

# DETERMINATION OF BURNER CAPACITY FOR WALKING HEARTH FURNACE

## OBJECTIVE:

An Industrial Burner Manufacturer in Turkey wanted to determine the burner capacity in each control zones inside a walking hearth furnace.

## METHODOLOGY

Simulations were run using Continuous Reheat FurnXpert software. With the information provided by the client we configured a walking hearth furnace.

## CONCLUSION:

The results obtained from the FurnXpert software was compared with results from another software program. Since FurnXpert performs both heat transfer of the charges and heat balance of the furnace simultaneously, the iterated results obtained by using FurnXpert were much more accurate. Moreover, time to setup the furnace and run a simulation was much faster than the software the company used. FurnXpert also provided more flexibility to simulate the run closer to the actual scenario.

