

1750+ Spray Control



AutoJet
TECHNOLOGI
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AUTOJET® 1750+ SPRAY CONTROL SYSTEM

SIMPLE, FLEXIBLE, PRECISE
SPRAY CONTROL



Spraying Systems Co.®
Experts in Spray Technology



IMPROVING PERFORMANCE AND EFFICIENCY IN COATING, LUBRICATING AND DISPENSING OPERATIONS JUST GOT EASIER

INTRODUCING THE AUTOJET® 1750+ SPRAY CONTROL SYSTEM

Our newest modular spray system provides precise control of automatic spray nozzles to ensure accurate liquid placement, minimize waste and boost productivity. It also provides convenient, remote monitoring of the system and maintenance analytics to ensure peak performance. Plus, it's compact, easy to use, easy to maintain and easy on the budget.

BENEFITS:

- Superior on/off control of nozzles compared to manual operation and simple devices like solenoid valves. Designate when, where and how much to spray during set-up. Running different batches? Add optional recipe storage to ensure quick changeover and keep lines running
- Tight automated control of air and liquid eliminates quality problems like uneven application and coverage on the target
- Workers can be deployed to other tasks. WiFi connectivity enables remote control of the system from tablets, phones and computers. Adjust nozzle and timing settings, troubleshoot problems, view and plan maintenance schedules, review system alerts and more without being in close proximity of the control panel
- When used with PulsaJet® electrically-actuated spray nozzles, Precision Spray Control (PSC) is possible. PSC dramatically improves efficiency and flexibility and reduces operating costs. Reduced liquid consumption, less clogging and an increase in the flow rate range for a single nozzle are just a few of the benefits

Liquid control pump version

Compact design fits nearly anywhere – unit is 41" H x 17" W x 22.5" D (1m H x .43m W x .57m D). Plus, system components are always easy to access.

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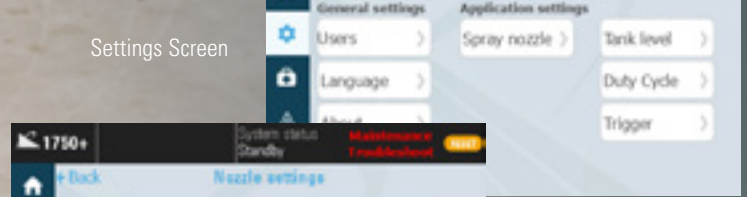


- Operates a wide variety of electrically- and pneumatically-actuated spray nozzles in addition to PulsaJet automatic spray nozzles
- Self-contained system is compact and can be set up in minutes. Small footprint makes integration into existing operations easy
- Modular design means you get the capabilities you need and nothing else. The system is available with a pump, without a pump, with a pressure pot or as a standalone spray controller
- User-configurable to match application needs. Every system provides on/off control of pneumatically- and electrically-actuated spray nozzles. Then choose liquid pressure control, liquid and atomizing air control or liquid or atomizing and fan air control





