



Spraying Systems Co.
Experts in Spray Technology

AUTOJET® FLOOR AND CARPET COATING SPRAY SYSTEM

ELIMINATE QUALITY PROBLEMS CAUSED BY INCONSISTENT APPLICATION OF CHEMISTRY

The challenges associated with foam rolling systems are many. Chemistry is generally over- or under-applied. Over-application is costly and wasteful. Under-application problems don't become apparent until after installation by the customer. The AutoJet Floor and Carpet Coating Spray System eliminates these problems and more. The system ensures the proper volume of chemical is applied consistently and uniformly without waste – even when line speed or carpet width changes.

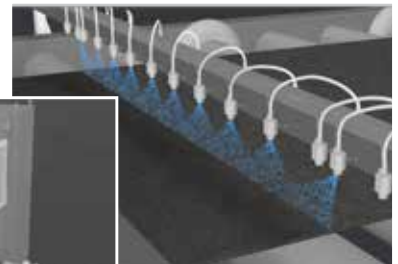
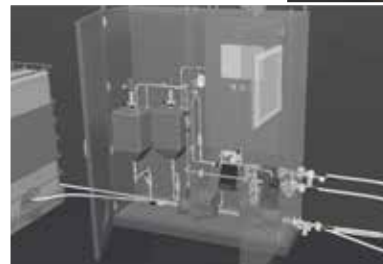
BENEFITS

- Eliminates quality problems and eliminates end-user dissatisfaction
- Eliminates waste by precisely applying chemicals only where needed and at a consistent application rate even when operating conditions change
- Increases production by automatically adjusting the application rate when carpet type changes
- Reduces shipping costs and pollution – dilution of concentrates occurs in small day tanks inside the control cabinet
- Improves operating versatility – fast change between chemicals with little or no downtime; flushing and filling tanks are eliminated
- Eliminates the need for surfactants required for foam rolling systems
- Easy operation; minimal maintenance

HOW IT WORKS

PulsaJet® nozzles mounted on a header apply the chemical just prior to the carpet entering the dryer. Sensors are used to notify the controller when line speed changes or carpet width changes. The controller adjusts the flow rate as required and turns nozzles on and off based on carpet width to ensure chemical is applied only where needed. Small day tanks housed inside the control cabinet, provide automatic mixing with water to the required concentration.

Day tanks



PulsaJet Header



youtube.com/spraying systems

WATCH THE AUTOJET FLOOR
AND CARPET COATING SYSTEM

VIEW ► DEMO

SPECIFICATIONS

SPRAY CONTROL SYSTEM

AutoJet spray control using Allen-Bradley® PLC

Flow meter: Triggers an alarm if liquid flow falls outside of a set value

FLUID DELIVERY

PulsaJet® header:

- Customized to meet spray width specifications
- Independent control of mixing of chemistry per header
- Independent control of application rate per header
- One pump per header

PulsaJet nozzles: Electrically-actuated hydraulic

Spray tips: PWMD or TPU

FLUID SUPPLY

Dosing pumps: 0 to 100% concentration of anything from water to “neat” chemistry can be dosed into two separate day tanks in the system cabinet

INSTANTANEOUS CONTROL OF FLOW RATE WITH PRECISION SPRAY CONTROL

Precision Spray Control (PSC) involves turning nozzles on and off very quickly to control flow rate. This cycling is so fast that the flow often appears to be constant. With traditional nozzles, flow rate adjustments require a change in liquid pressure, which also changes the nozzle’s spray angle/coverage and drop size. With PSC, pressure remains constant, enabling flow rate changes while spray performance and application rates remain consistent – even when operating conditions, like line speed, change. PSC requires the use of electrically-actuated spray nozzles and an AutoJet spray controller.

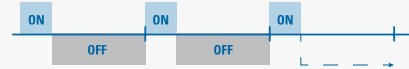
Nozzles spraying 90% of the time



Nozzles spraying 50% of the time



Nozzles spraying 25% of the time



Allen Bradley is a registered trademark of Rockwell Automation, Inc.



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