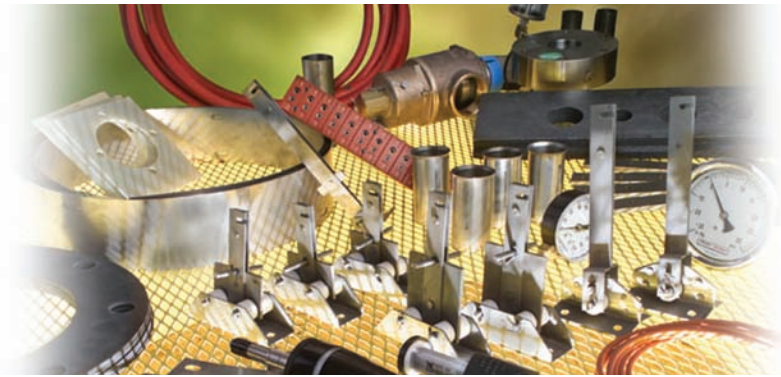




The Aftermarket Services Group. Dedicated to keeping you up and running productively.



Replacement Parts



Ipsen's multi million dollar stock inventories comprise over 2000 items to ensure that customers receive the required support of parts and components to maintain their furnace equipment. Every one of our furnace parts and components are made to our own OEM (original equipment manufacturer) specifications. The material, finish, tolerance, size, and other details are identical to the part being replaced—unless of course we have made improvements.

Additional support:

- Operation and maintenance documentation
- Experienced customer service representatives
- Dependable delivery
- Extensive inventory available

Customer service is available by calling 815.332.4941 or toll free 800.727.7625 and asking for the parts department.

Hot Zones

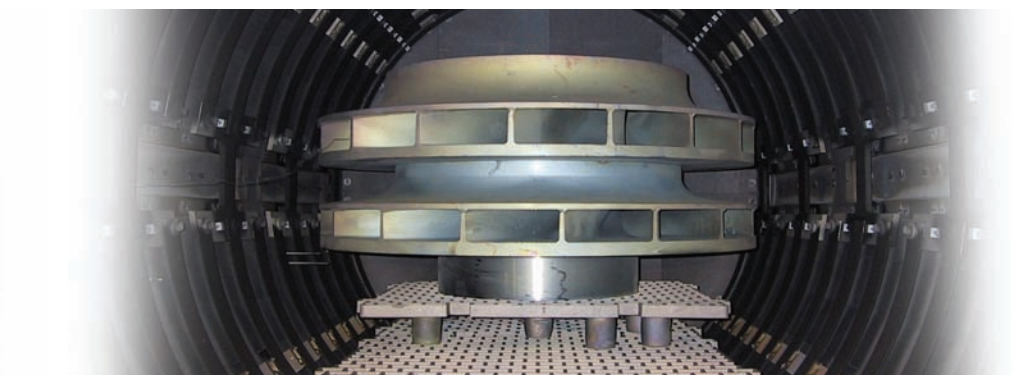
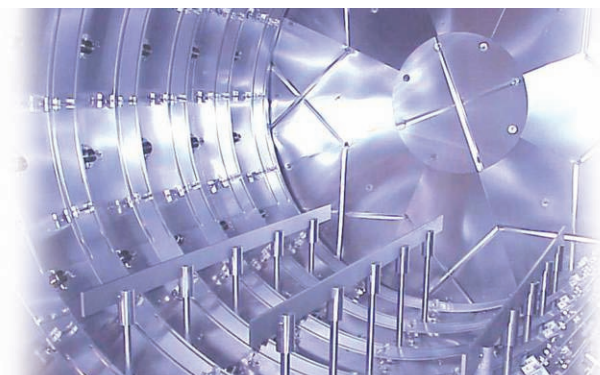
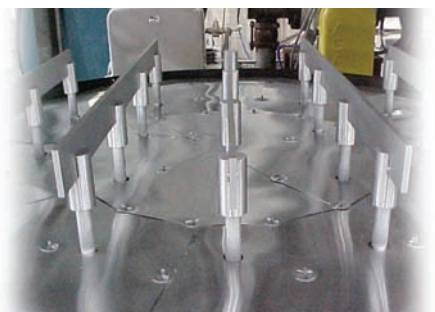
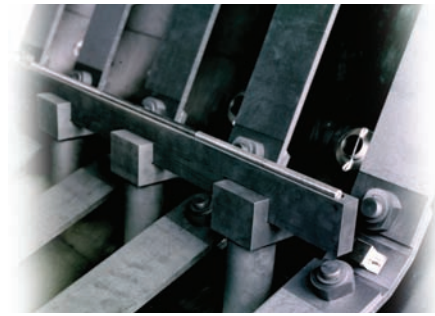
As the largest HOT ZONE manufacturer, Ipsen provides a high-velocity one-piece plenum design to help maximize performance.

