



AIRON Industry Products

In collaboration with

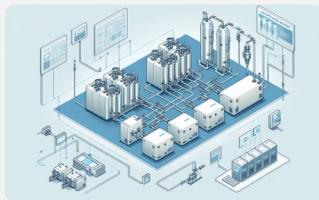
VERGINIA SRL

Since 2025, as the official exclusive distributor of AIRON Industry in Romania and the Republic of Moldova, **VERGINIA SRL** provides a comprehensive range of industrial gas solutions and equipment. Our product catalog includes cutting-edge **nitrogen and oxygen generators**, specialized equipment for **coal and gold mining, marine and offshore** applications, and solutions for **chemical processing**.

We also offer industry-specific systems for **metal and heat treatment, aviation, plastic injection, pharmaceuticals, aquaculture, and wire and cabling** sectors. Each product is designed to optimize operational efficiency, reduce costs, and meet strict industry standards while providing reliable performance in demanding environments.

With technical expertise and dedicated after-sales support, **VERGINIA SRL** ensures seamless integration of AIRON Industry solutions into your existing infrastructure, maximizing productivity and sustainability for your business.

NITROGEN GENERATORS



High Efficiency Nitrogen Generation

AIRON Industry delivers premium nitrogen generators tailored for industrial applications, optimizing processes with reliable production.

Custom Design and Modular Solutions

The NS series generators offer flexible, modular solutions designed to meet your specific business requirements.

Low Energy Consumption and Cost Savings

Cut production costs with energy-efficient, environmentally friendly nitrogen generation solutions.

Industry Standard Reliability

NS series generators deliver industry-compliant, reliable performance that enhances business continuity.

OXYGEN GENERATORS



Healthy and Reliable Oxygen Production

Ensure high quality oxygen production with our OS series oxygen generators designed for use in healthcare, medical and industrial fields.

Compact and Portable Solutions

Benefit from the advantages of mobile and portable use with compact oxygen generators suitable for your needs. Gain flexibility in your healthcare services.

COAL AND GOLD MINING



Coal Mining Safety

Using pure nitrogen in coal mines removes oxygen from the area. This helps prevent fires and explosions in the mine.

Gold Extraction

Pure oxygen helps speed up gold separation, making the process faster and more productive.

OIL AND GAS INDUSTRY



Safe Tanker Operations

Nitrogen covers tanks during filling and emptying at refineries. This stops dangerous chemical reactions and reduces fire risk.

Pipeline Maintenance

Nitrogen cleans long refinery pipelines and helps test them at different pressures to avoid damage.

Preventive Safety

Using nitrogen in oil and gas work helps spot problems early, which prevents costly damage.

MARINE AND OFFSHORE INDUSTRY



Tanker Safety Systems

Chemical, oil, and gas tankers use nitrogen for safety during loading, unloading and transport. Ships over 8000 DWT must have nitrogen systems on board by law.

On-board Solutions

We install nitrogen systems on ships for safer transport. These systems use less energy, making them better for the environment.

ESSENTIAL FOR HEALTHCARE



Hospital Applications

AIRON Oxygen Generator Systems provide a vital gas for hospitals with higher efficiency than traditional sources.



High Purity

Our systems deliver 93%-95% purity oxygen at low operating costs with uninterrupted production capability.



Plug and Play Solutions

Installation problems are eliminated with our ready-to-use oxygen generator systems in containers and on chassis.

CHEMICALS



With AIRON Nitrogen generators, you can guarantee the safe transfer of chemical materials, the removal of unwanted oxygen and impurities by sweeping the chemicals in the tanks before changing the chemicals in the tanks, the prevention of oxidation that may occur during production, the structure of the chemicals with the protective atmosphere during storage, as well as the absence of harmful gases into our atmosphere.

GLASS INDUSTRY



Efficient Melting

Oxygen accelerates glass melting for greater efficiency.

Improved Processing

Oxygen enhances cutting, polishing, and heat treatment processes.

Bubble Prevention

Superior oxygen dissolution prevents unwanted air bubbles in glass melt.

METAL AND HEAT TREATMENT



Oxidation Prevention

Nitrogen creates a protective atmosphere in high-temperature furnaces, preventing metal oxidation.

High-Pressure Applications

In aviation, defense, and automotive autoclave composite furnaces, nitrogen is applied at 12-15 bar pressure.

Enhanced Properties

Heat treatment processes improve metal mechanical properties for critical applications.

