AUTOJET® 2008+ SPRAY CONTROL PANEL

IMPROVE PERFORMANCE & LOWER COSTS WITH PRECISION SPRAY CONTROL

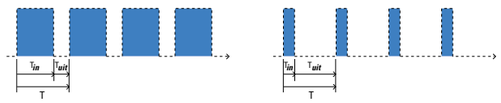
Spraying Systems Co.®
Experts in Spray Technology

AUTOJET® 2008+ SPRAY CONTROL PANEL

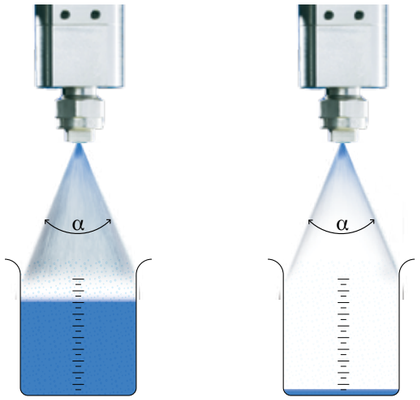
The AutoJet 2008+ Spray Control Panel provides a convenient way to activate electronic nozzles at a specific frequency and duty cycle. The control panel is specifically designed to drive Spraying Systems Co.'s PulsaJet® Automatic Spray Nozzles and includes a power supply and all components needed for "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%

POSSIBLE SENSORS

The system is prepared to be equipped with:

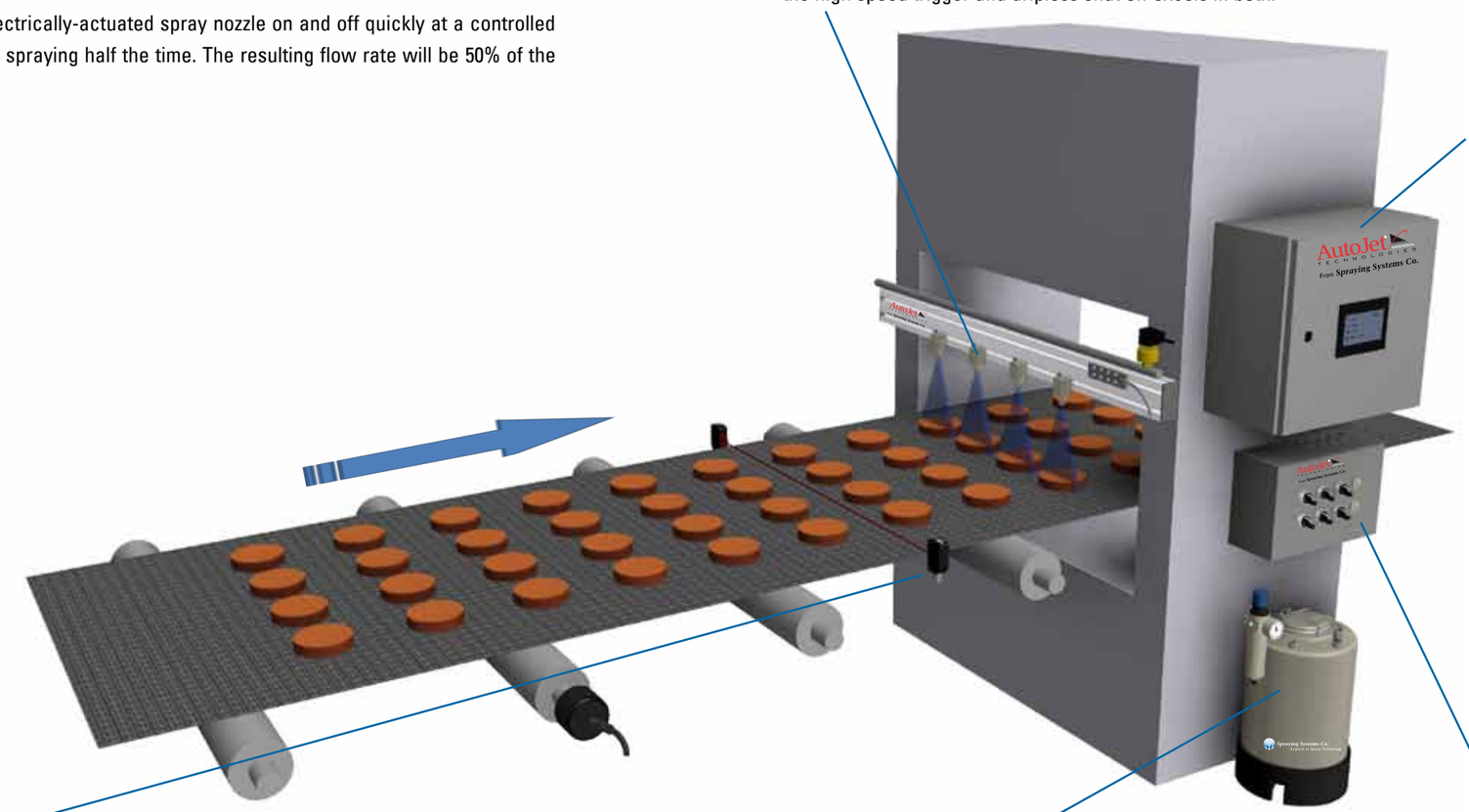
- Trigger sensor: External trigger signal can be used for precision spraying onto products or to start and stop a spray cycle. The integrated timing modes allow fine tuning on the line and allow stand-alone solutions
- Speed sensor: Allows a constant spray application rate at different line speeds; useful 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.

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.

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.

Pls. note: Optionally we offer other liquid supply solutions

OPTIONAL ZONE CONTROL BOX

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

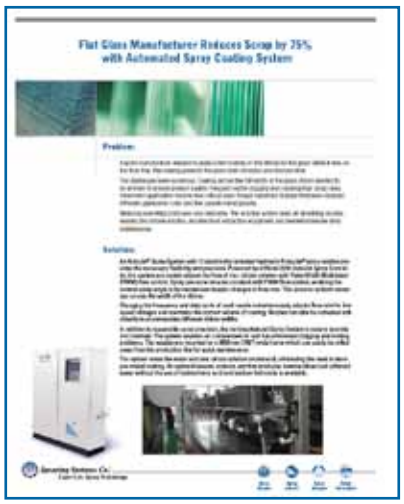
IDEAL FOR

- Coating (e.g. oil spray onto biscuits / cookes)
- 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 maintainedis minimized
Chemical consumption can be drastically reduced
Extremely high flow turndown ratios can be achieved at a single pressure

APPLICATION CASE STUDIES



... 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.

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