

# Fully-automatic range makes **BOVONE** a pioneer of the future

BOVONE recently introduced the ELB FA, its latest fully-automatic line of glass-edging machines. Offering a variety of advanced features, including high precision edging, automatic tool adjustment and easy-to-use controls, the line's design will also streamline the glass edging process - allowing for faster, more efficient production.



**High working speeds**  
match quality and versatility





**Easy wheel replacement  
with the press of a button**

Coming in a variety of sizes to accommodate different glass types and production needs, Bovone's innovative ELB Fully Automatic Range comes as powerful testimony to the company's continuing commitment to excellent quality, evident here in the construction of machines built with durable materials, and all designed to withstand heavy use.

### REDEFINING THE GLASS-EDGING OF TOMORROW

The ELB Fully Automatic Range represents a significant development in glass-edging technology. With advanced features such as the automatic compensation of the grinding wheel wear, wheel change warning, automatic wheel setup and the reliable performances, the machines mark an excellent invest-

ment for any glass processing operation.

The motor spindles of the ELB Fully Automatic Range are mounted on motorized slides, controlled by the automatic system to continuously compensate for the grinding wheel wear. These slides can adjust the spindle heights

through a powerful user-friendly software via an intuitive HMI interface. With this cutting-edge technology, manual adjustments are no longer necessary during the machining process to manage the increase in grinding wheel wear.

Automatic adjustment of the grinding wheel position can be performed within

three distinct parameters. These include the linear metres of processed glass, the level of electrical absorption of the spindles, or a combination of both - thereby allowing for a precise, efficient adjustment of the grinding wheels resulting in consistent, high-quality glass edging.







### HEIGHTENED ATTENTION TO QUALITY

Ensuring the constant polishing quality is crucial during the glass-edging process, with replacement of the grinding wheel at just the right time being fundamental to its achievement. By a timely replacement of the grinding wheel, the tool can be leveraged to its full potential - ensuring a consistently high level of finish. To assist operators in this task, Bovone has implemented an acoustic and visual system on the ELB Fully Automatic range of automatic glass edging machines that alerts operators when it's time to replace the grinding wheel.

This innovative feature drastically reduces the number of interruptions previously required to check grinding wheel wear - allowing for a more continuous production cycle. Additionally, this evaluation is no longer subject to the operator's own judgment or level of experience, which previously determined its success. Instead the machine signals to the operator the exact moment when the tool is approaching the end of its life and needs to be replaced. This helps prevent human error from jeopardizing the quality of the grinding process while helping to maintain a consistent level of quality.

### FUSS-FREE OPERATIONS

Thanks to the automatic adjustment of the spindle height, changing the grinding wheel on the ELB Fully Automatic range of automatic glass edging machines is now really easy. When the operator receives the acoustic and visual alarm indicating the time to change the grinding wheel, the procedure can be easily started from the machine's screen. The spindle then lowers automatically, providing ample space for the operator to comfortably replace the wheel, hassle free. Once the operation is complete, the grinding wheel is positioned at correct height

in a fully-automatic manner, thus allowing the operator to resume production within a significantly shorter time span as compared to the same procedure carried out manually with sample glass.

To further simplify and streamline machine set-up procedures, Bovone has included predefined recipes in the software that can be easily and intuitively accessed by the operator. This feature allows for swift production of different batches whilst maintaining consistent production parameters - ensuring that the quality outcome of production is not dependent upon the individual operator's ability or subjective sensitivity





relating to that particular machine.

### COMPATIBILITY AND INTEGRATION

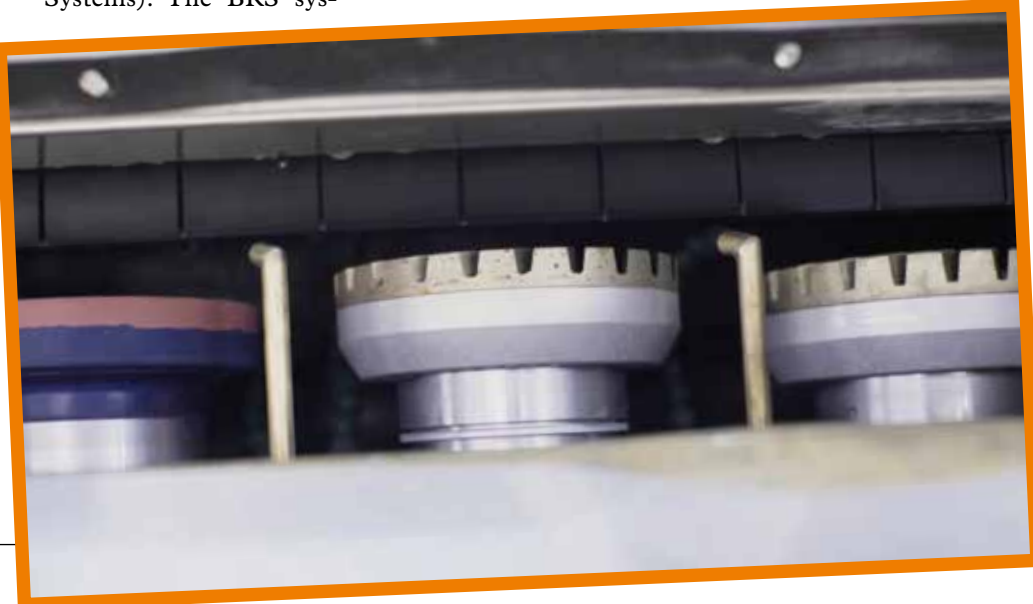
The ELB Fully Automatic range of automatic glass edging machines can be fully integrated into Bovone's automated robotic systems, known as BRS (Bovone Robotic Systems). The BRS sys-

tem is specifically designed to enhance the productivity and safety of operators during the processing of large sheets. By integrating the ELB Fully Automatic range into BRS, operators can benefit from even greater efficiency and safety, enabling them to handle large sheets with ease and accuracy. This

integration helps ensure that the production process is as streamlined and seamless as possible while also maximizing the safety of both operator and machine.

Bovone will be participating in the Italian group exhibition organized by Gimav for China Glass 2023. The fair marks an im-

portant occasion to meet buyers from the Far East who are always attracted by technologies provided by the Western industry. As such and recognized worldwide for its superb quality and high innovation rating, Bovone will be present with its sales force - all to guide buyers through its wide range of technologies.



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