



# OPTIMIZE YOUR TANK CLEANING PROCESS WITH BETE SPRAY TECHNOLOGY

## BETE TANK CLEANING NOZZLES INCREASE PRODUCTIVITY, USE FEWER RESOURCES, AND PROVIDE RELIABLE CLEANING

No matter what your cleaning challenge is, BETE specializes in spray technology for industrial and hygienic tank cleaning by offering a complete line of products for every size tank and soil type. BETE's tank cleaning nozzles are designed to maximize the efficiency of removing soils effectively from tank and equipment surfaces. Our spray technology can save significant time and money over other cleaning options such as "fill and drain" or manual entry.

We know that selecting the right spray device for cleaning your vessel, processing equipment, tanker truck, or railcar is critical for your process. BETE's decades of experience providing innovative tank and equipment cleaning solutions translates to expert engineering that you can count on when it matters most.

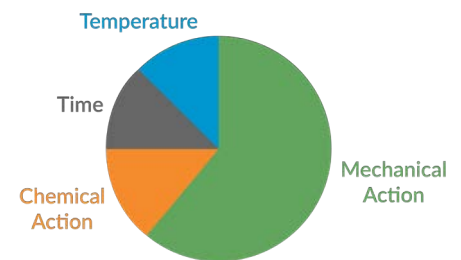
## ROTARY SPRAY HEADS REDUCE WATER, CYCLE TIME, AND EFFLUENT DISCHARGE BY USING GREATER MECHANICAL ACTION

The relationship between mechanical action, chemical action, time, and temperature plays a vital role in cleaning. Rotating spray nozzle technology applies greater mechanical action than static spray balls and has a better spray impact for effective soil removal. **In this diagram, rotating nozzles produce greater mechanical action and use less chemical action, time, and temperature to increase cost savings with fewer resources.**

- 50% water savings compared to static spray balls
- 40% faster cleaning using less energy
- Less effluent discharge consumes fewer resources
- Precise and reliable cleaning prevents batch contamination



HydroWhirl® Orbitor



## PREVENT DOWNTIME WITH CLOG-RESISTANT STATIONARY NOZZLES

- No moving parts
- Low maintenance
- Durable
- Clog-resistant
- Compact sizes fit small openings



HydroClaw®

The unique patented clog-resistant design allows the passage of particles over 1/4", which is three times the free passage of comparable static spray balls.

# SPRAY DEVICES DESIGNED TO MEET ALL YOUR TANK CLEANING REQUIREMENTS

BETE offers a complete line of tank cleaning nozzles designed for every tank size and soil type. Use our tank cleaning nozzles to improve efficiencies in industrial or hygienic applications. If you need help selecting the right nozzle, our engineering experts can recommend solutions for optimum cleaning performance.



HydroWhirl® Mini  
PVDF  
Free-Spinning  
Max. Range 3.5 ft/1 m



HydroWhirl® Mini SS  
Free-Spinning  
Max. Range 6 ft/1.8 m



TW  
Stationary  
Max. Range 8 ft/2.4 m



LEM  
Stationary  
Max. Range 8 ft/2.4 m



CLUMP  
Stationary  
Max. Range 10 ft/3 m



HydroClaw®  
Stationary  
Max. Range 10 ft/3 m



HydroWhirl® Disc  
Free-Spinning  
Max. Range 11 ft/3.6 m



HydroWhirl® Stinger  
Free-Spinning  
Max. Range 12 ft/4 m



HydroWhirl®  
Poseidon®  
Free-Spinning  
Max. Range 25 ft/7.6 m



HydroWhirl® Orbitor 100  
Controlled Rotation  
Max. Range 56 ft/17 m



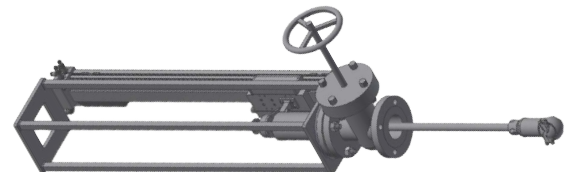
HydroWhirl® Orbitor  
Controlled Rotation  
Max. Range 130 ft/39.6 m

Note: The maximum cleaning range listed for each nozzle is tank diameter.

## SPRAY LANCES PROVIDE OPTIMAL NOZZLE PLACEMENT FOR EFFECTIVE CLEANING

BETE **tank cleaning lances** provide a custom-engineered solution for optimal nozzle placement inside a tank. All lances are designed and fabricated at BETE to ensure close coordination through all phases of the project.

- Retractable designs provide easy access and maintenance
- Weld Certifications: ASME B31.1 for Process Piping and other applicable ASME Codes/Standards
- PVDF, 316SS, 316L SS, nickel alloys, and other exotic materials



LEARN HOW BETE SPRAY TECHNOLOGY SAVES YOU TIME, MONEY, AND RESOURCES



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