

Hydrogen Embrittlement Oven

ITS Job Profile



Requirements

A leading automotive suspension manufacturer asked ITS to develop a system that would reduce Hydrogen Embrittlement from parts after plating. To win the bid ITS had to provide a solution with a consistently precise material handling system and tight part temperature uniformity. With floor space being a premium a small footprint was imperative.

Solution - ITS Hydrogen Embrittlement Oven

The result was an electric heated close loop system whereas the product is loaded and unloaded at the same spot.

The main features of this system included:

- Fully automated square loop indexing conveyor system
- A two position preheat section
- Three position soak zone
- Vertical lift doors to prevent heat loss
- Single pass thru ambient air cooling section

Results

ITS designed and delivered a hydrogen embrittlement oven that maximized output and reduced labor costs for our customer.

Summary

The Hydrogen Embrittlement Relief Oven is available in either a Batch Oven or Continuous Conveyor configuration. In the continuous process, batched parts travel through the heating chamber in individual bucket carriers so that different type parts remain separated. Pneumatic vibration is incorporated at the off load station to ensure all parts are discharged from the bucket.



We look forward to partnering with you.
Contact ITS for a product proposal.
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