When the time comes to replace or retrofit your vacuum furnace hot zone, it only makes sense to call on Ipsen. Most of our hot zones are supported by a heavy duty, double-wall steel plenum designed for easy installation, long-term reliability, and outstanding energy efficiency. The gas nozzles are oriented 360° around the work zone for the ultimate in uniform cooling.

Whether it's one of our standard models or a completely custom configuration, our aftermarket specialists can provide an Ipsen hot zone package to precisely fit your application.

Features:

- Gas nozzles 360° around the work zone for the ultimate in uniform cooling.
- Patented heavy duty element supports-unique quarter turn 'Twist-In, Twist-Out' design allows easy installation, adjustment, and removal
- All-Graphite Hot Zone for its long life and superior thermal efficiency
- All-Metal Hot Zones for processes that are susceptible to graphite contamination



Retrofits

Enhancing your furnace's performance is easy when Ipsen's experienced retrofit specialists work with you to determine your exact needs and deliver the right solution quickly.

Advancements in technologies are engineered to improve furnace performance and efficiency. These improvements are offered as upgrades, retrofits, and rebuild packages to customers who need precise carbon sensing for greater control, better surface appearance, faster cycle time, or other specified requirements.

Atmosphere Retrofit Packages:

- Recon III Burner Upgrade
- Nitrogen Purge System
- Gas Train Switches and Valves
- Heavy Duty Pilot Assembly
- Air Valve Manifold Assembly
- Quench Rack Limit Switch Assembly
- Oil Float Assembly
- Endogenerator Gas Assembly
- Control Panel Upgrades
- Air/Oil Heat Exchanger
- Burner Pilot and Radiant Tube Pilots
- Latest AMS and NFPA Requirements

Vacuum Retrofit Packages:

- Pumping System Upgrades
- Heat Exchanger Upgrade
- Diffusion Pump Upgrades
- Vacuum Gauge Upgrades
- Addition of Inert Gases
- Bung Kits
- Convection Heating Upgrade
- AvaC™—Acetylene Vacuum Carburizing Upgrade
- Control Upgrades and Modifications
- Furnace Door Actuator Upgrades
- Hearth Upgrades
- Motor Upgrades (TEFC)
- Chamber Modifications and Replacement
- Furnace Trim Control Modifications
- Stepdown Transformer



Service

Ipsen's field service engineers have the technical experience you need and are located throughout North America and support all of our furnace installations worldwide. Our service engineers enjoy being in the field, getting to know their customers, fixing problems, and providing recommendations for improvements.

Features:

- Preventative Maintenance Packages
- Onsite repair, insulation, evaluation and support
- Major field refurbishments
- Extensive start-up testing both in plant and in the field
- Machine inspection and evaluation
- Furnace relocations
- Computer upgrades
- Turnkey installation of new and used equipment
- Wide network of experienced, locally based field service engineers
- Training classes coupled with Ipsen-U education



About Ipsen

Ipsen is the largest manufacturer of heat treating equipment in the world. Our products include atmosphere and vacuum industrial furnaces and engineered ceramic components. Our aftermarket provides replacement parts, hot zones, rebuilds and retrofits, and exceptional technical support.

Together with our sister company, Ipsen International, Kleve, Germany, we are at the forefront of providing our customers with the latest technologies and a fast expanding array of product solutions—all designed to meet the accelerating demand for more economy, efficiency and environmental safety.



Ipsen, Inc.

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For faster service, Ipsen, Inc. also has Regional Service Centers near:
Charlotte, NC, Los Angeles, CA, Dallas-Fort Worth, TX, and in Canada

