



AUTOJET® 2008+ SPRAY CONTROL PANEL

IMPROVE PERFORMANCE & LOWER COSTS
WITH PRECISION SPRAY CONTROL



Spraying Systems Co.®
Experts in Spray Technology

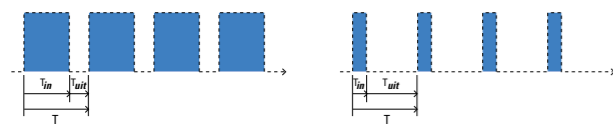


AUTOJET® 2008+ SPRAY CONTROL PANEL

The AutoJet 2008+ Spray Control Panel provides a convenient way to activate electronic nozzles at a specific frequency and duty cycle. The control panel is specifically designed to drive Spraying Systems Co.'s PulsaJet® Automatic Spray Nozzles and includes a power supply and all components needed for "plug-and-spray" operation. The panel can be used as a stand-alone spray system or may be integrated into an existing control system or PLC and operated by a remote trigger.

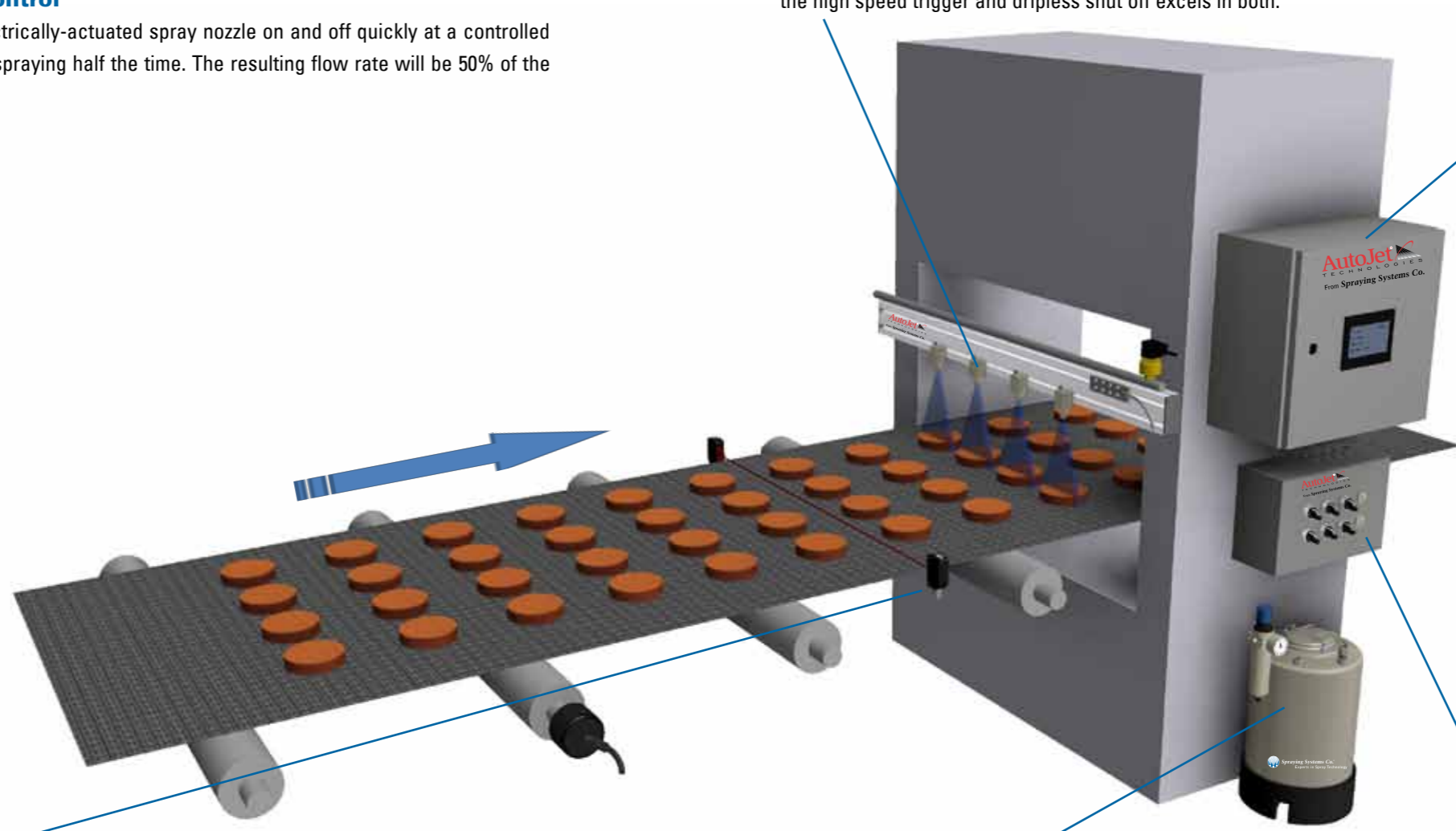
The Benefits of Pulse Width Modulated Flow Control

Flow rate can be controlled very precisely by cycling the electrically-actuated spray nozzle on and off quickly at a controlled frequency. Setting the duty cycle to 50%, limits the nozzle to spraying half the time. The resulting flow rate will be 50% of the maximum flow rate at a given pressure for that nozzle.



Duty Cycle 80%

Duty Cycle 5%



PULSAJET® NOZZLES

The special nozzle design allows for a large turndown ratio while maintaining a consistent spray pattern. Spray angle and droplet size, critical in most spray applications; remain unchanged throughout a range of flows from a single spray tip. Extremely low flows, usually only associated with air atomized sprays, are achieved hydraulically using the PulsaJet® spray gun. And, by using a conventional hydraulic spray tip to achieve the desired low flow rate, you will greatly reduce the airborne misting usually associated with an air atomizing nozzles. The PulsaJet can be used in continuous or single shot applications, as the high speed trigger and dripless shut off excels in both.



