

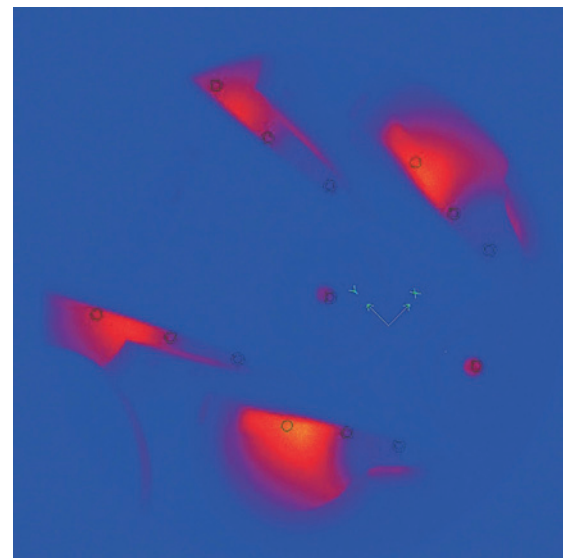
Blank mould temperature regulation with **TIAMA** HOT blank

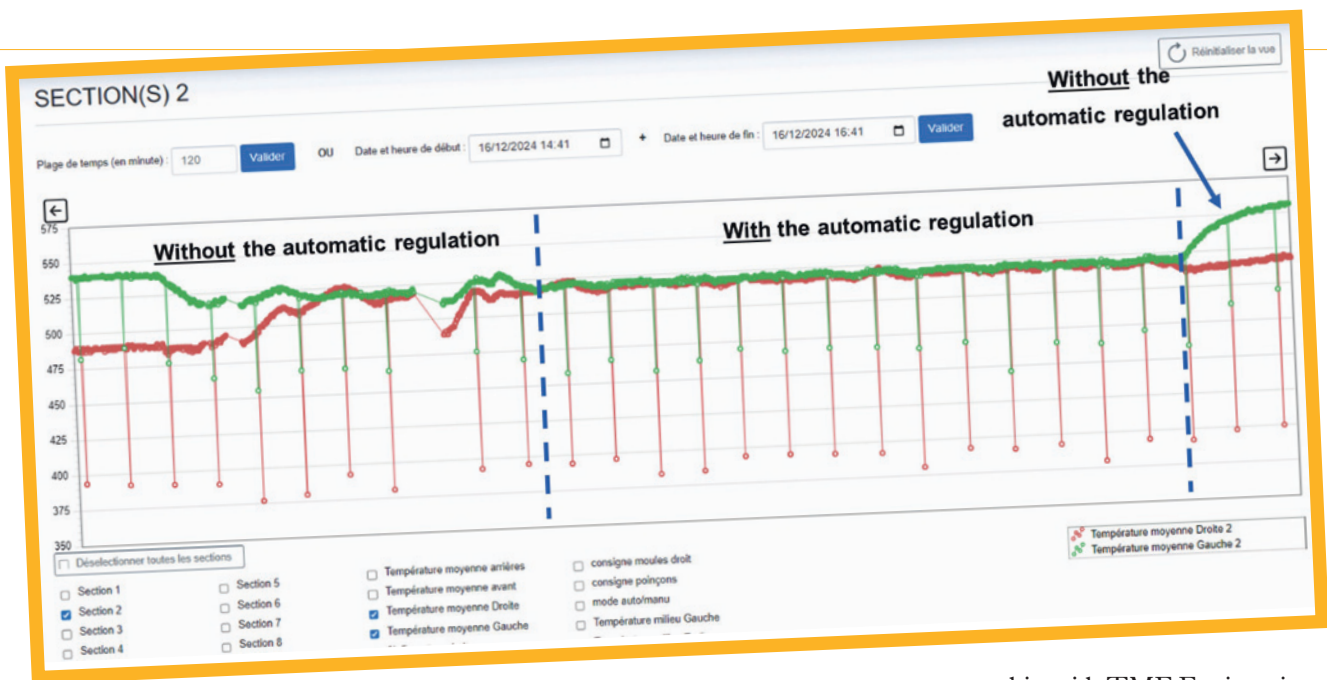
Offering automated optimization of both blank mould and plunger temperatures, TIAMA HOT blank ensures precise, repeatable measurements, temperature regulation and enhanced efficiency. Introduced now by TIAMA, it also improves process stability, reduces defects and aids informed decision-making for manufacturers – all thanks to its robust design and intuitive interface.

Launched recently, Tiamo HOT blank was designed to support glass manufacturers in production optimization. Providing precise, reliable data and closed-loop to control the blank mould and plunger temperatures, it ensures enhanced efficiency and consistency. As part of the Tiamo HOT systems range and aligned with the YOUiverse concept, this innovative solution provides precise and repeatable data on blank mould and plunger temperatures – enhancing both process stability and product quality.

ACCURATE, REPEATABLE TEMPERATURE MEASUREMENTS

For each section of the IS machine, the Tiamo HOT blank is equipped with a dedicated camera. This allows the system to measure the temperature of blank moulds and plungers with precision and reliability. With up to three readings per half-mould and one per plunger, the system delivers up to 14 temperature points per section for a double gob IS machine. Temperature data is recorded at every cycle while being displayed on the intuitive Tiamo HOT blank interface. This information can also





be easily extracted for further analysis, through our Tiama Eco-System solution - helping manufacturers make informed decisions to optimize their processes.

AUTOMATIC REGULATION FOR ENHANCED EFFICIENCY

The Tiama HOT blank employs a closed-loop to automatically regulate mould temperatures. By capturing precise data at every cycle, the system ensures consistent temperature management during day/night variations or seasonal changes. It also maintains temperature stability within $\pm 5^{\circ}\text{C}$ of the setpoint while adjusting cooling times within predefined ranges - efficiently using available cooling capacity. By managing electrical signals from IS machine cooling valves, the system operates universally - independent of IS machine software and electronics.

KEY BENEFITS FOR GLASSMAKERS

The Tiama HOT blank offers several practical advantages:

- Reliable and accurate temperatures measurements for all sections at each cycle;
- Enhanced temperature stability, leading to fewer thermal defects and higher product quality;
- Historical data trends that pro-

vide insights for process optimization and troubleshooting;

- Faster identification of air-cooling issues on the IS machine, reducing downtime and improving response times.

ROBUST DESIGN AND EASE OF USE

Built for durability, the system's cameras are designed to operate in challenging environments with minimal maintenance. Its compact design integrates smoothly with IS machines, with installation requiring only standard factory air and water supplies (optional).

A PRACTICAL ADDITION TO PRODUCTION

The Tiama HOT blank equips glassmakers with essential data so they can better manage blank mould and plunger temperatures - enhancing both overall production efficiency and process optimization. Its user-friendly interface makes it easy to analyze trends and identify areas for improvement - helping manufacturers achieve consistent results with confidence. As a new and evolving solution, the Tiama HOT blank system is continuously improved through valuable customer feedback. In addition, several major new features are currently in development, thanks to the

partnership with TME Engineering to further strengthen the system - providing even more comprehensive data on the blank side, such as gob loading and advanced safety monitoring.

COMPETITIVE COST AND RAPID ROI

Given the competitive cost of the Tiama HOT blank system and the demonstrated gains already experienced by users, a return on investment (ROI) within less than 12 months is achievable on a majority of production lines. This makes Tiama HOT blank not only a practical addition to production but also a financially sound investment for glass manufacturers.

While no system can solve every challenge, the Tiama HOT blank is designed to provide practical tools and reliable data to support better decision-making and overall process management. ■



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