SCORPION® Case Study: Clogged Air Knife

7 Corporate Blvd., Sinking Spring, Pennsylvania 19608 USA
Phone: 610-678-5890  Fax: 610-693-6262
Email: information@readingthermal.com
www.readingthermal.com
Clogged Air Knife

Product: Chicken Breast Fillets

Plant: Chicken Processor - Southern U.S.

Problem: The company is having trouble producing chicken fillets with a consistent bake, causing low yields. A side-to-side and over-time variation in bake occurs sporadically during production runs.

What is the cause of the variation?
Clogged Air Knife

Analysis: Temperature profiling reveals large temperature drops (>100°F) across the band at 32ft into the process, just inside the entrance of Heat Box 2.
Clogged Air Knife

Solution: Physical inspection revealed that an air knife was clogged with product debris. The clog occurs after 2-3 hours of production.

Air knife cleaned and unclogged.