



***46% Production Increase and a
73% Cost per Part Reduction...not bad!***

Product Specifications

Product	Engine Blocks
Product Material	Steel
Conveyor Type	Overhead
Coating	Powder

The Old Way

- Gas convection curing with a 380' oven.
- After 75 minutes in a 475° oven the 600 pound engine blocks took a significant amount of time to cool before packaging and shipping.

Problems and Goals

- Process time is too long and does not allow them to meet production.
- The entire engine block reached 475°, so a significant cool time was required.



The New Way

- 48' short-wave infrared oven.
- 23 zones of control – allows for adjustments for various part sizes
- Instant oven response time – allows the power setting to be reduced to idle during line stops and in between parts

Benefits

- Coating cured in 1/10 the time.
- Infrared oven used only 5% of the floor space of the gas convection oven (infrared oven took up 258 ft² versus 7,200 ft² for the gas oven)
- Increased production by 46%
- 73% cost per part reduction