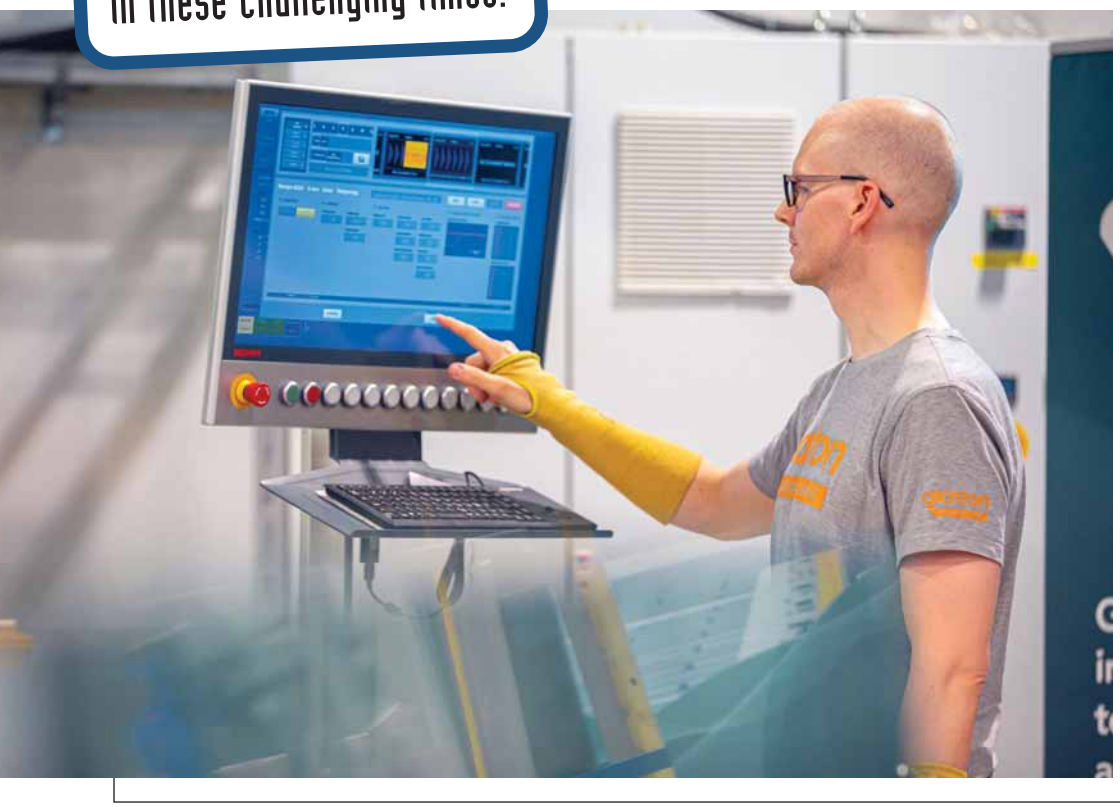
GLASTON

BETTER PRODUCTION SOLUTIONS WITH A COMPETITIVE EDGE

Celebrating 150 years in business this year, Glaston optimises their production process. With leading edge technology, they keep customers one step ahead of the competition, especially in these challenging times.



Glaston's most recent technologies are ready to respond to client needs and demands, helping them to achieve their goals, while answering any questions they may have. What easy steps can you take to tap into data from your equipment? How does this translate into more uptime? What's the easiest way to produce better quality products?
In this article we get a small idea of how this is carried out.

DIGITALIZATION BENEFITS

Glaston's latest flat glass tempering furnaces Glaston Series FC, RC and Jumbo incorporate high levels of automation and intelligent process control. Vortex Pro utilises glass-size-sensitive convection profiling that precisely follows the glass in the furnace, enabling higher loading efficiency with top quality. Glaston's 50 years of know-how in glass heat treatment technology has been used to create special glass types such as super-tempered, fire-resistant glasses (FRG) without compro-

mising on yield.

Glaston ProL flat glass lamination line provides unprecedented flexibility for mixed production. Now it's easier than ever to use ProL convection heating chamber to switch between glass types and different sandwiches. The whole line, from glass handling to the latest PVB cutting technology, has been designed for flexible operation. Glaston ProL can be connected to the Glaston Insight ecosystem to monitor furnace production data online and take advantage of the ecosystem benefits. Updating existing laminating lines has been made easy with the ProL-zone heating chamber replacement that can be installed on any laminating line in the market.

