Uniform Heat Treatment and Quenching of Small Parts using a Rotary Retort Furnace

When heat treating small parts the Rotary Retort furnace provides several advantages over conventional belt or basket conveyor. The method of conveyance through the retort drum eliminates the possibility for uneven heating due to a thick layer of parts on a belt or in a basket. The rotary action is constantly turning the parts over, exposing all of the parts to atmosphere and heat evenly.

The turbulent action of the Whirl-A-Way quench gives an increased quench rate over traditional quench tanks.

The rotary retort furnace system also has several advantages that will reduce operational expenditures over a mesh belt furnace. These are due to the fact that the retort is completely contained within the furnace, minimizing heat and atmosphere loss as well as virtually eliminating the thermal cycling a mesh belt or basket would see.