Partner of choice for all your glass treatment needs

Experience counts
We have many years of experience in flame-based glass surface treatments and channel these insights into the ongoing evolution of our innovative HYDROPOX® offering. Having successfully implemented more than 60 projects around the world, we cover the entire spectrum of flame treatments for glass.

Deep process know-how
Our team of experts has proven experience across the full glass treatment application spectrum. Covering the full solution lifecycle, from design and build to install and support, we also deliver the accompanying control system and gas supply concept. And our support does not cease on successful installation of your system – our experts are always on hand if you run into operational issues or have optimisation questions.

Supply and supporting services
Depending on your volume requirements, we can supply your gases in cylinders or in bulk, always ensuring the highest reliability and safety standards. For added efficiency, we offer gas management services such as automated tank level monitoring or Internet-based tank and cylinder tracking so you are free to concentrate on your core business. Let’s discuss how we can help you.

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HYDROPOX®
For the perfect finish.
HYDROPOX® for the perfect finish

Increased brilliance
HYDROPOX® overcomes the problems associated with mould-related defects or cloudy appearances in articles produced by press or blow process technology. It does this by briefly heating the glass surface to a temperature above its weakening point, thus creating a smooth and brilliant surface.

Healed micro-cracks
It eliminates seams and edges that often remain on the final product. Highly focused flame impingement helps to remove these seams and edges – from wine glasses for instance – by heating the surface above its weakening point, thus enabling it to seamlessly combine with its surrounding.

A closer look at the technology
Our sophisticated HYDROPOX® burners come in both pre- and surface-mixing designs to meet individual requirements. Surface-mixed burners work with separate gas and oxygen feeds, whereas pre-mixed burners work with one combined feed (see figure 1). They are designed to run on either oxygen and hydrogen or oxygen and natural gas. Pre-mixed burners ensure a more homogenous flame curtain. As a result, the same energy is applied to each spot on your workpiece for an extremely uniform surface finish.

Benefits at a glance
- Higher heat transfer rates, working distances, flame shapes, etc., can all be configured to enhance the efficiency of your glass surface treatment and fine polishing processes.
- Eliminated seams and edges – from wine glasses for instance – by heating the surface above its weakening point, thus enabling it to seamlessly combine with its surrounding.
- Increase in productivity – combining the benefits of hand-crafted products with normal line speeds.
- Pre-mixed burners ensure a more homogenous flame curtain. As a result, the same energy is applied to each spot on your workpiece for an extremely uniform surface finish.
- Oxygen/hydrogen mixtures offer greater efficiency than oxygen/natural gas mixtures, with pre-mixed models outperforming surface-mixed models in both cases (see figure 2).

Configured to individual needs
To suit individual needs, HYDROPOX® is designed to run on either oxygen and hydrogen or oxygen and natural gas. The process parameters of these burner technologies, such as flow velocities and heat transfer rates, working distances, flame shapes, etc., can all be configured to enhance the efficiency of your glass surface treatment and fine polishing processes.