



ionic
TECHNOLOGIES

Preferred Surface Engineering

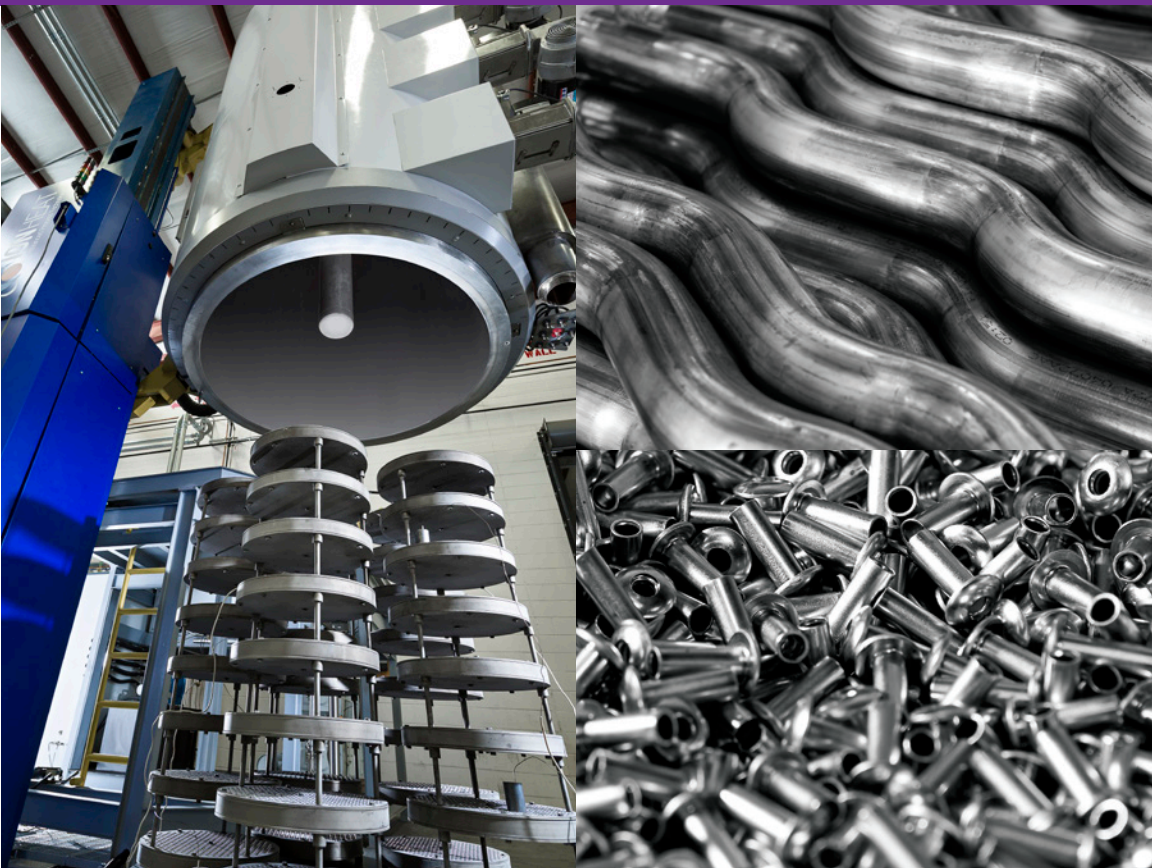


Better Processes Coupled With Unsurpassed Service

In 1998, Aalberts Industries of the Netherlands saw the need to offer metal working industries the highest level of Ion, Gas, and Solution Nitriding and Vacuum Heat Treatment services for all types of metals. We opened our doors in Greenville, South Carolina and never looked back.

In fact, we pride ourselves in looking forward — finding innovative processes and solutions for the Aerospace, Automotive, Medical, and Oil and Gas industries as well as the military. Our goal is to provide unparalleled service with 100% on-time delivery, the likes of which is unmatched by the industry.

