

# Controlled Cooling Tunnel

## ITS Case Study



### Requirements

The application required cooling cast iron and enamel without cracking the enamel.

### Solution - The ITS Controlled Cooling Tunnel

After coming out of the enamel furnace, the cast iron is very hot, and needs to be cooled at a controlled rate to prevent cracking, due to the different contraction rates of the enamel and cast iron. Incorporating the proprietary ITS air management system in the cooler, higher air velocity can be delivered to the cast iron to achieve a shorter cooling time.

### Cooling Tunnel:

Length: 36' long

Dwell time: 42 minutes

Temperature when exiting the oven: 1,350°F

Temperature when leaving the cooling tunnel: 120°F

### Results

ITS designed and delivered a stress relief solution that maximized output and reduced labor costs for our customer.

### Summary

Stress relieving requirements are unique for each application. Whether it is meeting ASME standards, internal or client standards, the key to success is having a furnace partner who listens carefully and can present solutions to meet your needs. ITS provides furnace solutions that best meet production and budget requirements.

We look forward to partnering with you. Contact the team at ITS to get started. [sales@itsllcusa.com](mailto:sales@itsllcusa.com) • 414.672.7700

