



Spraying Systems Co.®
Experts in Spray Technology



Spray
Nozzles



Spray
Control



Spray
Analysis



Spray
Fabrication



PanelSpray™ Moistening System

Increase Quality and Throughput for Your Engineered Wood Products

Precision Spray Technology Improves Your Production

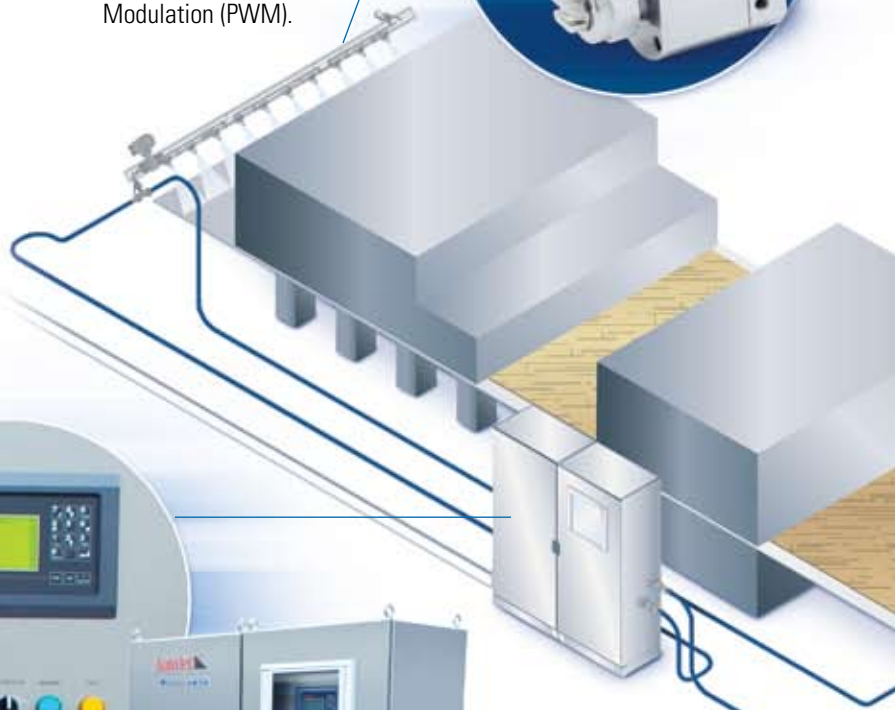
The patented PanelSpray™ Moistening System can help improve the quality of OSB, MDF, plywood and other engineered wood products while decreasing production costs and reducing maintenance time.

Moisture applied to the mat surface helps heat to penetrate into structural board products more evenly and more quickly, resulting in reduced cure times and faster press cycles. The PanelSpray Moistening System uses closed-loop application control to ensure even coverage of your mat no matter how much your line speeds may vary. The result is increased throughput and structural board with a smoother and harder surface finish.

If you also apply a release agent, the precise performance of the PanelSpray System prevents the mat material from sticking to the press belt, keeping your forming belt running without interruption.

PulsaJet® nozzles

can achieve cycle speeds up to 10,000 cycles per minute for precise flow control using Pulse Width Modulation (PWM).



AutoJet control cabinet

provides closed-loop system control and is easily integrated into plant control systems.

Benefits

- Nozzle system is less expensive than spinning disks, offers greater reliability and requires less maintenance
- Automatically maintains optimal flow rates based on line speed
- Uniform spray coverage increases product quality and production rates
- Independent flow control for top and bottom headers
- Pulse Width Modulated (PWM) flow control saves expensive chemicals
- Spray controller with proprietary spray integrity software verifies performance and detects plugged nozzles
- Turnkey system is easily installed and integrated into existing production lines

Options

- Mixing and dosing unit allows adjustments in chemical concentrations at the touch of a button
- In-line liquid heating improves the flow of viscous liquids
- Liquid recirculation ensures proper mixing of chemicals and uniform temperature
- Rinsing cycle cleans nozzles and entire system between spray cycles

