

**LASAL**™

The solution to boost  
your laser performance



# Your Needs



Enhance your competitiveness by operating your laser system under reliable and consistent conditions.

## Meet the sustainable development standards

- Increase safety in your operations
- Save energy
- Reduce scrap

## Meet the increasing expectations of your customers

- Deliver high quality parts in a consistent and reproducible manner
- Strive for zero defect production
- Increase the skill of your operators to continuously improve production efficiency

## Reduce your production costs

- Reduce maintenance and unplanned expenses
- Increase your profitability

## Maximize your productivity

- Increase and retain performance of the system
- Reduce down time periods
- Add new materials and increased thickness parts to your offer



## Striving for excellence

You have one or more laser systems in your manufacturing site.

You need high performance and total reliability to make your investment profitable.

## Process optimization is your top priority!

You are looking for an outstanding partner with skilled knowledge to support you during your laser start-up and future optimization of your operations.



# Across your business

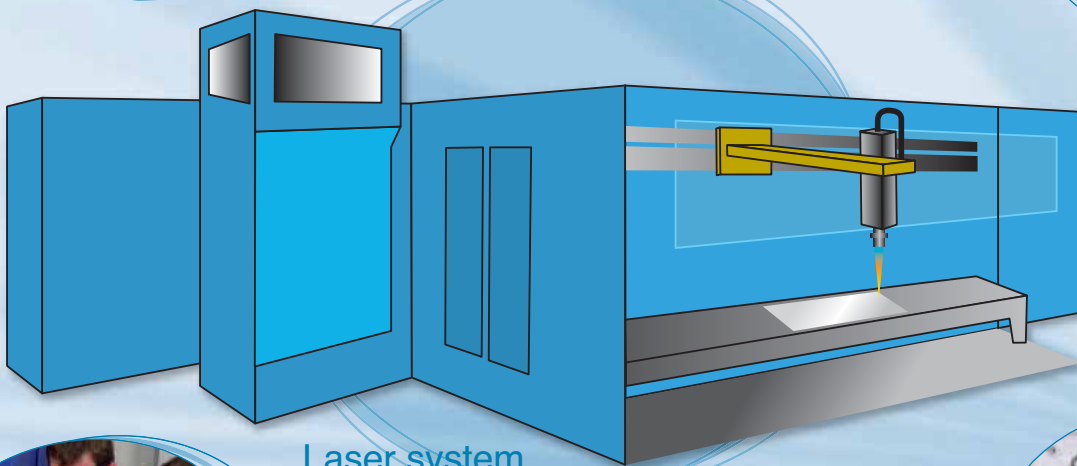
Benefit from turn key support for new and existing laser systems



