



## BATCH REHEAT 2D FEATURES AND PRICING

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**FurnXpert Batch Reheat Version** offers the ability to design and simulate large batch furnaces used in reheating of steel or aluminum parts.

### Key Features:

**Furnace Configurator:** The furnace configurator module provides users the ability to create a virtual furnace. It can handle both Box and Rotary types. Some of the important features include:

- ✓ 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

**Profile Module:** The users can create their own profile. The profile data includes

- ✓ Initial Furnace Temperature
- ✓ Soak Time & Temperature
- ✓ Ramp up rate
- ✓ Re-circulating gas flow rate

**Process Parameters:** The users have the ability to vary process parameters such as temperatures, number of stages, cycle time.

**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 pipe, rounds, slabs & billets.

**Part Placement:** The users can use different configuration (**across or along the furnace**) to place charges/parts in the furnace. The charges/parts can be placed directly on the furnace hearth or can rest on piers or other supports.

**Property Data:** Provides the user with a tool to create new materials, refractory and fuel.

**Furnace Setting:** Reverse calculation to determine time to reach target piece temperature can be determined with input of furnace temperature.

**Heat Audit/Power Calculations:** Calculates heat to part, refractory loss, refractory heat storage, heat to piers, heat to gases, and heat and energy/power consumed during entire heating cycle. Heat Balance during the entire heating cycle and total fuel and air consumed is also calculated.

**Results:** Results include Time Temperature profile of the furnace and parts, thermal loading, and fuel/air demand during heating cycle.

**Reports:** Results from each calculation can be displayed in report format, can be directly printed, and exported to Excel spread sheet

**Cooling:** Cooling cycle can also be simulated with calculation of air rate during cooling.

**Price SINGLE USER license:** Heating Only **USD \$1,550**, Heating & Cooling **USD 2,000**.

### 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**