

Automotive glass meets SAATI's signature screen printing excellence

Chairing this year's Automotive Glass Forum industry discussion at E-Tech Europe, Glass Technology International was delighted to glean key insights from SAATI B.U. Printing Sales & Tech Manager Pietro Giuliani, MECCANICA H7 Operations Director Alessandro Amadio and IOCCO Technical Director Ludovico Iasci on April 16 in Bologna as the trio considered innovations they're developing that are impacting automotive glass. This first of our series of three parts dedicated to the event covers Pietro Giuliani's presentation on the technological synergy between his company and CUGHER GLASS

Thanks to its precision in glass screen printing as a leading global supplier of meshes, chemicals and tapes, Saati enjoys a robust collaboration with Cugher today in a partnership that, according to Saati B.U. Printing Sales & Tech Manager Pietro Giuliani, has been taking screen and stencil preparation to the





consistent, repeatable results. In sum, while Saati creates fabrics and emulsions for producing the well-known stencil used for printing on glass in general, Cugher develops the automated machinery that uses those stencils to print on automotive windshields, among other glass solutions.” Today the two support a fully-integrated production chain that’s upheld by shared know how and coordinated workflows in industrial glass decoration.

SERIES J

In the ever-evolving world of industrial glass processing, automation, precision and reliability are all crucial. Here Cugher, now a benchmark name in advanced screen printing technologies, has developed the Series J fully-automatic Silk Screen Printing Machine to meet the exacting demands of high-performance production environments. Designed with both structural integrity and operational intelligence, this series represents a harmonious blend of mechanical excellence and user-oriented innovation.

THE ART OF SYNCHRONY

At the heart of the Series J is a robust construction that integrates seamlessly with the production line. The machine consists of an entry conveyor with pre-alignment capabilities, a central printing unit and an exit conveyor synchronized to ensure continuous, stable handling of

next level. A Milan-based manufacturer of industrial screen printing equipment and automation systems for flat glass, Cugher enjoys over 50 years of expertise in crafting tailored machines for automotive, appliances, building and solar.

Back in 2023, a GlassPrint conference partnership between the two companies saw a joint presentation by professionals from either side emphasizing the same winning synergy they now enjoy. Says Giuliani: “Since then Saati has shared its insights on mesh selection, emulsion use, tensioning, coating and frame positioning while Cugher has succinctly detailed how machine controls must align with those prepared screens to ensure





glass sheets. Every segment is engineered to function in flawless coordination, minimizing manual intervention and maximizing output quality. The working table, crafted from specially treated aluminium, offers durability and stability, essential for consistently accurate printing on delicate glass substrates.

SQUEEGEE DESIGN

The transport system features precision belt movement and auto-centering, allowing each sheet to enter the print zone perfectly aligned. Within the printing unit, the squeegee and flood bar assembly operates with remarkable finesse. Mounted on tempered guides, this group benefits from proportional pressure regulation and independent speed control, enabling it to accommodate a wide range of glass sizes and ink types with min-

imal adjustments. Both the squeegee and the flood bar embody thoughtful design: the squeegee allows use of both Vulkollan edges before re-sharpening and the flood bar, constructed from stainless steel AISI 304, includes side wings to optimize ink management during the stroke.

PRODUCT SPECS THAT STAND OUT

What sets the Series J apart is its commitment to operational efficiency and reduced downtime. The screen can be fully extracted without losing positional reference, which means no time is wasted on re-registration when swapping or cleaning the screen. Automatic adjustments further elevate the machine's sophistication. Screen height, peel-off and printing stroke length are all managed automatically, with the system learning and

adapting to new job parameters. This intelligent setup allows manufacturers to store a customized number of print recipes, ensuring rapid job changes and streamlined production cycles.

With a working table height set at a comfortable 950 mm (adjustable ± 25 mm) and high-grade components throughout, the Series J is built for endurance and ease. The use of superior materials not only enhances print quality but also drastically reduces maintenance requirements - an essential advantage in high-volume operations. As a result, glass

manufacturers can rely on the Series J to deliver impeccable prints with minimal operator involvement, even in demanding, round-the-clock production scenarios. Cugher's Series J stands as a symbol of precision automation in silk screen printing. It embodies the company's deep experience in industrial glass processing and its continuous commitment to delivering technology that anticipates the needs of tomorrow's glass printers - reliable, intelligent and ready for the challenges of modern manufacturing.



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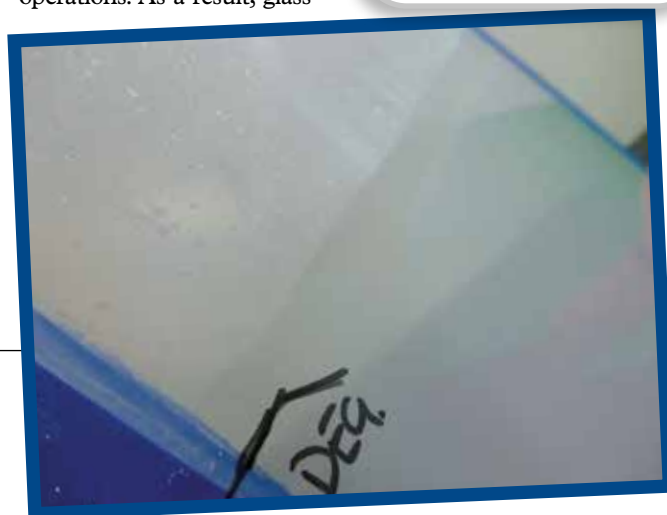
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