

# Preventive maintenance excellence thanks to **KERAGLASS** innovation

Consistent glass quality depends upon process stability as much as technology. By integrating protected heating elements, advanced convection, automated roller cleaning and continuous sensor supervision, KERAGLASS furnaces transform maintenance into a preventive strategy that improves repeatability, reduces downtime - all while extending equipment lifespan.

**G**lass quality is not determined solely by installed technology, but by the continuity and stability of the production process. In tempering operations, preventive maintenance is a decisive factor in improving repeatability and ensuring consistent performance over time.

## **COMPONENTS THAT ENSURE PROCESS QUALITY AND RELIABILITY**

### **Heating elements**

Heating elements are the core of the furnace's heating system. An exclusive protection system developed by Keraglass for lower heating elements enhances radiation quality and delivers long-term reliability, with an operating lifespan exceeding 20 years.

## **THE CONVECTION SYSTEM**

An exclusive air-generation

system, based on turbines integrated into the furnace and operating automatically with filtered air, maintains exceptional cleanliness inside the heating chamber, preventing contamination and related glass-quality issues.

Accurate air-flow balancing ensures uniform heat distribution, making the convection system fundamental to homogeneous heating and stable, repeatable performance.

## **SYSTEMS AND COMPONENTS TO BE MONITORED**

### **Rollers**

Roller inspection and cleaning directly influence surface quality and the stability of glass movement inside the furnace. Scheduled maintenance reduces the risk of defects and unplanned downtime.

Keraglass has developed the RCK Machine, an automat-



ed roller-cleaning solution that eliminates the need for disassembly. The system reduces breakage risks, minimizes downtime, and lowers labour costs, while enabling faster, more efficient main-

tenance procedures.

#### Temperature sensors

Data is only as reliable as the sensor that generates it. Periodic calibration is therefore essential to en-

sure accurate measurement and precise process control. Dedicated software continuously monitors sensor status, alerting operators to anomalies and prompting routine maintenance activities needed to maintain high system performance. Why preventive maintenance makes the difference:

- Greater process repeatability
  - Reduced unplanned downtime
  - Lower maintenance and intervention costs
  - More consistent glass quality over time
  - Extended equipment lifespan
  - The Keraglass approach
- Keraglass furnaces are engineered to simplify the monitoring of critical components and to support efficient maintenance planning. Advanced supervision solu-

tions enable continuous status monitoring and timely intervention, transforming maintenance from a reactive necessity into a structured preventive strategy.

#### Looking ahead

Structured maintenance is the first step toward more efficient and reliable production. In an increasingly demanding market, integrating supervision and preventive practices into daily operations is no longer optional, but strategic.



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