ALIGN Air • Liquid • Interface • Generator • Nozzle



Precision Ultrasonic Spraying Platform

A complete ultrasonic spraying platform designed to easily integrate with existing equipment. The system provides full control of the ultrasonic nozzle, spray shaping, control enclosure, and choice of liquid delivery systems. Reductions in spray material of up to 75% are seen when changing from conventional air spray to a Sono-Tek ultrasonic atomizer, with tighter process control and improved efficiency.

- Designed to retrofit into existing equipment
- Requires only a trigger signal to operate
- Highly repeatable performance and reduced wasteful overspray
- Self-cleaning ultrasonic nozzle prevents clogging
- · Controlled velocity will not harm or disturb delicate substrates
- Spray pattern width ranging from: 2 200mm (0.080"- 8"), depending upon nozzle configuration
- Utilizes ECHO generator technology
- Designed for precise on/off triggering of spray sequence, maximizing efficiency of programmed spray processes
- Ultrasonic nozzles can spray in any orientation (up, down, or at any angle)
- Integrates with many different Sono-Tek precision liquid delivery options





ALIGN is a compact, versatile ultrasonic spray platform. The platform is paired with customer choice of ultrasonic nozzle, liquid delivery system, and air/gas control system, all controlled through a simple touch interface display.

Many different options are available for the ultrasonic nozzle, liquid delivery and air/gas control, depending upon application requirements. Sono-Tek's application engineering experts will provide recommendations for each.

OPTIONS FOR PLATFORM INTEGRATION		
ULTRASONIC NOZZLE OPTIONS	LIQUID DELIVERY O	PTIONS AIR/GAS CONTROL OPTIONS
AccuMist - Produces a thin, bow-shaped spray pattern. UCUDI INLET FITTING ULTRASONIC ULTRASONIC COMPRESSED COMPRESSED COMPRESSED COMPRESSED FOCUSING AIR FITTING FOCUS REGION Impact - Creates a fan shaped spray pattern. FITTING FOCUS REGION Impact - Creates a fan shaped spray pattern.	in/gas Syringe Pump TI haped Touch Interface program syringe pump Flow rate range: 0.01-5 Pressure Reservoir Pressure Reservoir Pressure Reservoir DUSING Pressure Reservoir LET Pressure Reservoir DUSING Gear Pump LE STEM Gear Pump Pulseless gear pump for or intermittent flow Flow rate range: 2-20, regiment flow de, tern. High accuracy positive MicroFlow High accuracy positive BINLET Displacement pump	mmable 50 ml/min h optional ml/min Dor continuous 10-70 or Digital touch screen adjustment
ATOMIZING SURFACE ULTRASONIC NOZZLE JET BLOCK ASSEMBLY	Flow rate range: 1µl/min SonoFlow Fusion Continuous syringe put with SonicSyringe or Si Flow rate range: 0.5-15	n-25ml/min mp compatible tirring Syringe 5 ml/min
Ultrasonic Nozzle Specificatio Materials of Construction Nozzle Body* Titanium alloy 6AI-4V Nozzle Housing 316 stainless steel	INS Liquid Solenoid Val Wetted Materials	ve (2 Different Types) <i>Type 1:</i> 316 stainless steel, Chemraz [®] , 400 series stainless steel or <i>Type 2:</i> Teflon and Kalrez
O-rings* Kalrez® Liquid Inlet* 316 stainless steel (6 mr Air/Gas Inlet Nickel-plated brass(4 mr	n) Input Power n barb)	Quirements 100-240 VAC, 50/60 Hz Single phase, 3A max
Air Shaping	Compressed Air	(10A service recommended)
AccuMist	Air/Gas Consumption	2-170 lpm application dependent
Spray Pattern Diameter 2 mm - 6.4 mm (0.080"- 1.5	") Exhaust	Application dependent
Air Pressure 0-14 kPa (0-2 psi) typical Impact Air/Gas Jet Materials Ertalyte®, Delrin®, stainless steel, Acetal	Control Mod Dimensions	dule Specifications 370mm W x 408mm H x 266mm D
Spray Pattern Diameter50 mm - 150 mm (2"- 6")Air Pressure0-200 kPa (0-30 psi) typical		(+152mm/6" additional space needed
Vortex	Display Interface	4.3" LCD. capacitive touch
Air/Gas Jet MaterialsDelrin®, stainless steelSpray Pattern Diameter50 mm - 200 mm (2"- 8")Air Pressure0-70 kPa (0-10 psi) typical	External Trigger Inp	ut Switch closure, 5 VAC/DC 24 VAC/DC
Propel Air/Gas Jet Materials Stainless steel Spray Pattern Diameter 50 mm - 200 mm (2"- 8") Air Pressure 14-170 kPa (2-25psi) typica	Alarm Output for nozzle malfuncti Operating Temperat *Wetted materials. Teflon E.I.DuPont de Nemours &	Relay,N/O, N/C, attaches to users alarm ture 0 - 40° C (0 - 104° F) *,Kalrez* and Delrin* are registered trademarks of Company. Specifications may change without notice.

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