

# Glass powder filtration optimized by patented **VITROSEP** technology

Setting new standards of water treatment efficiency in the glass industry by addressing the long-standing obstacles to separating glass powder from water in polishing processes, VITROSEP's system of advanced filtration, automation and visionary software accelerates effective operations that both enhance glass quality and promote sustainability.

**A**n enduring challenge within the water treatment field is that of separating glass powder particles from the water used in glass polishing processes, which has always provoked an ongoing search for effective solutions. Here, for a problem that has puzzled the industry for years, a solution has finally been found in the patented VITROSEP system - an innovative system that not only addresses the issue effectively but also ensures stable operation through the implementation of sensors, automation and cutting-edge software.

## **DIFFICULTIES OF PARTICLE SEPARATION**

Glass powder particles are notoriously difficult to separate from water. In the glass industry, vast amounts of water are used in polishing processes, which results in the incorporation of glass particles into the water. The presence of these particles can damage equipment, affect glass quality, increase costs, and, if an efficient method is not used, become an environmental risk. Until





the arrival of VITROSEP, the total separation of glass particles was considered an insurmountable challenge.

### LEVERAGING AUTOMATION IN FILTRATION

What distinguishes VITROSEP is its comprehensive approach to addressing this problem. Instead of relying on traditional methods such as centrifugation or sedimentation, the system uses advanced and highly effective filtration. Automation is another crucial aspect of VITROSEP. High-precision sensors constantly monitor process parameters and ensure optimal separation. Additionally, automation allows the system to operate continuously without human intervention, significantly increasing the efficiency and reliability of the process. The software developed specifically by VITROSEP is key to its stable operation. This software not only controls valves, pumps, and other components, but also collects and analyzes real-time data. The ability to adapt to variations in water quality and the concentration of glass particles ensures that VITROSEP is an extremely reliable solution in various operating conditions. Furthermore, the software provides operators with a detailed view of system performance, facilitating informed decision-making and process optimization.

### AN ENTHUSIASTIC RECEPTION

VITROSEP has been warmly

received in the glass industry, where it has proven to be a revolutionary solution for water treatment. The advantages of this system are clear. Reducing glass particles in the water not only improves the quality of the glass produced but also extends the life of equipment and reduces maintenance costs. Additionally, by reducing the consumption of water, grinding tools, and energy, VITROSEP contributes to sustainability and compliance with increasingly stringent environmental regulations.

### TAKING INNOVATION SERIOUSLY

In sum, VITROSEP is much more than a simple water treatment solution for the glass industry. It is a patented technology that has overcome a major challenge and revolutionized how this problem is addressed. With its comprehensive approach combining the separation of solids, automation, and advanced software, VITROSEP has proven to be an extremely reliable and effective solution. In a world where sustainability and efficiency are essential, VITROSEP stands out as an example of innovation that benefits both the glass industry and the environment.



C/ Garrigàs, 9-A  
E-17600  
Figueres (Girona)  
SPAIN  
Tel.: +34-972-507-743  
E-mail: [info@VITROSEP.com](mailto:info@VITROSEP.com)  
[www.VITROSEP.com](http://www.VITROSEP.com)