



Spraying Systems Co.[®]
Experts in Spray Technology



Spray
Nozzles



Spray
Control



Spray
Analysis



Spray
Fabrication



A Guide to Spray Technology for Tablet Coating

Complete Spray Solutions from R&D to Production Scale

Improve spray performance with
automatic nozzles and modular manifolds

From small research and development projects up to full production scale, Spraying Systems Co. offers a variety of products to meet your tablet coating needs. With the ability to design custom products with materials and components to meet all current cGMP and FDA guidelines, we are able to provide solutions to even the most complex coating challenges while improving product quality and reducing maintenance costs.

Our expertise in spray technology can help you determine the optimal flow rate, spray height, nozzle spacing, and other critical parameters to maximize your process efficiency, cutting costs and reducing waste. With our state-of-the-art spray labs, we also have the capability to simulate our customer's operating environments, ensuring that our customized products and systems are optimized for your application, and with a global network of sales offices and manufacturing facilities, we are able to provide superior service and support for our products worldwide.

Phase I: R&D Scale



54200 VMAU Lab Coater



JAU

Phase II: Pilot/Production Scale



VMAU

Phase III: Production Scale



54000 Modular Manifold

54000-LC Modular Manifold



Custom Engineered to Maximize Your Coating Efficiency

Minimize Cleaning and Maintenance Downtime

- Mechanically polished and electro-polished surface finish including internal flow passageways for easy cleaning
- Threadless, modular design disassembles in seconds for cleaning or maintenance, reducing process downtime

Flexible to Meet Your Needs

- Wide variety of spray set-ups, nozzle sizes and mounting options
- Modular design of manifold and nozzles offers the flexibility to fit various unique spray applications
- FDA-compliant materials of construction

Superior Spray Performance

- Uniform spray distribution
- Increased throughput with improved spray and product quality
- Independent controls of liquid, atomizing air and fan air for fine tuning of spray capacity, droplet size, and spray patterns

Reduce Costs

- Adjustable fan settings reduce energy consumption and costs
- Save time and money by eliminating multiple connections
- Minimize over-spraying for reduced product waste

Simplify Your Scale-Up Without Extensive Revalidation

- Same size setups and fluid tips used on 54200 VMAU Lab coater, 54000 Modular Manifold and VMAU/53000 "J" type set-up automatic spray nozzles
- This makes it simple to scale up from smaller laboratory R&D scale applications to full production without the need for revalidation
- Wide range of capacity sizes available

NEW improved anti-bearding setups

Provide superior bearding resistance, dramatically cutting cleaning and maintenance downtime, allowing users to run their spray operations for many times longer without shutting down.



Dedicated to meeting your cGMP requirements

Spraying Systems Co. has the capability to develop custom spray products that meet your current cGMP requirements as well as design products in compliance with ASME® BPE standards. In addition, we supply extensive turnover packages detailing our entire fabrication process.

Additional Resources

A Guide to Spray Technology for Pharmaceutical Processing **Bulletin 599A**

6-page bulletin covers spray nozzles for tablet coating, vessel cleaning, and spray drying.



54200 VMAU Lab Coater **Bulletin 672**

2-page bulletin discusses new variable automatic lab coater nozzle for R&D scale coating applications.



Modular Air Atomizing Manifold **Bulletin 562B**

2-page bulletin details the benefits of the 54000 modular air atomizing manifold system for precision tablet coating applications.



VMAU Spray Gun **Bulletin 558**

2-page bulletin discusses the modular variable automatic spray gun for tablet coating applications.



Anti-Bearding Spray Set-ups **Bulletin 573**

2-page bulletin covers the benefits of anti-bearding spray set-ups designed to reduce clogging and maintenance.



Retrofit Batch Equipment and Controls **Bulletin FA103**

Explains how to update and expand the capabilities of current equipment through software upgrades and/or machine conversions.



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North Avenue and Schmale Road, P.O. Box 7900, Wheaton, IL 60187-7901 USA

Tel: 1.800.95.SPRAY

Intl. Tel: 1.630.665.5000

Fax: 1.888.95.SPRAY

Intl. Fax: 1.630.260.0842

www.spray.com



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