



# GAMAJET<sup>®</sup>

GAMAJET Cleaning Systems, Inc.  
604 Jeffers Circle, Exton, PA 19341

Are your tanks **dirty**?

Want to save **time and water**?

Need to **validate** your tank cleaning process?

Tired of **confined space entry**?

## Want Sustainability?

Food and Beverage Industry

The most efficient and effective tank cleaning for any application

## Obtain Sustainability with Gamajet

Use **80% Less Water**

Clean **75% Faster**

Consume **90% Less Chemicals**

**Validate** your tank cleaning process

**Eliminate** confined space entry

### Residues:

Sugars, Starches, Juices, Concentrates, Flavorings, Spices, Oils, Fats, Dairies, Greases, Sauces, Powders, Baked/Cooked/Burnt on Substances and More.

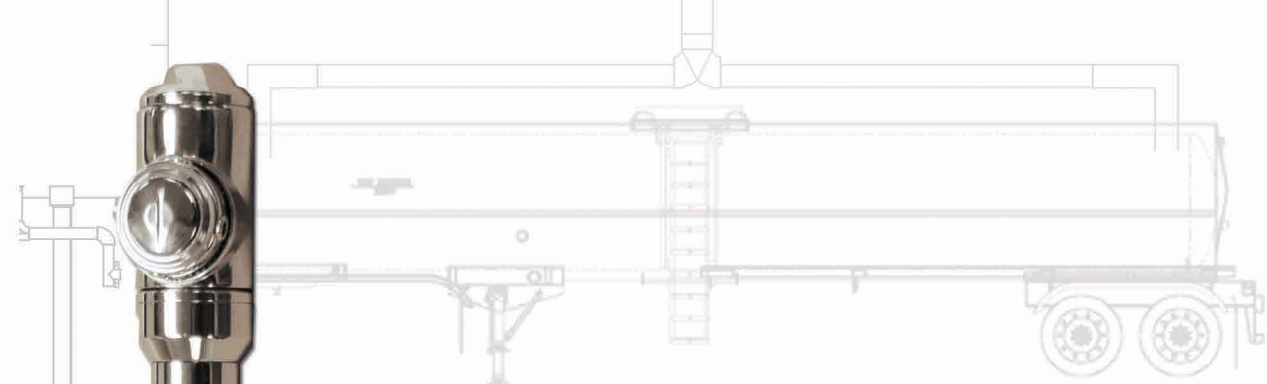
### Tank Types:

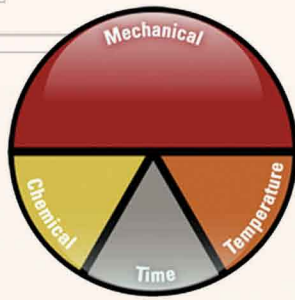
IBCs, Totes, Mixers, Spray Dryers, Tankers, Fillers, Kettles, Blenders, Process Vessels, Holding Tanks, Transfer Tanks and More.



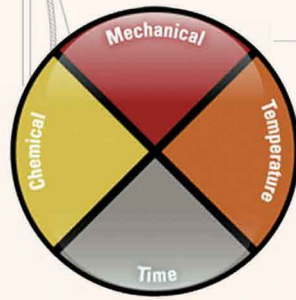
**19 out of 25: Gamajet Cleaning Machines are used in 19 out of the top 25 food beverage companies in the world.**

Gamajet continues to provide food and beverage manufacturers, world wide, with safer and more effective ways to clean, as well as more sustainable solutions to lessen the impact of cleaning on the environment and society.

