

IRT BOOSTER, CAST IRON SURFACE FINISHING



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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PROJECT DESCRIPTION

- **Type of industry:**
outdoor oven manufacturer
- **Place:**
Denmark
- **Project number:**
300820

OBJECTIVE

To improve the surface treatment process in the manufacturing of outdoor cooking equipment.

PROCESS

- **Parts, material and dimensions:**
Batches of cast iron parts
- **Type of transport, static/dynamic, speed etc:**
Standard type conveyor
- **Material (wet-dry paint/other), max temp allowed etc:**
Inhouse open air, electrostatic, grounded, low solvent based, wet paint system

IRT HEDSON SOLUTION

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

IRT-Booster system, mobile version,
size 2504 x 1383 x 1969 mm, 80 kW.

CASE: MORSOE

TRIPLED PRODUCTION RATE

During a one year period Colin Broomfield managed to triple the production rate and lower surface coating cost 75% for Morsø's outdoor coating process. Colin is Project Consultant at Morsø Jernstøberi in Nykøbing Mors, Denmark. The company is appointed by the Royal Danish Court and has been manufacturing indoor and outdoor ovens for 160 years. With a background within automotive coating, it was clear to him that many improvements were possible.

Parts were being outsourced for enamelling; Colin suggested an inhouse open air, electrostatic, grounded, low solvent based wet paint system instead. Less waste, better working environment.

The convection oven used was lacking in efficiency; Colin suggested IRT's short wave infratechnique to replace traditional drying.

Instant start-up and shut-off plus reduced running time and increased speed resulted in reduced energy consumption and saved 3hrs/shift. "IRT set us up with testing equipment which worked so well right from the start, that we refused to give it back until it was replaced with the present equipment" Colin explains.

A new line is now being discussed based on the same successful techniques.



- With a background within automotive coating, it was clear to Colin Broomfield that similar techniques could be used in Morsø's production.



- The equipment that tripled production rates.



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