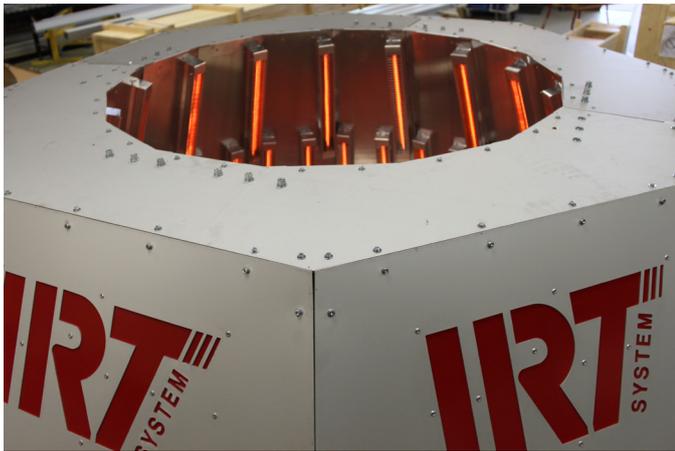


HEAT EXPANSION, AEROSPACE INDUSTRY



IRT HEDSON INDUSTRIAL SOLUTIONS

We develop, manufacture and supply custombuilt IRT drying and curing solutions to all industrial sectors.

IRT is a trademark belonging to Hedson Technologies, an environmental engineering corporation and world leading supplier of cleaning, curing and lifting equipment.



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The manufacturer reserves the right to introduce technical modifications.

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PROJECT DESCRIPTION

- **Type of industry:**
Aerospace industry
- **Place:**
-
- **Project number:**
302070

OBJECTIVE

Parts to be fitted correctly on fixture. Currently solved with advanced hydraulic techniques. Our objective was to find an alternative solution using infrared heat expansion.

PROCESS

- **Parts, material and dimensions:**
Processing parts, various dimensions
- **Type of transport, static/dynamic, speed etc:**
No conveyor involved, manual handling
- **Material (wet-dry paint/other), max temp allowed etc:**
No surface coating involved

IRT HEDSON SOLUTION

- **Chosen heating method, cassette dimensions, time, temperature increase/min, effect etc:**

An IR-oven which uses infrared heat to expand parts onto fixtures.

The system is pre-set to run 6 minutes and cool down for 3 minutes with password protected, adjustable settings. When the part has expanded into the correct position, it is fixed.

The oven is designed with 3 zones of 75 SingleHeaters with a total effect of 285 kW. The zones are used to increase flexibility and precision to reach the requested temperature within an optimal time frame.

Using infrared technique to heat expand is an application often used in high-tech industries such as the aerospace industry. Heat expansion offers high precision possibilities and is cost efficient compared to many traditional solutions such as hydraulics.