SATISFYING WARM EDGE DEMANDS

Glaston's advanced architectural glass TPS® (Thermo Plastic Spacer) technology provides processors with end products to satisfy the toughest warm edge demands. Insulating glass units made with TPS® improve energy efficiency in buildings, increase durability and reduce energy costs. A major advantage of TPS® is its production flexibility. By directly applying the Thermo Plastic Spacer onto the glass lite significantly simplifies the processes for IG manufacturers. The entire production mix can be manufactured on one

line using various TPS® IG production lines – from individually configurable solutions via fast system solutions with shortest cycle times to maxi-size solutions for glass sizes up to nine metres in length.

GREATER YIELD

B'CHAMP automotive glass pre-processing solutions enable to enhance efficiency in daily production of windscreens, sidelights, backlights or quarterlights. This means a yield greater than 98 per cent, shorter cycle times, reaction-fast software to minimise downtime and an excellent cost-per-unit ratio.

B'BRIGHT display glass solutions are individualised production systems for automatic cutting, breaking, grinding and drilling of thin glass down to 0.4mm in thickness. These thin glasses are used for moni-

Upgrade team Germany

tors, TV screens, mobile devices as well as automotive glass displays. The machine configuration offers not only a process-optimized line layout, but also various expansion options using upgrade kits.

Glaston Matrix, the automatic windscreen bending furnace for fast, efficient and high-performance windscreen production, features a new windscreen press for bending deep sags and wraps around corners to match the tightest tolerances. The new active convection heating enhances the production of windscreens with conductive or heat-reflective coatings.

Glaston HTBS bending and tempering system covers a wide range of application areas in the automotive, appliance and furniture glass industries. With its flexibility and high end-product quality, the HTBS furnace allows to meet evolving market requirements and process multiple glass sheets in one production load.

LIFETIME UPGRADES EXTENSION

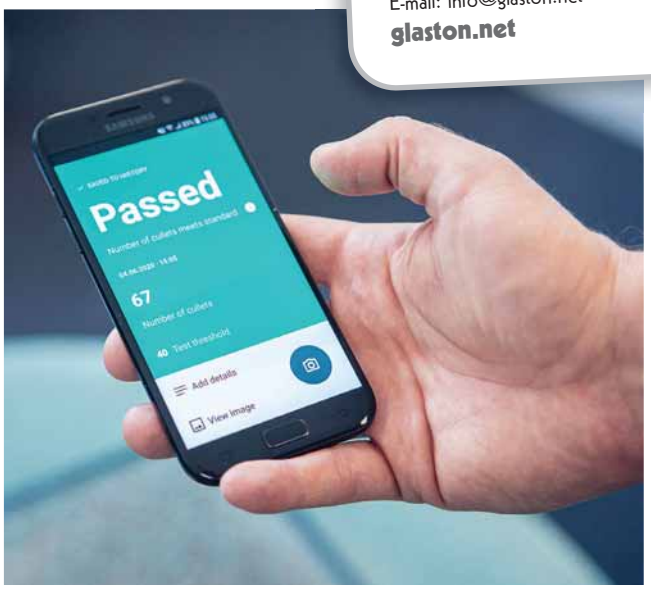
For insulating glass, Glaston now offers the opportunity to upgrade individual machines or complete insulating glass lines to achieve state-of-the-art performance by replacing components. Glaston's recently launched IG Service Upgrade team at its Technology Centre in Germany is ready to help extend the lifetime of lines with tailored solutions. For tempering furnaces too, Glaston heating chamber upgrade gives furnaces another life. Outdated or damaged furnace chambers and control systems can also be updated to match the market's latest tempered glass needs without investing in a totally new line.

AUGMENTED REALITY AND AI

With extensive investments and R&D, Glaston is heading towards automated processes and real-time customer support.

Glaston's latest mobile application, Glaston Siru, based on artificial intelligence, allows anyone to perform tempered glass fragmentation test quickly and easily with a mobile phone. Spending time counting cullets manually or risk making mistakes is no longer necessary.

Glaston is the glass processing industry's innovative technology leader supplying equipment, services and solutions to the architectural, automotive, solar and appliance industries. The company also supports the development of emerging technologies by integrating intelligence in glass. with safer, smarter, and more energy-efficient glass solutions. Glaston Operates globally with manufacturing, services and sales offices in 12 countries. and its shares (GLA1V) are listed on NASDAQ Helsinki Ltd.



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