

### APPLICATION

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- Large canadian manufacturer of parts for the aerospace industry
- Aluminum solution heat treating
- Max operating temperature: 650°C
- Working zone 1.2m x 1.8m x 1.2m

### SOLUTION

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Pyradia has developed the most advanced line of Drop Bottom Quench Ovens for aluminum solution heat treating. These ovens incorporate state of the art insulation, control system and hoist mechanism which make them the most performing and reliable on the market.

- AMS 2750E classe I certified heat treating furnace
- Quenching time from 6 to 15s.
- Low-density tubular heating elements evenly distributed in the air ducts all around the working zone
- Dual speed electro-mechanical winch system robust and reliable
- High-efficiency ceramic fiber modules insulation :
  - Rapid heating cycle
  - Optimisation of energy consumption
  - Great resistance to high air velocity abrasion.



Electric Drop Bottom Project

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- Variable frequency drive system. Fully PLC automated loading and quenching systems
- High-efficiency fans located in the top plenum to procure a powerful vertical airflow, which passes evenly through the working area. As a result, the temperature uniformity throughout the working area is within  $\pm 9^{\circ}\text{F}/5^{\circ}\text{C}$  (or  $\pm 5^{\circ}\text{F}/3^{\circ}\text{C}$  when required), at any given temperature, even during ramp-up.