



Case Study

SOLVING LAUTER TUN CLOGGING ISSUES
FROM SPENT GRAINS & HUSKS
BEVERAGE PROCESSING

BREWERY TANK WASHING SOLUTION



In the lautering process, spent grains and husks often find their way into the cleaning process's recirculated water. These particulates tend to clog and plug standard spray devices for tank cleaning, which becomes a maintenance nightmare for any brewer.

► PROBLEM: CLOGGING FROM RECIRCULATED WATER

A large brewery was experiencing ongoing issues with clogging spray balls in their lauter / mash tun. The spent grains and husks caught in the recirculated cleaning fluids continuously plugged the spray ball's orifices.

Clogging causes the spray performance of the spray balls to be ineffective for cleaning. Similar issues occur in rotational spray nozzles, spray devices, and tank cleaning machines containing gears where particulates can cause the nozzle to seize.



► SOLUTION: THE BETE HYDROCLAW®

The HydroClaw stationary tank cleaning nozzle contains no moving parts and is clog-resistant. For applications where particulates and other substances are present in the recirculation process, the HydroClaw offers the perfect tank washing solution.





Results

The HydroClaw tank washing nozzle replaced the existing spray ball in the lauter tun. After one month of testing, the spent grains and husks were no longer a clogging issue. As a result, the brewery swapped all six of their other spray balls with the impressive HydroClaw.

The reliable cleaning action of the HydroClaw reduced wash cycle times in each tank. Due to reduced water and solvents consumption, the brewery experienced overall cost savings and a quick return on their investment.

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° coverage



WHY CHOOSE BETE FOR YOUR FOOD INDUSTRY SPRAY NEEDS?

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

Choose BETE as your spray application experts. For over 70 years, our performance spray technology has solved process problems for a broad range of industries worldwide.

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