



*Making our planet more productive*

## Driving Productivity for Automotive Manufacturing



# The Competitive Edge In Industrial Gases

*As a supplier of industrial gases, supply systems and related services to the automotive industry, Praxair works every day to meet the quality, traceability, and reproducibility requirements of manufacturing processes. Our gases, supply systems and technical support are designed to aid our automotive industry customers in these key processes and measurement parameters.*

## Praxair: Your Total Resource

- The largest industrial gas supplier in North America and one of the largest in the world
- Expertise in supply system design, installation, and maintenance support
- Flexible supply options including cylinders, on-site, bulk, microbulk, and pipelines
- Analytical and diagnostic resources, including specialty gases

## Gases Used In Automobile Production

### Engine And Drivetrain Components

Heat Treating – N<sub>2</sub>, H<sub>2</sub>, Ar

### Bodies/Frames

Welding And Cutting – Ar, CO<sub>2</sub>, He, N<sub>2</sub>  
Hydroforming – N<sub>2</sub>

### Assembly (OEMs)

Welding (MIG, TIG, Plasma, Laser) – Ar, CO<sub>2</sub>, He, N<sub>2</sub>  
WWT – O<sub>2</sub>, CO<sub>2</sub>

### Climate Control Systems

Welding, Cutting, Heat Treating – Ar, CO<sub>2</sub>, He, N<sub>2</sub>, O<sub>2</sub>

### Production Equipment Machine Tools

Welding – Packaged Gases

### Lighting

Specialty Gases

### Windows

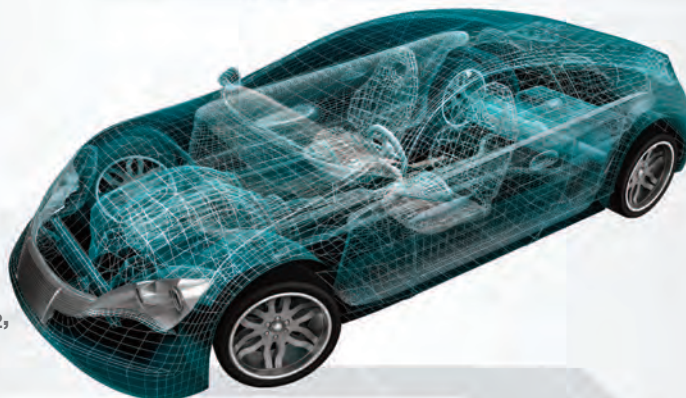
Glass Combustion, Float Bath Inerting – O<sub>2</sub>, N<sub>2</sub>, H<sub>2</sub>

### Electronics

Circuit Boards – N<sub>2</sub>

### Air Bags – Ar, He

### Tires – N<sub>2</sub>





## Increase Quality and Reduce Costs

Our team of experts can conduct a process evaluation at your facility to identify opportunities for productivity savings. Praxair's protective atmosphere systems offer measurable benefits over conventional, generated atmospheres. Additionally, Praxair offers a full portfolio of products for cutting and welding operations, including shielding gases, equipment, consumables and accessories. Praxair also offers a number of wear-resistant coatings and surface technologies to help parts last longer and resist corrosion. Praxair can help you increase quality and reduce costs for applications including:

- Laser Welding Technology
- VOC Removal
- Heat Treating
- Starsolver®
- Cylinder Gas Management
- Autoclave Gas Supply Systems
- Injection molding
- Laminar Barrier Inerting
- Industrial gas systems
- Fuel cells
- Lithium Ion Batteries
- Foaming
- Carbon Fiber Manufacturing

## Strategic Alliances Benefit Our Customers

Praxair's alliance with Atmosphere Engineering (AE) allows our heat treating customers to have easy access to complete and precise furnace control. The offering incorporates Praxair's gases, applications technologies and supply systems with process controllers, atmosphere sensor technology, data acquisition software, and precise furnace control panel systems from AE. The combined capabilities of Praxair and AE cover a broad spectrum of batch and continuous heat-treating processes such as carburizing, carbonitriding, neutral hardening, annealing, gas quenching and heat treating under vacuum.

## Total Customer Service

Customer service and support is a cornerstone of Praxair's philosophy. When you choose Praxair, you get much more than gas and equipment. You have access to a full range of customer services at your fingertips to assist you with your needs.



## Experience Counts

As one of the oldest and largest industrial gas companies in the world, Praxair has decades of experience in the metals and materials process industry. Whether you need help converting generator produced atmosphere systems to design, installation, and maintenance of cost-effective protective atmosphere supply systems, Praxair is your partner in success. For total capabilities from a single source, dedicated to helping you increase your output and improve your bottom line, call Praxair.

For more info, call 1-800-PRAXAIR or visit [www.praxair.com/automotive](http://www.praxair.com/automotive)



## Reliable Supply With The Praxair Supply Management Program

Customers participating in the Praxair Supply Management program benefit from our highly sophisticated distribution network of gas transportation vehicles and strategically located plants for fast, reliable response throughout North America. Praxair also has advanced remote telemetry technology that continually monitors your tank levels and automatically schedules the next delivery with the Praxair National Logistics Center in Tonawanda, N.Y.



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