

GAS DROP BOTTOM OVEN

APPLICATION

- ▶ Large US manufacturer of components and equipment for the **aerospace** industry
- ▶ Aluminum solution heat treating
- ▶ Load capacity of 900kg
- ▶ Working zone 3m x 3.5m x 2.25m



SOLUTION

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.

- ▶ **AMS2750E classe II** certified heat treating furnace
- ▶ Indirect fired burners complete with heat recuperation assuring an average **energy efficiency greater than 70%**.
- ▶ Electro-mechanical hoist system which guarantees a precise and automatic **quench cycle, adjustable from 6 to 15 seconds**.
- ▶ **Four anchorage points** enabling the decentering of the load in the working zone unlike systems equipped with only two points.

- ▶ Economical and ecological solution thanks to a **Glycol management system** which enables to not only recuperate Glycol from the rinse water tank but also automatically adjust the concentration in both quench tanks.
- ▶ A third water tank that can be used either for quenching or rinsing.
- ▶ The mobile tank carrier is electronically driven with a multi-motor direct drive system requiring no chains nor sprockets. This configuration **minimize the need of maintenance and increase the lifespan** of the equipment.
- ▶ Variable frequency drive system. Fully PLC automated loading and quenching systems.



DROP BOTTOM OVENS