



GAMAJET®

part of the Alfa Laval Group


TANK AND BARREL CLEANING

80% Decrease in Water and Chemical Usage

85% Decrease in Time Spent Cleaning

100% Decrease in Manual Cleaning

100% Cleaning Effectiveness



Wine Industry

WINEMAKING IS YOUR ART; TANK CLEANING IS OURS.

Lack of proper cleaning directly affects quality and can cause microbial growth and cross-contamination within your batches. This sort of product degradation and potential spoilage may irrevocably damage the reputation of a vineyard and directly affect profits. For decades, Gamajet has listened to the needs of the global wine industry and has developed customer-driven solutions. By using a repeatable and reliable cleaning pattern, we guarantee effective wine barrel and wine tank cleaning. Our machines also control the amount of pressure applied in the barrel interior, not only ensuring the barrel is cleaned, but properly and safely maintained as well.

WHY CLEAN THE GAMAJET WAY?

Preserving product quality and protecting barrels are just a few benefits to incorporating Gamajet machines in your winemaking process and storage practices. Say goodbye to pressure washing and manual cleaning, rewashes, hard-to-clean scum lines, and excessive water usage. The products outlined in this brochure are the best in the industry. Specifically designed to provide the wine industry with a more economical and effective way of cleaning tanks and barrels, Gamajet is your go-to manufacturer.

WE HAVE A SOLUTION FOR EVERY APPLICATION

TANK TYPES:

Barrels, bins, fermenters, kegs, mixing tanks, storage vessels, trailers, totes/IBCs, and more.

RESIDUES:

Dried wine, lees, residual sugar, tartrates, microbial growth, and more.



Our innovative products are proven to decrease cleaning time and greatly reduce clogging, tank downtime, and water and chemical usage. Our machines eliminate the need for confined space entry and are easy and cost-effective to maintain.

The products listed on this page are most commonly used for tank and barrel cleaning in wineries and vineyards across the United States.

GAMAJET ALL-IN-ONE

Pressure: 600-800 PSI
Flow Rate: 3.5-6 GPM

This lightweight, hand-held machine features an integrated vacuum extractor which removes the cleaning liquid within the vessel while maintaining the exceptional performance of a Gamajet.

GAMAJET EZ-7

Pressure: 100-800 PSI
Flow Rate: 3-6 GPM
Wash Cycle Time: 3-4 minutes

A small, powerful unit ideal for cleaning all types of barrels, drums and small vessels, this machine eliminates extensive handling by offering one-step, one-insertion cleaning.



GAMAJET GENTLEJET

Pressure: 50-150 PSI
Flow Rate: 3.5-6 GPM
Wash Cycle Time: 2-3 minutes

The GentleJET delivers the optimal impact required for effective cleaning without damaging your toast or barrels.



POWERFLEX

Pressure: 30-500 PSI
Flow Rate: 20-120 GPM
Wash Cycle Time: 8-20 minutes
The Gamajet PowerFLEX cleans tanks between 5,000-25,000 gallons and only weighs 10 pounds!



GAMAJET HD BARREL BLASTER

Pressure: 600-800 PSI
Flow Rate: 3.5-6 GPM
Wash Cycle Time: 2-3 minutes

This machine can easily be attached to a bipod for traditional bung down cleaning and is usable with your existing storage/rack systems.

GAMAJET VIII

Pressure: 20-1000 PSI
Flow Rate: 50-120 GPM
Wash Cycle Time: 8-12 minutes
Weighing only 11 lbs, this machine is one of the most versatile on the market and the easiest to handle.



Alfa Laval Toftejorg SaniJet 25
Pressure: 3-8 bar (45-115 PSI)
Flow Rate: 5-15 m³/hr (25-60 GPM)
Suitable for cleaning tanks between 4,000-40,000 gallons and represents a guaranteed means of achieving quality assurance in tank cleaning.

Alfa Laval Toftejorg TJ20G
Pressure: 3-8 bar (45-115 PSI)
Flow Rate: 5-15 m³/hr (25-60 GPM)
Suitable for cleaning tanks between 4,000-40,000 gallons and is also available in a retractable version.



THE GAMAJET EVACUBLAST

for cleaning your barrels and drums IN PLACE!



Eliminate the time-consuming and labor-intensive task of moving and rotating your barrels and drums for cleaning and draining with the EvacuBlast or Gamavac barrel and drum cleaning systems. Our systems work with the Gamajet All-in One and the All-in-One Flex machines, which incorporate an extraction wand engineered into the cleaning machine allowing your barrels to be cleaned and emptied in less than two minutes!

WATCH VIDEOS AND LEARN MORE AT WWW.GAMAJET.COM

Learn more about Gamajet's Mobile CIP Systems



ASK YOURSELF...

HOW MUCH REVENUE IS LOST, PER HOUR, DUE TO TANK DOWNTIME?

ARE WE CLEANING EFFICIENTLY?

HOW MUCH WATER DO WE WASTE?



60 YEARS OF EXPERIENCE allows **GAMAJET** to provide the best cleaning solution for your application, backed by quality products and unsurpassed service.

CASE STUDY

PROBLEM

A winery owner from Washington was consistently dissatisfied with the results of cleaning his stainless steel tanks. He tried multiple tank cleaning machines throughout the years, from spray balls to other rotary impingement devices. Cleaning was inefficient and time-consuming and the manufacturers of the equipment were not responsive to the problems he was facing.

SOLUTION

After receiving a marketing piece from Gamajet, he decided to purchase the PowerFLEX. Weary at first after trying so many other cleaning machines, he was impressed by the customization of the Gamajet and the level of service and support from the company.

