

HEATXPert: FEATURES AND PRICING

HeatXpert for Walking Beam/Pusher/Rotary/Roller Hearth – Continuous furnaces

HeatXpert is off-line software to determine optimum heating strategy for Walking Beam, Pusher, Walking Hearth, and Rotary Hearth Furnaces used in Steel Reheating and Forging Applications. It has been developed specifically for furnace operators to determine optimum furnace settings. Using this software, one can generate operating setpoints during constant production while processing any size, shapes and grades of products in a continuous furnace.

Key Feature:

Recipe/Set-point Management (determination of optimum zone temperatures during constant production):

The system offers the ability to create setpoint recipes (zone setpoint temperatures) for various grades and shapes of product at different **Production Rates** or **Push/Walk Rates**.

The software also comes with the following additional features:

- ✓ Furnace can be configured with Zone/Furnace Dimensions, Insulation, Burner Type (Conventional, Regenerative, and Oxy), Fuel (gas or liquid) etc.
- ✓ Charges can be configured from basic shapes (Billets, Ingots, Slabs, Rounds) by entering dimensions, initial temperature, target temperature, target Del T and material properties (provided with the software).
- ✓ Property Data: Comes with entire database of Steel Grades, Fuel types, and Refractory materials.
- ✓ Provides capability to create new Steel Grades, Refractory materials and Fuel.

Results include

- ✓ Charge Temperature profile during entire heating cycle and at exit – Can be ported to Mill Program
- ✓ 2 D temperature of the charge at any furnace location
- ✓ The user can run single or multiple charges simultaneously to compare product temperatures
- ✓ Scaling/Decarburization depth at any point during the heating cycle
- ✓ Zone wise thermal loading, fuel and air inputs
- ✓ **Heat Audit/Energy Consumption Calculations:** Performs Heat Audit allowing user to determine fuel consumption, furnace efficiency, and cost of running a furnace.
- ✓ Calculates heat to part, refractory loss, heat to gases, and heat and energy/power consumed in different zones, Heat loss through the flue. The results are displayed on a Sankey diagram.
- ✓ Results from each calculation can be displayed in a report format. The results can be directly printed, saved as a PDF format or exported to an Excel spread Sheet.

Price Single Furnace license* :

\$1,000 and comes configured with one furnace and two charges (billets/slabs). Any additional charge (billet/slabs) will cost \$100 per charge.

HeatXpert – 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

* Sold individually