New Equipment
Ipsen Products
Ipsen’s global platform products set the industry standard for quality equipment at a cost-conscious value. New furnaces ship in a standard truck or shipping container with short delivery times, are easy to install and operate worldwide and handle a variety of common heat-treating processes. Choose TITAN® or TurboTreater vacuum products or an ATLAS atmosphere furnace.

Design your ideal heat-treating system with Ipsen’s custom product line. Choose a TurboTreater®, MetalMaster®, VFS® Internal or External Quench, Aluminum Brazing or Vacuum Oil/Gas Quench furnace and customize the work zone size, configuration, controls, quenching capabilities and more to meet your requirements.
Advanced Engineering Solutions

Ipsen’s Engineering Team has the experience and resources to design and manufacture innovative, highly technical atmosphere and vacuum solutions that allow you to perform virtually any specialized job.

Specific process requirements to 3,000 °F, with vacuum pressure down to 10⁻⁷ torr and 20-bar quench

Custom load/size configurations

Specialized material handling systems that are fully automatic and capable of loads in excess of 15 tons

Advanced controlled gas cooling systems for improved product/process results

Computerized simulation of process and part performance

**TITAN**

Horizontal and vertical 2-bar internal quench

Graphite or all-metal hot zone

Nitrogen and argon quench capabilities

PdMetrics® software platform for predictive maintenance

High-vacuum, debinding and sintering and low-temperature options

**TurboTreater and VFS Internal Quench**

Horizontal and vertical with up to 15-bar internal quench

Cooling system design generates the highest heat transfer coefficient of any furnace in its class

Low-pressure carburizing option

**Aluminum Brazing**

Batch and continuous configurations with single- and multiple-chamber options

Individually controlled heating elements surrounding the work zone to minimize cycle time and provide precise, uniform heating

Joint-free heating elements eliminate resistance buildup and hot spots

**Vacuum Oil/Gas Quench**

Available in three standard load sizes

Two-chamber design allows user to select quenching with either oil or inert gas (up to 2-bar positive pressure) for low-pressure carburizing and neutral hardening processes

Vacuum-tight inner door keeps the hot zone under vacuum and at temperature while eliminating vapor migration between the chambers

**MetalMaster and VFS External Quench**

Horizontal and vertical 2-bar external quench

Ideal for copper and nickel brazing processes

Specially engineered heat exchanger and turbine blower system
ATLAS

The ATLAS furnace utilizes the same push-pull chain loader as the industry standard, allowing it to integrate into existing lines for any brand of atmosphere furnace with ease.*

- Process simulation and integrated C-Profile optimization with Carb-o-Prof® software controls
- Ease of maintenance, thanks to a cartridge-design heat fan assembly, shelf-mounted quench oil heaters and oil circulation pump and safety catwalks
- Recon® III Burners increase thermal efficiency up to 75% by utilizing the heat from the exhaust gases to preheat the combustion air
- SuperQuench® and TurboQuench® oil-quenching systems minimize distortion and improve part quality

*compatible with most single-chain, in-out-style atmosphere furnace lines
We’re more than a manufacturer. When you partner with Ipsen, you get the support and resources of an entire team dedicated to your success.

**Customer Service**
The Ipsen Customer Service (ICS) Team provides comprehensive aftermarket support and services for any brand of atmosphere or vacuum heat-treating system.

**Project Management**
Ipsen’s Project Management (PM) Team works tirelessly from the time of sale through final acceptance, actively monitoring your project through the design, build and test phases. They serve as a streamlined point of contact between you and the internal teams, and provide documentation and communication at each milestone.

**Quality Control**
Ipsen adheres to strict measures to control, test and guarantee the quality of their work. As an ISO:9001 certified company, Ipsen’s Quality Control Team holds itself to a high standard and only selects reputable industry suppliers to ensure the final product passes our rigorous requirements.

**Marketing**
Let us help you share your story. The Marketing Team can assist with co-promoting your new equipment or retrofit through press releases, testimonials, videos and professional photography.
About Ipsen

Backed by 70 years of experience, it is our mission to strengthen heat treatment through expert-driven solutions. We are committed to delivering proven technology for a range of applications that enable you to transform space exploration, improve titanium medical implants and develop more efficient cars and jet engines.