AutoJet
SPRAY CONTROL
From *Spraying Systems Co.*

Specifications

Application Control

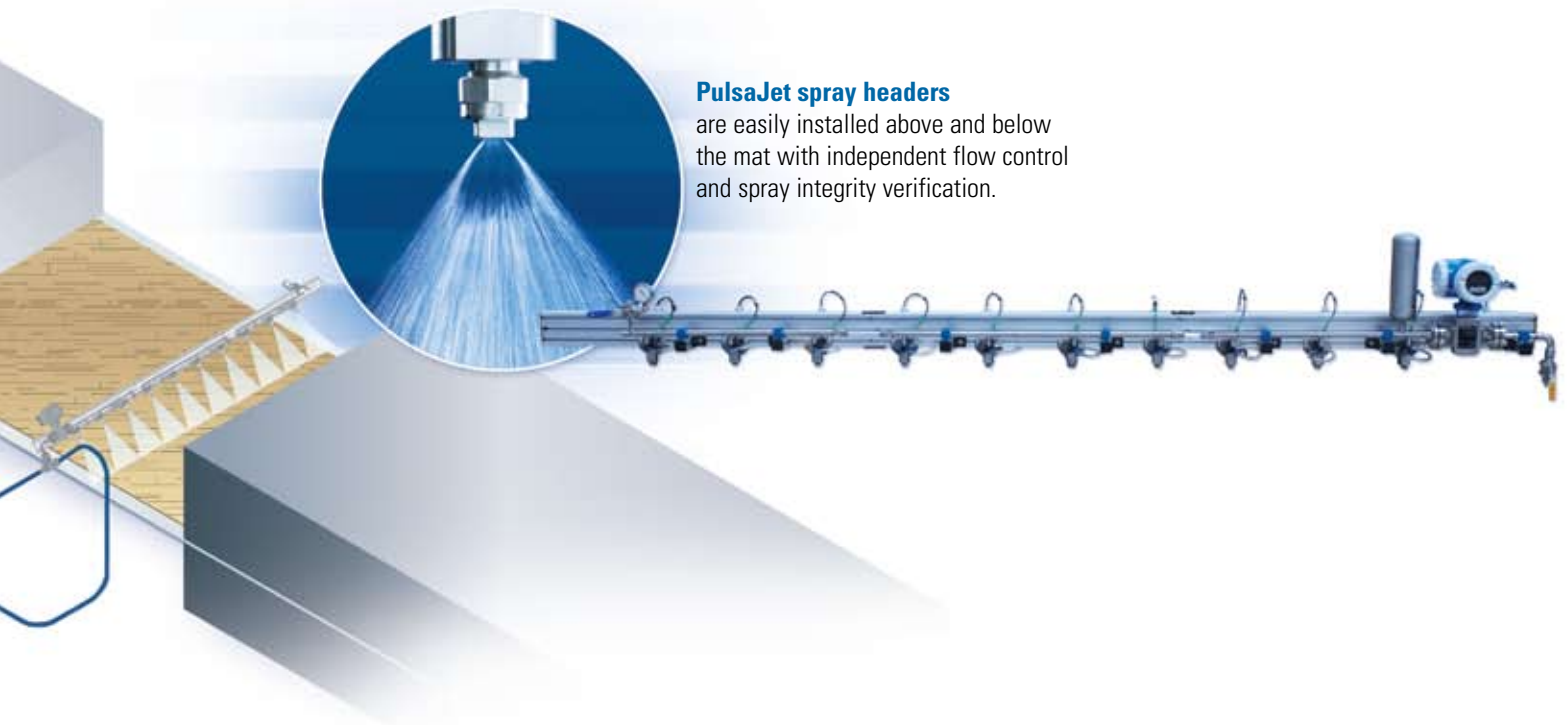
- Spray nozzles: PulsaJet® electrically-actuated automatic spray nozzles
- Control unit: AutoJet® Model 2250 Spray Controller using PWM flow control

Liquid Specifications

- Maximum flow rate: 0.66 gpm at 73 psi (2.5 l/min at 5 bar) for each header
- Maximum chemical dosing rate: 35 gph (132.5 l/h) with a viscosity of 500 cP

Enclosure Specifications

- Dimensions (l x w x h): 63" x 20" x 75" (1600 x 508 x 1905 mm)
- Material: Stainless steel
- IP rating: IP54
- Power supply: 230 VAC/50 Hz (3x 400 VAC/50 Hz when heating option used)
- Power consumption: 1.5 kW (7.5 kW when heating option used)
- Temperature: 40°F to 105°F (4.4°C to 40.5°C)
- Humidity: Max 90% RH



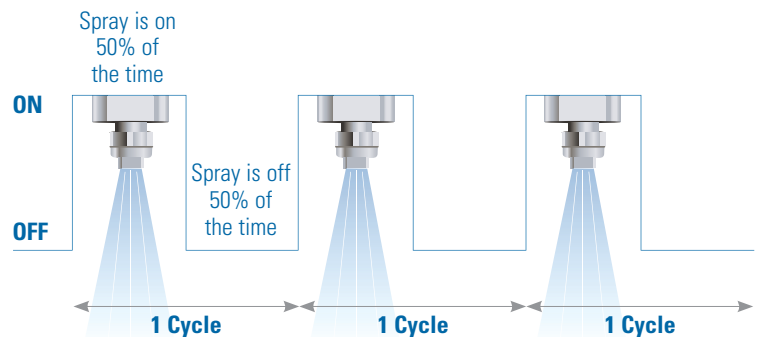
PulsaJet spray headers

are easily installed above and below the mat with independent flow control and spray integrity verification.

Pulse Width Modulated (PWM) Flow Control – What It Is and Why It's Important

Using an AutoJet spray controller, flow rate can be controlled very precisely by cycling PulsaJet spray nozzles on and off quickly at a controlled frequency. For a duty cycle of 50%, the nozzle sprays half the time and the flow will be 50% of the maximum flow rate at a given pressure for the nozzle. With PWM flow control:

- Mist and overspray are eliminated
- Flow rate can be changed almost instantaneously
- Extremely high flow turndown ratios can be achieved at a single pressure
- Relatively low flow rates can be generated with larger, clog-resistant spray tips
- Chemical consumption can be reduced



Other Helpful Resources

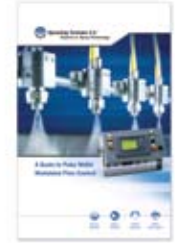
PulsaJet® Automatic Spray Nozzles Bulletin 603A

Eight-page bulletin details the PulsaJet family of automatic spray nozzles for unmatched precision in a wide range of applications.



A Guide to Pulse Width Modulated Flow Control Technical Manual 414

12-page manual provides the technical details and benefits of using PWM flow control and electrically-actuated spray nozzles in applications requiring precise coating and/or dosing.



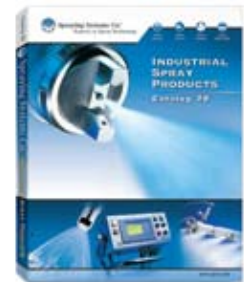
Optimizing Your Spray System Technical Manual 410

52-page handbook/manual explains how to evaluate your spray system, uncover and solve costly hidden problems, improve quality, reduce maintenance downtime and more.



Industrial Spray Products Catalog 70

Full-line catalog including spray nozzles and accessories, technical data and problem solving ideas.



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