AUTOJET® 2008+ PULSAJET® SPRAY CONTROL PANEL

The AutoJet 2008+ Spray Control panel allows quick and easy changes if needed. The extensive Inputs and Outputs allow the connection of a variety of sensors or the full integration into a central PLC.

The advanced control logic allows you to maintain consistency during your spray application even if your line speed increases or decreases during a production run.

Special algorithms in the AutoJet 2008+ Spray Control team up with the PulsaJet Automatic Spray Nozzle allowing for a wide range of flow rates.

POSSIBLE SENSORS

The system is prepared to be equipped with:

- Trigger sensor: External trigger signal can be used for precision spraying onto products or to start and stop a spray cycle. The integrated timing modes allow fine tuning on the line and allow stand-alone solutions
- Speed sensor: Allows a constant spray application rate at different line speeds; useful when different weights, needing the same percentage of spray, are presented to the spray system
- Pressure sensor: Allows flow rate control even with changing liquid pressures
- Tank level switch: Can be used to detect an empty pressure tank, give an alarm message and stop the spray

Connection to PLC:

The numerous Inputs and Outputs allow a full integration into a central PLC.

OPTIONAL PRESSURE TANK

A pressure tank is a quick and easy alternative to supplying liquid to the PulsaJet Automatic Spray Nozzle without the use of a pump. There are no moving parts. All wetted components are made from stainless steel or brass. The tank can have a level switch to detect an empty tank.



OPTIONAL ZONE CONTROL BOX

Two options to switch on/off individual nozzles are available: manual (as shown) or digital relays.



Pls. note: Optionally we offer other liquid supply solutions

IDEAL FOR

- Coating (e.g. oil spray onto biscuits / cookies)
- Moisturizing (e.g. precise water addition to woodchip)
- Lubrication (e.g. die lubrication for forges)

BENEFITS

- Relatively low flow rates can be generated with larger, clog-resistant spray tips
- Overspray and misting is minimized and spray angle integrity is maintained
- Chemical consumption can be drastically reduced
- Extremely high flow turndown ratios can be achieved at a single pressure

APPLICATION CASE STUDIES

Flat Glass Manufacturer Reduces Scrap by 75% with Automated Spray Coating System



Problem: High production demands application of the dielectric glass paint which was in the past the most expensive component of the glass. The application process was labor intensive and the quality of the paint was inconsistent. The application process was also very slow and the cost of the paint was high. The application process was also very slow and the cost of the paint was high.

Solution: An AutoJet® Spray System with a precision spray gun and a high flow rate nozzle was installed. The system is designed to spray the paint onto the glass at a consistent rate and the quality of the paint is improved. The system is also very fast and the cost of the paint is reduced.



Paper Manufacturer Reduces Paper Breaks by 75% with New Spray System



Problem: A manufacturer of industrial paper was experiencing a high rate of paper breaks. The breaks were caused by the application of a spray system that was not designed for the application. The system was also very slow and the cost of the spray was high.

Solution: A precision spray system with a high flow rate nozzle was installed. The system is designed to spray the material onto the paper at a consistent rate and the quality of the material is improved. The system is also very fast and the cost of the material is reduced.



Automated Spray System Helps Textile Manufacturer Improve Product Quality and Save Money



Problem: A textile manufacturer was experiencing a high rate of product defects. The defects were caused by the application of a spray system that was not designed for the application. The system was also very slow and the cost of the spray was high.

Solution: An AutoJet® Spray System with a precision spray gun and a high flow rate nozzle was installed. The system is designed to spray the material onto the textile at a consistent rate and the quality of the material is improved. The system is also very fast and the cost of the material is reduced.



Wood Pellet Manufacturer Saves More than CA\$251,000 Annually Spraying Oil with Automated Spray System



Problem: A manufacturer of wood pellets was experiencing a high rate of product defects. The defects were caused by the application of a spray system that was not designed for the application. The system was also very slow and the cost of the spray was high.

Solution: An AutoJet® Spray System with a precision spray gun and a high flow rate nozzle was installed. The system is designed to spray the material onto the wood pellets at a consistent rate and the quality of the material is improved. The system is also very fast and the cost of the material is reduced.



Automated Spray System Eliminates 80,000 Pounds of Rework Each Month for Aluminum Manufacturer



Problem: An aluminum manufacturer was experiencing a high rate of rework. The rework was caused by the application of a spray system that was not designed for the application. The system was also very slow and the cost of the spray was high.

Solution: A precision spray system with a high flow rate nozzle was installed. The system is designed to spray the material onto the aluminum at a consistent rate and the quality of the material is improved. The system is also very fast and the cost of the material is reduced.



Bakery Improves Quality and Increases Production Speed Five-Fold with Automated Spray System



Problem: A bakery manufacturer was experiencing a high rate of product defects. The defects were caused by the application of a spray system that was not designed for the application. The system was also very slow and the cost of the spray was high.

Solution: An AutoJet® Spray System with a precision spray gun and a high flow rate nozzle was installed. The system is designed to spray the material onto the bakery products at a consistent rate and the quality of the material is improved. The system is also very fast and the cost of the material is reduced.



... AND MANY OTHER CASE STUDIES YOU FIND ON WWW.SPRAY.COM

Additional information on our PWM Technology you find in our bulletin 603 and 662. Have a look also in our guide 414 for PWM Flow Control.



Spraying Systems Co.®
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