FOOD & BEVERAGE



Quality Preservation

Prevents oxidation and contamination during processing

Packaging Protection

Maintains inflation to protect products during transport

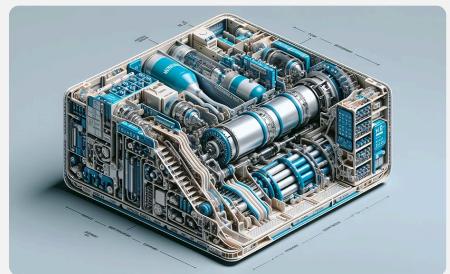
Extended Shelf Life

Lengthens product longevity through pure nitrogen packaging

Flavor Retention

Preserves original taste and aroma of products

AVIATION



Tyre Protection

Nitrogen prevents oxidative damage to aircraft tyres caused by moisture and oxygen

Pressure Stability

Maintains more stable tyre pressure and eliminates problems caused by heating

Safety Systems

Used in shock absorber systems and escape slide bearing systems

PLASTIC INJECTION



Enhanced Surface Quality

High pressure nitrogen gas in plastic injection molding improves surface finish of molded products

Better Color Quality

Ensures consistent, higher quality coloration

Material Savings

Creates gaps that reduce raw material usage

Cost Reduction

Lowers production costs through reduced material consumption

PHARMACEUTICAL APPLICATIONS



Product Integrity

Pure nitrogen gas maintains drug integrity during packaging and preserves quality in laboratory processes

Quality Assurance

Ensures product quality through deoxygenation and increases shelf life of pharmaceutical products

Safe Transfer

Provides safe transfer of sensitive medications in controlled environments

AQUACULTURE & OZONE



Improved Fish Farming Efficiency

Oxygen gas feeding significantly enhances the efficiency of aquaculture operations

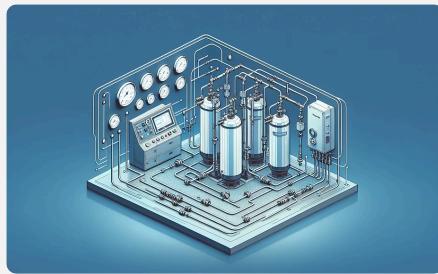
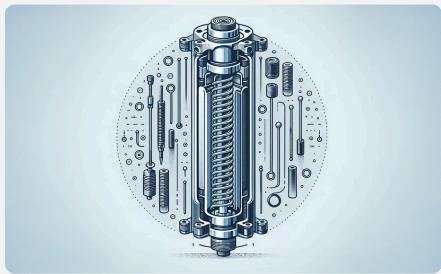
Enhanced Fish Health

Adequate oxygen levels promote growth, health, appetite, and general welfare of fish

Stress Reduction

Oxygen helps mitigate the effects of heat-induced stress in aquatic environments

GAS SPRING INDUSTRY



Gas Spring Mechanism

Precision rod connected to a piston moving in a sealed pipe with pressurized nitrogen gas and oil

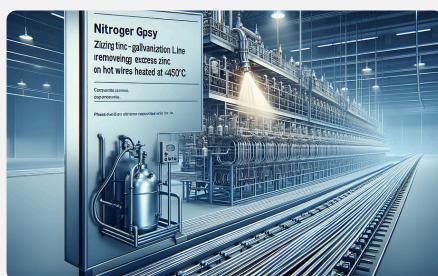
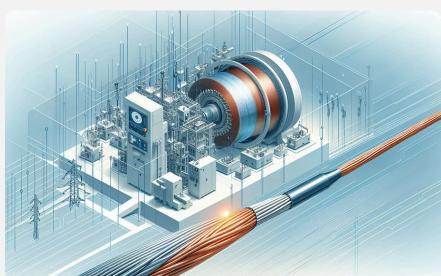
Nitrogen Pressurization

AIRON nitrogen generators produce 7-8 bar nitrogen that is then boosted to 200-250 bar for gas springs

Wide Applications

Gas springs are used extensively in automotive, aviation, furniture and medical sectors

WIRE AND CABLING



Oxidation Prevention

Nitrogen atmosphere prevents oxidation during cable coating processes

Zinc Residue Removal

Nitrogen gas spray removes liquid zinc residue at 450°C from galvanized wires

Annealing Protection

Nitrogen prevents oxidation during high-temperature annealing of copper wire