



# A more complete mix

... for optimizing your tank





When it comes to optimizing your tank, Alfa Laval's portfolio is a full range of possibilities. No other supplier brings you such a complete selection of equipment:

- Tank agitators and tank mixers
- Tank instrumentation
- Tank covers, machine feet, tank feet and sight glasses
- Tank cleaning solutions

Moreover, no other supplier offers such a high level of innovation. Besides our world-renowned Toftejorg tank cleaning solutions – which now include a 3-A rotary spray head – we provide cutting-edge options for agitation and mixing. Today our hygienic agitators are joined by rotary jet mixers and magnetic mixers, which offer new process opportunities and new ways to save.

Whatever your needs, we provide the right combination of tools and expertise through 1500 sales and working partners worldwide.

# The perfect blend of technologies



Alfa Laval's energy-saving agitators are modular, which makes them easy to customize.

As the leading mixing supplier, Alfa Laval offers a full spectrum of solutions for hygienic industries. Our portfolio includes energy-saving agitators, high-efficiency rotary jet mixers and ultra-clean magnetic mixers – as well as the pumps and heat exchangers needed for a complete solution.

Our agitators are ideal for many applications, including those that involve high-viscosity media or ingredients which are fibrous or abrasive. Constructed from modular components, they are designed for high energy efficiency as well as for hygiene. In addition to a smooth and flow-optimized form, they feature advanced EnSaFoil impellers whose blades reduce energy consumption by as much as 80%.

The Alfa Laval Rotary Jet Mixer creates savings in other ways. Driven by pump, they inject fluid, gas or powder through rotating nozzles beneath the liquid surface. No baffles are required, and the mixing heads double as tank cleaning equipment at the end of the mixing cycle. But most importantly, the high-intensity of the mixing translates into rapid payback. Breweries, for example, have used rotary jet mixers to shorten fermentation time by 30%.



Complementing these are our magnetic mixers, whose capabilities are unique compared to other magnetically driven solutions. Rather than resting on the guide bearing, the impeller of our mixers actually levitates on a strong magnetic field. This creates less friction than comparable technologies and allows the impeller to run dry. With their levitated and open impeller design, our magnetic mixers are exceptionally easy to clean and can be used in sensitive applications with extremely low or high RPM requirements.

Which technology is right for you depends on your application and goals. And since Alfa Laval offers all three technologies, we can assist you in finding the perfect match.



