



CONTINUOUS HEAT TREAT PROCESS FEATURES AND PRICING

FurnXpert Continuous Heat Treat Process Application offers the ability to setup, size and simulate continuous Belt or Pusher furnaces primarily used in heat treating industry, e.g., sintering, annealing, brazing etc.

KEY FEATURES:

Furnace Configurator: The Furnace Configurator module provides users the ability to create a virtual furnace by providing overall dimensions, refractory and muffle data, zone dimensions and process gas info.

- ✓ 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 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 shapes 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, 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, Belt Speed or Push Rate, and Process Gas flow.

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 Energy Requirement.

Reports: Results from each calculation can be displayed in report format, can be printed to a local printer or converted into PDF files.

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 \$890 - 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