



Application Solution

PAN & BREAD AUTOMATED
SPRAY SYSTEM REDUCES WASTE
FOOD PROCESSING INDUSTRY

BAKING PRODUCTION SOLUTION



► PROBLEM: ABUNDANT OIL WASTE & INCONSISTENT PRODUCT QUALITY

A well-known commercial bakery sought to improve the efficiency and cleanliness of its spraying system that applies Vantage Vegalube™ Sun SF Release, a viscous, food-grade oil, onto their pans and dough. Their production line included multiple air atomizing spray nozzles – one set to apply a light coating of the viscous oil to lubricate the pans and a second set to coat the dough after it was portioned and deposited onto the pans. The nozzles produced excessive overspray, atomization into the surrounding air, and difficult-to-clean equipment. As a result, the bakery experienced significant oil waste, hazardous, slippery floors, and concerns with inconsistent product quality.

► SOLUTION: BETE AUTOMATED SPRAYING SYSTEM

BETE's sales and systems teams worked closely with the customer, reviewing photos and videos of the existing system alongside other customer-provided data. BETE engineers observed significant overspray and proposed a new system comprising a tank, heater, pump, mixer, nozzles, spray bar, and controller. They recommended a BETE FlexFlow® 1000 hygienic system paired with Electric HydroPulse® (EHP) nozzles using the BJ0195 flat fan spray tips to deliver the exact amount of oil needed to cover the pans and coat the dough without spraying outside the target. The FlexFlow controller utilizes Pulse Width Modulation (PWM) technology, allowing the bakery to fine-tune the fluid application rate to match their specific requirements. With multiple sensor input options, the nozzles will only spray when needed, further minimizing oil waste and improving operational efficiency. The customer was impressed with BETE's expertise and pricing. They chose BETE's system over the competitor because of its quality, value, and exceptional engineering support.



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SPRAY NOZZLES & SPRAY SYSTEMS SOLUTIONS