AutoJet® TECHNOLOGIES
From *Spraying Systems Co.*

AUTOJET® TISSUE LAMINATION SYSTEM

AUTOMATED SYSTEM IMPROVES PRODUCT QUALITY AND REDUCES WASTE

The patented AutoJet Tissue Lamination System uses unique spray technology to precisely apply foamed adhesives to tissue. This new technology, designed to replace knurling wheels, hot-melt or water-based adhesive systems, provides better tissue bonding using less adhesive and self cleaning.

BENEFITS

- Precise application of foamed adhesives on all types of multi-ply tissues for excellent bonding without affecting the drape or softness of the material.
- Prevents ply mismatch and maximizes bond-strength.
- Reduces over application of adhesive and saturation of tissue.
- Reduces wasted adhesive and scrap.
- Eliminates misting and the associated clean-up of nozzles, header and other equipment. Also improves worker safety.
- Reduces maintenance downtime – nozzles are automatically cleaned both internally and externally after every stoppage.
- More efficient operation means 50% reduction in operating costs compared to hot-melt and water-based spray systems.

The system uses an Allen Bradley PLC based AutoJet spray controller with HMI touchscreen to provide closed-loop flow control. As your line speed changes, spray volume is automatically adjusted to ensure maximum bond strength.

Special nozzles use air to produce fine droplets and reduce bearding. Fluid and air passages are flushed during cleaning cycles.

IDEAL FOR

- Paper Towels
- Toilet Paper
- Facial Tissues

AUTOMATED CLEANING AND ADHESIVE APPLICATION

Between parent roll changes, the automatic cleaning cycle washes external nozzle surfaces to eliminate clogging caused by build-up and purges foamed adhesive lines with water to ensure optimal performance.

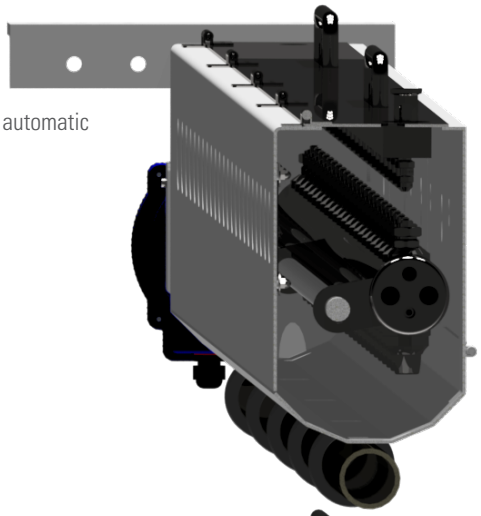
The cleaning cycle is programmable and typically lasts about 30 to 60 seconds. The cleaning cycle may also be programmed to run during unscheduled stoppages such as sheet breaks and may be manually triggered if necessary.

In addition to automated cleaning cycles for the spray header, the AutoJet Tissue Lamination System also automates adhesive application rate. Using a positive displacement pump and a flowmeter, along with a customer-supplied line speed signal, the system provides closed-loop flow control to the header to prevent over- or under-application.

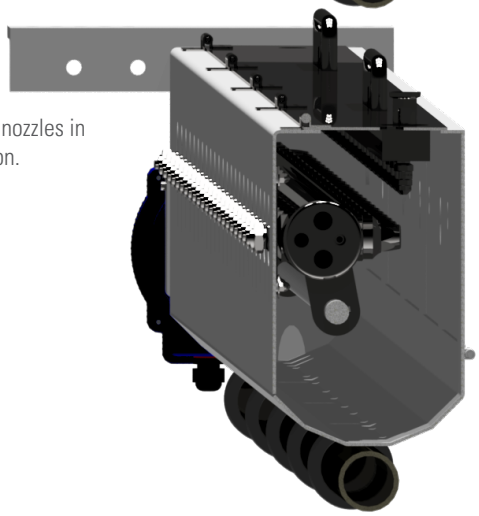
The patented self-cleaning spray header features air atomizing nozzles positioned just 6" to 8" (152 to 203 mm) from the tissue web. Headers are custom fabricated to precisely fit your machine.

SPECIFICATIONS

Spray header: 7" x 14" (177.8 x 355.6 mm) side profile Two headers may be placed together for wider coverage spans No nip required; "S" wrap only
Typical spray distance: 6" to 8" (152.4 to 203.2 mm)
Fast rewinder speeds up to 3000 ft/min (914.4 m/min)
Application rates: 5 to 30 mg/ft^2 (54 to 323 mg/m^2)



Side view during automatic cleaning cycle.



Side view with nozzles in spraying position.

Spraying Systems Co.®
Experts in Spray Technology

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