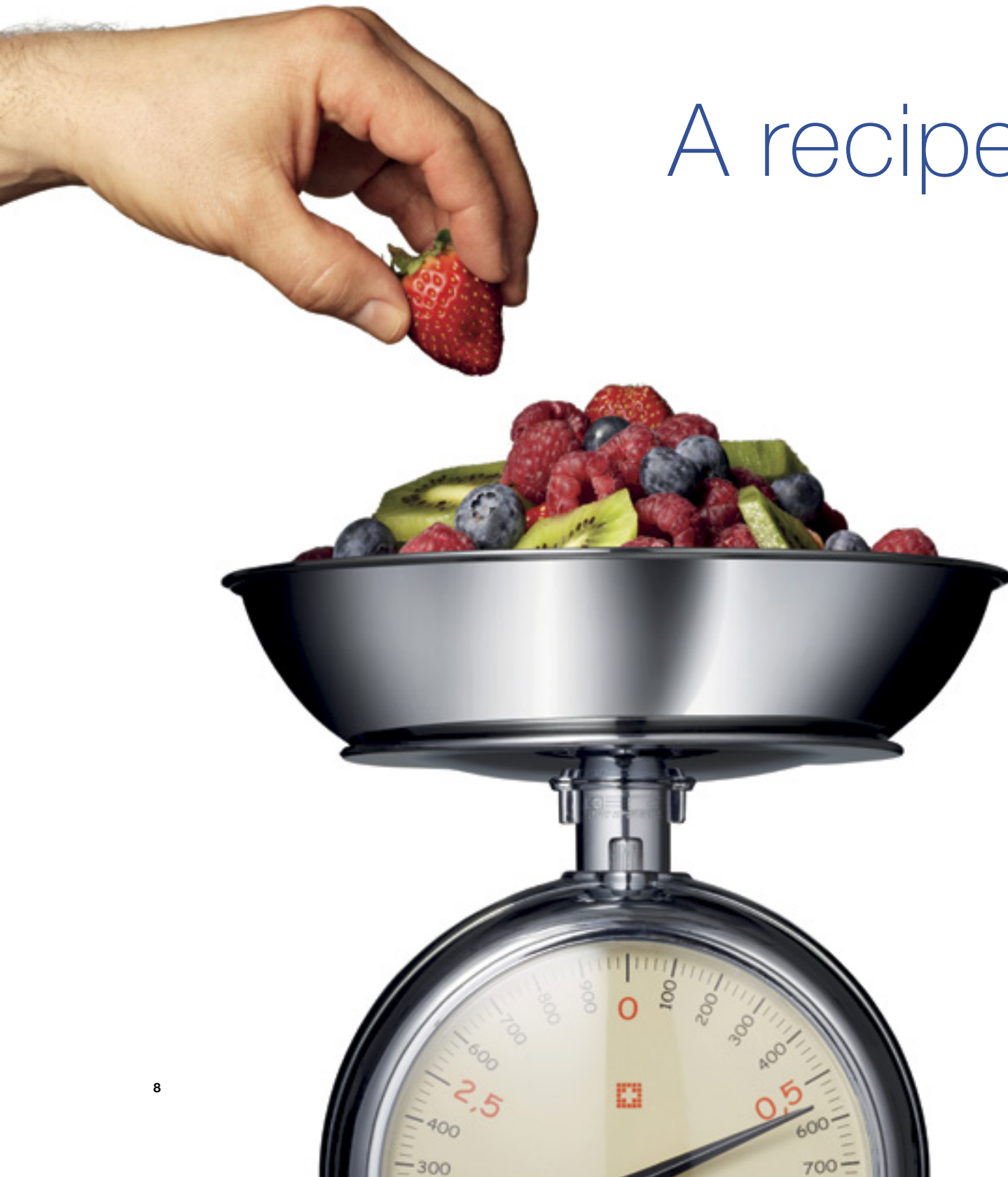
The impeller of Alfa Laval's magnetic mixers levitates on a magnetic field, which eliminates friction and maximizes cleanability.



Alfa Laval's Rotary Jet Mixer injects fluid, gas or powder through rotating jet nozzles – without causing the liquid to rotate.



# A recipe for precision



The right mixing technology is only one part of ensuring successful production.

With tank instrumentation from Alfa Laval, you can effectively fine-tune the processes in your tank, weighing systems, flow transmitters, level switches and transmitters, conductivity sensors, and our new Rotacheck+ sensor for tank cleaning validation as well as solutions for measuring pressure, temperature and more.

The innovative nature of our instrumentation can be seen in the load cells of our weighing system, which allows fast and simple installation without an expensive mounting kit. Load cells can be calibrated regardless of the cable length, and they remain unaffected by welding voltages or even a 300% overload.

Similar innovation can be seen in our level switch, whose sensor has a teach-in feature that makes it insensitive to foam and residues.

All of our instrumentation is designed for hygienic use, which means hygienic connections and casings are standard. Robust and reliable, it gives you everything you need for effective control.



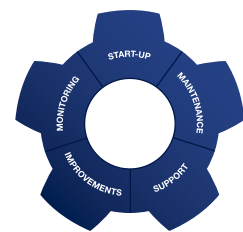
Our instrumentation range is available globally. All products feature a hygienic design as standard, including process connections and the instrument casing. They are certified to the appropriate standards for your needs (3-A, cGMP, FDA, CE, ATEX, 3.1, calibration, etc.).

# That little extra

Besides mixing solutions and instrumentation for the processes within your tank, Alfa Laval provides an extensive range of options for enhancing the tank itself. These include machine feet and tank feet in a wide variety of constructions, sight glasses with and without halogen light fixtures, and a broad selection of tank covers.

Among our tank covers are over 50 cover types comprising all necessary shapes and sizes. Alfa Laval tank covers are available for both standard and pressure vessels, as well as for above or below the liquid level and with or without incorporated sight glasses.

Today we can also offer tank covers that are authorized to carry the 3-A symbol.



## Extending equipment performance by 360° service

Through Alfa Laval's broad range of spare parts, equipment, and services you get the support you need when you need it, performed by skilled and knowledgeable staff.