RESULTS

The PowerFLEX significantly reduced the amount of time spent cleaning the tanks - about 78% less time than spray balls! He now owns a tank cleaning machine he can "rely on to quickly and thoroughly clean my tanks. It's a true workhorse."



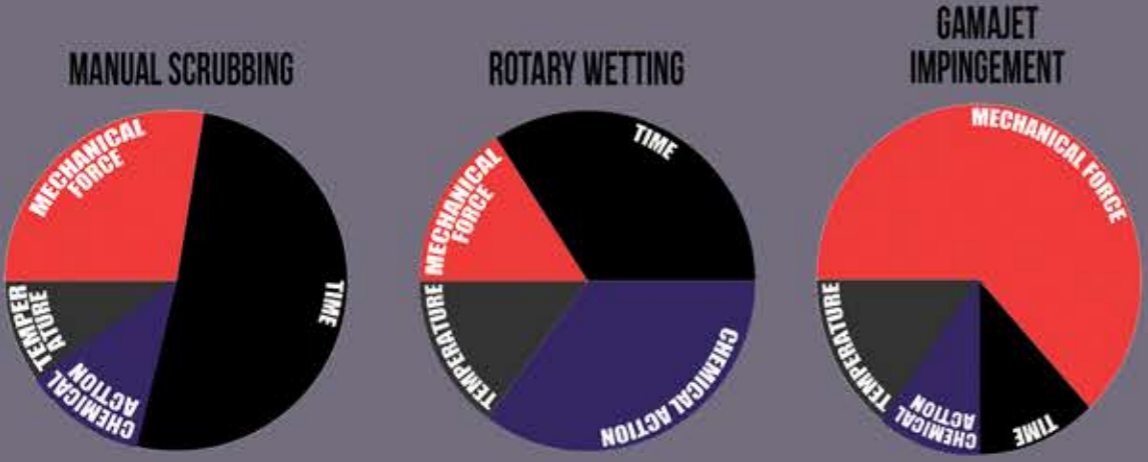
BENEFITS

to employing tank and barrel cleaning equipment from the most extensive line in the industry:

- ✓ Reduce Tank Downtime
- ✓ Use Less Natural Resources
- ✓ Increase Production Times
- ✓ Preserve Product Quality

THE FOUR FACTORS OF CLEANING

Dr. Herbert Sinner, a former chemical engineer for Henkel, first summarized the basic principles of cleaning in 1959. His summary, now referred to as the Sinner's Circle, describes the four factors that can be manipulated in any cleaning scenario: **Temperature, Chemical Reaction, Time, and Mechanical Force**. When the effectiveness of any factor is reduced, it must be compensated with the increase of one or multiple other factors. Gamajet utilizes the Mechanical Action to its maximum benefit, resulting in a drastic reduction of the three remaining factors: time, chemical reaction, and temperature (as shown below).

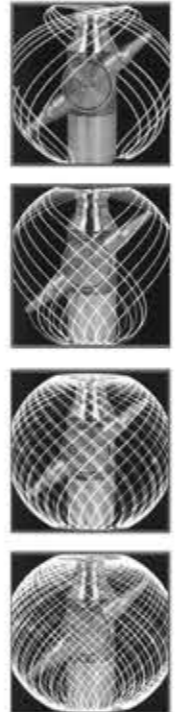


WHAT IS ROTARY IMPINGEMENT TANK CLEANING?

Gamajet's rotary impingement tank cleaning machines combine pressure and flow to create high impact cleaning jets. Cleaning occurs at the point the concentrated stream impacts the surface. It is this impact and the resulting tangential force that radiates from that point that **blasts contaminants from the surface**, scouring 100% of the tank or barrel interior.

WHY USE GAMAJET'S ROTARY IMPINGEMENT TECHNOLOGY?

Gamajet machines deliver the impingement force in a precise, repeatable and reliable 360° pattern. This full-coverage, indexing pattern ensures the entire tank or barrel interior is cleaned, every time. Combining impingement with a controlled cleaning process results in an economic ideal. **The Gamajet greatly reduces time spent cleaning, chemicals and water usage.** A ROI will quickly show that Gamajet's impingement process positively impacts the ultimate scorecard: your bottom line.



BEST-IN-CLASS SERVICE & REPAIR PROGRAM

TANK CLEANING SERVICE CENTER

24 Hour Turnaround on All Service and Repairs!

For an extended shelf-life of your Gamajet or Alfa Laval Toftejorg machine, preventive maintenance every 800-1000 hours is advised. For maximum results, send your tank cleaning device to our Gamajet facility for expert servicing. We **GUARANTEE** a 24-hour turnaround on all service and repairs so you don't have to worry about excessive tank downtime. Take advantage of our Best-in-Class Service and Repair Program today and receive a renewed 1-year warranty!



Each machine is field-servicable and sold with an Owner's Manual so our customers can repair their own machines, on site, with a Gamajet technician just a phone call away. Spare parts and support are available at all times.

About Alfa Laval

Alfa Laval is a leading global provider of specialized products and engineering solutions, based on its key technologies of heat transfer, separation and fluid handling.

Gamajet was acquired by Alfa Laval in 2012. The combined portfolio of Gamajet and Alfa Laval Toftejorg tank cleaning machines provides the wine industry with the widest offering of tank cleaning options for any size or application.

- Customize your **GAMAJET** with a variety of options:
- Inlet Connections: Tri-Clover, Female NPT, Camlock, R-Clip* 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

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