Ionic Technologies. Provides Plasma Ion, Gas Nitriding and Vacuum Heat Treatment Services



Ionic Technologies
specialized service
increases surface
hardness, wear
resistance and
increased strength
of metals and alloys.



The Leading Edge Of Nitriding Technology.

In addition to conventional Vacuum Heat Treatment and Gas Nitriding, Ionic Technologies is greatly increasing tool performance and the value of finished products to above-market standards with state-of-the-art Oxi-Nitriding, Solution Nitriding and S-Phase Nitriding. All of these processes exhibit tremendous advantages relative to the conventional gas process for nitriding stainless steels.

Ion Nitriding is a thriving technology that significantly increases material fatigue and yield strength, enabling engineers to specify materials of their choice. We are problem solvers working at the forefront of Nitriding and are uniquely equipped to find a solution for your metallurgical requirements, even when the applications in question are yet to be identified.





Global Reach. Deep Resources.

Ionic Technologies is a subsidiary of Aalberts Industries N.V., a technology company employing approximately 14,700 people with more than 200 locations in 30 countries. Aalberts is committed to adaptation and innovation with a clear focus on customers.

To learn more about our capabilities and services please visit our web site at www.ionic-tech.com



NORTH AMERICAN FACILITIES

Greenville, SC



Services & Capabilities

Services and applications:

Gas Nitriding

- Gears
- Camshafts
- Power Steering Pump Products
- Powertrain Components

Solution Nitriding

- Bearings
- Pump Shafts
- Medical Components
- Aerospace Components

Lab Services

S-Phase Nitriding of Stainless Steel

- Precision Stamped Components
- Oil & Gas
- Poultry
- Valves and Metal Seals

Ferritic Nitrocarburizing

- Fine Blanked Components
- Cold Head Product
- Firearms
- Gears

Ion Nitriding

- Precision Stamped Components
- Pump Housing & Impellers
- Powered Metal Components
- Fuel Injector Components

Vacuum Heat Treating

- Bright Annealing/Stainless Steel Components
- Turbine Blades
- Mold Tooling
- Fuel Injector Components



Core Capabilities and Processes.

Following is a list of samples services and applications as well as a list of our featured equipment. Please contact us if you are looking for a specialized solution or service not shown here.

Featured Equipment List:

Ion Nitriding

59"H X 39" D – Load Capacity 4,500 lbs. - 1 Unit

94"H X 59" D – Load Capacity 16,500 lbs. - 1 Unit

82"H X 59" D – Load Capacity 16,500 lbs. - 2 Units Dual Base Unit

86"H X 59" D – Load Capacity 10,000 lbs. - 1 Unit Tandem Unit

Gas Nitriding / FNC / OXI

43"H X 48"W X 72"D – Load Capacity 7,500 lbs. – 3 Units

Vacuum Heat Treat

36"H X 36"W X 48"D – Load Capacity 4,500 lbs. – 2,200°F - 3 Units

24"H X 24"W X 36"D – Load Capacity 1,800 lbs. – 2,000°F - 1 Unit

36"H X 30"W X 48"D – Load Capacity 3,000 lbs. – 2,000°F - 1 Unit

Vacuum Tempering Unit

36"H X 30"W X 48"D – Load Capacity 3,000 lbs. – 1,400°F - 1 Unit

Cryogenic Unit

30"H X 30"W X 60"D – Load Capacity 4,000 lbs.(-300°F) - 1 Unit

Cryogenic Temper Unit

36"H X 36"W X 48"D – Load Capacity 3,000 lbs. – (-200°F) – 1200°F - 2 Units



The Surface Enhancement Technology That's Right For You.

We've helped a variety of companies find exactly the Ion, Gas, and Solution Nitriding and Vacuum Heat Treatment services they're looking for. If by some chance we don't have the precise process that's right for you, we'll develop one that is. Call us today for a free quote on your application, call (864) 288-9111.

ISO/TS 1649 & AS9100 Certified

Ionic Technologies, Inc.

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864.288.9111 | www.ionic-tech.com



IMPREGLON
SURFACE TECHNOLOGY GROUP