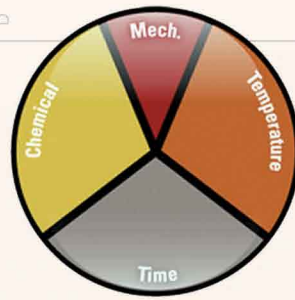




**GAMAJET®**



**Rotary Wetting**

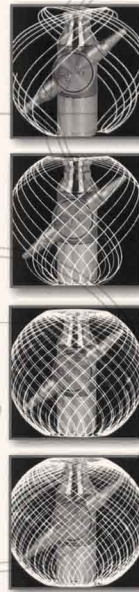


**Spray Ball**

Dr. Sinner's Circle (as seen above) describes the interaction and influence of the four main factors when it comes to the cleaning process: Chemical, Mechanical Force, Time and Temperature. Gamajet utilizes the mechanical factor to its maximum benefit, reducing the need for the remaining factors of time, temperature and chemical.

### Why use Gamajet's Proven Rotary Impingement Tank Cleaning Technology?

Gamajet's rotary impingement tank cleaning machines combine pressure and flow to create **high impact cleaning jets**. These cleaning jets scour the entire interior of the tank in a **repeatable and reliable 360-degree pattern**. They are fluid-driven requiring no external power connections. Very much like the focused stream of a hose, cleaning is accomplished at the point of impact. It is this impact and the tangential force that radiates from this point which **blast contaminants from the surface**. By utilizing mechanical force the remaining factors of time, temperature and chemical can be reduced, allowing for a **more efficient clean**.



Are we cleaning efficiently?  
 Are the dangers of confined space entry, worth the risk?  
 Can we afford a product recall due to cross-contamination?  
 How much water do we waste?



As the Tank Cleaning Experts, with over 50 Years of Experience, Gamajet Provides the Best Cleaning Solution For Your Application, Backed By Quality Service and Products

**Case Study: Sustainability and Impingement Cleaning**  
*Columbia, MO*  
**Tank Type:** Ribbon Blenders  
**Tank Residue:** Processed Meats  
**Current Procedure:** Tanks are filled with water and agitated, followed by manual cleaning and rinsing with a hose. There are 4 ribbon blenders, all require 4 hours every day for cleaning.

**Current Water Usage**  
 26,280,000 gallons per year  
**Average Cost Per Gallon**  
 \$4.65 per 1000 Gallons (Includes Removal)  
**Water Cost Per Year:** \$122,202  
**Cleaning Hours Per Year:** 5824

**Solution:** Gamajet Mobile CIP System with a steam pump, powering 5 Gamajet Directional V's operating at 220 psi and 15 gpm (per machine). Cleaning includes a 5 minute pre-rinse, 10 minute wash and a final 5 minute rinse, totalling 20 minutes.

**92% Water Saved**  
 24,090,000 gallons saved per year  
**Water Saved in Dollars**  
 \$112,018 per year  
**91.6% Less Cleaning Time:**  
 5342 less hours per year  
**Eliminated Confined Space Entry**

**Case Study: Manual Cleaning vs. Gamajet VIII**  
*San Francisco, CA*  
**Tank Type:** Kettles with Dual Agitators  
**Tank Residue:** Variety of Burnt on Sauces  
**Current Procedure:** 4 tanks, manually scrubbed and scraped every day for 4 hours. Primary concern of facility was Cross-Contamination

**Water Usage**  
 7,008,000 Gallons per year  
**Average Cost Per Gallon**  
 \$4.65 per 1000 Gallons (Includes Removal)  
**Water Cost Per Year:** \$32,587  
**Cleaning Hours Per Year:** 11,680

**Solution:** 2 Gamajet VIII operating at 90 psi and 40 gpm (per machine). Cleaning includes a 5 minute pre-rinse, 10 minute recirculated wash and a final 5 minute rinse, totalling 20 minutes, per tank. **Validated pattern eliminated cross-contamination issues.**

**84% Water Saved**  
 6,891,200 gallons saved per year  
**Water Saved in Dollars**  
 \$32,044 per year  
**96% Less Cleaning Time:**  
 11,198 less hours per year  
**Eliminated Confined Space Entry**

**Case Study: Spray Ball vs. Impingement**  
*Mason, OH*  
**Tank Type:** Storage Tank  
**Tank Residue:** Sauces/Condiments  
**Current Procedure:** Tanks are cleaned with sprayballs running for 1 hour. Turn over was critical. Regular clogging of the spray devices, extended tank downtime an average of 15 minutes.

