



Case Study

SOLVING NOZZLE CLOGGING
FROM SEEDS AND SKINS

TOMATO PROCESSING TANK WASHING SOLUTION

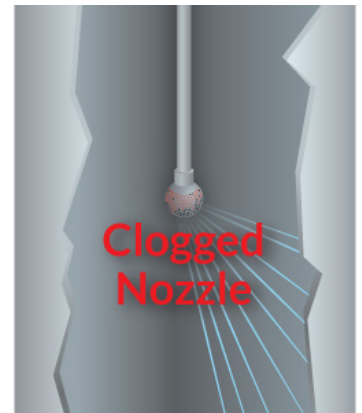


Seeds, skins, pulp, stems, and grains in a recirculated water system can cause blockage in many tank washing nozzle designs, inhibiting their ability to work correctly. Cleaning tanks and maintaining a sanitary environment is essential to success in food processing and beverage industries. Problems within these systems lead to loss of time, money, and resources – an unacceptable situation.

► PROBLEM: CLOGGING WITH RECIRCULATED WATER

A tomato processing plant system designer contacted BETE to help troubleshoot issues with their tank washing system.

After installing six total competitor disc cleaning nozzles into two tanks, 100" diameter by 80" high, they observed clogging caused by seeds and skins that were in their recirculated water system. Displeased with constant blockage and too much time wasted on nozzle maintenance, they worked with BETE Applications Engineers to solve the problem and improve efficiencies in keeping their tomato processing tanks clean.



► SOLUTION: THE BETE HYDROCLAW®

The systems designer had done their research and wanted more information as to whether the innovative HydroClaw was the right solution for their tank washing requirements.

After assessing the dimensions of their vessels, BETE engineers recommended six HydroClaw 100 nozzles, three for each tank. The ¼" free passage makes them an ideal solution for flushing through tomato seeds and skins with the recirculated water. The low-maintenance HydroClaw self-flushes as it cleans tanks without any rotating parts or gears that can seize during operation.





Results

After testing the six new HydroClaw 100s in their tank washing system, the tomato processing plant circled back to BETE to express their enthusiasm. Pleased with the performance of the HydroClaw, they requested a quote for twenty three more nozzles to improve tank washing efficiencies at their other locations.

The HydroClaw was explicitly designed to offer tank washing innovation for wineries – allowing grape seeds and skins to pass through the nozzle. This design feature makes it the perfect nozzle for food processing applications.

Whether used in a tomato processing factory or any other food processing plant, the HydroClaw saves time and money with tanks glistening and ready for the next cycle.

CHALLENGES WITH OTHER TANK WASHING NOZZLES

- Small holes and moving parts lead to clogging
- Nozzle blockage leads to unclean tanks, and more maintenance downtime becomes costly
- The expense of high water consumption from extra wash cycles and the inability to use recycled water effectively

ADVANTAGES OF THE BETE HYDROCLAW®

- Nozzle designed to let particulates and sediment flow through with no clogging
- Clog resistance and low maintenance = reduced downtime and more economical water usage
- 316L stainless steel construction means it is perfect for clean-in-place (CIP) and food grade applications
- Complete 360-degree coverage



WHY CHOOSE BETE FOR YOUR FOOD PROCESSING NOZZLE NEEDS?

- The ability to solve unique and complex process challenges
- ISO 9001:2015 Certified
- Custom nozzle design and manufacturing with consistent quality assurance

With BETE you get our world-class customer support from a nozzle industry pioneer who has been creatively solving problems for over 65 years.

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