

STARA TECH, the technological arm of STARA GLASS

Commemorating a significant milestone alongside the other companies within the Fasolini family group, Stara Glass proudly marked its 70th anniversary in 2024. That anniversary was not merely a celebration of longevity. It was also a reaffirmation of Stara Glass's enduring commitment to excellence and innovation in the international glass industry. Recognized globally for its leadership in the design and construction of furnaces and distribution channels, the company has played a pivotal role in advancing glass manufacturing across key sectors - including container glass, tableware and fiberglass.

A LEGACY OF INNOVATION AND EXPANSION

With seven decades of accumulated expertise, Stara Glass has

established itself as a cornerstone in the field, with foundational strengths rooted in refractory materials - an area it continues to cultivate. Over the years, the company has expanded its capabilities to encompass the in-house design of high-performance melting furnaces and, more recently, cutting-edge involvement in strategic research initiatives. These initiatives focus on transformative technologies such as hydrogen combustion, the electrification of melting processes and sustainable production systems - positioning Stara Glass at the vanguard of the industry's energy transition. A decisive moment in this forward-looking trajectory came with the creation of Stara Tech, the group's technological division, established to address the increasing demand for advanced

engineering solutions and high-performance automation within glass production facilities. Conceived as a dedicated innovation hub, Stara Tech was tasked with designing and manufacturing critical equipment that supports the operational efficiency, sustainability and digitalization of glass melting plants.

CORE COMPETENCIES AND TECHNOLOGICAL CAPABILITIES

More than fifteen years since its inception, Stara Tech has matured into an integral com-



Celebrating 70 years of excellence, STARA GLASS and its technological division, Stara Tech, continue to offer their leadership to the global glass industry through advanced engineering, automation and sustainable innovation – all to bring integrated solutions that are shaping the future of glass production across key sectors worldwide.

ponent of Stara Glass. Its solutions are now fully embedded in the group's engineering workflows or offered independently as high-value stand-alone systems. Under the leadership of Engineer Matteo Marena, Stara Tech brings together a multidisciplinary team of engineers and technicians with deep domain knowledge. This team is proficient in developing and delivering complex solutions for every aspect of glass plant operation – from furnace control systems and distribution channels to raw material handling and thermal regulation. Stara Tech's portfolio encompasses a comprehensive range of proprietary technologies, including fuel distribution ramps compatible with natural gas, fuel oil, LPG and hydrogen; LowNOx and standard burners; high-temperature air reversal valves; furnace feed systems; precise glass level monitoring solutions; advanced thermal management platforms; and complete data acquisition and control systems (DCS) designed for seamless operation across furnaces, channels and utilities.

TOWARD A DIGITAL AND SUSTAINABLE FUTURE

Operating within the highly innovative ecosystem of Stara Glass, Stara Tech has also achieved significant advancements in process control and factory automation. Leveraging



state-of-the-art SCADA systems, advanced PLC platforms and proprietary control algorithms, the division has enabled precise management of both conventional and next-generation glass melting technologies. These include End Port and Oxy Fuel furnaces, electric channels, hydrogen combustion systems and high-efficiency electrical boosting architectures. Today, Stara Tech stands as a dynamic and future-oriented enterprise, fully synergized with the broader capabilities of Stara Glass. Together, they provide a unified, responsive and optimized service model – delivering superior outcomes in performance, cost-efficiency and project delivery. Anchored by deep technical knowledge, operational reliability and a relent-

less drive for innovation, Stara Tech represents the technological heartbeat of Stara Glass and a benchmark for excellence within the global glass manufacturing industry. ■



STARA GLASS

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