Service kits and top quality spare parts, designed for durability and performance, are always available.

With Alfa Laval service you maximize the reliability and uptime of your equipment. The result is superior performance throughout the equipment life cycle – performance that puts you ahead of competition.



Alfa Laval can provide all the accessories to make your tank complete, including tank covers, machine feet, tank feet and sight glasses.



# A swift, clean finish



Alfa Laval's new Toftejorg SaniMidget SB, which is authorized to carry the 3-A symbol, is one of many dynamic tank cleaning solutions that yield optimal results in a minimum of time.

What happens in each mixing cycle is influenced by what happens in between. Effective cleaning not only ensures high productivity, it also helps maintain the integrity of your product.

Alfa Laval has long been seen as a tank cleaning leader, with dynamic solutions that clean faster and deeper than static spray balls. Today our portfolio includes the new Toftejorg SaniMidget SB, which opens with a single lock spring and is authorized to carry the 3-A symbol.

By spraying the cleaning fluid in a three-dimensional pattern, our cleaning heads reach the entire tank surface for thorough results in a fraction of the time. This means they increase your uptime, just as they reduce your consumption of water, cleaning chemicals and energy.

In addition, it means the cost of ownership for our dynamic cleaning devices is always lower than that of static spray balls. So by turning to Alfa Laval for tank cleaning as well as mixing, you get an optimized and cost-effective solution – from start to finish.



Agitators and mixers



Agitator ALB



Agitator ALS



Agitator ALT



Agitator ALTB



Agitator ALTB Ensafem



Rotary Jet Mixer



Magnetic Mixer



Hybrid Powder Mixer

Tank instrumentation



Rotacheck+



Weighing System UltraPure



Flow Transmitter



Conductivity Sensor



Level Switch



Potentiometric Level Transmitter



Flow Meter



Temperature Transmitter



Pressure Gauge

Tank covers, tank legs, sight glasses and other accessories



Sight Glasses



Side-Mounted Sight Glasses



Machine Feet and Tank Feet



Pressure Cover HLSD-2



Access Tank Cover C-O-R



LKD



LKDC and LKDS

Tank cleaning solutions



Toftejorg SaniMicro



Toftejorg SaniMidget



Toftejorg SaniMidget SB



Toftejorg SaniMagnum



Toftejorg SaniMidget Retractor



Toftejorg SaniJet 20



Toftejorg SaniJet 25



Toftejorg TJ 20G



Toftejorg TZ-74

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By choosing Alfa Laval, you get everything you need for tank optimization from a single source. Supporting our agitators, mixers and tank cleaning solutions are the pumps, heat exchangers, valves and other equipment needed to complete your mixing and cleaning process.

Learn more at [www.alfalaval.com/tankequipment](http://www.alfalaval.com/tankequipment)

Agitators and mixers



Agitator ALB



Agitator ALS



Agitator ALT



Agitator ALTB



Agitator ALTB Ensafem



Rotary Jet Mixer



Magnetic Mixer



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Level Switch



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Pressure Gauge



Thermometer

Tank covers, tank legs, sight glasses and other accessories



Sight Glasses



Side-Mounted Sight Glasses



Machine Feet and Tank Feet



Pressure Cover HLSD-2



Access Tank Cover C-O-R



LKD



LKDC and LKDS

Tank cleaning solutions



Toftejorg SaniMicro



Toftejorg SaniMidget



Toftejorg SaniMidget SB



Toftejorg SaniMagnum



Toftejorg SaniMidget Retractor



Toftejorg SaniJet 20



Toftejorg SaniJet 25



Toftejorg TJ 20G



Toftejorg TZ-74



Toftejorg TZ-67



LKRK Static Spray Ball



### **Alfa Laval in brief**

Alfa Laval is a leading global provider of specialized products and engineered solutions.

Our equipment, systems and services are dedicated to helping customers optimize the performance of their processes. Time and time again.

We help our customers to heat, cool, separate and transport products such as oil, water, chemicals, beverages, foodstuffs, starch and pharmaceuticals.

Our worldwide organization works closely with customers in almost 100 countries to help them stay ahead.

### **How to contact Alfa Laval**

Up-to-date Alfa Laval contact details for all countries are always available on our website at **[www.alfalaval.com](http://www.alfalaval.com)**

