

SYSTRON engineering powers next-generation efficiency for LSG processing

Laminated safety glass (LSG) consists of two or more glass panes permanently bonded by a tear-resistant, elastic interlayer, typically made of PVB. It is used wherever safety and structural sta-

bility are critical, including architecture, automotive applications, and public infrastructure. Processing laminated glass demands maximum precision, clean edges, and highly reliable systems. The systron lines

pro, proHD, and proMD provide intelligent, automated solutions for flat glass processing, particularly for coated glass and laminated safety glass. Developed to meet evolving industry requirements,

these systems -working closely with LSG applications- rely on patented water cushion technology to ensure stable processes, high efficiency and consistent quality.

Fig 1: Laminated Safety Glass Processing (LSG 24.4) with systron technology



Advanced processing technologies from SYSTRON are reshaping laminated safety glass production by combining precision, automation and efficiency. Supporting LSG applications with patented water cushion systems and integrated waterjet cutting, these solutions deliver cleaner edges, reduced waste and consistent quality across complex architectural, automotive and infrastructure projects.

PATENTED WATER CUSHION - NO MECHANICAL GLASS CONTACT

systron's water cushion system operates entirely without mechanical clamping. Instead, the tool is surrounded by a uniform film of water, making it ideal for sensitive glass types such as coated or laminated glass. A key advantage is that the tool remains fully accessible, allowing film residues, grinding dust, and glass particles to fall directly onto the machine base. From there, they are pumped into the water treatment system and reliably removed. Unlike partially or fully enclosed systems, where contaminants can accumulate and disrupt operations, systron's open design provides great-



er process freedom and stability in results.

OPTIMISED MATERIAL REMOVAL - ESPECIALLY FOR THICK OR UNEVEN GLASS

Another significant advantage is the high material removal achieved in a single pass. This is particularly beneficial when processing thick float or laminated glass, compared to machines

that require multiple grinding cycles with minimal removal rates. The outcome is reduced processing time, lower energy consumption and decreased tool wear.

WATERJET CUTTING: PERFECT RESULT FOR COMPLEX SHAPES

The systron proHD and proMDH lines incorporate automated waterjet cutting technology, developed specifically for the precise machining of complex shapes in laminated glass. Processes that once re-

quired time-consuming manual cutting are now fully automated. Due to the cold-cutting nature of the waterjet, no thermal or mechanical stress is applied to the glass layers or the PVB interlayer. The resulting cuts are exceptionally fine and clean, eliminating the need for reworking. Even intricate geometries and highly contoured shapes can be produced with excellent edge quality and maximum repeatability.

The advantages of Waterjet Cutting at a glance: Waterjet cutting enables precise contour cuts regardless of complexity or geometry, eliminates the risk of breakage caused by thermal stress, minimises waste while optimising material usage, delivers clean cut edges and offers high flexibility, making it particularly suitable for custom architectural projects.

IN SUM

Laminated glass processing with systron means maxi-

mum quality and ultimate flexibility – from automated production lines and efficient material removal to precise waterjet cutting for complex shapes.



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