

WAFFLE PRODUCER SAVES US\$2.2 MILLION ANNUALLY WITH ACCUCOAT® HEATED SPRAY SYSTEM

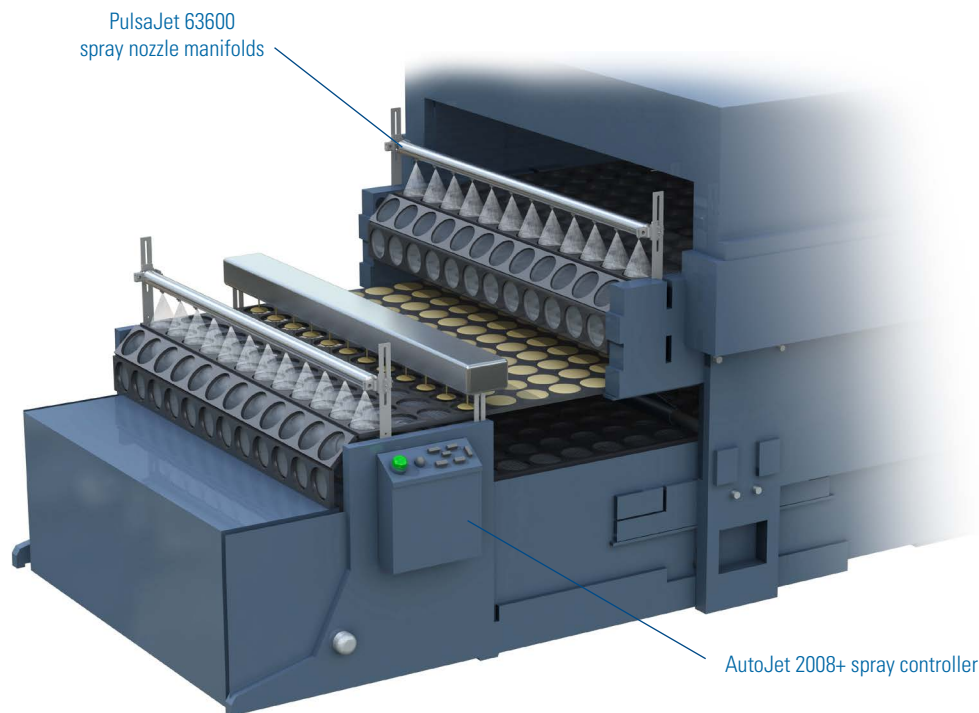


PROBLEM:

A food company needed to improve its method for applying release oil on waffle irons to ensure clean release after baking. Its current system used air atomizing nozzles which frequently applied too much or too little release oil. Over-application of release oil caused waffles to catch fire in the ovens and under-application caused waffles to stick and drove scrap rates as high as 20%. The machine produced 500 waffles per minute, so stoppages caused by stuck waffles had a big impact on the bottom line.

SOLUTION:

An AccuCoat heated system has solved the problem. The system precisely heats the release oil to reduce its viscosity and enable it to be sprayed at a lower pressure. The system consists of a dual-channel AutoJet® 2008+ spray controller and two PulsaJet® 63600 spray nozzle manifolds, each equipped with 12 PulsaJet air atomizing nozzles. One manifold is positioned to spray the bottom irons before the waffle batter is poured; the other is positioned to spray the top irons, which press down after the batter has been poured. Using Precision Spray Control (PSC), the controller cycles the nozzles on and off quickly to adjust flow rate based on operating conditions such as machine speed.



WAFFLE PRODUCER SAVES US\$2.2 MILLION ANNUALLY WITH ACCUCOAT® HEATED SPRAY SYSTEM – Continued

RESULTS:

Use of the AccuCoat heated system has had a dramatic impact on the waffle producer's operation. Oven fires, the related safety concerns and downtime have been eliminated. The waffle scrap rate is just 5%.

Air consumption has decreased by 20% and release agent use is down 40%. The overall savings for the waffle producer is US\$2.2 million annually. The cost of the system was offset in less than four weeks.

A CLOSER LOOK AT THE SYSTEM



AutoJet 63600 Spray Manifolds are available for use with hydraulic or air atomizing nozzles for heated or non-heated operations. Housing and all internal liquid and conduit lines are 316L stainless steel.

AccuCoat heated spray systems provide precise temperature control to reduce the viscosity of release oils to enable uniform application and eliminate problems caused by over- or under-heating solutions.



Spraying Systems Co.®
Experts in Spray Technology

North Avenue and Schmale Road, P.O. Box 7900, Wheaton, IL 60187-7901 USA

Tel: 1.800.95.SPRAY Intl. Tel: 1.630.665.5000
Fax: 1.888.95.SPRAY Intl. Fax: 1.630.260.0842

www.spray.com



Case Study No. 281 ©Spraying Systems Co. 2018