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automation

FLC

Bucher Automation Lehr Control System



Bucher Automation lehr control system lowers error quota and reduces operating costs

The traditional safety technology in the control station for annealing lehrs is outdated. To meet the demanding requirements of the complex cooling processes in glass production, Bucher Automation has developed an innovative control system that widely automises quality-sensitive operating processes in annealing lehrs. Thus optimal operating conditions are always the norm in the heating and cooling zones, which is essential for product quality. In addition, the new operating terminal enables the operator to detect, localise and eliminate disturbances easier and more quickly. As a result, the new control system significantly decreases refitting time as well as the error rate due to incorrect input, thereby operating costs are reduced.

Most important features

- An item management system allows, for instance, the individual control unit parameters in the annealing for more than 200 glass container types to be saved in the control system
- A freely configurable Ethernet interface enables connec tions to superordinated process guidance systems for trans mitting system states and evaluating productivity
- The connection to the Bucher Automation E-timer also allows order status information such as job changes or section-reduced operation to flow into the system – this information is essential for temperature control in the annealing lehrs and therefore for quality assurance
- Graphical overview displays all of the aggregates including important parameters such as temperatures in the different heating and cooling zones or speed of the conveyor belt
- In the user management section up to 50 different users can be configured and ten user levels defined
- Management of access rights for administration, maintenance and actual operation
- The system logs all usage in order to quickly detect and resolve the causes of any disturbances
- Data transfer via integrated Ethernet interface or USB stick
- Optical and acoustic signal alerts in case of disturbances



Hardware

Siemens S7-1500 PLC controller
Siemens G120 frequency curves converter motor
Siemens TP1200 Touch panel
Eurotherm control unit for emergency operation
Freely configurable Ethernet interface
Remote maintenance via VPN

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