Lasing gases



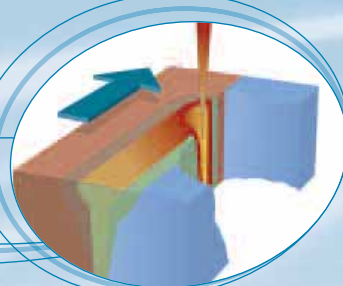
Packaged and liquid process gases



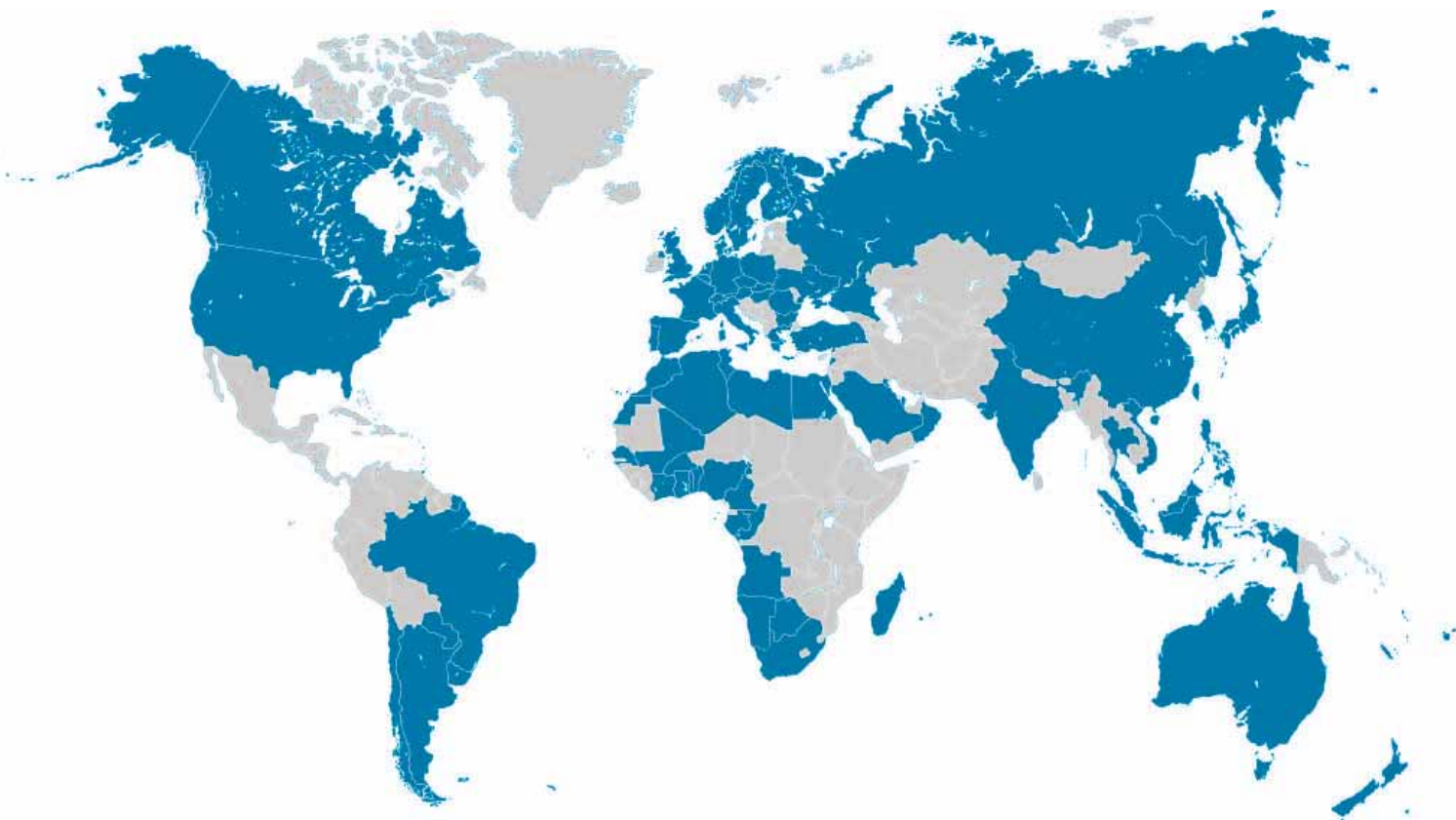
Laser system



Expertise and Innovation



Equipment and piping installation



We are present in more than 75 countries  
to locally support your global activities.

Contact :  
AIR LIQUIDE  
75, Quai d'Orsay  
75007 Paris - France



# Our offer

Boost your performance with **LASAL™**, proven and creative solutions for maximizing performance!



## Enhanced safety and reliability

- Gas and equipment compliant with most stringent standards
- Services such as gas stock management with remote monitoring
- Preventive and ongoing maintenance of gas distribution installations
- Safety communication & awareness training



## Consistent quality improvements

- Specifically developed lasing and process gases strictly controlled and filled in dedicated packages
- Selected equipment and optimum installation to feed your laser systems with required gas quality, pressure and flow rate
- The best technical support for your gas distribution system

## Production cost effectiveness

- **LASAL™ 2000** is a range of assist gases for cutting, optimized to reduce your production costs by increasing productivity with laser-quality fabrication (edge quality, surface appearance)
- **LASAL™ 4000** are the most advanced and cost effective laser welding shielding gas mixtures



## Expertise and Innovation to increase your performance

- **LASAL™ Service** provides you:
  - Process optimization by setting of gas and parameters
  - Training of laser operators
  - Digital beam analysis
- The **BIFOCAL™** solution enables double digit percent gains in cutting speed
- Range of **LASAL™** nozzles allow for considerable improvement of mechanical properties of welding bead

# Our Value Creation for You

Benefit from 25 years of experience in cutting & welding with lasers.



## Sharing the same challenges

Zero accident is our company and personal goal, deeply anchored in our values. Safety and sustainable development start with our desire to achieve excellence.

We are convinced that consistency and reliability are key values to build a sustainable growth.



## Deeper in your process

Air Liquide's ALTEC expert network offers you the opportunity to benefit from international experience in laser processing. Our expertise increases year after year through the use of our own laser equipment and through contacts with technical centers and industrial users all over the world.

## Providing innovative and added value solutions

In the Air Liquide technical center (CTAS), our R&D programs are done in cooperation with leading industrial partners to remain customer focused. This provides for innovative solutions to continuously improve welding and cutting applications.

