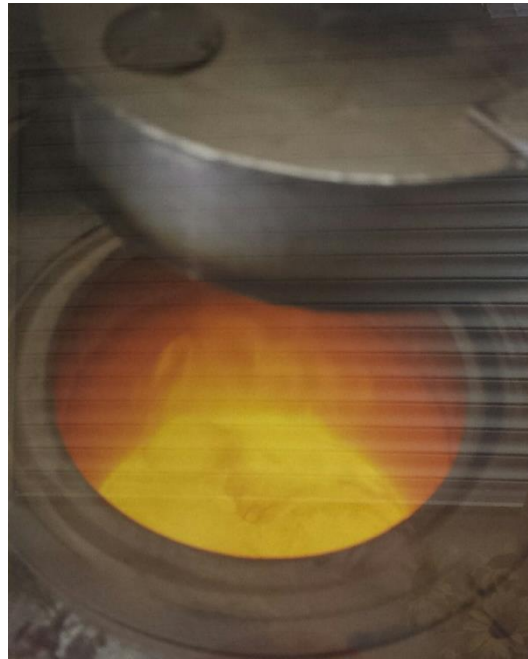
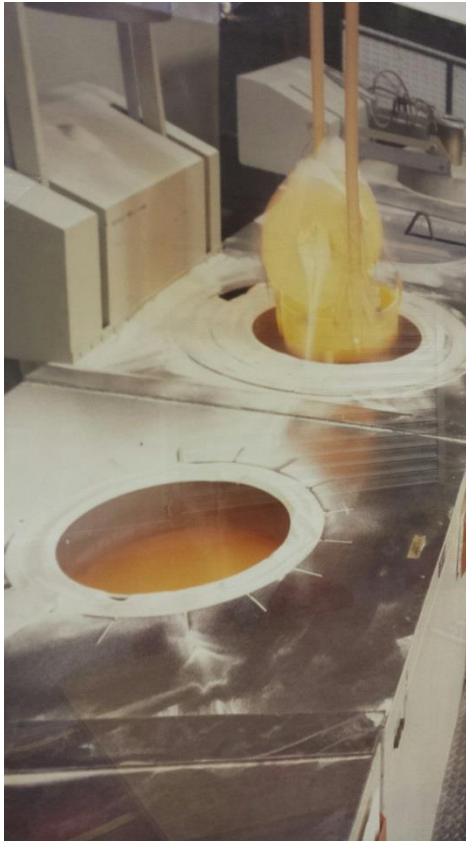


Fluidised Bed Furnaces



Above – View from above a typical fluidised bed furnace at around 700 °C. Left – Part of a fluidised bed heat treatment line installed at Beta Heat Treatment Ltd, with top loading crane.

How do they work?

A fluidised bed consists of a cylindrical retort made from high temperature alloy, filled with sand-like aluminium oxide particulate. Gas (air or nitrogen) is bubbled through the oxide and the sand moves in such a way that it exhibits fluid like behaviour, hence the term fluidised. The solid-solid contact of the oxide gives very high thermal conductivity and excellent temperature uniformity throughout the furnace.

TC positions

