

# Can Maker Boosts Production by 20% Annually with Heated Wax Spray System

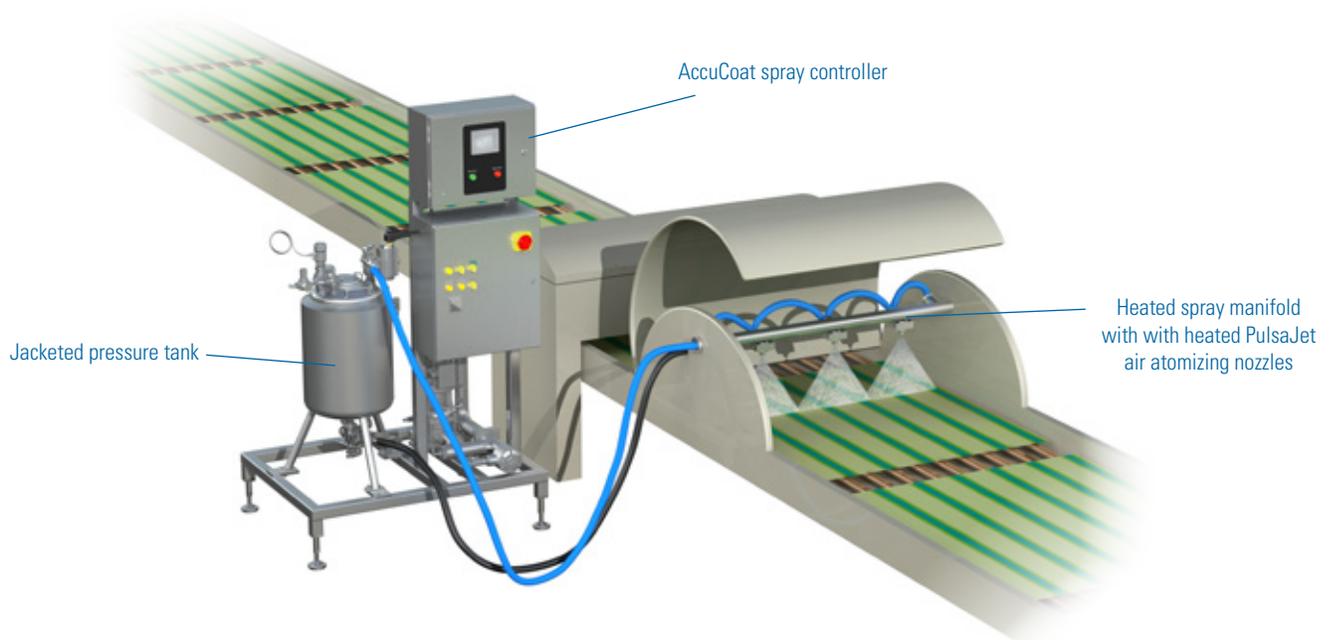


## Problem:

A can manufacturer was using old technology to apply heated paraffin wax on metal sheets prior to stamping. The wax acts as a lubricant and is critical to ensuring the can lids are defect-free. Adjusting the flow rate of the wax for different products was extremely difficult and the wax temperature varied. As a result, wax application was inconsistent, product reject rate was steadily climbing and downtime to troubleshoot the problems was increasing. The manufacturer turned to Spraying Systems Co. for assistance.

## Solution:

An AccuCoat® Heated Spray System solved the wax application problems. The fully-jacketed system consists of a heated spray header, three heated PulaJet® electrically-actuated air atomizing nozzles and an AutoJet® spray controller. The system ensures the proper wax temperature is maintained until the time it exits the nozzles. Using Precision Spray Control (PSC), the application rate of the wax is automatically adjusted based on operating conditions such as changes in line speed. This eliminates the over- and under-application of wax and ensures uniform sheet coverage. In addition, operators can easily adjust flow rate via the HMI on the spray controller to accommodate the different coating weights required for various products.





# Can Maker Boosts Production by 20% Annually with Heated Wax Spray System – Continued

## Results:

The installation of the AccuCoat® Heated Spray System has solved the can manufacturer's quality control problems and the reject rate has been dramatically reduced. Consistent temperature control and precise flow rate control ensure consistent wax application on the metal sheets. In addition to lowering its scrap rate, the manufacturer has been able to increase production by 20% due to the elimination of downtime to troubleshoot application problems and equipment repair. The AccuCoat system also requires less power for operation than the previous system, providing both economic and environmental benefits. The cost of the new spray system was recouped in less than three months.

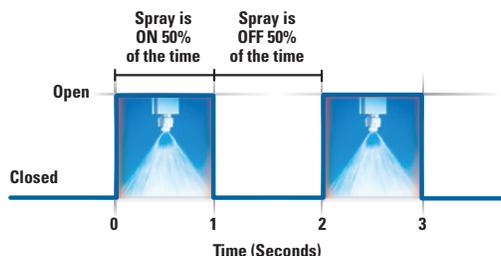
## A CLOSER LOOK AT THE SYSTEM



**Heated Pulsajet® electrically-actuated air atomizing nozzles** apply the wax on the metal sheets prior to stamping.



**AccuCoat Heated Spray System** includes a spray control panel for convenient control of temperature and flow rate. All liquid delivery components are fully jacketed to maintain consistent wax temperature.



**Precision Spray Control (PSC)** involves turning nozzles on and off very quickly to control flow rate. This cycling is so fast that the flow often appears to be constant. With traditional nozzles, flow rate adjustments require a change in liquid pressure, which also changes the nozzle's spray angle/coverage and drop size. With PSC, pressure remains constant enabling flow rate changes without changes in spray performance. PSC requires the use of electrically-actuated spray nozzles and an AutoJet spray controller.

For more information about Precision Spray Control, visit [spray.com/psc](http://spray.com/psc)



**Spraying Systems Co.®**  
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