Industrial glass forming evolves with FAMOR engineering technology

From high-temperature melting to advanced forming systems, modern glass production demands precision engineering and energy efficiency - across global glassworks, technologies developed by FAMOR Engineering support automated forming, turnkey production lines and electronically controlled machines, assisting manufacturers to improve quality, productivity and operational reliability.

ENGINEERING

Large glass tanks, often referred to as pot furnaces, are used to produce glass. The raw materials -sand, sodium carbonate, aluminium oxide, lime and dolomite, among the most important- are all thoroughly premixed before entering the melting process. The batch is heated to extremely high temperatures, typically between 1,300°C and 1,500°C, depending on the type of glass being produced. These temperatures, combined with the aggressive nature of molten glass, require high-quality refractory materials to line the tank or pot. Such materials protect the furnace structure and ensure consistent production condi-

tions during the demanding melting process. Energy consumption in glass production is correspondingly high due to these extreme temperatures. To optimise efficiency, complex air pre-heaters are commonly used. An increasingly attractive alternative is the adoption of oxy-fuel burners, which significantly reduce energy consumption while also lowering emissions of harmful substances. This heating technique is being implemented more frequently across the global glass industry.

FORMING

Once melting is complete, the forming stage begins. Historically, this process was entirely manual; glass blowing, for example, was practiced long before the birth of Christ. Today, however, glass feeding and forming are highly mechanised. Glass can now be delivered manually, via ball-collecting robots, or through automated feeding mechanisms. Based on these glass gob loading processes, a wide range of machines has been developed, each capable of being individually adapted to meet diverse production requirements. Across all systems, the focus remains on improving economic efficiency, creating more human-friendly working environments, and ensuring the highest levels of product quality. All systems are installed and tested by specialised personnel, ensuring that customers have a competent partner to rely on even after machine delivery. Glass forming systems today include pressing, centrifugal forming, blowing and press-blowing technologies. Recognised as one of the leading manufacturers of forming machines, Famor Engineering operates successfully on the global market. The company's success is rooted in its ability to solve the specific technical challenges faced by glassworks, providing high-quality technologies and customised machinery tailored to individual production needs.

EQUIPMENT RANGE

Through research, innovation and continuous technological development, the company has established itself as a recognised brand worldwide, offering turnkey systems and services designed to meet a wide variety of production requirements. Famor Engineering specialises in the design, production, installation and commissioning of plants, systems and machines for hollow glass forming. In this role, the company positions itself as a comprehensive technological partner capable of addressing production-related challenges with maximum effectiveness. Current forming machine production includes semi-automatic machines, automatic machines, flame polishing machines and integrated handling and transport systems. Complete forming production lines are available for tableware and kitchenware, stemware, lighting ware, high-voltage insulators, glass blocks and car headlight lenses. Famor Engineering also places strong emphasis on the speed and efficiency of its customer service. These working methods are widely appreciated within the company's market segment, reflected in the growing number of machines and systems sold each year and in the loyalty of customers who repeatedly turn to the company for new investments. Energy consumption remains a key focus, particularly with the development of increasingly electronically operated forming machines. Today, fully electronic technologies are being introduced to provide greater control and repeatability in glass production. ■

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