

# FURNACE STRIKES AN ARC OF INTEREST THROUGHOUT ROSE PLANT



*Pictured: Dan Klein and Emilio Guilbe review plans for the assembly of the Arc Furnace which will be shipped to Santiago, Chili.*

The Electric Arc furnace project made itself known throughout the entire company in 2008. Designed by Dan Klein, the furnace was ordered by a foundry in Santiago, Chili. "This arc furnace is a duplication of an electric arc furnace originally designed in 1980 while I was still with Universal," Dan Klein reported. He said "The furnace performed so well, the customer did not want anything else. It's nice to know that the foundry groups agree with me that it is the right furnace to own!" After Dan tweaked the design, parts were cut and formed by our Prep Team, moved over to the Fit/Weld Team, moved to Machining, went through Blast and Paint and is now in Assembly. Shortly, it will be shipped via ocean containers for what is estimated as a ten week installation in Chili. Here are some other facts that might interest you:

- 50% of the steel in the world is melted in Arc Furnaces.
- This is the second new Arc Furnace designed and built by The Rose Corporation.
- We rebuilt five Arc Furnaces in the past ten years.
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- The Rose Corporation built most of the four other new Arc Furnaces that were designed by Universal Machine and EMC.
- Dan worked for Universal before coming to Rose 16 years ago.
- The Rose Corporation fabricated most of the components from this furnace design and sold them as parts for several existing furnaces in the past.
- This furnace will melt 10 tons of steel for the new foundry located near Santiago, Chile.
- The foundry will cast high alloy grades of steel for the mining industry.
- It will take 1 hour to melt the scrap that is dropped into the shell, when the roof is removed by the hydraulic cylinders. The furnace tilts 45 degrees to pour the molten metal into a ladle. The furnace will be powered by a 6 MVA transformer. The 10" electrodes will draw three 120 V/12,000 A arcs to the steel.

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