

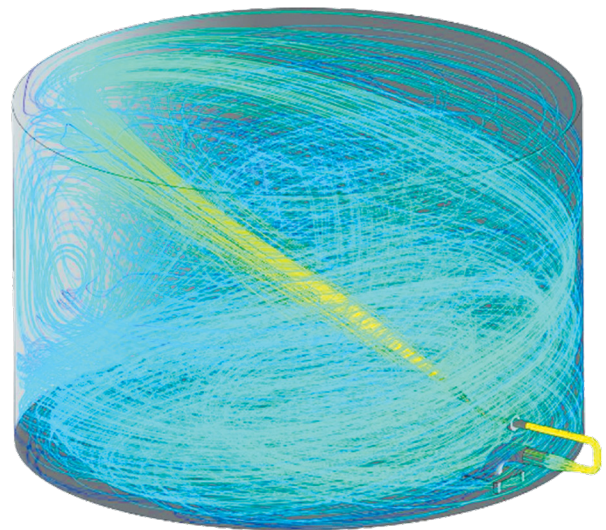


Spraying Systems Co.
Experts in Spray Technology



TANK MIXING THE 46550-LE LARGE TANK MIXING EDUCTOR

NOZZLES // SPRAY LANCES



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· TANK CLEANING · **TANK MIXING** · AUTOMATED · DISINFECTION · SPRAY LANCES · ACCESSORIES · **NOZZLES** · SPRAY GUNS

TANK MIXING OVERVIEW //

Mixing is a common industrial operation used for blending liquids, homogenizing mixtures, ensuring proper heat and mass transfer, and preventing solid particle deposition. Eductors (also known as Jet Mixers) are widely used to efficiently mix or blend tanks.



TYPICAL APPLICATIONS //

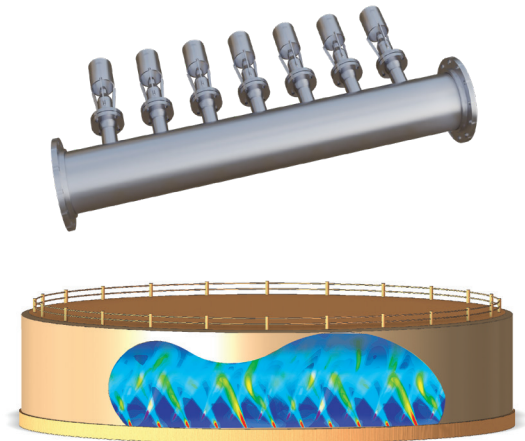
- Mixing chemicals in water and wastewater treatment
- Homogenizing temperature gradients in tanks
- Blending liquids and homogenizing mixtures
- Introducing additives into gasoline
- Preventing sludge and solid particle deposition

IN-HOUSE CFD DESIGN

Tank mixing keeps everything flowing. Whether blending chemicals, food ingredients, or industrial fluids, proper mixing ensures consistency, prevents clumping, and boosts efficiency.

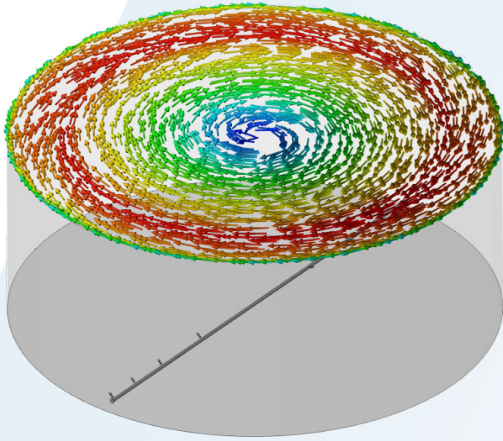
We take it up a notch with our proprietary software & in-house CFD, using advanced simulations to optimise your mixing process before it even hits the tank. Smarter design, better results, zero guesswork.

Combined with complete mixing manifolds designed to ASME B31.3 or EN 13480 standards, we ensure the best mixing solution for your specific application.

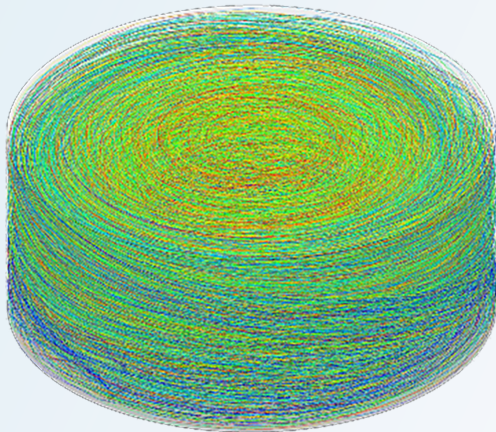


KEY FEATURES	BENEFITS
<ul style="list-style-type: none"> • CFD optimized design 	<ul style="list-style-type: none"> • Zero maintenance: no moving parts
<ul style="list-style-type: none"> • Optimally sized and positioned metering orifice 	<ul style="list-style-type: none"> • Energy efficiency: compared to agitators
<ul style="list-style-type: none"> • Maximized turbulence produced by the jet plume 	<ul style="list-style-type: none"> • Cost effective: designed using standard parts
<ul style="list-style-type: none"> • Up to 8" inlet size 	<ul style="list-style-type: none"> • Versatility: can handle various fluids
<ul style="list-style-type: none"> • Up to 15,000 l/min motive fluid flow 	
<ul style="list-style-type: none"> • Multiple material choices 	
<ul style="list-style-type: none"> • Proprietary sizing software 	

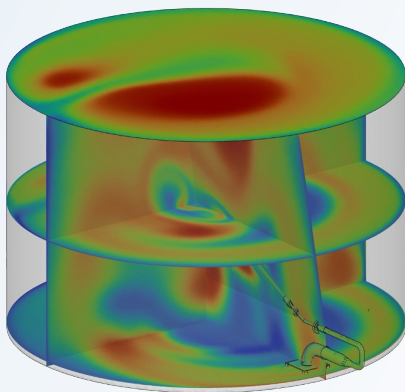
EXAMPLES //



GAS OIL TANK	
Height	20 m
Diameter	40 m
Number of eductors	8
Liquid density	850 kg/m ³
Liquid viscosity	7 cP
Mixing Time	40 min.



JET FUEL TANK	
Height	18 m
Diameter	40 m
Number of eductors	6
Liquid density	770 kg/m ³
Liquid viscosity	8 cP
Mixing Time	45 min.



WATER STORAGE TANK	
Height	6 m
Diameter	5 m
Number of eductors	1
Liquid density	998 kg/m ³
Liquid viscosity	1 cP
Mixing Time	55 min.



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OPTIMIZED TANK MIXING SOLUTIONS

Our 46550-LE Large Eductors, advanced sizing software, and CFD design capabilities provide a reliable, scalable solution for blending, preventing stratification, mixing slurries, and suspending sludge. Real-world applications and case studies show how our technology enhances mixing performance, improves process efficiency, and delivers measurable results

CONTACT US

Explore the advantages of our precision spraying solutions and see how they can enhance your production line. Our technology aims to boost efficiency, reduce waste, and improve product quality.


For more information or to schedule a consultation with our technical specialists, visit our website at **[spray.com/en-eu](https://www.spray.com/en-eu)**. We're here to provide detailed insights, expert advice, and tailored solutions to meet your unique needs. Contact us today to start optimizing your production processes.



LANGUAGE SUPPORT

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