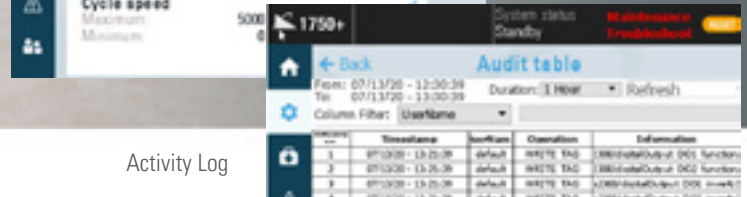
Home Screen



Settings Screen



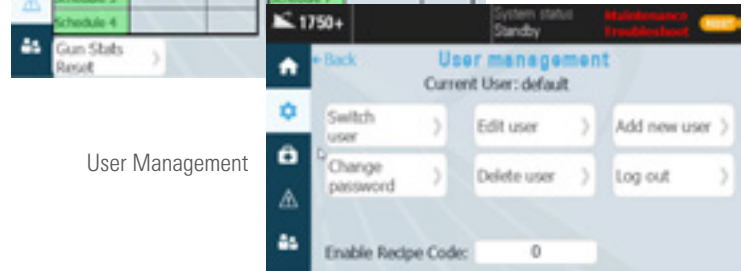
Nozzle Parameters



Activity Log



Maintenance Schedules



User Management

SIMPLE SPRAY CONTROL IS MORE CONVENIENT THAN EVER

Set-up and operation of the AutoJet® 1750+ Spray Control System is simple and straightforward. Component connections can be completed in just a few minutes. Setting the spray parameters, timing modes and recipes can also be accomplished quickly using the HMI touchscreen on the front of the controller. Once set-up is complete, you can connect to the system using WiFi and adjust settings, view alerts, troubleshoot, review maintenance schedules, manage users and more.

IDEAL APPLICATIONS FOR THE AUTOJET 1750+ SPRAY CONTROL SYSTEM

The AutoJet 1750+ can be used in a wide range of operations. It is especially well-suited for coating products on conveyors and in tumblers.

Typical uses include the application of:

- Antimicrobials and mold inhibitors on meat/poultry, cheese, baked goods and other food products
- Water on baked goods for seed adhesion
- Oil and flavorings on pizza crust, snack foods and more
- Egg wash on baked goods such as buns
- Release agents on molds, pans, parts, conveyors and other equipment
- Disinfectants on products
- Binders on wood chips and other materials
- Resins and pigments on wood panels and boards
- Anti-static chemistry on plastic products
- Corrosion inhibitors on metal rods, sheets
- Lubricants on machine tools, wire cables, cans and more
- Water mist for cooling on bars and sheet metal
- Moisture on foam to activate adhesives



AUTOJET 1750+ SPRAY CONTROL SYSTEM



VERSION	PUMP VERSION			WITHOUT PUMP VERSION		
CONFIGURATION	Liquid Control	Liquid & Atomizing Air Control	Liquid, Atomizing & Fan Air Control	Liquid Control	Liquid & Atomizing Air Control	Liquid, Atomizing & Fan Air Control
On/off control of pneumatically-actuated spray nozzles	•	•	•	•	•	•
On/off control of electrically-actuated spray nozzles	•	•	•	•	•	•
Liquid pressure control for nozzles	•	•	•	•	•	•
Air pressure control for air atomizing nozzles		•	•		•	•
Fan air pressure control provides spray pattern control for variable spray air atomizing nozzles			•			•
Air operated double diaphragm pump	•	•	•			
Control valve for recirculation to tank	•	•	•	•	•	•
Pressure pot option				•	•	•
Food contact option	•	•	•	•	•	•
Metric connections option	•	•	•	•	•	•
Mobile cart option	•	•	•	•	•	•
Wall mount option	•	•	•	•	•	•
Zone control option: manual, digital, digital with timer	•	•	•	•	•	•





PRESSURE POT VERSION			CONTROL PANEL ONLY
Liquid Control	Liquid & Atomizing Air Control	Liquid, Atomizing & Fan Air Control	Nozzle Control Only
•	•	•	
•	•	•	•
•	•	•	
	•	•	
		•	
•	•	•	
STD	STD	STD	N/A
•	•	•	N/A
•	•	•	
•	•	•	STD
•	•	•	•

SPECIFICATIONS

Pumping & Flow Ratings

Inks, stains, water-based solvents, lubricants, oils, paints, non-abrasive slurries

Fluid viscosity 1000 cP or less at 68°F (20°C)

Fluid temperatures of 32° to 140°F (0° to 60°C)

Flow & Pressure Ratings

3.5 gpm at 40 psi (13.2 lpm at 2.8 bar)

70 scfm for nozzles plus the pump air

Maximum air and liquid pressure: 100 psi (7 bar)

Control

Control panel: UL Type 1 with door closed (stainless steel)

HMI touchscreen, washdown compatible

Remote connection via WiFi

Three electable timing modes: Fixed spray time, Variable spray time, Repeat

Controls up to 10 electrically-actuated automatic spray nozzles (varies by type)

Standard triggering options: various laser sensors

For automatic line speed adjustments using PSC flow control, a conditioned, 4-20mA signal is required

