



2009 SUCCESS STORY

POUCH CHILLING & FREEZING SYSTEMS

PROBLEM:

POUCHES NOT FREEZING, CENTER CORE TOO WARM:

A large producer of pouches was looking to reduce chilling & freezing times and increase through put. The product was in 3 lb and 5 lb pouches produced at 60 pouches/minute.

At these sizes and rates, it was difficult to quickly chill and freeze the product. At the inner core of the pouch, the product does not release or give up heat easily. In fact, as the outer perimeter freezes, it creates a barrier that insulates the inner core thus increasing chilling & freezing times.

CREASING ISSUE:

An additional problem is that traditional pouch systems can crease pouches and have a high percentage of "leakers" caused by aggressive agitation of the pouches.

THE CHALLENGE:

How to increase heat transfer from the center of the pouches and reduce the product freezing time. In addition, some pouches are pre-printed and require gentle handling to reduce the chances of damaging the print.

THE SOLUTION:

CONTINUOUS POUCH AGITATION (CPA):

By adding an in-line agitation system that gently moves product from the center of the pouch to the outside perimeter there will be a dramatic increase in heat transfer and reduce the chilling & freezing times.

An additional benefit is that CPA is gentle enough not to mar printing on the pouches.



SUCCESS:

With faster freezing times, the floor space for the Pouch Cooling System is minimized and the power requirements are reduced yielding a more energy efficient system over traditional blast freezing systems.

- **Smaller Footprint**
- **Faster Chilling/Freezing Times**
- **More Energy Efficient**
- **Longer Product Shelf life**
- **Better Product Color**
- **Less "Leakers"**
- **Fewer Cripples**
- **Reduced Operating Costs**

If you looking to freeze more product and increase your production efficiency.

Contact us for more information