



Application Solution

PRECISION SPRAY SYSTEM FOR
CORN DOG MANUFACTURING

FOOD PROCESSING INDUSTRY

ANTIMICROBIAL COATING SOLUTION



► PROBLEM: OVERSATURATION OF ANTIMICROBIAL ON PRODUCT

A prominent American food manufacturer faced challenges applying antimicrobials to corn dogs on their production line. Excessive application of the antimicrobial solution made it difficult for the batter to stick to the corn dogs, producing final products that did not meet their weight requirement. The overspray also led to unnecessary waste of expensive antimicrobials. They contacted BETE to help them improve their process and ensure the corn dogs could consistently meet their required weight and industry regulations.

► SOLUTION: ELECTRIC HYDROPULSE® (EHP) AUTOMATIC NOZZLES PAIRED WITH THE FLEXFLOW® (FLX) SPRAY CONTROLLER

BETE engineers recommended their FlexFlow automated spraying system with hygienic EHP nozzles to leverage Pulse Width Modulation (PWM) technology as an ideal solution to the problem. PWM enables precise, intermittent, and controlled spraying to effectively apply the antimicrobial to the corn dogs while avoiding oversaturation. After testing at their facility, BETE confirmed that a spray bar with four EHP nozzles controlled by the FlexFlow could accurately and repeatably apply the antimicrobial coating. The BETE spray system complied with the customer's QA requirements and obtained approval from an on-site USDA inspector. This automated solution is proven to be highly effective for consistently producing conforming and regulatory-compliant products.



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