**Cleaning Time per Batch:** 1 hour  
**Batch Time Start to Finish**  
 2.5 hours  
**Tank Cleaning Downtime**  
 12,775 hours per year  
**Maximum Capacity**  
 122,640 Batches per year



**Solution:** 1 Gamajet Aseptic VI operating at 15 gpm (per machine) and 110 psi. Cleaning includes a 2 minute pre-rinse, 5 minute recirculated wash with caustic and a final 2 minute rinse totalling 9 minutes. **Gamajet machine did not clog.**

**Cleaning Time Per Batch**  
 9 minutes  
**Maximum Capacity**  
 185,818 Batches Per Year  
**66% Increased Production**  
 63,168 more batches per year

# If you have a tank to clean, we have a way to do it!

Comprised of 316L Stainless Steel and FDA Compliant Materials

## Product Comparison Chart

Tanks up to 5' in Diameter	Product/ Tank Type	Mechanical Force: Distance	Operating Pressure	Operating Flow	Minimum Clearance	Directional Option	Self Cleaning and Draining	
Gamajet EZ-7	The average spray ball produces .01lbs of force at any given distance	4lbs @ 5'	50-1500 psi	2-8 gpm	1.5"			
Gamajet All-in-One		5lbs @ 5'	100-1000 psi	3.5-6 gpm	1.75"			
Gamajet HDBB		5lbs @ 5'	100-1000 psi	3.5-6 gpm	1.75"			
Gamajet Intrepid*		3lbs @ 5'	20-80 psi	10-30 gpm	3.00"	☉		
Gamajet Aseptic-2 (3-A)* 		3lbs @ 5'	20-80 psi	10-30 gpm	3.00"		☉	
Tanks 5' - 10' in Diameter								
Gamajet Aseptic VI*		10lbs @ 10'	10-700 psi	5-40 gpm	2.8"		☉	
Gamajet NanoJet*		7lbs @ 10'	20-300 psi	5-30 gpm	1.87"		☉	
Tanks 10' - 25' in Diameter								
Gamajet IX*		15lbs @ 10'	50-1000 psi	3-30 gpm	2.76"		☉	
Gamajet V	20lbs @ 10'	50-1200 psi	5-45 gpm	3"	☉			
Gamajet PowerFLEX*	40lbs @ 10'	30-500 psi	20-120 gpm	3.875"		☉		
Gamajet Aseptic-1 (3-A)* 	10lbs @ 10'	20-80 psi	20-70 gpm	5.75"		☉		
Tanks 25' - 200' In Diameter								
Gamajet X	25lbs @ 25'	50-750 psi	40-80 gpm	4"				
Gamajet VIII*	40lbs @ 25'	20-1000 psi	25-130 gpm	4.75"	☉	☉		
Gamajet IV	85lbs @ 25'	20-700 psi	30-320 gpm	6.7"	☉	☉		

*\*Designed Specifically for the Food and Beverage Industry*



**Want an Effective and Economical Solution to Your CIP System?** Gamajet manufactures a complete line of Mobile CIP systems for tank and vessel cleaning. These units are tailored to provide the most effective and efficient solution based on the user's application, beginning **inside the tank with the residue**. **See our MCIP Series to Learn More**

### Customize your Gamajet with a variety of options:

#### Inlet Connections

Tri-Clover  
Female NPT  
Camlock  
R-Clip\*

\*R-Clip is Only Available with Select Machines

#### Seals and Bearings:

EPDM  
Viton®  
Kalrez®

#### Stator and Nozzle Sizes:

Based on operating conditions for optimal performance.



Watch Videos and Learn More at [www.Gamajet.com](http://www.Gamajet.com)

**GAMAJET®** The Tank Cleaning Experts.

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