Optional control of up to 20 recipes

Components

Air inlet shut-off/lockout and filter assembly

Liquid outlet strainer 100 mesh

Liquid pressure regulator and gauge

Power required: 110 VAC, 60 Hz, 15 A, 1 Ø (capable to 260 VAC, 50 Hz, 15 A, 1 Ø)

General

Dimensions: 41" H x 17" W x 22.5" D (1 m H x .43 m W x .57 m D)

Weight: Less than 85 lbs. (38.5kg)

UL, cUL rated

Wetted Materials

Pump version: stainless steel, Viton, PVC, nylon, nickel-plated brass, polypropylene, PTFE

Pumpless version: stainless steel, Viton®, PVC, nylon and nickel-plated brass

Pressure pot version: Stainless steel, polyethylene, Viton and PVC

Food contact pumpless version: stainless steel, Viton, acetal, polyethylene

Food contact pump version: stainless steel, Viton, acetal, polyethylene, PTFE



AUTOJET 1750+ SPRAY CONTROL SYSTEM

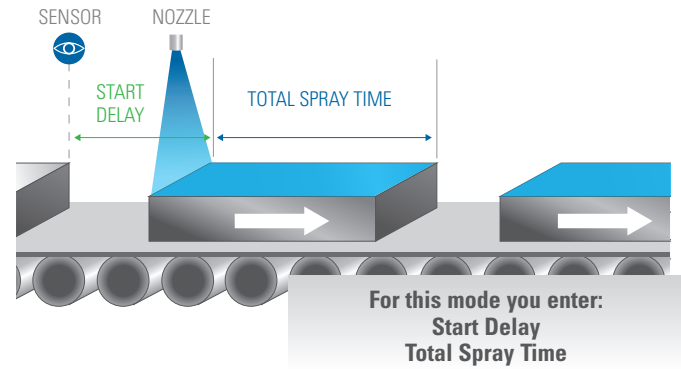
TIMING MODES

FIXED SPRAY TIME

The system will spray once after it is triggered based on entered start delay and spray period, then stops spraying until next trigger signal.

Application Examples:

- Marking
- Single instance spray
- Partial coverage
- e.g.: die lube applications

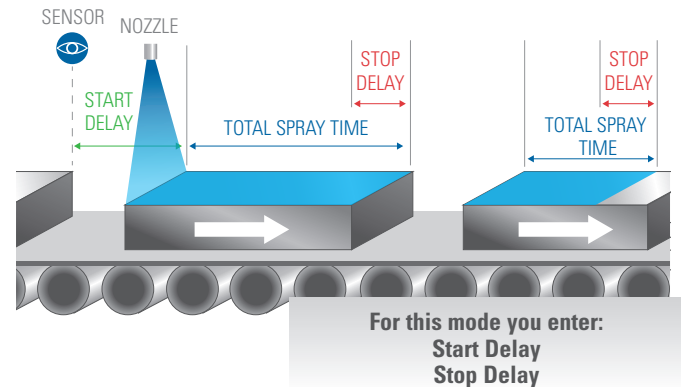


VARIABLE SPRAY TIME

This timing mode creates spray periods of variable lengths. The system will spray following the trigger. Spray period is based on the sensor seeing the object then utilizing the entered start delay and stop delay. The length of the spray depends on the length of the trigger input and can be adjusted by the start and stop delay.

Application Examples:

- Full coverage
- Variable size items
- Variable line speeds
- e.g.: precision spray applications

