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## 产品/机械

### Glass Melting

Using oxygen to optimise glass melting processes and comply with increasingly strict legislation

melting glass with oxyfuel

Using oxygen instead of air in glass combustion processes offers a number of benefits. It eliminates the nitrogen ballast and therefore increases flame temperatures. Oxygen-enriched solutions also raise the concentration of CO<sub>2</sub> and H<sub>2</sub>O in the vicinity of the flame. And since these gases are mainly responsible for thermal radiation, they make gas jets more efficient.

There are a variety of ways to increase combustion efficiency when melting glass. These include:

- All-oxyfuel
- Oxyfuel boosting
- Oxygen enrichment/lancing.

We offer a range of oxygen-based combustion solutions. These innovative technologies bring a host of benefits, including:

- Reduced emissions/CO<sub>2</sub> footprint
- Energy savings
- Increased productivity
- Improved glass quality
- Elimination of nitrogen ballast
- Improved heat transfer.

### Burner Technologies

Deployed correctly, burners help control heat input more accurately, improve glass circulation and enhance batch melting. You can combine our burners with oxygen lances to increase your melting capacity further. We offer a range of burners tailored to individual applications.

#### Supporting Services

We offer fast, efficient delivery and support services to keep your furnace running with virtually no interruptions and help prolong its service life. Our oxyfuel service also enables you to continue production during regenerator or recuperator repairs by eliminating the need for a heat recovery device.

## 产品和背景

The glass industry is shaped by various market, technology and environmental trends. Although endless recycling makes glass an environmentally friendly packaging option for many manufacturers, there is growing pressure to reduce the carbon footprint of glass manufacturing and recycling processes.

This is reflected in increasingly strict legislation, forcing glass furnace operators to cap emissions – with attention focusing on nitrogen oxides (NOx) in particular. Because of the health and environmental risks associated with NOx, European legislation, for instance, has set new threshold values that lie significantly below the current emission levels in many furnaces.

In addition, glassmakers are increasingly challenged to control or reduce furnace, raw material and energy consumption costs and increase pull rates. High raw material prices are also prompting many glass manufacturers to increase their share of recycled materials.

#### The Glass Experts

Industrial gases are an extremely effective way of meeting today's glass production challenges – helping you to increase furnace pull rates, enhance the quality of the final product and reduce emissions.

We work closely with leading glass manufacturers across the globe to help find the optimum answer to the complex equation between energy conservation, productivity, quality and emissions. Leveraging the latest gas-enabled technologies, we also pioneer various process innovations to help you realise your individual targets. Our expertise covers all glass types from float and solar through specialty and fibre to container and art & tableware.

Drawing on our proven capabilities across the entire glass spectrum, we support and advise you at all stages of the solution lifecycle. Our complete packages include:

- Full technical evaluation of existing plant
- Feasibility studies
- Individual development projects
- On-site trials and demonstrations
- Glass modelling with computational fluid dynamics (CFD) and mathematical modelling (GS®)
- Complete hardware infrastructure
- Installation, commissioning and process optimisation
- Training
- Extensive after-sales service (consulting, safety, auditing and training).

#### Company Profile of Linde Gas

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