

Software & Technologie Glas GmbH Cottbus



Company Info

Company

STG GmbH Cottbus

Country

Germany

City

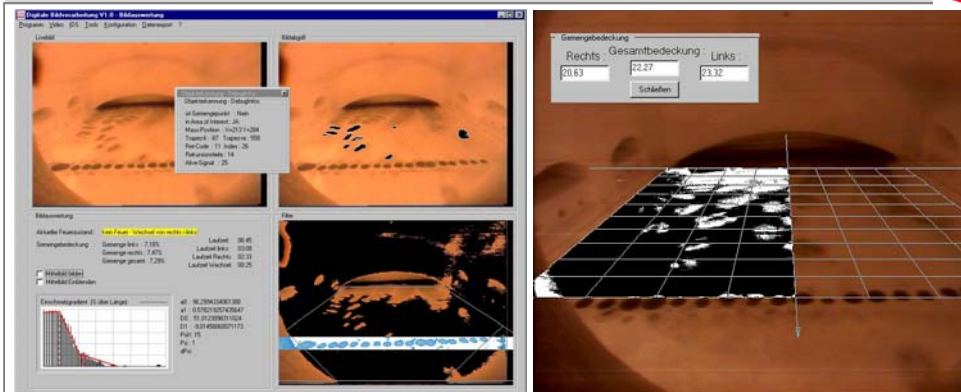
Cottbus

Specialist for

Solutions for industrial furnaces

Industry

Glass



Specialist for: Solutions for industrial furnaces

↓ Company profile:

With the innovative technological solutions for glass melting ends offered by STG GmbH Cottbus, the glass industry can save energy and reduce the NOx concentrations. Based on cooperation with Siemens, STG has long years of know-how in glass-specific automation solutions. Solutions have been implemented for optimum process control, sensors and heating of industrial furnaces in more than 15 countries.

↓ Application example:

The biggest part of nitrous oxide formation in glass melting ends is due to high temperatures and local excess concentration of oxygen and nitrogen. The result is an impairment of the quality, service life and efficiency in the glass melting process. STG has dedicated a lot of work to reducing NOx concentrations and has equipped its progressive system with the Simatic PCS 7 process control system. The system consists of long-lasting zirconium oxide oxygen probes which serve as a basis for lambda-controlled combustion air supply, energy saving and low-pollution burner solutions for gas and heating oil as well as blocking air lances for optimum control of the combustion air distribution. The video image evaluation of the furnace chamber is also equipped with Simatic technology for online analysis of the melting behavior. This allows monitoring of the optimum conditions for low NOx content and low energy consumption. The determined values are fed into Simatic PCS 7 via Profibus.

This combination of innovative technology and intelligent automation reduces NOx emissions to 500 to 700 mg/Nm and as a result of the energy saving the investment pays off within the first two years.

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