

Luben Glass:

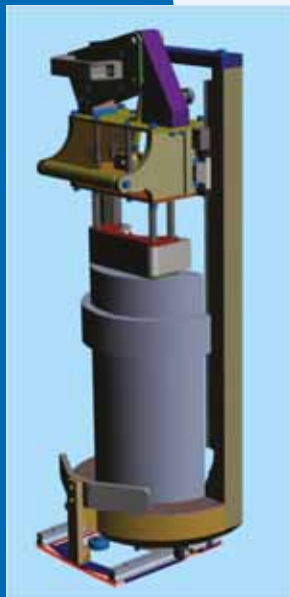
# LOOKING TO THE FUTURE WITH COLLABORATION AND COMMITMENT

In this article, Luben Glass gives us an update not only on its recent developments with regards to its products, but also speaks about how these products are now conform to Industry 4.0, thanks to specific software, developed to monitor and fully manage all aspects of glassworks production processes.

**A**ttention to production, combined with flexibility and attention to the needs of its clients, are aspects that have always characterized the history of the Luben Glass brand. Active for many years in the development of new products using of innovative technologies, the company has, at present, a team of highly qualified employees, who are an important resource for the effective work of research and innovation of its products.

## WORKING CONSTANTLY ON CUTTING-EDGE TECHNOLOGIES

Thanks to the work and expertise of the personnel assigned to the various departments, with particular reference to production and R&D, Luben Glass



works constantly on evolution that has always characterized it and which, over the years, has led to the creation and consolidation of new companies dedicated to the development of high-tech plants, software for the advanced management of production processes, and systems aimed at saving energy.

This policy generates the constant enrichment of the company know-how, which, through the design and development phases, supports cutting-edge advanced technologies, including latest generation Cad Cam software, process and Reverse Engineering technologies, as well as the development and implementation of 3D mathematical models ever more faithful to reality, essential to design and build products that respond more and more faithfully to the continuous needs and demands of the market.

The production of mechanical components and spare parts for forming machines has always played a major role in the production organization of the company which, right from the beginning,

has been committed to creating high quality products that take into account the problems related to production and to the simplification of the operations that glassware operators have to face each and every day. This has led to the creation of numerous products such as mould holders, take-outs, baffles, blowhead and neck ring arms, etc., protected by international patents, often built to specific customer customization. The high level of skills of Luben Glass' technicians, the quality of the materials used and the attention paid to their processing, together with the quality controls carried out during all the processing phases, are the strengths that have always characterized all the products of the Luben Glass brand.

### MEETING GROWING NEEDS WITH QUALITY AND EFFICIENCY

Over the years, the company has become a point of reference for European glassworks and not only, standing out for its ability to meet the growing needs of a

global market that is increasingly attentive to quality and efficiency, propose to its customers with new plant solutions such as:

- the new ILS Evo lubricating system, evolution of the ILS model, consisting of latest-generation plant engineering solutions protected by international patents and a structured and advanced software for monitoring and managing production processes as per Industry 4.0;

- the DLCS dynamic lubrication control system, evolution of the MDS micrometric dosing system, with which it is possible to realize multiple plant configurations aimed at offering different technical possibilities based on the need to have a more efficient lubrication of the shear blades, and for the cold end treatment of the containers, in combination with the portal unit that can be equipped with rotating dispensing guns with the DPC dynamic position control system for a better distribution of the product on the article;

- the revolutionary LMS Evo laser measurement system for the 3D control of the moulds that enables to have certified volume measurement and the development of dimensional reports of control, up to the functionality of reverse engineering to obtain 3D models.

### SPECIFIC SOFTWARE

All the products that Luben Glass offers its customers are designed according to Industry 4.0 criteria, and built in order to offer a rigorous and attentive response to the concept of smart industry and energy saving. The intelligent use of energy resources is monitored and controlled also thanks to the development of state-of-the-art software systems such as the proven ECS software system for the management of the compressor room, able to guarantee real control of



the efficiency of the connected compressors and manage functionality based on the concept of energy saving. On the basis of this Luben Glass software platform, developed to monitor and fully manage all aspects of glassworks production processes, the company has developed the revolutionary integrated management system TCS total control system, an advanced MES software/system able to interface with any type of machine, plant and/or factory systems (SCADA, ERP, etc.). With a single software architecture, acquiring data from every interfaced element, TCS able to monitor and manage every aspect of the entire production process, also creating and managing automatism aimed at improving energy and process, according to a 360-degree intelligent management perspective.

### IMPORTANT PARTNERSHIPS

With more and more attention to the continuous needs of the market, Luben Glass has, over the last few years, established important partnerships with leading companies in their respective market segments aimed at offering an increasingly wider service to its customers, with new products such as, for example,



process water cooling systems (with specific reference to the innovative and extraordinary adiabatic technology that allows the total elimination of Legionella, and savings of about 95% of water and 65% of energy compared to traditional systems), as well as the realization of energy recovery systems such as heat recovery from the melting furnace by means of ORC turbines, heat recovery deriving from the annealing oven, channeling it into unheated areas, or the installation of electronic frequency regulation systems (Inverters) used to modulate the rotation speed of the fans for cooling the forming machine.

Luben Glass, which has always been recognized by its customers as a serious and reliable partner, looks to the future with the aim

of guaranteeing increasingly proactive assistance to its customers through effective collaboration and solid commitment in the continuous improvement of skills, with the aim of providing better service to become a reference point for the global hollow glass industry. ■



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