



HEAT TREAT FEATURES AND PRICING

FurnXpert Continuous Heat Treat Application offers the ability to design and simulate Belt, Pusher, furnaces primarily used in heat treating industry, e.g., sintering, annealing, brazing etc. The parts simulated in the software are smaller in size.

KEY FEATURES:

Furnace Configurator: The Furnace Configurator module provides users the ability to create a virtual furnace to run their parts. Some of the important features include:

- ✓ Muffle – User can create muffles of various shapes
- ✓ Furnace Insulation – Users can create their own insulation from a list of refractories
- ✓ Heating Type - The type of heating can be either electrical or gas fired
- ✓ Burner Type – Burner type can be either conventional or regenerative
- ✓ Cooling Section – User can create cooling section (air or water cooled) for parts annealing

Part Module: A selection of basic part shapes is provided with the software. A new part can be configured by supplying new dimensions and material properties (provided with the software). The basic parts that can be created are cylinder, bushing, blocks, sheets, flange, etc.

Place Parts: The part placement configuration must be specified. The user can run furnace simulations using different part orientations to determine the effects of part placement on furnace design and performance. Some of the inputs for part placement data include (Baskets, Trays, Piers, etc.), part arrangement inside the container, and container position inside the furnace.

Process Parameters: The user has the ability to vary process parameters such as temperatures, Pusher/Belt Speed, and process gas flows.

Results: Results include Distance-Temperature profile of the furnace and parts, density profile for PM and MIM parts, delubrication point for PM parts, zone wise thermal loading, and heat requirement. For cooling zone, zone wise cooling requirement and air and water flow rate are available.

Reports: Results from each calculation can be displayed in a report format. They can be directly printed, saved as a PDF format or exported to an Excel spread Sheet.

Heat Audit/Power Calculations: Calculates heat to part, refractory loss, heat to gases, and heat and energy/power consumed in different zones along with the energy used for the run.

Property Data: Provides the user with a tool to create new materials by entering property data.

Price of the software: USD \$990 - This is a **SINGLE USER** license.

FurnXpert – Annual technical support and software maintenance

The technical support package entitles the user to help-desk support via telephone or e-mail for a period of 1 year from the date of purchase. During this period the user will also be provided with free software upgrades, as they become available.

Discounts: 5 – 10 license – 10% discount, more than 10 licenses – 15% discount