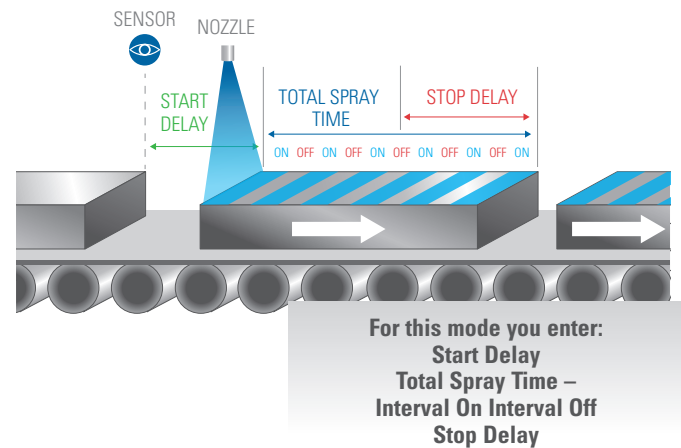


REPEAT

This timing mode creates a continuous repetition of spray applications for a variable time or spray period based on object size. The system will spray following the trigger, spray period is based on the sensor seeing the object then utilizing the entered timing settings, spray delay, interval on, interval off, repeats these until trigger off signal then incorporates stop delay.

Application Examples:

- Stripping
- Humidification
- Non-full coverage
- e.g.: conveyor applications



REMOTE CONNECTION SET-UP:

- Download VNC viewer to mobile device. Available from the Apple Store or Google Play
- Go to WiFi settings on mobile device. Connect to 1750+ using password: SSC01750
- Open VNC viewer, click +
- Enter IP address: 192.168.0.20:5900
- Name your system, hit create, then connect



AUTOMATIC NOZZLE OPTIONS FOR EVERY APPLICATION

The 1750+ Spray Control System controls a wide range of automatic nozzles. PalsaJet® nozzles are a popular choice because they enable the use of Precision Spray Control (PSC) and increased operating flexibility. If PSC isn't required, many other options are available. Choose from electric or air actuation, hydraulic or air atomizing and a wide range of spray capacities. Whether you're coating, lubricating, dispensing, marking or sealing, you'll find a nozzle that provides the drop size and coverage you need.

LIQUID ONLY CONTROL	Electrically-Actuated Hydraulic Nozzles PalsaJet Series Spray Nozzles	Air-Actuated Hydraulic Nozzles AA250AUH Spray Nozzles	Air-Actuated Hydraulic Nozzles JJAUH Series & 22AUH Spray Nozzles
			
LIQUID & ATOMIZING AIR CONTROL	Electrically-Actuated Hydraulic Nozzles PalsaJet Series & 29JAUCO Spray Nozzles	Air-Actuated Air Atomizing Nozzles JAU & JJAU Series Spray Nozzles	
			
LIQUID, ATOMIZING & FAN AIR CONTROL	Air-Actuated Air Atomizing Nozzles VAU, VMAU & VX-Series Variable Spray Nozzles		
			

ABOUT PRECISION SPRAY CONTROL

Electrically-actuated spray nozzles are turned on and off very quickly to control flow rate. This cycling is so fast that the flow often appears to be constant.

Benefits:





- Flow rate changes are nearly instantaneous and have no impact on spray performance
- Flow rate changes can be made based on line speed
- Wider flow rate range from a single nozzle means more operating versatility and lower costs

NOZZLES SPRAYING
50% OF THE TIME



ADDITIONAL AUTOJET® SPRAY CONTROL OPTIONS

For many applications, the 1750+ Spray Control System provides the perfect blend of functionality, automation and price. For more sophisticated operations, consider the AutoJet 1000+ Timing Controller, the AutoJet 2150+ Spray Control Panel or the AutoJet 2850+ Spray Control Panel.

FEATURES	 1000+ TIMING CONTROLLER	 1750+ CONTROL PANEL	 2150+ SPRAY CONTROL PANEL	 2850+ SPRAY CONTROL PANEL
Remote WiFi connection for system control		●		
Timing modes	3 modes	3 modes	●	●
Recipe storage	●	Optional		Up to 16
Distance-based timing			●	●
Spray volume validation				●
Closed/open loop flow control				●
Integrated zone control				Up to 12 zones
Optional zone control		●	●	
Shot weight/flow verification				●
No. of channels	2	1	2	1 or 2
Maintenance reminders		●		●
Ethernet IP				●
Modbus TCP			●	●
Max. number of nozzles	8	10	16	16 per channel
Touchscreen HMI with diagnostic screens	●	●	●	●



Spraying Systems Co.®
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